Date: July 13, 2022
Version 1.4.1
ECHONET Consortium

ECHONET Lite Web API Guidelines
device specifications section
Ver.1.4.1

©2018-2022 ECHONET Consortium

Revision record

Date	Version	Description
October 03, 2018	Ver.1.00	Established, published for general public
August 21, 2019	Ver. 1.1.0 draft	For WG deliberations
		Changed font used for body text: Changed to MS Gothic
		Cover page, table of contents, overall documents: Changed document styles, such as the method for designating blank lines and adding header lines
		Items under Section 4.3: Down the hierarchical level of properties and the like
		Section 4.4: Changed to Chapter 5
		Table of Contents, Chapter 1, Chapter 5, each device: Inserted page breaks
		Common Items: Correction of errors
		Device specifications: ECHONET Specification APPENDIX: Supporting Detailed Requirements for ECHONET Device Objects Release K
		Home air conditioners, electric vehicle chargers/dischargers, low-voltage smart electric energy meters, electric vehicle chargers, enhanced lighting system, controllers: Revised
		Electric water heaters, household solar power generations: Added and revised
		Ventilation fan, air cleaner, commercial air conditioner indoor unit, commercial air conditioner outdoor unit, electric rain door, electric lock, bathroom heater dryer, floor heater, mono functional lighting, refrigerator, cooking heater, rice cooker, commercial showcase, commercial showcase outdoor unit, switch: newly-added
		List of Devices: "Last updated," "note": added lines
		Overall details of device descriptions: Deleted descriptions of AIF properties
		Version No.: Changed to Ver. 1.1.0
		Name of this document: Changed "Appendix" to "Guidelines (device specifications section)"
November 05, 2019	Ver.1.1.0	Established, published for general public

©2018-2022 ECHONET Consortium

Date	Version	Description
February 14, 2020	Ver. 1.1.1 draft	For WG deliberations
		Electric water heater: "note" position in "surplusPowerPrediction": corrected
		Refrigerator: "note" position in "maximAllowableTemperatureLevel": corrected
		Electric rain door: EPC for "oneTimeClosingSpeed": corrected from "0xEE" to "0xEF".
		Bathroom heater dryer: Table: corrected from "coolAirCirculation" to "coolAirCirculation".
		Household solar power generations: "idNumber": deleted
		High-voltage smart electric energy meter: "ja" and "en" description in the "notes": partially corrected
		Chapter 5: "note" in "List of devices": updated
		Chapter 3: null type added
March 27, 2020	Ver.1.1.1	Established, published for general public
July 29, 2020	Ver. 1.2.0 draft	For WG deliberations
		Supporting Appendix Release M
		Hybrid water heater, washer dryer: newly added
		Electric water heater: "waterHeatingShiftTime1" and "waterHeatingShiftTime2": corrected
		Instantaneous water heater: "targetSuppliedWaterTemperature" and "targetBathWaterTemperature": added
		Bathroom heater dryer: "operationSetting" and "onTimerReservation2": corrected
		Household solar power generation: "installationAnotherElectricPowerGeneration": corrected clerical errors
		Floor heater: "maximumTargetTemperature2": added
		Storage battery: "chargingMethod", "dischargingMethod", and 4 related properties: added
		Electric vehicle charger/discharger: added supplementary explanation

©2018-2022 ECHONET Consortium

Date	Version	Description
		Low-voltage smart electric energy meter, high-voltage smart electric energy meter: added explanation of "maximum" and "multipleOf"
		Controller: EPC (EL) section in "deviseList": corrected clerical errors (deleted C5)
		Common Items: "descriptions" section of "manufacturer": corrected clerical errors
		Washer dryer: notation in "oneOf": description unified
		Format of all JSON sections: modified
September 25, 2020	Ver.1.2.0	Established, published for general public
March 12, 2021	Ver. 1.3.0 draft	For WG deliberations
		(Objects are expanded to devices with existing product registrations)
		Temperature sensor, electric energy sensor, current value sensors, cold or hot water heat source equipment, watt hour meter, power distribution board metering, air conditioner ventilation fan, TV: newly added
		All devices: Defined property resources considering all properties including optional properties (excluding those unnecessary due to introduction of Web API)
		Electric rain door, household solar power generation, commercial showcases, commercial showcase outdoor unit, cooking heater, floor heater, electric vehicle charger/discharger, storage battery, low-voltage smart electric energy meter, high-voltage smart electric energy meter, air cleaner, commercial air conditioner outdoor unit, refrigerator, ventilation fan, electric water heater, enhanced lighting system, hybrid water heater: Added/changed some property and resource names/EDT values
		Commercial air conditioner indoor unit, home air conditioner, fuel cell, general lighting, instantaneous water heater: Added some property and resource names/EDT values
		All devices: Sorted resources in "properties", and "actions" in (basically) EPC order
		3.2 Corrected the example of "time" notation to RFC3339 compliant format.
		3.3 When "multipleOf" is omitted, deleted the fact that the unit is set to 1

©2018-2022 ECHONET Consortium

Date	Version	Description
		Low-voltage smart electricity energy meter, high-voltage smart electricity energy meter, power distribution board metering: changed "querySchema" to "urlParameters"
June 25, 2021	Ver.1.3.0	Established, published for general public
April 22, 2022	Ver. 1.4.0 draft	For WG deliberations
		Supporting Appendix Release P (rev.1)
		Bath heating status sensor, CO2 sensor, emergency button, gas meter, human detection sensor, humidity sensor, illuminance sensor, lighting system, smart electric energy submeter, VOC sensor, water flow meter: newly added
		3.3 "number": "coefficient" added explanation
		3.4 "null": abolished
		4.2 Changed reference guideline destinations (2 points)
		Watt hour meter, washer dryer, TV, switch, storage battery, refrigerator, household solar power generation, power distribution board metering, low-voltage smart electric energy meter, high-voltage smart electric energy meter, general lighting, fuel cell, floor heater, enhanced lighting system, electric water heater, electric lock, commercial showcase, cold or hot water heat source equipment, instantaneous water heater: partially added and changed in "note" and "descriptions"
		Watt hour meter, power distribution board metering, low-voltage smart electric energy meter, high-voltage smart electric energy meter: "maximum" and "multipleOf": deleted in some "schemas"
		Low-voltage smart electric energy meters: corrected "reverseDirectionCumulativeElectricEnergyEvery30Min" to "reverseDirectionCumulativeElectricEnergyEveryAt30Min"
		Fuel Cell: "inHouseCumulativePowerConsumption", "cumulativePowerGenerationOutputReset", and "inHouseCumulativePowerConsumptionReset": changed respective names to "inHouseCumulativeEnergyConsumption", "cumulativeEnergyGenerationOutputReset", and "inhouseCumulativeEnergyConsumptionReset"
		Floor heater: "undefined" value in "measuredFloorTemperature": Corrected to "undefined"

©2018-2022 ECHONET Consortium

Date	Version	Description
		Electric vehicle charger/discharger: corrected the values of "equipmentType" from "dc_ff_chargedDischarge" to "dc_ff_chargedischarge"; added "chargingDischarging", "preparation", and "automatic" to "operationMode"; added "chargingMethod", "dischargingMethod", "purchasingElectricPower", "reInterconnectionPermission", "chargingDischargingElectricPower", and "maintenanceStatus" for property resources
		Current value sensor: Name changed to current sensor
		Cooking heater: corrected "edt" values when no setting of "relativeTimeOfOffTimer", "heatingTemperature", and "heatingPower", and modified notation format in properties for "heatingPower"
		Air conditioner ventilation fan: added "ventilationModeAuto": in "humidity", added value "unmeasurable"
		Enhanced lighting system, household solar power generations, storage battery: value "notSet" is unified to "noSetting"
		General lighting, mono functional lighting, enhanced lighting system: changed "brightness" to "lightLevel"
		General lighting: added the value "undefined" for lightColor, added the content of "epc" of 0xBA as "lightLevelStepForNightLighting", and corrected the content of "epc" of 0xBB as "lightColorForMainLighting"
		In "List of Devices" table: add a mark for devices with supplementary explanations
May 27, 2022	Ver.1.4.0	Established, published for general public
June 15, 2022	Ver. 1.4.1 draft	For WG deliberations
		Common items, cold or hot water heat source equipment, instantaneous water heater: Added/changed some property/resource names
		Commercial air conditioner indoor/outdoor units, lighting system, and enhanced lighting system: some property values are unified from "none" to "noSetting"
		Home air conditioner: added values in "onTimerReservation" and "offTimerReservation"
July 13, 2022	Ver.1.4.1	Established, published for general public

©2018-2022 ECHONET Consortium

The specifications published by the ECHONET Consortium are established without regard to industrial property rights (e.g., patent and utility model rights). In no event will the ECHONET Consortium be responsible for industrial property rights to the contents of its specifications.

In no event will the publisher of this specification be liable for any damages arising out of use of this specification.

The original language of the ECHONET Lite Specifications is Japanese. This English version is a translation of the Japanese version; in case of any queries about the English version, refer to the Japanese version.

©2018-2022 ECHONET Consortium

Contents

- 1. Outline of this document
- 2. Configuration of this document
- 3. Data Types
  - 3.1 boolean
  - 3.2 string
  - 3.3 number
  - 3.4 array
  - 3.5 object
  - 3.6 Mixed type: oneOf
- 4. Device Description
  - 4.1 Naming policy
  - 4.2 Installed property policy
  - 4.3 Common items
    - Properties
    - Installation location values
    - Device Description (Common Items)
- 5. Device descriptions of each device
  - List of devices
  - Emergency button: emergencyButton: 0x0003
  - Human detection sensor: humanDetectionSensor: 0x0007
  - Temperature sensor: temperatureSensor: 0x0011
  - Humidity sensor: humiditySensor: 0x0012
  - Bath heating status sensor: bathHeatingStatusSensor: 0x0016
  - CO2 sensor: co2Sensor: 0x001B
  - VOC sensor: vocSensor: 0x001D
  - Electric energy sensor: electricEnergySensor: 0x0022
  - Current sensor: currentSensor: 0x0023
  - Illuminance sensor: illuminanceSensor: 0x00D0
  - Home air conditioner: homeAirConditioner: 0x0130
  - Ventilation fan: ventilationFan: 0x0133
  - Air conditioner ventilation fan: airConditionerVentilationFan: 0x0134
  - Air cleaner: airCleaner: 0x0135
  - Package-type commercial air conditioner (indoor unit) (except those for facilities): commercialAirConditionerIndoorUnit: 0x0156
  - Package-type commercial air conditioner (outdoor unit): commercialAirConditionerOutdoorUnit: 0x0157
  - Electrically operated rain sliding door/shutter: electricRainDoor: 0x0263
  - Electric water heater: electricWaterHeater: 0x026B
  - Electric lock: electricLock: 0x026F
  - Instantaneous water heater: instantaneousWaterHeater: 0x0272
  - Bathroom heater dryer: bathroomHeaterDryer: 0x0273

©2018-2022 ECHONET Consortium

- Household solar power generation: pvPowerGeneration: 0x0279
- Cold or hot water heat source equipment: coldOrHotWaterHeatSourceEquipment: 0x027A
- Floor heater: floorHeater: 0x027B
- Fuel cell: fuelCell: 0x027C
- Storage battery: storageBattery: 0x027D
- EV charger and discharger: evChargerDischarger: 0x027E
- Watt-hour meter: wattHourMeter: 0x0280
- Water flowmeter: waterFlowMeter: 0x0281
- Gas meter: gasMeter: 0x0282
- Power distribution board metering: powerDistributionBoardMetering: 0x0287
- Low-voltage smart electric energy meter: lvSmartElectricEnergyMeter: 0x0288
- High-voltage smart electric energy meter: hvSmartElectricEnergyMeter: 0x028A
- Smart electric energy meter for sub-metering: smartElectricEnergySubMeter: 0x028D
- General lighting: generalLighting: 0x0290
- Mono functional lighting: monoFunctionalLighting: 0x0291
- EV Charger: evCharger: 0x02A1
- Lighting system: lightingSystem: 0x02A3
- Extended lighting system: enhancedLightingSystem: 0x02A4
- Hybrid water heater: hybridWaterHeater: 0x02A6
- Refrigerator: refrigerator: 0x03B7
- Cooking heater: cookingHeater: 0x03B9
- Rice cooker: riceCooker: 0x03BB
- Commercial showcase: commercialShowcase: 0x03CE
- Washer and dryer: washerDryer: 0x03D3
- Commercial show case outdoor unit: commercialShowcaseOutdoorUnit: 0x03D4
- Switch (supporting JEM-A/HA terminals): switch: 0x05FD
- Controller: controller: 0x05FF
- Television: tv: 0x0602

©2018-2022 ECHONET Consortium

1. Outline of this document

This document gives device descriptions based on the ECHONET Lite Web API Guidelines (API specifications section). The device descriptions mainly consist of property descriptions. Data descriptions handled by properties fall into two categories: one relates to data values and the other relates to explanations of data values. The former is described using the JSON Schema. The latter adds keywords to the JSON Schema and describes it within the JSON Schema framework.

2. Configuration of this document

Chapter 3 describes definitions related to data type handled by properties, Chapter 4 describes policies related to descriptions of device description and property definitions that are common to all devices, and Chapter 5 describes examples of device descriptions related to device objects.

3. Data Types

This specification conforms to JSON Schema, and some keywords are added where necessary.

3.1 boolean

Format

```
{
  "type": "boolean",
  "values": [
    {
      "value": <true or false>,
      "descriptions": {
        "ja": <description in Japanese>,
        "en": <description in English>
      },
      "edt": <edt value>
    },
    ...
  ]
}
```

Keyword	Type	Required	Extention	Description
values	array	yes	yes	array of value object
value	boolean	yes	yes	true or false
descriptions.ja	string	yes	yes	description in Japanese
descriptions.en	string	yes	yes	description in English
edt	string	no	yes	EDT value in HEX

The "extension" column of the table above indicates whether the contents are extension keywords or not.

Example of Schema

©2018-2022 ECHONET Consortium

```
{
  "type": "boolean",
  "values": [
    {
      "value": true,
      "descriptions": {
        "ja": "異常あり",
        "en": "Fault"
      },
      "edt": "0x41"
    },
    {
      "value": false,
      "descriptions": {
        "ja": "異常無し",
        "en": "No Fault"
      },
      "edt": "0x42"
    }
  ]
}
```

Example of body data

```
{
  "operationStatus": true
}
```

3.2 string

Format

```
{
  "type": "string",
  "format": <keyword for format>,
  "enum": [ <string1>, <string2>, ...
  ],
  "values": [
    {
      "value": <value in string>,
      "descriptions": {
        "ja": <description in Japanese>,
        "en": <description in English>
      },
      "edt": <edt value>
    },
    ...
  ]
}
```

When the `string` means a specific value, it is specified with the keyword "`format`". The values to be designated are: "`date-time`", "`date`", and "`time`".

©2018-2022 ECHONET Consortium

The keyword "enum" is used to enumerate possible values. The keyword "values" describing enum values is the same as defined in boolean.

Keyword	Type	Required	Extention	Description
format	string	no	no	specify data format from "date-time", "date" and "time"
enum	array	no	no	enumurate available strings
values	array	yes	yes	array of value object
value	string	yes	yes	value in string
descriptions.ja	string	yes	yes	description in Japanese
descriptions.en	string	yes	yes	description in English
edt	string	no	yes	EDT value in HEX

Example of Schema

```
{
  "type": "string",
  "format": "date-time"
}
```

```
{
  "type": "string",
  "enum": [
    "normal",
    "night",
    "color"
  ],
  "values": [
    {
      "value": "normal",
      "descriptions": {
        "ja": "通常灯",
        "en": "Main Lighting"
      },
      "edt": "0x42"
    },
    {
      "value": "night",
      "descriptions": {
        "ja": "常夜灯",
        "en": "Night Lighting"
      },
      "edt": "0x43"
    },
    {
      "value": "color",
      "descriptions": {
        "ja": "カラー灯",
```


©2018-2022 ECHONET Consortium

```
          "en": "Color Lighting"
        },
        "edt": "0x45"
      }
    ]
  }
```

Example of body data

```
{
  "date-time": "2017-01-24T13:15:22+09:00"
}
```

```
{
  "date": "2018-01-23"
}
```

```
{
  "time": "10:30:00+09:00"
}
```

```
{
  "operationMode": "normal"
}
```

3.3 number

Format

```
{
  "type": "number",
  "unit": <unit>,
  "minimum": <minimum number>,
  "maximum": <maximum number>,
  "multipleOf": <minimum digit>,
  "coefficient": <array of epc>
}
```

Keyword	Type	Required	Extention	Description
unit	string	no	yes	unit of the data
minimum	number	no	no	minimum value
maximum	number	no	no	maximum value

©2018-2022 ECHONET Consortium

Keyword	Type	Required	Extention	Description
multipleOf	number	no	no	minimum step of the data
coefficient	array	no	no	array of epc to multiply

Coefficients are described as hints when the values of the target property resource are calculated by multiplying other EPC values related to ECHONET Lite (e.g. Coefficient and unit).

Example of Schema

```
{
  "type": "number",
  "unit": "kWh",
  "minimum": 0,
  "maximum": 9999.9,
  "multipleOf": 0.1,
  "coefficient": ["0xD3", "0xE1"]
}
```

Example of body data

```
{
  "humidity": 45
},
```

```
{
  "cumulativeEnergy": 15.5
}
```

3.4 array

Format

```
{
  "type": "array",
  "minItems": <a minimum count of items in the array>,
  "maxItems": <a maximum count of items in the array>,
  "items": <data type object>
}
```

Keyword	Type	Required	Extention	Description
minItems	number	no	no	a minimum count of items in the array
maxItems	number	no	no	a maximum count of items in the array

©2018-2022 ECHONET Consortium

Keyword	Type	Required	Extention	Description
items	object	yes	no	data type object

Example of Schema

```
{
  "type": "array",
  "minItems": 48,
  "maxItems": 48,
  "items": {
    "type": "number",
    "unit": "kWh",
    "minimum": 0,
    "maximum": 9999
  }
}
```

Example of body data

```
{
  "powerConsumption": [
    23,
    12,
    0,
    ...
  ]
}
```

3.5 object

Format

```
{
  "type": "object",
  "properties": {
    <property name>: <data type object>,
    <property name>: <data type object>,
    ...
  }
}
```

Keyword	Type	Required	Extention	Description
properties	object	yes	no	key:property name, value:data type object

Example of Schema (General Lighting, rgb)

©2018-2022 ECHONET Consortium

```
{
  "type": "object",
  "properties": {
    "red": {
      "type": "number",
      "minimum": 0,
      "maximum": 255,
      "multipleOf": 1
    },
    "green": {
      "type": "number",
      "minimum": 0,
      "maximum": 255,
      "multipleOf": 1
    },
    "blue": {
      "type": "number",
      "minimum": 0,
      "maximum": 255,
      "multipleOf": 1
    }
  }
}
```

Example of body data

```
{
  "rgb": {
    "red": 20,
    "green": 255,
    "blue": 0
  }
}
```

Example of Schema (LV smart meter, `normalDirectionCumulativeElectricEnergyLog1`)

```
{
  "type": "object",
  "properties": {
    "day": {
      "type": "number",
      "minimum": 0,
      "maximum": 255
    },
    "energy": {
      "type": "array",
      "minItems": 48,
      "maxItems": 48,
      "items": {
        "type": "number",
        "unit": "kWh"
      }
    }
  }
}
```


©2018-2022 ECHONET Consortium

Example of body data

```
{
  "normalDirectionCumulativeElectricEnergyLog1": {
    "day": 0,
    "energy": [
      20,
      34,
      59,
      109
    ]
  }
}
```

3.6 Mixed type: oneOf

When one can be selected from among multiple data type objects.

Format

```
{
  "oneOf": [
    <data type object>,
    <data type object>,
    ...
  ]
}
```

Example of Schema

```
{
  "oneOf": [
    {
      "type": "number",
      "minimum": 1,
      "maximum": 8
    },
    {
      "type": "string",
      "enum": [
        "auto"
      ],
      "values": [
        {
          "value": "auto",
          "descriptions": {
            "ja": "自動",
            "en": "Auto"
          },
          "edt": "0x41"
        }
      ]
```


©2018-2022 ECHONET Consortium

```
      }
    ]
  }
```

Example of body data

```
{
  "airFlowLevel": 3
}
```

or

```
{
  "airFlowLevel": "auto"
}
```

4. Device Description

4.1 Naming policy

ECHONET Lite device object property names represent device-specific functions. Some property names are difficult to use as Web API interface names without modification. It is desirable to use character strings such as "operationStatus" instead of ECHONET property code (EPC) values (e.g. 0X80) to ensure user friendliness even for Web service app developers.

Such character strings that designate properties shall be called "property resource names" here. The property resource names shall be easy-to-understand character strings, since they shall become a part of the Web API URI. The following describes the property resource naming policy.

1. Names shall start with the English name of the ECHONET Lite property name as "lowerCamelCase".
2. Keep in mind that it shall be nouns followed by "method (GET, PUT)".
3. To avoid redundancy, omit words that provide no information (e.g. measured, amount, value, or setting).
4. Correct them, as needed, as it may cause misunderstandings regarding the meaning.
5. Ensure consistency among device objects.
6. If the data type is "boolean", the property resource name shall be "status", which corresponds with "true".
7. If setting values and measured values are defined in other EPCs, the setting value shall be "targetXXX".
   Ex.: Air conditioner

   ```
   EPC=0xB3: Temperature setting value, "Set temperature value" → targetTemperature
   EPC=0xBB: Measured value of room temperature, "Measured value of room temperature" →
   ```


©2018-2022 ECHONET Consortium

```
roomTemperature
(Note: "Set temperature value" may be misunderstood as a method "to set a temperature".)
```

4.2 Installed property policy

Recommended contents provided by the device descriptions shall be prepared based on a property map of the target devices. Assumed methods to acquire property maps include: obtaining specifications of the target device beforehand and obtaining property maps installed to actual devices through controllers by servers, using ECHONET Lite commands. The services provided by acquired property maps (most of them support property code EPC) shall be available, if applicable property resource names (properties.name) exist in the Device Description definitions (as will be described later) related to devices. If no applicable property resource names exist, the services cannot be provided, or can be provided only after uniquely defining them as needed. The property names to be uniquely defined shall have prefixes prepended to the service names that serve as indicators, to identify them as vendor-specific service names (See Guideline API Specification Section "7.5 Guideline on the Expansion of Device Description"). Using "echoCommand" shall be allowed as other methods for unique definition (see body text of the Guideline API Specification Section "7.7 EchoCommand"). Note that if a device property map cannot be acquired, the device description definitions (as will be described later) can be used as-is. Errors shall be appropriately sent if services not being installed in actual devices upon the request of the clients are called.

Services with device PM		Definitions of this document DD		Actual DD provided
Provided	x	Provided	=	Obey DD definition
Provided	x	Not provided	=	Not provided or can be uniquely defined
Not provided	x	Provided/Not provided	=	Not provided

PM: Property map, DD: Device description

The value range handled by services can be reflected onto device description values (e.g. "minimum", "maximum", "multipleOf", "values", "from", and "to") after reflecting the value range (e.g. value range and enumeration value) installed to the target actual devices beforehand, if available. If the value range is unknown, requests shall be appropriately responded to by responses from the actual device, while using the definitions of device descriptions (as will be described later).

4.3 Common items

Properties common to all devices are described. The "operationStatus" and "faultStatus" are required. If some contents described in the common items are overwritten for a device, the contents are described in the description of the device.

Properties

Property Resource Name	Access Method	Data Type	EPC (EL)	Property name (EL)	Note

©2018-2022 ECHONET Consortium

Property Resource Name	Access Method	Data Type	EPC (EL)	Property name (EL)	Note
operationStatus	GET, PUT	boolean	0x80	Operation status	
installationLocation	GET, PUT	string	0x81	Installation location	
protocol	GET	object	0x82	Protocol version information	
id	GET	string	0x83	Identification number	
instantaneousElectricPowerConsumption	GET	number	0x84	Measured instantaneous power consumption	
consumedCumulativeElectricEnergy	GET	number	0x85	Measured cumulative power consumption	
manufacturerFaultCode	GET	string	0x86	Manufacturer's fault code	
currentLimit	GET, PUT	number	0x87	Current limit setting	
faultStatus	GET	boolean	0x88	Fault status	
faultDescription	GET	string	0x89	Fault description	
manufacturer	GET	object	0x8A	Manufacturer	
businessFacilityCode	GET	string	0x8B	Business facility code	
productCode	GET	string	0x8C	Product code	
serialNumber	GET	string	0x8D	Serial number	
productionDate	GET	string	0x8E	Production date	
powerSaving	GET, PUT	boolean	0x8F	Power-saving operation setting	*1

©2018-2022 ECHONET Consortium

Property Resource Name	Access Method	Data Type	EPC (EL)	Property name (EL)	Note
currentDateAndTime	GET, PUT	string	0x98 (paired with 0x97, however, 0x97 is omitted)	Current date and time	
powerLimit	GET, PUT	number	0x99	Power limit setting	
hourMeter	GET	object	0x9A	Cumulative operating time	

*1 Required for air conditioners

Installation location values

Installation location is a mandatory property for ECHONET Lite. However, in this guideline, it is handled as optional property. The property is any character string (string-type) to support cases such as inappropriately set values after installing devices or cases permitting designation of any installation location name in the cloud.

If using installation location codes, the following may be referred to. Using a location number is optional. However, formats such as adding or omitting location number to installation location value (e.g. "livingRoom" or "livingRoom0" for location number 0, and "livingRoom1" for location number 1 and so on) may be possible. In the following examples, installation location values are generated from the installation location types defined in the English version of APPENDIX Detailed Requirements for ECHONET Device objects, by applying rules that replace the first letter with a lower case letter, omit spaces to combine words, and replace "/" with "_".

In ECHONET Lite, performing an operation on multiple devices by specifying an installation location is allowed. However, such an operation is outside the scope of this guideline.

Installation location value	Installation location type	Installation location type (EL)
livingRoom	Living room	
diningRoom	Dining room	
kitchen	Kitchen	
bathroom	Bathroom	
lavatory	Lavatory	
washroom_changingRoom	Washroom/changing room	
passageway	Passageway	
room	Room	

©2018-2022 ECHONET Consortium

Installation location value	Installation location type	Installation location type (EL)
stairway	Stairway	
frontDoor	Front door	
storeroom	Storeroom	
garden_perimeter	Garden/perimeter	
garage	Garage	
vernanda_balcony	Veranda/balcony	
notSpecified	not specified	
indefinite	indefinite	

Device Description (Common Items)

```
{
  "deviceType": "common",
  "metaData": {
    "version": "1.4.0"
  },
  "eoj": "0x0000",
  "descriptions": {
    "ja": "共通項目",
    "en": "Common items"
  },
  "properties": {
    "operationStatus": {
      "epc": "0x80",
      "descriptions": {
        "ja": "動作状態",
        "en": "Operation status"
      },
      "writable": true,
      "observable": true,
      "schema": {
        "type": "boolean",
        "values": [
          {
            "value": true,
            "descriptions": {
              "ja": "ON",
              "en": "ON"
            },
            "edt": "0x30"
          },
          {
            "value": false,
            "descriptions": {
              "ja": "OFF",
              "en": "OFF"
            },
            "edt": "0x31"
          }
```


©2018-2022 ECHONET Consortium

```
          ]
        }
      },
      "installationLocation": {
        "epc": "0x81",
        "descriptions": {
          "ja": "設置場所",
          "en": "Installation location"
        },
        "writable": true,
        "observable": true,
        "schema": {
          "type": "string"
        }
      },
      "protocol": {
        "epc": "0x82",
        "descriptions": {
          "ja": "Protocol version情報",
          "en": "Protocol version information"
        },
        "writable": false,
        "observable": false,
        "schema": {
          "type": "object",
          "properties": {
            "type": {
              "type": "string"
            },
            "version": {
              "type": "string"
            }
          }
        },
        "note": {
          "ja": "example: type: ECHONET_Lite v1.13, version: Rel.P",
          "en": "example: type: ECHONET_Lite v1.13, version: Rel.P"
        }
      },
      "id": {
        "epc": "0x83",
        "descriptions": {
          "ja": "識別番号",
          "en": "Identification number"
        },
        "writable": false,
        "observable": false,
        "schema": {
          "type": "string"
        }
      },
      "instantaneousElectricPowerConsumption": {
        "epc": "0x84",
        "descriptions": {
          "ja": "瞬時消費電力計測値",
          "en": "Measured instantaneous power consumption"
        },
        "writable": false,
        "observable": false,
        "schema": {
          "type": "number",
```


©2018-2022 ECHONET Consortium

```
          "unit": "W",
          "minimum": 0,
          "maximum": 65533
        }
      },
      "consumedCumulativeElectricEnergy": {
        "epc": "0x85",
        "descriptions": {
          "ja": "積算消費電力計測値",
          "en": "Measured cumulative power consumption"
        },
        "writable": false,
        "observable": false,
        "schema": {
          "type": "number",
          "unit": "kWh",
          "minimum": 0,
          "maximum": 999999.999,
          "multipleOf": 0.001
        }
      },
      "manufacturerFaultCode": {
        "epc": "0x86",
        "descriptions": {
          "ja": "メーカ異常コード",
          "en": "Manufacturer's fault code"
        },
        "writable": false,
        "observable": false,
        "schema": {
          "type": "string"
        }
      },
      "currentLimit": {
        "epc": "0x87",
        "descriptions": {
          "ja": "電流制限設定",
          "en": "Current limit setting"
        },
        "writable": true,
        "observable": false,
        "schema": {
          "type": "number",
          "unit": "%",
          "minimum": 0,
          "maximum": 100
        }
      },
      "faultStatus": {
        "epc": "0x88",
        "descriptions": {
          "ja": "異常発生状態",
          "en": "Fault status"
        },
        "writable": false,
        "observable": true,
        "schema": {
          "type": "boolean",
          "values": [
            {
              "value": true,
```


©2018-2022 ECHONET Consortium

```
              "descriptions": {
                "ja": "異常あり",
                "en": "Fault occurred."
              },
              "edt": "0x41"
            },
            {
              "value": false,
              "descriptions": {
                "ja": "異常なし",
                "en": "No fault has occurred."
              },
              "edt": "0x42"
            }
          ]
        }
      },
      "faultDescription": {
        "epc": "0x89",
        "descriptions": {
          "ja": "異常内容",
          "en": "Fault description"
        },
        "writable": false,
        "observable": false,
        "schema": {
          "type": "string"
        }
      },
      "manufacturer": {
        "epc": "0x8A",
        "descriptions": {
          "ja": "メーカー",
          "en": "Manufacturer"
        },
        "writable": false,
        "observable": false,
        "schema": {
          "type": "object",
          "properties": {
            "code": {
              "type": "string"
            },
            "descriptions": {
              "type": "object",
              "properties": {
                "ja": {
                  "type": "string"
                },
                "en": {
                  "type": "string"
                }
              }
            }
          }
        }
      },
      "businessFacilityCode": {
        "epc": "0x8B",
        "descriptions": {
          "ja": "事業場コード",
```


©2018-2022 ECHONET Consortium

```
          "en": "Business facility code"
        },
        "writable": false,
        "observable": false,
        "schema": {
          "type": "string"
        }
      },
      "productCode": {
        "epc": "0x8C",
        "descriptions": {
          "ja": "商品コード",
          "en": "Product code"
        },
        "writable": false,
        "observable": false,
        "schema": {
          "type": "string"
        }
      },
      "serialNumber": {
        "epc": "0x8D",
        "descriptions": {
          "ja": "製造番号",
          "en": "Serial number"
        },
        "writable": false,
        "observable": false,
        "schema": {
          "type": "string"
        }
      },
      "productionDate": {
        "epc": "0x8E",
        "descriptions": {
          "ja": "製造年月日",
          "en": "Production date"
        },
        "writable": false,
        "observable": false,
        "schema": {
          "type": "string",
          "format": "date"
        }
      },
      "powerSaving": {
        "epc": "0x8F",
        "descriptions": {
          "ja": "節電動作設定",
          "en": "Power-saving operation setting"
        },
        "writable": true,
        "observable": false,
        "schema": {
          "type": "boolean",
          "values": [
            {
              "value": true,
              "descriptions": {
                "ja": "節電動作中",
                "en": "Power saving Operation"
```


©2018-2022 ECHONET Consortium

```
            },
            "edt": "0x41"
          },
          {
            "value": false,
            "descriptions": {
              "ja": "通常動作中",
              "en": "Normal Operation"
            },
            "edt": "0x42"
          }
        ]
      }
    },
    "currentDateAndTime": {
      "epc": "0x98",
      "descriptions": {
        "ja": "現在日時",
        "en": "Current date and time"
      },
      "writable": true,
      "observable": false,
      "schema": {
        "type": "string",
        "format": "date-time"
      },
      "note": {
        "ja": "ECHONET Lite の プロパティ EPC: 0x97 と 0x98 を組み合わせて利用",
        "en": "This property utilizes both EPC: 0x97 and 0x98."
      }
    },
    "powerLimit": {
      "epc": "0x99",
      "descriptions": {
        "ja": "電力制限設定",
        "en": "Power limit setting"
      },
      "writable": true,
      "observable": false,
      "schema": {
        "type": "number",
        "unit": "W",
        "minimum": 0,
        "maximum": 65533
      }
    },
    "hourMeter": {
      "epc": "0x9A",
      "descriptions": {
        "ja": "積算運転時間",
        "en": "Cumulative operating time"
      },
      "writable": false,
      "observable": false,
      "schema": {
        "type": "object",
        "properties": {
          "unit": {
            "descriptions": {
              "ja": "積算運転時間",
              "en": "Cumulative operating time"
```


©2018-2022 ECHONET Consortium

```
            },
            "type": "string",
            "enum": [
              "second",
              "minute",
              "hour",
              "day"
            ],
            "values": [
              {
                "value": "second",
                "descriptions": {
                  "ja": "秒",
                  "en": "second"
                },
                "edt": "0x41"
              },
              {
                "value": "minute",
                "descriptions": {
                  "ja": "分",
                  "en": "minute"
                },
                "edt": "0x42"
              },
              {
                "value": "hour",
                "descriptions": {
                  "ja": "時",
                  "en": "hour"
                },
                "edt": "0x43"
              },
              {
                "value": "day",
                "descriptions": {
                  "ja": "日",
                  "en": "day"
                },
                "edt": "0x44"
              }
            ]
          },
          "time": {
            "descriptions": {
              "ja": "時間",
              "en": "time"
            },
            "type": "number",
            "minimum": 0,
            "maximum": 4294967295
          }
        }
      }
    }
  }
}
```

5. Device descriptions of each device

©2018-2022 ECHONET Consortium

The following describes Device Description for each device (based on the order of EOJ). When a Device Description is obtained via Web API, a Device Description for each device is returned. However, in fact, it is returned with the contents of the properties in the Device Description, by adding the various property resources (mandatory items and items included in the devices) in the properties in the common items described in the preceding section.

Supplementary explanation is provided for some devices. When implementing, refer to this information as a reference.

List of devices

Device Name	Device Type	EOJ	last updated	Supplementary explanation	Note
Emergency button	emergencyButton	0x0003	V1.4.0		
Human detection sensor	humanDetectionSensor	0x0007	V1.4.0		
Temperature sensor	temperatureSensor	0x0011	V1.3.0		
Humidity sensor	humiditySensor	0x0012	V1.4.0		
Bath heating status sensor	bathHeatingStatusSensor	0x0016	V1.4.0		
CO2 sensor	co2Sensor	0x001B	V1.4.0		
VOC sensor	vocSensor	0x001D	V1.4.0		
Electric energy sensor	electricEnergySensor	0x0022	V1.3.0		
Current sensor	currentSensor	0x0023	V1.4.0		
Illuminance sensor	illuminanceSensor	0x00D0	V1.4.0		
Home air conditioner	homeAirConditioner	0x0130	V1.4.1		*1
Ventilation fan	ventilationFan	0x0133	V1.3.0		
Air conditioner ventilation fan	airConditionerVentilationFan	0x0134	V1.4.0		
Air cleaner	airCleaner	0x0135	V1.3.0		
Package-type commercial air conditioner (indoor unit) (except those for facilities)	commercialAirConditionerIndoorUnit	0x0156	V1.4.1	✓	*1

©2018-2022 ECHONET Consortium

Device Name	Device Type	EOJ	last updated	Supplementary explanation	Note
Package-type commercial air conditioner (outdoor unit)	commercialAirConditionerOutdoorUnit	0x0157	V1.4.1	✓	*1
Electrically operated rain sliding door/shutter	electricRainDoor	0x0263	V1.3.0		
Electric water heater	electricWaterHeater	0x026B	V1.4.0		
Electric lock	electricLock	0x026F	V1.4.0		
Instantaneous water heater	instantaneousWaterHeater	0x0272	V1.4.1		*1
Bathroom heater dryer	bathroomHeaterDryer	0x0273	V1.3.0		
Household solar power generation	pvPowerGeneration	0x0279	V1.4.0		
Cold or hot water heat source equipment	coldOrHotWaterHeatSourceEquipment	0x027A	V1.4.1		*1
Floor heater	floorHeater	0x027B	V1.4.0	✓	
Fuel cell	fuelCell	0x027C	V1.4.0		
Storage battery	storageBattery	0x027D	V1.4.0	✓	
EV charger and discharger	evChargerDischarger	0x027E	V1.4.0	✓	
Watt-hour meter	wattHourMeter	0x0280	V1.4.0	✓	
Water flowmeter	waterFlowMeter	0x0281	V1.4.0		
Gas meter	gasMeter	0x0282	V1.4.0		
Power distribution board metering	powerDistributionBoardMetering	0x0287	V1.4.0	✓	
Low-voltage smart electric energy meter	lvSmartElectricEnergyMeter	0x0288	V1.4.0	✓	

©2018-2022 ECHONET Consortium

Device Name	Device Type	EOJ	last updated	Supplementary explanation	Note
High-voltage smart electric energy meter	hvSmartElectricEnergyMeter	0x028A	V1.4.0	✓	
Smart electric energy meter for sub-metering	smartElectricEnergySubMeter	0x028D	V1.4.0	✓	
General lighting	generalLighting	0x0290	V1.4.0		
Mono functional lighting	monoFunctionalLighting	0x0291	V1.4.0		
EV Charger	evCharger	0x02A1	V1.3.0	✓	
Lighting system	lightingSystem	0x02A3	V1.4.1		*1
Extended lighting system	enhancedLightingSystem	0x02A4	V1.4.1		*1
Hybrid water heater	hybridWaterHeater	0x02A6	V1.3.0		
Refrigerator	refrigerator	0x03B7	V1.4.0		
Cooking heater	cookingHeater	0x03B9	V1.4.0	✓	
Rice cooker	riceCooker	0x03BB	V1.3.0		
Commercial showcase	commercialShowcase	0x03CE	V1.4.0	✓	
Washer and dryer	washerDryer	0x03D3	V1.4.0	✓	
Commercial show case outdoor unit	commercialShowcaseOutdoorUnit	0x03D4	V1.3.0	✓	
Switch (supporting JEM-A/HA terminals)	switch	0x05FD	V1.4.0		
Controller	controller	0x05FF	V1.3.0	✓	
Television	tv	0x0602	V1.4.0		

*1 Supported in this version.

The following describes details of devices.

©2018-2022 ECHONET Consortium

Emergency button: emergencyButton: 0x0003

Back to the List of Devices

Properties

Property Resource Name	Access Method	Data Type	EPC (EL)	Property name (EL)	Note
occurrenceOfEmergency	GET	boolean	0xB1	Emergency occurrence status	

Actions

Property Resource Name	Access Method	EPC (EL)	Property name (EL)	Note
reset	POST	0xBF	Emergency occurrence status resetting	

Device Description


```
{
  "deviceType": "emergencyButton",
  "metaData": {
    "version": "1.4.0"
  },
  "eoj": "0x0003",
  "descriptions": {
    "ja": "非常ボタン",
    "en": "Emergency button"
  },
  "properties": {
    "occurrenceOfEmergency": {
      "epc": "0xB1",
      "descriptions": {
        "ja": "非常発生状態",
        "en": "Emergency occurrence status"
      },
      "writable": false,
      "observable": true,
      "schema": {
        "type": "boolean",
        "values": [
          {
            "value": true,
            "descriptions": {
              "ja": "有",
              "en": "YES"
            },
            "edt": "0x41"
          },
          {
            "value": false,
            "descriptions": {
              "ja": "無",
              "en": "NO"
            },
            "edt": "0x42"
```


©2018-2022 ECHONET Consortium

```
            }
          ]
        }
      }
    },
    "actions": {
      "reset": {
        "epc": "0xBF",
        "descriptions": {
          "ja": "非常発生状態リセット設定",
          "en": "Emergency occurrence status resetting"
        },
        "schema": {}
      }
    }
  }
```


©2018-2022 ECHONET Consortium

Human detection sensor: humanDetectionSensor: 0x0007

Back to the List of Devices

Properties

Property Resource Name	Access Method	Data Type	EPC (EL)	Property name (EL)	Note
thresholdLevel	GET, PUT	number	0xB0	Detection threshold level	
detection	GET	boolean	0xB1	Human detection status	

Device Description


```
{
  "deviceType": "humanDetectionSensor",
  "metaData": {
    "version": "1.4.0"
  },
  "eoj": "0x0007",
  "descriptions": {
    "ja": "人体検知センサ",
    "en": "Human detection sensor"
  },
  "properties": {
    "thresholdLevel": {
      "epc": "0xB0",
      "descriptions": {
        "ja": "検知閾値レベル設定",
        "en": "Detection threshold level"
      },
      "writable": true,
      "observable": false,
      "schema": {
        "type": "number",
        "minimum": 1,
        "maximum": 8,
        "multipleOf": 1
      }
    },
    "detection": {
      "epc": "0xB1",
      "descriptions": {
        "ja": "人体検知状態",
        "en": "Human detection status"
      },
      "writable": false,
      "observable": true,
      "schema": {
        "type": "boolean",
        "values": [
          {
            "value": true,
            "descriptions": {
              "ja": "検知有",
              "en": "Detected"
            },
            "edt": "0x41"
```


©2018-2022 ECHONET Consortium

```
            },
            {
              "value": false,
              "descriptions": {
                "ja": "検知無",
                "en": "Not detected"
              },
              "edt": "0x42"
            }
          ]
        }
      }
    }
  }
```


©2018-2022 ECHONET Consortium

Temperature sensor: temperatureSensor: 0x0011

Back to the List of Devices

Properties

Property Resource Name	Access Method	Data Type	EPC (EL)	Property name (EL)	Note
value	GET	number	0xE0	Measured temperature value	

Device Description

```
{
  "deviceType": "temperatureSensor",
  "metaData": {
    "version": "1.3.0"
  },
  "eoj": "0x0011",
  "descriptions": {
    "ja": "温度センサ",
    "en": "Temperature sensor"
  },
  "properties": {
    "value": {
      "epc": "0xE0",
      "descriptions": {
        "ja": "温度計測値",
        "en": "Measured temperature value"
      },
      "writable": false,
      "observable": false,
      "schema": {
        "type": "number",
        "unit": "Celsius",
        "minimum": -273.2,
        "maximum": 3276.6,
        "multipleOf": 0.1
      }
    }
  }
}
```


©2018-2022 ECHONET Consortium

Humidity sensor: humiditySensor: 0x0012

Back to the List of Devices

Properties

Property Resource Name	Access Method	Data Type	EPC (EL)	Property name (EL)	Note
value	GET	number	0xE0	Measured value of relative humidity	

Device Description

```
{
  "deviceType": "humiditySensor",
  "metaData": {
    "version": "1.4.0"
  },
  "eoj": "0x0012",
  "descriptions": {
    "ja": "湿度センサ",
    "en": "Humidity sensor"
  },
  "properties": {
    "value": {
      "epc": "0xE0",
      "descriptions": {
        "ja": "相対湿度計測値",
        "en": "Measured value of relative humidity"
      },
      "writable": false,
      "observable": false,
      "schema": {
        "type": "number",
        "unit": "%",
        "minimum": 0,
        "maximum": 100
      }
    }
  }
}
```


©2018-2022 ECHONET Consortium

Bath heating status sensor: bathHeatingStatusSensor: 0x0016

Back to the List of Devices

Properties

Property Resource Name	Access Method	Data Type	EPC (EL)	Property name (EL)	Note
thresholdLevel	GET, PUT	number	0xB0	Detection threshold level	
detection	GET	boolean	0xB1	Bath heating detection status	

Device Description

```
{
  "deviceType": "bathHeatingStatusSensor",
  "metaData": {
    "version": "1.4.0"
  },
  "eoj": "0x0016",
  "descriptions": {
    "ja": "風呂沸き上がりセンサ",
    "en": "Bath heating status sensor"
  },
  "properties": {
    "thresholdLevel": {
      "epc": "0xB0",
      "descriptions": {
        "ja": "検知閾値レベル設定",
        "en": "Detection threshold level"
      },
      "writable": true,
      "observable": false,
      "schema": {
        "type": "number",
        "minimum": 1,
        "maximum": 8,
        "multipleOf": 1
      }
    },
    "detection": {
      "epc": "0xB1",
      "descriptions": {
        "ja": "風呂沸き上がり検知状態",
        "en": "Bath heating detection status"
      },
      "writable": false,
      "observable": true,
      "schema": {
        "type": "boolean",
        "values": [
          {
            "value": true,
            "descriptions": {
              "ja": "検知有",
              "en": "Detected"
```


©2018-2022 ECHONET Consortium

```
            },
            "edt": "0x41"
          },
          {
            "value": false,
            "descriptions": {
              "ja": "検知無",
              "en": "Not detected"
            },
            "edt": "0x42"
          }
        ]
      }
    }
  }
}
```


©2018-2022 ECHONET Consortium

CO2 sensor: co2Sensor: 0x001B

Back to the List of Devices

Properties

Property Resource Name	Access Method	Data Type	EPC (EL)	Property name (EL)	Note
value	GET	number	0xE0	Measured value of CO2 concentration	

Device Description

```
{
  "deviceType": "co2Sensor",
  "metaData": {
    "version": "1.4.0"
  },
  "eoj": "0x001B",
  "descriptions": {
    "ja": "CO2センサ",
    "en": "CO2 sensor"
  },
  "properties": {
    "value": {
      "epc": "0xE0",
      "descriptions": {
        "ja": "CO2濃度計測値",
        "en": "Measured value of CO2 concentration"
      },
      "writable": false,
      "observable": false,
      "schema": {
        "type": "number",
        "unit": "ppm",
        "minimum": 0,
        "maximum": 65533
      }
    }
  }
}
```


©2018-2022 ECHONET Consortium

VOC sensor: vocSensor: 0x001D

Back to the List of Devices

Properties

Property Resource Name	Access Method	Data Type	EPC (EL)	Property name (EL)	Note
thresholdLevel	GET, PUT	number	0xB0	Detection threshold level	
detection	GET	boolean	0xB1	VOC detection status	
value	GET	number	0xE0	Measured value of VOC concentration	

Device Description

```
{
  "deviceType": "vocSensor",
  "metaData": {
    "version": "1.4.0"
  },
  "eoj": "0x001D",
  "descriptions": {
    "ja": "VOCセンサ",
    "en": "VOC sensor"
  },
  "properties": {
    "thresholdLevel": {
      "epc": "0xB0",
      "descriptions": {
        "ja": "検知閾値レベル設定",
        "en": "Detection threshold level"
      },
      "writable": true,
      "observable": false,
      "schema": {
        "type": "number",
        "minimum": 1,
        "maximum": 8,
        "multipleOf": 1
      }
    },
    "detection": {
      "epc": "0xB1",
      "descriptions": {
        "ja": "VOC 検知状態",
        "en": "VOC detection status"
      },
      "writable": false,
      "observable": true,
      "schema": {
        "type": "boolean",
        "values": [
          {
            "value": true,
```


©2018-2022 ECHONET Consortium

```
              "descriptions": {
                "ja": "検知有",
                "en": "Detected"
              },
              "edt": "0x41"
            },
            {
              "value": false,
              "descriptions": {
                "ja": "検知無",
                "en": "Not detected"
              },
              "edt": "0x42"
            }
          ]
        }
      },
      "value": {
        "epc": "0xE0",
        "descriptions": {
          "ja": "VOC 濃度計測値",
          "en": "Measured value of VOC concentration"
        },
        "writable": false,
        "observable": false,
        "schema": {
          "type": "number",
          "unit": "ppm",
          "minimum": 0,
          "maximum": 65533
        }
      }
    }
  }
```


©2018-2022 ECHONET Consortium

Electric energy sensor: electricEnergySensor: 0x0022

Back to the List of Devices

Properties

Property Resource Name	Access Method	Data Type	EPC (EL)	Property name (EL)	Note
cumulativeElectricEnergy	GET	number	0xE0	Cumulative amounts of electric energy	
mediumCapacitySensorValue	GET	number	0xE1	Medium-capacity sensor instantaneous electric energy	
smallCapacitySensorValue	GET	number	0xE2	Small-capacity sensor instantaneous electric energy	
largeCapacitySensorValue	GET	number	0xE3	Large-capacity sensor instantaneous electric energy	
log	GET	array	0xE4	Cumulative amounts of electric energy measurement log	
effectiveVoltageValue	GET	number	0xE5	Effective voltage value	

Device Description

```
{
  "deviceType": "electricEnergySensor",
  "metaData": {
    "version": "1.3.0"
  },
  "eoj": "0x0022",
  "descriptions": {
    "ja": "電力量センサ",
    "en": "Electric energy sensor"
  },
  "properties": {
    "cumulativeElectricEnergy": {
      "epc": "0xE0",
      "descriptions": {
        "ja": "積算電力量計測値",
        "en": "Cumulative amounts of electric energy"
      },
      "writable": false,
      "observable": false,
      "schema": {
        "type": "number",
        "unit": "kWh",
        "minimum": 0,
        "maximum": 999999.999,
        "multipleOf": 0.001
      },
      "note": {
        "ja": "オーバーフロー時は0にリセット",
```


©2018-2022 ECHONET Consortium

```
          "en": "The value is reset to 0 after overflow."
        }
      },
      "mediumCapacitySensorValue": {
        "epc": "0xE1",
        "descriptions": {
          "ja": "中容量センサ瞬時電力値計測値",
          "en": "Medium-capacity sensor instantaneous electric energy"
        },
        "writable": false,
        "observable": false,
        "schema": {
          "type": "number",
          "unit": "W",
          "minimum": -999999999,
          "maximum": 999999999
        }
      },
      "smallCapacitySensorValue": {
        "epc": "0xE2",
        "descriptions": {
          "ja": "小容量センサ瞬時電力値計測値",
          "en": "Small-capacity sensor instantaneous electric energy"
        },
        "writable": false,
        "observable": false,
        "schema": {
          "type": "number",
          "unit": "W",
          "minimum": -3276.7,
          "maximum": 3276.6,
          "multipleOf": 0.1
        }
      },
      "largeCapacitySensorValue": {
        "epc": "0xE3",
        "descriptions": {
          "ja": "大容量センサ瞬時電力値計測値",
          "en": "Large-capacity sensor instantaneous electric energy"
        },
        "writable": false,
        "observable": false,
        "schema": {
          "type": "number",
          "unit": "kW",
          "minimum": -3276.7,
          "maximum": 3276.6,
          "multipleOf": 0.1
        }
      },
      "log": {
        "epc": "0xE4",
        "descriptions": {
          "ja": "積算電力量計測履歴情報",
          "en": "Cumulative amounts of electric energy measurement log"
        },
        "writable": false,
        "observable": false,
        "schema": {
          "type": "array",
          "minItems": 48,
```


©2018-2022 ECHONET Consortium

```
          "maxItems": 48,
          "items": {
            "oneOf": [
              {
                "type": "number",
                "unit": "kWh",
                "minimum": 0,
                "maximum": 999999.999,
                "multipleOf": 0.001
              },
              {
                "type": "string",
                "enum": [
                  "noData"
                ],
                "values": [
                  {
                    "value": "noData",
                    "descriptions": {
                      "ja": "未計測",
                      "en": "Not measured"
                    },
                    "edt": "0xFFFFFFFE"
                  }
                ]
              }
            ]
          }
        },
        "note": {
          "ja": "積算電力量(0.001kWh)の計測結果履歴を、30分毎データを過去24時間で示す",
          "en": "This property indicates measurement result log of cumulative amounts of
electric energy (0.001kWh) fir the past 24 hours in 30-minute sections."
        }
      },
      "effectiveVoltageValue": {
        "epc": "0xE5",
        "descriptions": {
          "ja": "実効電圧値計測値",
          "en": "Effective voltage value"
        },
        "writable": false,
        "observable": false,
        "schema": {
          "type": "number",
          "unit": "V",
          "minimum": 0,
          "maximum": 65533
        },
        "note": {
          "ja": "実行電圧値をVで示す。本プロパティは、計測定格電圧値として固定値で実装してもよい",
          "en": "This property indicates effective voltage value in volts. This property may be
implemeented as a fixed value of the rated voltage of measurement."
        }
      }
    }
  }
```


©2018-2022 ECHONET Consortium

Current sensor: currentSensor: 0x0023

Back to the List of Devices

Properties

Property Resource Name	Access Method	Data Type	EPC (EL)	Property name (EL)	Note
unsignedValue	GET	number	0xE0	Measured current value 1	
ratedVoltage	GET	number	0xE1	Rated voltage to be measured	
signedValue	GET	number	0xE2	Measured current value 2	

Device Description

```
{
  "deviceType": "currentSensor",
  "metaData": {
    "version": "1.4.0"
  },
  "eoj": "0x0023",
  "descriptions": {
    "ja": "電流センサ",
    "en": "Current sensor"
  },
  "properties": {
    "unsignedValue": {
      "epc": "0xE0",
      "descriptions": {
        "ja": "電流値計測値1",
        "en": "Measured current value 1"
      },
      "writable": false,
      "observable": false,
      "schema": {
        "type": "number",
        "unit": "mA",
        "minimum": 0,
        "maximum": 4294967293
      }
    },
    "ratedVoltage": {
      "epc": "0xE1",
      "descriptions": {
        "ja": "計測対象定格電圧値",
        "en": "Rated voltage to be measured"
      },
      "writable": false,
      "observable": false,
      "schema": {
        "type": "number",
        "unit": "V",
        "minimum": 0,
        "maximum": 65533
```


©2018-2022 ECHONET Consortium

```
        },
        "note": {
          "ja": "本プロパティは、固定値として実装してもよい",
          "en": "This property may be implemented as a fixed value."
        }
      },
      "signedValue": {
        "epc": "0xE2",
        "descriptions": {
          "ja": "電流値計測値2",
          "en": "Measured current value 2"
        },
        "writable": false,
        "observable": false,
        "schema": {
          "type": "number",
          "unit": "mA",
          "minimum": -2147483647,
          "maximum": 2147483646
        }
      }
    }
  }
```


©2018-2022 ECHONET Consortium

Illuminance sensor: illuminanceSensor: 0x00D0

Back to the List of Devices

Properties

Property Resource Name	Access Method	Data Type	EPC (EL)	Property name (EL)	Note
valueInLux	GET	number	0xE0	Measured illuminance value 1	
valueInKlux	GET	number	0xE1	Measured illuminance value 2	

Device Description


```
{
  "deviceType": "illuminanceSensor",
  "metaData": {
    "version": "1.4.0"
  },
  "eoj": "0x00D0",
  "descriptions": {
    "ja": "照度センサ",
    "en": "Illuminance sensor"
  },
  "properties": {
    "valueInLux": {
      "epc": "0xE0",
      "descriptions": {
        "ja": "照度計測値1",
        "en": "Measured illuminance value 1"
      },
      "writable": false,
      "observable": false,
      "schema": {
        "type": "number",
        "unit": "lux",
        "minimum": 0,
        "maximum": 65533
      }
    },
    "valueInKlux": {
      "epc": "0xE1",
      "descriptions": {
        "ja": "照度計測値2",
        "en": "Measured illuminance value 2"
      },
      "writable": false,
      "observable": false,
      "schema": {
        "type": "number",
        "unit": "klux",
        "minimum": 0,
        "maximum": 65533
      }
```


©2018-2022 ECHONET Consortium

```
      }
    }
  }
```


©2018-2022 ECHONET Consortium

Home air conditioner: homeAirConditioner: 0x0130

Back to the List of Devices

Properties

Property Resource Name	Access Method	Data Type	EPC (EL)	Property name (EL)	Note
onTimerReservation	GET, PUT	object	0x90	ON timer-based reservation setting	
timeOfOnTimer	GET, PUT	string	0x91	ON timer setting (time)	
relativeTimeOfOnTimer	GET, PUT	number	0x92	ON timer setting (relative time)	
offTimerReservation	GET, PUT	object	0x94	OFF timer-based reservation setting	
timeOfOffTimer	GET, PUT	string	0x95	OFF timer setting (time)	
relativeTimeOfOffTimer	GET, PUT	number	0x96	OFF timer setting (relative time)	
airFlowLevel	GET, PUT	number, string	0xA0	Air flow rate setting	
automaticControlAirFlowDirection	GET, PUT	string	0xA1	Automatic control of air flow direction setting	
automaticSwingAirFlow	GET, PUT	string	0xA3	Automatic swing of air flow setting	
airFlowDirectionVertical	GET, PUT	string	0xA4	Air flow direction (vertical) setting	
airFlowDirectionHorizontal	GET, PUT	string	0xA5	Air flow direction (horizontal) setting	
specialState	GET	string	0xAA	Special state	
nonPriorityState	GET	boolean	0xAB	Non-priority state	
operationMode	GET, PUT	string	0xB0	Operation mode setting	
automaticTemperatureControl	GET, PUT	boolean	0xB1	Automatic temperature control setting	
highspeedOperation	GET, PUT	string	0xB2	Normal/highspeed/silent operation setting	
targetTemperature	GET, PUT	number, string	0xB3	Set temperature value	

©2018-2022 ECHONET Consortium

Property Resource Name	Access Method	Data Type	EPC (EL)	Property name (EL)	Note
relativeHumidityDehumidifying	GET, PUT	number	0xB4	Set value of relative humidity in dehumidifying mode	
targetTemperatureCooling	GET, PUT	number, string	0xB5	Set temperature value in cooling mode	
targetTemperatureHeating	GET, PUT	number, string	0xB6	Set temperature value in heating mode	
targetTemperatureDehumidifying	GET, PUT	number, string	0xB7	Set temperature value in dehumidifying mode	
ratedPowerConsumption	GET	object	0xB8	Rated power consumption	
currentConsumption	GET	number	0xB9	Measured value of current consumption	
humidity	GET	number, string	0xBA	Measured value of room relative humidity	
roomTemperature	GET	number, string	0xBB	Measured value of room temperature	
temperatureUserRemoteControl	GET	number	0xBC	Set temperature value of user remote control	
airFlowTemperature	GET	number, string	0xBD	Measured cooled air temperature	
outdoorTemperature	GET	number, string	0xBE	Measured outdoor air temperature	
relativeTemperature	GET, PUT	number, string	0xBF	Relative temperature setting	
ventilationFunction	GET, PUT	string	0xC0	Ventilation function setting	
humidifierFunction	GET, PUT	string	0xC1	Humidifier function setting	
ventilationAirFlowLevel	GET, PUT	number, string	0xC2	Ventilation air flow rate setting	
humidificationLevel	GET, PUT	number, string	0xC4	Degree of humidification setting	
airCleaningMethod	GET	object	0xC6	Mounted air cleaning method	
airPurifierFunction	GET, PUT	object	0xC7	Air purifier function setting	
airRefreshMethod	GET	object	0xC8	Mounted air refresh method	

©2018-2022 ECHONET Consortium

Property Resource Name	Access Method	Data Type	EPC (EL)	Property name (EL)	Note
airRefresherFunction	GET, PUT	object	0xC9	Air refresher function setting	
selfCleaningMethod	GET	object	0xCA	Mounted self-cleaning method	
selfCleaningFunction	GET, PUT	object	0xCB	Self-cleaning function setting	
specialFunction	GET, PUT	string	0xCC	Special function setting	
componentsOperationStatus	GET	object	0xCD	Operation status of components	
thermostatOverride	GET, PUT	string	0xCE	Thermostat setting override function	
airPurification	GET, PUT	string	0xCF	Air purification mode setting	

Actions

Property Resource Name	Access Method	EPC (EL)	Property name (EL)	Note
beepBuzzer	POST	0xD0	Buzzer	

Device Description

```
{
  "deviceType": "homeAirConditioner",
  "metaData": {
    "version": "1.4.1"
  },
  "eoj": "0x0130",
  "descriptions": {
    "ja": "家庭用エアコン",
    "en": "Home air conditioner"
  },
  "properties": {
    "onTimerReservation": {
      "epc": "0x90",
      "descriptions": {
        "ja": "ONタイマ予約設定",
        "en": "ON timer-based reservation setting"
      },
      "writable": true,
      "observable": false,
      "schema": {
        "type": "object",
        "properties": {
          "timeBased": {
            "type": "boolean",
            "values": [
              {
                "value": true,
                "descriptions": {
                  "ja": "予約入",
                  "en": "Reservation ON"
                },
```


©2018-2022 ECHONET Consortium

```
                "edt": null
              },
              {
                "value": false,
                "descriptions": {
                  "ja": "予約切",
                  "en": "Reservation OFF"
                },
                "edt": null
              }
            ]
          },
          "relativeTimeBased": {
            "type": "boolean",
            "values": [
              {
                "value": true,
                "descriptions": {
                  "ja": "予約入",
                  "en": "Reservation ON"
                },
                "edt": null
              },
              {
                "value": false,
                "descriptions": {
                  "ja": "予約切",
                  "en": "Reservation OFF"
                },
                "edt": null
              }
            ]
          }
        }
      },
      "note": {
        "ja": "EDT: [{0x41:(時刻:ON,相対時間:ON)}, {0x42:(時刻:OFF,相対時間:OFF)}, {0x43:(時
刻:ON,相対時間:OFF)}, {0x44:(時刻:OFF,相対時間:ON)}]",
        "en": "EDT: [{0x41:(time:ON,relative time:ON)}, {0x42:(time:OFF,relative time:OFF)},
{0x43:(time:ON,relative time:OFF)}, {0x44:(time:OFF,relative time:ON)}]"
      }
    },
    "timeOfOnTimer": {
      "epc": "0x91",
      "descriptions": {
        "ja": "ONタイマ時刻設定値",
        "en": "ON timer setting (time)"
      },
      "writable": true,
      "observable": false,
      "schema": {
        "type": "string",
        "format": "time"
      },
      "note": {
        "ja": "秒の指定は無視される",
        "en": "Number of seconds is ignored."
      }
    },
    "relativeTimeOfOnTimer": {
      "epc": "0x92",
```


©2018-2022 ECHONET Consortium

```
        "descriptions": {
          "ja": "ONタイマ相対時間設定値",
          "en": "ON timer setting (relative time)"
        },
        "writable": true,
        "observable": false,
        "schema": {
          "type": "number",
          "unit": "minute",
          "minimum": 0,
          "maximum": 15359,
          "multipleOf": 1
        }
      },
      "offTimerReservation": {
        "epc": "0x94",
        "descriptions": {
          "ja": "OFFタイマ予約設定",
          "en": "OFF timer-based reservation setting"
        },
        "writable": true,
        "observable": false,
        "schema": {
          "type": "object",
          "properties": {
            "timeBased": {
              "type": "boolean",
              "values": [
                {
                  "value": true,
                  "descriptions": {
                    "ja": "予約入",
                    "en": "Reservation ON"
                  },
                  "edt": null
                },
                {
                  "value": false,
                  "descriptions": {
                    "ja": "予約切",
                    "en": "Reservation OFF"
                  },
                  "edt": null
                }
              ]
            },
            "relativeTimeBased": {
              "type": "boolean",
              "values": [
                {
                  "value": true,
                  "descriptions": {
                    "ja": "予約入",
                    "en": "Reservation ON"
                  },
                  "edt": null
                },
                {
                  "value": false,
                  "descriptions": {
                    "ja": "予約切",
```


©2018-2022 ECHONET Consortium

```
                    "en": "Reservation OFF"
                  },
                  "edt": null
                }
              ]
            }
          }
        },
        "note": {
          "ja": "EDT: [{0x41:(時刻:ON,相対時間:ON)}, {0x42:(時刻:OFF,相対時間:OFF)}, {0x43:(時刻:ON,相対時間:OFF)}, {0x44:(時刻:OFF,相対時間:ON)}]",
          "en": "EDT: [{0x41:(time:ON,relative time:ON)}, {0x42:(time:OFF,relative time:OFF)}, {0x43:(time:ON,relative time:OFF)}, {0x44:(time:OFF,relative time:ON)}]"
        }
      },
      "timeOfOffTimer": {
        "epc": "0x95",
        "descriptions": {
          "ja": "OFFタイマ時刻設定値",
          "en": "OFF timer setting (time)"
        },
        "writable": true,
        "observable": false,
        "schema": {
          "type": "string",
          "format": "time"
        },
        "note": {
          "ja": "秒の指定は無視される",
          "en": "Number of seconds is ignored."
        }
      },
      "relativeTimeOfOffTimer": {
        "epc": "0x96",
        "descriptions": {
          "ja": "OFFタイマ相対時間設定値",
          "en": "OFF timer setting (relative time)"
        },
        "writable": true,
        "observable": false,
        "schema": {
          "type": "number",
          "unit": "minute",
          "minimum": 0,
          "maximum": 15359,
          "multipleOf": 1
        }
      },
      "airFlowLevel": {
        "epc": "0xA0",
        "descriptions": {
          "ja": "風量設定",
          "en": "Air flow rate setting"
        },
        "writable": true,
        "observable": true,
        "schema": {
          "oneOf": [
            {
              "type": "number",
              "minimum": 1,
```


©2018-2022 ECHONET Consortium

```
              "maximum": 8,
              "multipleOf": 1
            },
            {
              "type": "string",
              "enum": [
                "auto"
              ],
              "values": [
                {
                  "value": "auto",
                  "descriptions": {
                    "ja": "風量自動設定",
                    "en": "Automatic air flow rate control function used."
                  },
                  "edt": "0x41"
                }
              ]
            }
          ]
        }
      },
      "automaticControlAirFlowDirection": {
        "epc": "0xA1",
        "descriptions": {
          "ja": "風向自動設定",
          "en": "Automatic control of air flow direction setting"
        },
        "writable": true,
        "observable": false,
        "schema": {
          "type": "string",
          "enum": [
            "auto",
            "nonAuto",
            "autoVertical",
            "autoHorizontal"
          ],
          "values": [
            {
              "value": "auto",
              "descriptions": {
                "ja": "AUTO",
                "en": "Automatic"
              },
              "edt": "0x41"
            },
            {
              "value": "nonAuto",
              "descriptions": {
                "ja": "非AUTO",
                "en": "Non-automatic"
              },
              "edt": "0x42"
            },
            {
              "value": "autoVertical",
              "descriptions": {
                "ja": "上下AUTO",
                "en": "Automatic (vertical)"
              },
```


©2018-2022 ECHONET Consortium

```
            "edt": "0x43"
          },
          {
            "value": "autoHorizontal",
            "descriptions": {
              "ja": "左右AUTO",
              "en": "Automatic (horizontal)"
            },
            "edt": "0x44"
          }
        ]
      }
    },
    "automaticSwingAirFlow": {
      "epc": "0xA3",
      "descriptions": {
        "ja": "風向スイング設定",
        "en": "Automatic swing of air flow setting"
      },
      "writable": true,
      "observable": false,
      "schema": {
        "type": "string",
        "enum": [
          "off",
          "vertical",
          "horizontal",
          "verticalAndHorizontal"
        ],
        "values": [
          {
            "value": "off",
            "descriptions": {
              "ja": "OFF",
              "en": "OFF"
            },
            "edt": "0x31"
          },
          {
            "value": "vertical",
            "descriptions": {
              "ja": "上下",
              "en": "Vertical"
            },
            "edt": "0x41"
          },
          {
            "value": "horizontal",
            "descriptions": {
              "ja": "左右",
              "en": "Horizontal"
            },
            "edt": "0x42"
          },
          {
            "value": "verticalAndHorizontal",
            "descriptions": {
              "ja": "上下左右",
              "en": "Vertical and Horizontal"
            },
            "edt": "0x43"
```


©2018-2022 ECHONET Consortium

```
            }
          ]
        }
      },
      "airFlowDirectionVertical": {
        "epc": "0xA4",
        "descriptions": {
          "ja": "風向上下設定",
          "en": "Air flow direction (vertical) setting"
        },
        "writable": true,
        "observable": false,
        "schema": {
          "type": "string",
          "enum": [
            "uppermost",
            "lowermost",
            "central",
            "upperCenter",
            "lowerCenter"
          ],
          "values": [
            {
              "value": "uppermost",
              "descriptions": {
                "ja": "上",
                "en": "Uppermost"
              },
              "edt": "0x41"
            },
            {
              "value": "lowermost",
              "descriptions": {
                "ja": "下",
                "en": "Lowermost"
              },
              "edt": "0x42"
            },
            {
              "value": "central",
              "descriptions": {
                "ja": "中央",
                "en": "Central"
              },
              "edt": "0x43"
            },
            {
              "value": "upperCenter",
              "descriptions": {
                "ja": "上中",
                "en": "Midpoint between uppermost and central"
              },
              "edt": "0x44"
            },
            {
              "value": "lowerCenter",
              "descriptions": {
                "ja": "下中",
                "en": "Midpoint between lowermost and central"
              },
              "edt": "0x45"
```


©2018-2022 ECHONET Consortium

```
            }
          ]
        }
      },
      "airFlowDirectionHorizontal": {
        "epc": "0xA5",
        "descriptions": {
          "ja": "風向左右設定",
          "en": "Air flow direction (horizontal) setting"
        },
        "writable": true,
        "observable": false,
        "schema": {
          "type": "string",
          "enum": [
            "rc_r",
            "l_lc",
            "lc_c_rc",
            "l_lc_rc_r",
            "r",
            "rc",
            "c",
            "c_r",
            "c_rc",
            "c_rc_r",
            "lc",
            "lc_r",
            "lc_rc",
            "lc_rc_r",
            "lc_c",
            "lc_c_r",
            "lc_c_rc_r",
            "l",
            "l_r",
            "l_rc",
            "l_rc_r",
            "l_c",
            "l_c_r",
            "l_c_rc",
            "l_c_rc_r",
            "l_lc_r",
            "l_lc_rc",
            "l_lc_c",
            "l_lc_c_r",
            "l_lc_c_rc",
            "l_lc_c_rc_r"
          ],
          "values": [
            {
              "value": "rc_r",
              "descriptions": {
                "ja": "右中･右",
                "en": "Right center and Right"
              },
              "edt": "0x41"
            },
            {
              "value": "l_lc",
              "descriptions": {
                "ja": "左･左中",
                "en": "Left and Left center"
```


©2018-2022 ECHONET Consortium

```
            },
            "edt": "0x42"
          },
          {
            "value": "lc_c_rc",
            "descriptions": {
              "ja": "左中･中･右中",
              "en": "Left center, Center and Right center"
            },
            "edt": "0x43"
          },
          {
            "value": "l_lc_rc_r",
            "descriptions": {
              "ja": "左･左中･右中･右",
              "en": "Left, Left center, Right center and Right"
            },
            "edt": "0x44"
          },
          {
            "value": "r",
            "descriptions": {
              "ja": "右",
              "en": "Right"
            },
            "edt": "0x51"
          },
          {
            "value": "rc",
            "descriptions": {
              "ja": "右中",
              "en": "Right center"
            },
            "edt": "0x52"
          },
          {
            "value": "c",
            "descriptions": {
              "ja": "中",
              "en": "Center"
            },
            "edt": "0x54"
          },
          {
            "value": "c_r",
            "descriptions": {
              "ja": "中･右",
              "en": "Center and right"
            },
            "edt": "0x55"
          },
          {
            "value": "c_rc",
            "descriptions": {
              "ja": "中･右中",
              "en": "Center and Right center"
            },
            "edt": "0x56"
          },
          {
            "value": "c_rc_r",
```


©2018-2022 ECHONET Consortium

```
            "descriptions": {
              "ja": "中･右中･右",
              "en": "Center, Right center and Right"
            },
            "edt": "0x57"
          },
          {
            "value": "lc",
            "descriptions": {
              "ja": "左中",
              "en": "Left center"
            },
            "edt": "0x58"
          },
          {
            "value": "lc_r",
            "descriptions": {
              "ja": "左中･右",
              "en": "Left center and Right"
            },
            "edt": "0x59"
          },
          {
            "value": "lc_rc",
            "descriptions": {
              "ja": "左中･右中",
              "en": "Left center and Right center"
            },
            "edt": "0x5A"
          },
          {
            "value": "lc_rc_r",
            "descriptions": {
              "ja": "左中･右中･右",
              "en": "Left center, Right center and Right"
            },
            "edt": "0x5B"
          },
          {
            "value": "lc_c",
            "descriptions": {
              "ja": "左中･中",
              "en": "Left center and Center"
            },
            "edt": "0x5C"
          },
          {
            "value": "lc_c_r",
            "descriptions": {
              "ja": "左中･中･右",
              "en": "Left center, Center and Right"
            },
            "edt": "0x5D"
          },
          {
            "value": "lc_c_rc_r",
            "descriptions": {
              "ja": "左中･中･右中･右",
              "en": "Left center, Center, Right center and Right"
            },
            "edt": "0x5F"
```


©2018-2022 ECHONET Consortium

```
            },
            {
              "value": "l",
              "descriptions": {
                "ja": "左",
                "en": "Left"
              },
              "edt": "0x60"
            },
            {
              "value": "l_r",
              "descriptions": {
                "ja": "左･右",
                "en": "Left and Right"
              },
              "edt": "0x61"
            },
            {
              "value": "l_rc",
              "descriptions": {
                "ja": "左･右中",
                "en": "Left and Right center"
              },
              "edt": "0x62"
            },
            {
              "value": "l_rc_r",
              "descriptions": {
                "ja": "左･右中･右",
                "en": "Left, Right center and Right"
              },
              "edt": "0x63"
            },
            {
              "value": "l_c",
              "descriptions": {
                "ja": "左･中",
                "en": "Left and Center"
              },
              "edt": "0x64"
            },
            {
              "value": "l_c_r",
              "descriptions": {
                "ja": "左･中･右",
                "en": "Left, Center and Right"
              },
              "edt": "0x65"
            },
            {
              "value": "l_c_rc",
              "descriptions": {
                "ja": "左･中･右中",
                "en": "Left, Center and Right center"
              },
              "edt": "0x66"
            },
            {
              "value": "l_c_rc_r",
              "descriptions": {
                "ja": "左･中･右中･右",
```


©2018-2022 ECHONET Consortium

```
                "en": "Left, Center, Right center and Right"
              },
              "edt": "0x67"
            },
            {
              "value": "l_lc_r",
              "descriptions": {
                "ja": "左･左中･右",
                "en": "Left, Left center and Right"
              },
              "edt": "0x69"
            },
            {
              "value": "l_lc_rc",
              "descriptions": {
                "ja": "左･左中･右中",
                "en": "Left, Left center and Right center"
              },
              "edt": "0x6A"
            },
            {
              "value": "l_lc_c",
              "descriptions": {
                "ja": "左･左中･中",
                "en": "Left, Left center and center"
              },
              "edt": "0x6C"
            },
            {
              "value": "l_lc_c_r",
              "descriptions": {
                "ja": "左･左中･中･右",
                "en": "Left, Left center, Center and Right"
              },
              "edt": "0x6D"
            },
            {
              "value": "l_lc_c_rc",
              "descriptions": {
                "ja": "左･左中･中･右中",
                "en": "Left, Left center, Center and Right center"
              },
              "edt": "0x6E"
            },
            {
              "value": "l_lc_c_rc_r",
              "descriptions": {
                "ja": "左･左中･中･右中･右",
                "en": "Left, Left center, Center, Right center and Right"
              },
              "edt": "0x6F"
            }
          ]
        }
      },
      "specialState": {
        "epc": "0xAA",
        "descriptions": {
          "ja": "特殊状態",
          "en": "Special state"
        },
```


©2018-2022 ECHONET Consortium

```
        "writable": false,
        "observable": false,
        "schema": {
          "type": "string",
          "enum": [
            "normal",
            "defrosting",
            "preheating",
            "heatRemoval"
          ],
          "values": [
            {
              "value": "normal",
              "descriptions": {
                "ja": "通常状態",
                "en": "Normal operation"
              },
              "edt": "0x40"
            },
            {
              "value": "defrosting",
              "descriptions": {
                "ja": "除霜状態",
                "en": "Defrosting"
              },
              "edt": "0x41"
            },
            {
              "value": "preheating",
              "descriptions": {
                "ja": "予熱状態",
                "en": "Preheating"
              },
              "edt": "0x42"
            },
            {
              "value": "heatRemoval",
              "descriptions": {
                "ja": "排熱状態",
                "en": "Heat removal"
              },
              "edt": "0x43"
            }
          ]
        }
      },
      "nonPriorityState": {
        "epc": "0xAB",
        "descriptions": {
          "ja": "非優先状態",
          "en": "Non-priority state"
        },
        "writable": false,
        "observable": false,
        "schema": {
          "type": "boolean",
          "values": [
            {
              "value": false,
              "descriptions": {
                "ja": "通常状態",
```


©2018-2022 ECHONET Consortium

```
                "en": "Normal"
              },
              "edt": "0x40"
            },
            {
              "value": true,
              "descriptions": {
                "ja": "非優先状態",
                "en": "Non-priority"
              },
              "edt": "0x41"
            }
          ]
        }
      },
      "operationMode": {
        "epc": "0xB0",
        "descriptions": {
          "ja": "運転モード設定",
          "en": "Operation mode setting"
        },
        "writable": true,
        "observable": true,
        "schema": {
          "type": "string",
          "enum": [
            "auto",
            "cooling",
            "heating",
            "dehumidification",
            "circulation",
            "other"
          ],
          "values": [
            {
              "value": "auto",
              "descriptions": {
                "ja": "自動",
                "en": "Automatic"
              },
              "edt": "0x41"
            },
            {
              "value": "cooling",
              "descriptions": {
                "ja": "冷房",
                "en": "Cooling"
              },
              "edt": "0x42"
            },
            {
              "value": "heating",
              "descriptions": {
                "ja": "暖房",
                "en": "Heating"
              },
              "edt": "0x43"
            },
            {
              "value": "dehumidification",
              "descriptions": {
```


©2018-2022 ECHONET Consortium

```
                "ja": "除湿",
                "en": "Dehumidification"
              },
              "edt": "0x44"
            },
            {
              "value": "circulation",
              "descriptions": {
                "ja": "送風",
                "en": "Air circulation"
              },
              "edt": "0x45"
            },
            {
              "value": "other",
              "descriptions": {
                "ja": "その他",
                "en": "Other"
              },
              "edt": "0x40"
            }
          ]
        }
      },
      "automaticTemperatureControl": {
        "epc": "0xB1",
        "descriptions": {
          "ja": "温度自動設定",
          "en": "Automatic temperature control setting"
        },
        "writable": true,
        "observable": false,
        "schema": {
          "type": "boolean",
          "values": [
            {
              "value": true,
              "descriptions": {
                "ja": "AUTO",
                "en": "Automatic"
              },
              "edt": "0x41"
            },
            {
              "value": false,
              "descriptions": {
                "ja": "非AUTO",
                "en": "Non-automatic"
              },
              "edt": "0x42"
            }
          ]
        }
      },
      "highspeedOperation": {
        "epc": "0xB2",
        "descriptions": {
          "ja": "急速動作モード設定",
          "en": "Normal/highspeed/silent operation setting"
        },
        "writable": true,
```


©2018-2022 ECHONET Consortium

```
        "observable": false,
        "schema": {
          "type": "string",
          "enum": [
            "normal",
            "highspeed",
            "silent"
          ],
          "values": [
            {
              "value": "normal",
              "descriptions": {
                "ja": "通常運転",
                "en": "Normal operation"
              },
              "edt": "0x41"
            },
            {
              "value": "highspeed",
              "descriptions": {
                "ja": "急速",
                "en": "High-speed operation"
              },
              "edt": "0x42"
            },
            {
              "value": "silent",
              "descriptions": {
                "ja": "静音",
                "en": "Silent operation"
              },
              "edt": "0x43"
            }
          ]
        }
      },
      "targetTemperature": {
        "epc": "0xB3",
        "descriptions": {
          "ja": "温度設定値",
          "en": "Set temperature value"
        },
        "writable": true,
        "observable": false,
        "schema": {
          "oneOf": [
            {
              "type": "number",
              "unit": "Celsius",
              "minimum": 0,
              "maximum": 50
            },
            {
              "type": "string",
              "enum": [
                "undefined"
              ],
              "values": [
                {
                  "value": "undefined",
                  "descriptions": {
```


©2018-2022 ECHONET Consortium

```
                    "ja": "不明",
                    "en": "Undefined"
                  },
                  "edt": "0xFD"
                }
              ]
            }
          ]
        }
      },
      "relativeHumidityDehumidifying": {
        "epc": "0xB4",
        "descriptions": {
          "ja": "除湿モード時相対湿度設定値",
          "en": "Set value of relative humidity in dehumidifying mode"
        },
        "writable": true,
        "observable": false,
        "schema": {
          "type": "number",
          "unit": "%",
          "minimum": 0,
          "maximum": 100
        }
      },
      "targetTemperatureCooling": {
        "epc": "0xB5",
        "descriptions": {
          "ja": "冷房モード時温度設定値",
          "en": "Set temperature value in cooling mode"
        },
        "writable": true,
        "observable": false,
        "schema": {
          "oneOf": [
            {
              "type": "number",
              "unit": "Celsius",
              "minimum": 0,
              "maximum": 50
            },
            {
              "type": "string",
              "enum": [
                "undefined"
              ],
              "values": [
                {
                  "value": "undefined",
                  "descriptions": {
                    "ja": "不明",
                    "en": "Undefined"
                  },
                  "edt": "0xFD"
                }
              ]
            }
          ]
        }
      },
      "targetTemperatureHeating": {
```


©2018-2022 ECHONET Consortium

```
        "epc": "0xB6",
        "descriptions": {
          "ja": "暖房モード時温度設定値",
          "en": "Set temperature value in heating mode"
        },
        "writable": true,
        "observable": false,
        "schema": {
          "oneOf": [
            {
              "type": "number",
              "unit": "Celsius",
              "minimum": 0,
              "maximum": 50
            },
            {
              "type": "string",
              "enum": [
                "undefined"
              ],
              "values": [
                {
                  "value": "undefined",
                  "descriptions": {
                    "ja": "不明",
                    "en": "Undefined"
                  },
                  "edt": "0xFD"
                }
              ]
            }
          ]
        }
      },
      "targetTemperatureDehumidifying": {
        "epc": "0xB7",
        "descriptions": {
          "ja": "除湿モード時温度設定値",
          "en": "Set temperature value in dehumidifying mode"
        },
        "writable": true,
        "observable": false,
        "schema": {
          "oneOf": [
            {
              "type": "number",
              "unit": "Celsius",
              "minimum": 0,
              "maximum": 50
            },
            {
              "type": "string",
              "enum": [
                "undefined"
              ],
              "values": [
                {
                  "value": "undefined",
                  "descriptions": {
                    "ja": "不明",
                    "en": "Undefined"
```


©2018-2022 ECHONET Consortium

```
                  },
                  "edt": "0xFD"
                }
              ]
            }
          ]
        }
      },
      "ratedPowerConsumption": {
        "epc": "0xB8",
        "descriptions": {
          "ja": "定格消費電力値",
          "en": "Rated power consumption"
        },
        "writable": false,
        "observable": false,
        "schema": {
          "type": "object",
          "properties": {
            "cooling": {
              "descriptions": {
                "ja": "冷房",
                "en": "Cooling"
              },
              "oneOf": [
                {
                  "type": "number",
                  "unit": "W",
                  "minimum": 0,
                  "maximum": 65533
                },
                {
                  "type": "string",
                  "enum": [
                    "unsupported"
                  ],
                  "values": [
                    {
                      "value": "unsupported",
                      "descriptions": {
                        "ja": "未サポート",
                        "en": "Unsupported"
                      },
                      "edt": "0xFFFE"
                    }
                  ]
                }
              ]
            },
            "heating": {
              "descriptions": {
                "ja": "暖房",
                "en": "Heating"
              },
              "oneOf": [
                {
                  "type": "number",
                  "unit": "W",
                  "minimum": 0,
                  "maximum": 65533
                },
```


©2018-2022 ECHONET Consortium

```
                {
                  "type": "string",
                  "enum": [
                    "unsupported"
                  ],
                  "values": [
                    {
                      "value": "unsupported",
                      "descriptions": {
                        "ja": "未サポート",
                        "en": "Unsupported"
                      },
                      "edt": "0xFFFE"
                    }
                  ]
                }
              ]
            },
            "dehumidifying": {
              "descriptions": {
                "ja": "除湿",
                "en": "Dehumidifying"
              },
              "oneOf": [
                {
                  "type": "number",
                  "unit": "W",
                  "minimum": 0,
                  "maximum": 65533
                },
                {
                  "type": "string",
                  "enum": [
                    "unsupported"
                  ],
                  "values": [
                    {
                      "value": "unsupported",
                      "descriptions": {
                        "ja": "未サポート",
                        "en": "Unsupported"
                      },
                      "edt": "0xFFFE"
                    }
                  ]
                }
              ]
            },
            "circulation": {
              "descriptions": {
                "ja": "送風",
                "en": "Circulation"
              },
              "oneOf": [
                {
                  "type": "number",
                  "unit": "W",
                  "minimum": 0,
                  "maximum": 65533
                },
                {
```


©2018-2022 ECHONET Consortium

```
                "type": "string",
                "enum": [
                  "unsupported"
                ],
                "values": [
                  {
                    "value": "unsupported",
                    "descriptions": {
                      "ja": "未サポート",
                      "en": "Unsupported"
                    },
                    "edt": "0xFFFE"
                  }
                ]
              }
            ]
          }
        }
      }
    },
    "currentConsumption": {
      "epc": "0xB9",
      "descriptions": {
        "ja": "消費電流計測値",
        "en": "Measured value of current consumption"
      },
      "writable": false,
      "observable": false,
      "schema": {
        "type": "number",
        "unit": "A",
        "minimum": 0,
        "maximum": 6553.3,
        "multipleOf": 0.1
      }
    },
    "humidity": {
      "epc": "0xBA",
      "descriptions": {
        "ja": "室内相対湿度計測値",
        "en": "Measured value of room relative humidity"
      },
      "writable": false,
      "observable": false,
      "schema": {
        "oneOf": [
          {
            "type": "number",
            "unit": "%",
            "minimum": 0,
            "maximum": 100
          },
          {
            "type": "string",
            "enum": [
              "unmeasurable"
            ],
            "values": [
              {
                "value": "unmeasurable",
                "descriptions": {
```


©2018-2022 ECHONET Consortium

```
                    "ja": "計測不能",
                    "en": "Unmeasurable"
                  },
                  "edt": "0xFD"
                }
              ]
            }
          ]
        }
      },
      "roomTemperature": {
        "epc": "0xBB",
        "descriptions": {
          "ja": "室内温度計測値",
          "en": "Measured value of room temperature"
        },
        "writable": false,
        "observable": false,
        "schema": {
          "oneOf": [
            {
              "type": "number",
              "unit": "Celsius",
              "minimum": -127,
              "maximum": 125
            },
            {
              "type": "string",
              "enum": [
                "unmeasurable"
              ],
              "values": [
                {
                  "value": "unmeasurable",
                  "descriptions": {
                    "ja": "計測不能",
                    "en": "Unmeasurable"
                  },
                  "edt": "0x7E"
                }
              ]
            }
          ]
        }
      },
      "temperatureUserRemoteControl": {
        "epc": "0xBC",
        "descriptions": {
          "ja": "ユーザリモコン温度設定値",
          "en": "Set temperature value of user remote control"
        },
        "writable": false,
        "observable": false,
        "schema": {
          "type": "number",
          "unit": "Celsius",
          "minimum": 0,
          "maximum": 50
        }
      },
      "airFlowTemperature": {
```


©2018-2022 ECHONET Consortium

```
        "epc": "0xBD",
        "descriptions": {
          "ja": "吹き出し温度計測値",
          "en": "Measured cooled air temperature"
        },
        "writable": false,
        "observable": false,
        "schema": {
          "oneOf": [
            {
              "type": "number",
              "unit": "Celsius",
              "minimum": -127,
              "maximum": 125
            },
            {
              "type": "string",
              "enum": [
                "unmeasurable"
              ],
              "values": [
                {
                  "value": "unmeasurable",
                  "descriptions": {
                    "ja": "計測不能",
                    "en": "Unmeasurable"
                  },
                  "edt": "0x7E"
                }
              ]
            }
          ]
        }
      },
      "outdoorTemperature": {
        "epc": "0xBE",
        "descriptions": {
          "ja": "外気温度計測値",
          "en": "Measured outdoor air temperature"
        },
        "writable": false,
        "observable": false,
        "schema": {
          "oneOf": [
            {
              "type": "number",
              "unit": "Celsius",
              "minimum": -127,
              "maximum": 125
            },
            {
              "type": "string",
              "enum": [
                "unmeasurable"
              ],
              "values": [
                {
                  "value": "unmeasurable",
                  "descriptions": {
                    "ja": "計測不能",
                    "en": "Unmeasurable"
```


©2018-2022 ECHONET Consortium

```
                    },
                    "edt": "0x7E"
                  }
                ]
              }
            ]
          }
        },
        "relativeTemperature": {
          "epc": "0xBF",
          "descriptions": {
            "ja": "相対温度設定値",
            "en": "Relative temperature setting"
          },
          "writable": true,
          "observable": false,
          "schema": {
            "oneOf": [
              {
                "type": "number",
                "unit": "Celsius",
                "minimum": -12.7,
                "maximum": 12.5,
                "multipleOf": 0.1
              },
              {
                "type": "string",
                "enum": [
                  "unmeasurable"
                ],
                "values": [
                  {
                    "value": "unmeasurable",
                    "descriptions": {
                      "ja": "計測不能",
                      "en": "Unmeasurable"
                    },
                    "edt": "0x7E"
                  }
                ]
              }
            ]
          }
        },
        "ventilationFunction": {
          "epc": "0xC0",
          "descriptions": {
            "ja": "換気モード設定",
            "en": "Ventilation function setting"
          },
          "writable": true,
          "observable": false,
          "schema": {
            "type": "string",
            "enum": [
              "onOutlet",
              "off",
              "onIntake",
              "onOutletAndIntake"
            ],
            "values": [
```


©2018-2022 ECHONET Consortium

```
            {
              "value": "onOutlet",
              "descriptions": {
                "ja": "換気ON (排気方向)",
                "en": "Ventilation function ON (outlet direction)"
              },
              "edt": "0x41"
            },
            {
              "value": "off",
              "descriptions": {
                "ja": "換気OFF",
                "en": "Ventilation function OFF"
              },
              "edt": "0x42"
            },
            {
              "value": "onIntake",
              "descriptions": {
                "ja": "換気ON (吸気方向)",
                "en": "Ventilation function ON (intake direction)"
              },
              "edt": "0x43"
            },
            {
              "value": "onOutletAndIntake",
              "descriptions": {
                "ja": "換気ON (吸排気方向)",
                "en": "Ventilation function ON (outlet and intake direction)"
              },
              "edt": "0x44"
            }
          ]
        }
      },
      "humidifierFunction": {
        "epc": "0xC1",
        "descriptions": {
          "ja": "加湿モード設定",
          "en": "Humidifier function setting"
        },
        "writable": true,
        "observable": false,
        "schema": {
          "type": "string",
          "enum": [
            "on",
            "off"
          ],
          "values": [
            {
              "value": "on",
              "descriptions": {
                "ja": "加湿ON",
                "en": "Humidifier function ON"
              },
              "edt": "0x41"
            },
            {
              "value": "off",
              "descriptions": {
```


©2018-2022 ECHONET Consortium

```
                "ja": "加湿OFF",
                "en": "Humidifier function OFF"
              },
              "edt": "0x42"
            }
          ]
        }
      },
      "ventilationAirFlowLevel": {
        "epc": "0xC2",
        "descriptions": {
          "ja": "換気風量設定",
          "en": "Ventilation air flow rate setting"
        },
        "writable": true,
        "observable": false,
        "schema": {
          "oneOf": [
            {
              "type": "number",
              "minimum": 1,
              "maximum": 8,
              "multipleOf": 1
            },
            {
              "type": "string",
              "enum": [
                "auto"
              ],
              "values": [
                {
                  "value": "auto",
                  "descriptions": {
                    "ja": "換気風量自動",
                    "en": "Automatic control of ventilation air flow rate"
                  },
                  "edt": "0x41"
                }
              ]
            }
          ]
        }
      },
      "humidificationLevel": {
        "epc": "0xC4",
        "descriptions": {
          "ja": "加湿量設定",
          "en": "Degree of humidification setting"
        },
        "writable": true,
        "observable": false,
        "schema": {
          "oneOf": [
            {
              "type": "number",
              "minimum": 1,
              "maximum": 8,
              "multipleOf": 1
            },
            {
              "type": "string",
```


©2018-2022 ECHONET Consortium

```
              "enum": [
                "auto"
              ],
              "values": [
                {
                  "value": "auto",
                  "descriptions": {
                    "ja": "加湿量自動",
                    "en": "Automatic control of the degree of humidification"
                  },
                  "edt": "0x41"
                }
              ]
            }
          ]
        }
      },
      "airCleaningMethod": {
        "epc": "0xC6",
        "descriptions": {
          "ja": "搭載空気清浄方法",
          "en": "Mounted air cleaning method"
        },
        "writable": false,
        "observable": false,
        "schema": {
          "type": "object",
          "properties": {
            "equippedElectronic": {
              "descriptions": {
                "ja": "電気集塵方式搭載情報",
                "en": "Electronic dust collection"
              },
              "type": "boolean",
              "values": [
                {
                  "value": false,
                  "descriptions": {
                    "ja": "非搭載",
                    "en": "Not equipped"
                  },
                  "edt": "0x00"
                },
                {
                  "value": true,
                  "descriptions": {
                    "ja": "搭載",
                    "en": "Equipped"
                  },
                  "edt": "0x01"
                }
              ]
            },
            "equippedClusterIon": {
              "descriptions": {
                "ja": "クラスタイオン方式搭載情報",
                "en": "Cluster ion"
              },
              "type": "boolean",
              "values": [
                {
```


©2018-2022 ECHONET Consortium

```
                "value": false,
                "descriptions": {
                  "ja": "非搭載",
                  "en": "Not equipped"
                },
                "edt": "0x00"
              },
              {
                "value": true,
                "descriptions": {
                  "ja": "搭載",
                  "en": "Equipped"
                },
                "edt": "0x01"
              }
            ]
          }
        }
      }
    },
    "airPurifierFunction": {
      "epc": "0xC7",
      "descriptions": {
        "ja": "空気清浄機能モード設定",
        "en": "Air purifier function setting"
      },
      "writable": true,
      "observable": false,
      "schema": {
        "type": "object",
        "properties": {
          "levelOfElectronic": {
            "descriptions": {
              "ja": "電気集塵方式：制御レベル",
              "en": "Electronic dust collection:Level"
            },
            "type": "number",
            "minimum": 1,
            "maximum": 8,
            "multipleOf": 1
          },
          "modeOfElectronic": {
            "descriptions": {
              "ja": "電気集塵方式：動作モード",
              "en": "Electronic dust collection:Mode"
            },
            "type": "string",
            "enum": [
              "off",
              "on"
            ],
            "values": [
              {
                "value": "off",
                "descriptions": {
                  "ja": "OFF",
                  "en": "OFF"
                },
                "edt": "0x00"
              },
              {
```


©2018-2022 ECHONET Consortium

```
                "value": "on",
                "descriptions": {
                  "ja": "ON",
                  "en": "ON"
                },
                "edt": "0x01"
              }
            ]
          },
          "autoOfElectronic": {
            "descriptions": {
              "ja": "電気集塵方式：制御状態",
              "en": "Electronic dust collection:Auto function"
            },
            "type": "boolean",
            "values": [
              {
                "value": false,
                "descriptions": {
                  "ja": "非AUTO",
                  "en": "Non-automatic"
                },
                "edt": "0x00"
              },
              {
                "value": true,
                "descriptions": {
                  "ja": "AUTO",
                  "en": "Automatic"
                },
                "edt": "0x01"
              }
            ]
          },
          "levelOfClusterIon": {
            "descriptions": {
              "ja": "クラスタイオン方式：制御レベル",
              "en": "Cluster ion:Level"
            },
            "type": "number",
            "minimum": 1,
            "maximum": 8,
            "multipleOf": 1
          },
          "modeOfClusterIon": {
            "descriptions": {
              "ja": "クラスタイオン方式：動作モード",
              "en": "Cluster ion:Mode"
            },
            "type": "string",
            "enum": [
              "off",
              "on"
            ],
            "values": [
              {
                "value": "off",
                "descriptions": {
                  "ja": "OFF",
                  "en": "OFF"
                },
```


©2018-2022 ECHONET Consortium

```
                "edt": "0x00"
              },
              {
                "value": "on",
                "descriptions": {
                  "ja": "ON",
                  "en": "ON"
                },
                "edt": "0x01"
              }
            ]
          },
          "autoOfClusterIon": {
            "descriptions": {
              "ja": "クラスタイオン方式：制御状態",
              "en": "Cluster ion:Auto function"
            },
            "type": "boolean",
            "values": [
              {
                "value": false,
                "descriptions": {
                  "ja": "非AUTO",
                  "en": "Non-automatic"
                },
                "edt": "0x00"
              },
              {
                "value": true,
                "descriptions": {
                  "ja": "AUTO",
                  "en": "Automatic"
                },
                "edt": "0x01"
              }
            ]
          }
        }
      }
    },
    "airRefreshMethod": {
      "epc": "0xC8",
      "descriptions": {
        "ja": "搭載リフレッシュ方法",
        "en": "Mounted air refresh method"
      },
      "writable": false,
      "observable": false,
      "schema": {
        "type": "object",
        "properties": {
          "equippedMinusIon": {
            "descriptions": {
              "ja": "マイナスイオン方式搭載情報",
              "en": "Minus ion collection"
            },
            "type": "boolean",
            "values": [
              {
                "value": false,
                "descriptions": {
```


©2018-2022 ECHONET Consortium

```
                "ja": "非搭載",
                "en": "Not equipped"
              },
              "edt": "0x00"
            },
            {
              "value": true,
              "descriptions": {
                "ja": "搭載",
                "en": "Equipped"
              },
              "edt": "0x01"
            }
          ]
        },
        "equippedClusterIon": {
          "descriptions": {
            "ja": "クラスタイオン方式搭載情報",
            "en": "Cluster ion"
          },
          "type": "boolean",
          "values": [
            {
              "value": false,
              "descriptions": {
                "ja": "非搭載",
                "en": "Not equipped"
              },
              "edt": "0x00"
            },
            {
              "value": true,
              "descriptions": {
                "ja": "搭載",
                "en": "Equipped"
              },
              "edt": "0x01"
            }
          ]
        }
      }
    }
  },
  "airRefresherFunction": {
    "epc": "0xC9",
    "descriptions": {
      "ja": "リフレッシュ機能モード設定",
      "en": "Air refresher function setting"
    },
    "writable": true,
    "observable": false,
    "schema": {
      "type": "object",
      "properties": {
        "levelOfMinusIon": {
          "descriptions": {
            "ja": "マイナスイオン方式：制御レベル",
            "en": "Minus ion:Level"
          },
          "type": "number",
          "minimum": 1,
```


©2018-2022 ECHONET Consortium

```
            "maximum": 8,
            "multipleOf": 1
          },
          "modeOfMinusIon": {
            "descriptions": {
              "ja": "マイナスイオン方式：動作モード",
              "en": "Minus ion:Mode"
            },
            "type": "string",
            "enum": [
              "off",
              "on"
            ],
            "values": [
              {
                "value": "off",
                "descriptions": {
                  "ja": "OFF",
                  "en": "OFF"
                },
                "edt": "0x00"
              },
              {
                "value": "on",
                "descriptions": {
                  "ja": "ON",
                  "en": "ON"
                },
                "edt": "0x01"
              }
            ]
          },
          "autoOfMinusIon": {
            "descriptions": {
              "ja": "マイナスイオン方式：制御状態",
              "en": "Minus ion:Auto function"
            },
            "type": "boolean",
            "values": [
              {
                "value": false,
                "descriptions": {
                  "ja": "非AUTO",
                  "en": "Non-automatic"
                },
                "edt": "0x00"
              },
              {
                "value": true,
                "descriptions": {
                  "ja": "AUTO",
                  "en": "Automatic"
                },
                "edt": "0x01"
              }
            ]
          },
          "levelOfClusterIon": {
            "descriptions": {
              "ja": "クラスタイオン方式：制御レベル",
              "en": "Cluster ion:Level"
```


©2018-2022 ECHONET Consortium

```
            },
            "type": "number",
            "minimum": 1,
            "maximum": 8,
            "multipleOf": 1
          },
          "modeOfClusterIon": {
            "descriptions": {
              "ja": "クラスタイオン方式：動作モード",
              "en": "Cluster ion:Mode"
            },
            "type": "string",
            "enum": [
              "off",
              "on"
            ],
            "values": [
              {
                "value": "off",
                "descriptions": {
                  "ja": "OFF",
                  "en": "OFF"
                },
                "edt": "0x00"
              },
              {
                "value": "on",
                "descriptions": {
                  "ja": "ON",
                  "en": "ON"
                },
                "edt": "0x01"
              }
            ]
          },
          "autoOfClusterIon": {
            "descriptions": {
              "ja": "クラスタイオン方式：制御状態",
              "en": "Cluster ion:Auto function"
            },
            "type": "boolean",
            "values": [
              {
                "value": false,
                "descriptions": {
                  "ja": "非AUTO",
                  "en": "Non-automatic"
                },
                "edt": "0x00"
              },
              {
                "value": true,
                "descriptions": {
                  "ja": "AUTO",
                  "en": "Automatic"
                },
                "edt": "0x01"
              }
            ]
          }
        }
```


©2018-2022 ECHONET Consortium

```
        }
      },
      "selfCleaningMethod": {
        "epc": "0xCA",
        "descriptions": {
          "ja": "搭載自己洗浄方法",
          "en": "Mounted self-cleaning method"
        },
        "writable": false,
        "observable": false,
        "schema": {
          "type": "object",
          "properties": {
            "equippedOzone": {
              "descriptions": {
                "ja": "オゾン洗浄方式搭載情報",
                "en": "Information about ozone cleaning method mounting"
              },
              "type": "boolean",
              "values": [
                {
                  "value": false,
                  "descriptions": {
                    "ja": "非搭載",
                    "en": "Not equipped"
                  },
                  "edt": "0x00"
                },
                {
                  "value": true,
                  "descriptions": {
                    "ja": "搭載",
                    "en": "Equipped"
                  },
                  "edt": "0x01"
                }
              ]
            },
            "equippedDrying": {
              "descriptions": {
                "ja": "乾燥方式搭載情報",
                "en": "Information about drying method mounting"
              },
              "type": "boolean",
              "values": [
                {
                  "value": false,
                  "descriptions": {
                    "ja": "非搭載",
                    "en": "Not equipped"
                  },
                  "edt": "0x00"
                },
                {
                  "value": true,
                  "descriptions": {
                    "ja": "搭載",
                    "en": "Equipped"
                  },
                  "edt": "0x01"
                }
```


©2018-2022 ECHONET Consortium

```
                ]
              }
            }
          }
        },
        "selfCleaningFunction": {
          "epc": "0xCB",
          "descriptions": {
            "ja": "自己洗浄機能モード設定",
            "en": "Self-cleaning function setting"
          },
          "writable": true,
          "observable": false,
          "schema": {
            "type": "object",
            "properties": {
              "levelOfOzone": {
                "descriptions": {
                  "ja": "オゾン洗浄方式：制御レベル",
                  "en": "Ozone cleaning:Level"
                },
                "type": "number",
                "minimum": 1,
                "maximum": 8,
                "multipleOf": 1
              },
              "modeOfOzone": {
                "descriptions": {
                  "ja": "オゾン洗浄方式：動作モード",
                  "en": "Ozone cleaning:Mode"
                },
                "type": "string",
                "enum": [
                  "off",
                  "on"
                ],
                "values": [
                  {
                    "value": "off",
                    "descriptions": {
                      "ja": "OFF",
                      "en": "OFF"
                    },
                    "edt": "0x00"
                  },
                  {
                    "value": "on",
                    "descriptions": {
                      "ja": "ON",
                      "en": "ON"
                    },
                    "edt": "0x01"
                  }
                ]
              },
              "autoOfOzone": {
                "descriptions": {
                  "ja": "オゾン洗浄方式：制御状態",
                  "en": "Ozone cleaning:Auto function"
                },
                "type": "boolean",
```


©2018-2022 ECHONET Consortium

```
            "values": [
              {
                "value": false,
                "descriptions": {
                  "ja": "非AUTO",
                  "en": "Non-automatic"
                },
                "edt": "0x00"
              },
              {
                "value": true,
                "descriptions": {
                  "ja": "AUTO",
                  "en": "Automatic"
                },
                "edt": "0x01"
              }
            ]
          },
          "levelOfDrying": {
            "descriptions": {
              "ja": "乾燥方式：制御レベル",
              "en": "Drying:Level"
            },
            "type": "number",
            "minimum": 1,
            "maximum": 8,
            "multipleOf": 1
          },
          "modeOfDrying": {
            "descriptions": {
              "ja": "乾燥方式：動作モード",
              "en": "Drying:Mode"
            },
            "type": "string",
            "enum": [
              "off",
              "on"
            ],
            "values": [
              {
                "value": "off",
                "descriptions": {
                  "ja": "OFF",
                  "en": "OFF"
                },
                "edt": "0x00"
              },
              {
                "value": "on",
                "descriptions": {
                  "ja": "ON",
                  "en": "ON"
                },
                "edt": "0x01"
              }
            ]
          },
          "autoOfDrying": {
            "descriptions": {
              "ja": "乾燥方式：制御状態",
```


©2018-2022 ECHONET Consortium

```
                "en": "Drying:Auto function"
              },
              "type": "boolean",
              "values": [
                {
                  "value": false,
                  "descriptions": {
                    "ja": "非AUTO",
                    "en": "Non-automatic"
                  },
                  "edt": "0x00"
                },
                {
                  "value": true,
                  "descriptions": {
                    "ja": "AUTO",
                    "en": "Automatic"
                  },
                  "edt": "0x01"
                }
              ]
            }
          }
        }
      },
      "specialFunction": {
        "epc": "0xCC",
        "descriptions": {
          "ja": "特別運転モード設定",
          "en": "Special function setting"
        },
        "writable": true,
        "observable": false,
        "schema": {
          "type": "string",
          "enum": [
            "noSetting",
            "clothesDryer",
            "condensationSuppressor",
            "miteAndMoldControl",
            "activeDefrosting"
          ],
          "values": [
            {
              "value": "noSetting",
              "descriptions": {
                "ja": "設定なし",
                "en": "No setting"
              },
              "edt": "0x40"
            },
            {
              "value": "clothesDryer",
              "descriptions": {
                "ja": "衣類乾燥",
                "en": "Clothes dryer function"
              },
              "edt": "0x41"
            },
            {
              "value": "condensationSuppressor",
```


©2018-2022 ECHONET Consortium

```
            "descriptions": {
              "ja": "結露抑制",
              "en": "Condensation suppressor function"
            },
            "edt": "0x42"
          },
          {
            "value": "miteAndMoldControl",
            "descriptions": {
              "ja": "ダニカビ抑制",
              "en": "Mite and mold control function"
            },
            "edt": "0x43"
          },
          {
            "value": "activeDefrosting",
            "descriptions": {
              "ja": "強制除霜",
              "en": "Active defrosting function"
            },
            "edt": "0x44"
          }
        ]
      }
    },
    "componentsOperationStatus": {
      "epc": "0xCD",
      "descriptions": {
        "ja": "内部動作状態",
        "en": "Operation status of components"
      },
      "writable": false,
      "observable": false,
      "schema": {
        "type": "object",
        "properties": {
          "compressor": {
            "descriptions": {
              "ja": "コンプレッサ動作状態",
              "en": "Operation status of the compressor"
            },
            "type": "string",
            "enum": [
              "off",
              "on"
            ],
            "values": [
              {
                "value": "off",
                "descriptions": {
                  "ja": "停止中",
                  "en": "Not operating"
                },
                "edt": "0x00"
              },
              {
                "value": "on",
                "descriptions": {
                  "ja": "動作中",
                  "en": "In operation"
                },
```


©2018-2022 ECHONET Consortium

```
                "edt": "0x01"
              }
            ]
          },
          "thermostat": {
            "descriptions": {
              "ja": "サーモON/OFF状態",
              "en": "Operation status of the thermostat"
            },
            "type": "string",
            "enum": [
              "off",
              "on"
            ],
            "values": [
              {
                "value": "off",
                "descriptions": {
                  "ja": "OFF",
                  "en": "OFF"
                },
                "edt": "0x00"
              },
              {
                "value": "on",
                "descriptions": {
                  "ja": "ON",
                  "en": "ON"
                },
                "edt": "0x01"
              }
            ]
          }
        }
      }
    },
    "thermostatOverride": {
      "epc": "0xCE",
      "descriptions": {
        "ja": "強制サーモモード設定",
        "en": "Thermostat setting override function"
      },
      "writable": true,
      "observable": false,
      "schema": {
        "type": "string",
        "enum": [
          "normal",
          "on",
          "off"
        ],
        "values": [
          {
            "value": "normal",
            "descriptions": {
              "ja": "通常設定",
              "en": "Normal setting"
            },
            "edt": "0x40"
          },
          {
```


©2018-2022 ECHONET Consortium

```
              "value": "on",
              "descriptions": {
                "ja": "強制サーモON",
                "en": "Thermostat setting override function ON"
              },
              "edt": "0x41"
            },
            {
              "value": "off",
              "descriptions": {
                "ja": "強制サーモOFF",
                "en": "Thermostat setting override function OFF"
              },
              "edt": "0x42"
            }
          ]
        }
      },
      "airPurification": {
        "epc": "0xCF",
        "descriptions": {
          "ja": "空気清浄モード設定",
          "en": "Air purification mode setting"
        },
        "writable": true,
        "observable": false,
        "schema": {
          "type": "string",
          "enum": [
            "on",
            "off"
          ],
          "values": [
            {
              "value": "on",
              "descriptions": {
                "ja": "空気清浄ON",
                "en": "Air purification ON"
              },
              "edt": "0x41"
            },
            {
              "value": "off",
              "descriptions": {
                "ja": "空気清浄OFF",
                "en": "Air purification OFF"
              },
              "edt": "0x42"
            }
          ]
        }
      }
    },
    "actions": {
      "beepBuzzer": {
        "epc": "0xD0",
        "descriptions": {
          "ja": "ブザー",
          "en": "Buzzer"
        },
        "schema": {},
```


©2018-2022 ECHONET Consortium

```
        "note": {
          "ja": "ECHONET LiteではSet only property",
          "en": "Access rule of the corresponding ECHONET Lite property is Set only."
        }
      }
    }
  }
```


©2018-2022 ECHONET Consortium

Ventilation fan: ventilationFan: 0x0133

Back to the List of Devices

Properties

Property Resource Name	Access Method	Data Type	EPC (EL)	Property name (EL)	Note
airFlowLevel	GET, PUT	number, string	0xA0	Set value of ventilation air flow rate	
automaticVentilationOperation	GET, PUT	boolean	0xBF	Ventilation Auto setting	

Device Description

```
{
  "deviceType": "ventilationFan",
  "metaData": {
    "version": "1.3.0"
  },
  "eoj": "0x0133",
  "descriptions": {
    "ja": "換気扇",
    "en": "Ventilation fan"
  },
  "properties": {
    "airFlowLevel": {
      "epc": "0xA0",
      "descriptions": {
        "ja": "換気風量設定",
        "en": "Set value of ventilation air flow rate"
      },
      "writable": true,
      "observable": false,
      "schema": {
        "oneOf": [
          {
            "type": "number",
            "minimum": 1,
            "maximum": 8,
            "multipleOf": 1
          },
          {
            "type": "string",
            "enum": [
              "auto"
            ],
            "values": [
              {
                "value": "auto",
                "descriptions": {
                  "ja": "換気風量自動状態",
                  "en": "Ventilation air flow rate auto status"
                },
                "edt": "0x41"
              }
            ]
```


©2018-2022 ECHONET Consortium

```
            }
          ]
        }
      },
      "automaticVentilationOperation": {
        "epc": "0xBF",
        "descriptions": {
          "ja": "換気自動設定",
          "en": "Ventilation Auto setting"
        },
        "writable": true,
        "observable": false,
        "schema": {
          "type": "boolean",
          "values": [
            {
              "value": true,
              "descriptions": {
                "ja": "AUTO",
                "en": "Auto"
              },
              "edt": "0x41"
            },
            {
              "value": false,
              "descriptions": {
                "ja": "非AUTO",
                "en": "Non-auto"
              },
              "edt": "0x42"
            }
          ]
        }
      }
    }
  }
```


©2018-2022 ECHONET Consortium

Air conditioner ventilation fan: airConditionerVentilationFan: 0x0134

Back to the List of Devices

Properties

Property Resource Name	Access Method	Data Type	EPC (EL)	Property name (EL)	Note
airFlowLevel	GET, PUT	number, string	0xA0	Set value of ventilation air flow rate	
ventilationModeAuto	GET, PUT	boolean	0xB0	Ventilation mode automatic setting	
ventilationMethod	GET, PUT	string	0xB1	Ventilation method setting	
ventilationMode	GET, PUT	string	0xB2	Ventilation mode setting	
highlowLevel	GET, PUT	number	0xB3	Cooling / heating high-low setting	
targetHumidity	GET, PUT	number	0xB4	Set value of room relative humidity	
currentConsumption	GET	number	0xB9	Measured value of electric current consumption	
humidity	GET	number, string	0xBA	Measured value of room relative humidity	
outdoorTemperature	GET	number, string	0xBE	Measured value of outdoor air temperature	
ventilationAuto	GET, PUT	boolean	0xBF	Ventilation auto setting	
co2Concentration	GET	number	0xC0	Measured value of CO2 concentration	
smokeDetection	GET	boolean	0xC1	Smoke (cigarette) detection status	
pollutionDetection	GET	boolean	0xC2	Pollution detection status	
outdoorHumidity	GET	number, string	0xCA	Measured value of outdoor relative humidity	
returnAirTemperature	GET	array	0xD0	Measured value of return air temperature	
returnAirHumidity	GET	array	0xD1	Measured value of return relative humidity	

©2018-2022 ECHONET Consortium

Property Resource Name	Access Method	Data Type	EPC (EL)	Property name (EL)	Note
chargingAirTemperature	GET	number, string	0xD2	Measured value of charging air temperature	
chargingAirHumidity	GET	number, string	0xD3	Measured value of charging relative humidity	
dischargingAirTemperature	GET	number, string	0xD4	Measured value of discharging air temperature	
dischargingAirHumidity	GET	number, string	0xD5	Measured value of discharging air relative humidity	
heatExchangerOperationStatus	GET, PUT	boolean	0xE0	Heat exchanger operation setting	

Device Description

```
{
  "deviceType": "airConditionerVentilationFan",
  "metaData": {
    "version": "1.4.0"
  },
  "eoj": "0x0134",
  "descriptions": {
    "ja": "空調換気扇",
    "en": "Air conditioner ventilation fan"
  },
  "properties": {
    "airFlowLevel": {
      "epc": "0xA0",
      "descriptions": {
        "ja": "換気風量設定",
        "en": "Set value of ventilation air flow rate"
      },
      "writable": true,
      "observable": false,
      "schema": {
        "oneOf": [
          {
            "type": "number",
            "minimum": 1,
            "maximum": 8,
            "multipleOf": 1
          },
          {
            "type": "string",
            "enum": [
              "auto"
            ],
            "values": [
              {
                "value": "auto",
                "descriptions": {
                  "ja": "換気風量自動状態",
                  "en": "Ventilation air flow rate auto status"
```


©2018-2022 ECHONET Consortium

```
                  },
                  "edt": "0x41"
                }
              ]
            }
          ]
        }
      },
      "ventilationModeAuto": {
        "epc": "0xB0",
        "descriptions": {
          "ja": "換気モード自動設定",
          "en": "Ventilation mode automatic setting"
        },
        "writable": true,
        "observable": false,
        "schema": {
          "type": "boolean",
          "values": [
            {
              "value": true,
              "descriptions": {
                "ja": "AUTO",
                "en": "Auto"
              },
              "edt": "0x41"
            },
            {
              "value": false,
              "descriptions": {
                "ja": "非AUTO",
                "en": "Non-auto"
              },
              "edt": "0x42"
            }
          ]
        }
      },
      "ventilationMethod": {
        "epc": "0xB1",
        "descriptions": {
          "ja": "換気方式設定",
          "en": "Ventilation method setting"
        },
        "writable": true,
        "observable": false,
        "schema": {
          "type": "string",
          "enum": [
            "blowing",
            "airConditioning"
          ],
          "values": [
            {
              "value": "blowing",
              "descriptions": {
                "ja": "送風換気",
                "en": "Blowing ventilation"
              },
              "edt": "0x41"
            },
```


©2018-2022 ECHONET Consortium

```
            {
              "value": "airConditioning",
              "descriptions": {
                "ja": "空調換気",
                "en": "Air conditioning ventilation"
              },
              "edt": "0x42"
            }
          ]
        }
      },
      "ventilationMode": {
        "epc": "0xB2",
        "descriptions": {
          "ja": "換気モード設定",
          "en": "Ventilation mode setting"
        },
        "writable": true,
        "observable": true,
        "schema": {
          "type": "string",
          "enum": [
            "normal",
            "heatExchange",
            "cooling",
            "heating",
            "dehumidifying",
            "humidifying",
            "other"
          ],
          "values": [
            {
              "value": "normal",
              "descriptions": {
                "ja": "普通換気",
                "en": "Normal ventilation"
              },
              "edt": "0x41"
            },
            {
              "value": "heatExchange",
              "descriptions": {
                "ja": "熱交換換気",
                "en": "Heat exchange ventilation"
              },
              "edt": "0x42"
            },
            {
              "value": "cooling",
              "descriptions": {
                "ja": "冷房換気",
                "en": "Cooling ventilation"
              },
              "edt": "0x43"
            },
            {
              "value": "heating",
              "descriptions": {
                "ja": "暖房換気",
                "en": "Heating ventilation"
              },
```


©2018-2022 ECHONET Consortium

```
            "edt": "0x44"
          },
          {
            "value": "dehumidifying",
            "descriptions": {
              "ja": "除湿換気",
              "en": "Dehumidifying ventilation"
            },
            "edt": "0x45"
          },
          {
            "value": "humidifying",
            "descriptions": {
              "ja": "加湿換気",
              "en": "Humidifying ventilation"
            },
            "edt": "0x46"
          },
          {
            "value": "other",
            "descriptions": {
              "ja": "その他換気",
              "en": "Other ventilation modes"
            },
            "edt": "0x40"
          }
        ]
      }
    },
    "highlowLevel": {
      "epc": "0xB3",
      "descriptions": {
        "ja": "冷暖強弱設定",
        "en": "Cooling / heating high-low setting"
      },
      "writable": true,
      "observable": false,
      "schema": {
        "type": "number",
        "minimum": 1,
        "maximum": 8,
        "multipleOf": 1
      }
    },
    "targetHumidity": {
      "epc": "0xB4",
      "descriptions": {
        "ja": "室内相対湿度設定値",
        "en": "Set value of room relative humidity"
      },
      "writable": true,
      "observable": false,
      "schema": {
        "type": "number",
        "unit": "%",
        "minimum": 0,
        "maximum": 100
      }
    },
    "currentConsumption": {
      "epc": "0xB9",
```


©2018-2022 ECHONET Consortium

```
        "descriptions": {
          "ja": "消費電流計測値",
          "en": "Measured value of electric current consumption"
        },
        "writable": false,
        "observable": false,
        "schema": {
          "type": "number",
          "unit": "A",
          "minimum": 0,
          "maximum": 6553.3,
          "multipleOf": 0.1
        }
      },
      "humidity": {
        "epc": "0xBA",
        "descriptions": {
          "ja": "室内相対湿度計測値",
          "en": "Measured value of room relative humidity"
        },
        "writable": false,
        "observable": false,
        "schema": {
          "oneOf": [
            {
              "type": "number",
              "unit": "%",
              "minimum": 0,
              "maximum": 100
            },
            {
              "type": "string",
              "enum": [
                "unmeasurable"
              ],
              "values": [
                {
                  "value": "unmeasurable",
                  "descriptions": {
                    "ja": "計測不能",
                    "en": "Unmeasurable"
                  },
                  "edt": "0xFD"
                }
              ]
            }
          ]
        }
      },
      "outdoorTemperature": {
        "epc": "0xBE",
        "descriptions": {
          "ja": "外気温度計測値",
          "en": "Measured value of outdoor air temperature"
        },
        "writable": false,
        "observable": false,
        "schema": {
          "oneOf": [
            {
              "type": "number",
```


©2018-2022 ECHONET Consortium

```
            "unit": "Celsius",
            "minimum": -127,
            "maximum": 125
          },
          {
            "type": "string",
            "enum": [
              "unmeasurable"
            ],
            "values": [
              {
                "value": "unmeasurable",
                "descriptions": {
                  "ja": "計測不能",
                  "en": "Unmeasurable"
                },
                "edt": "0x7E"
              }
            ]
          }
        ]
      }
    },
    "ventilationAuto": {
      "epc": "0xBF",
      "descriptions": {
        "ja": "換気自動設定",
        "en": "Ventilation auto setting"
      },
      "writable": true,
      "observable": false,
      "schema": {
        "type": "boolean",
        "values": [
          {
            "value": true,
            "descriptions": {
              "ja": "AUTO",
              "en": "Auto"
            },
            "edt": "0x41"
          },
          {
            "value": false,
            "descriptions": {
              "ja": "非AUTO",
              "en": "Non-auto"
            },
            "edt": "0x42"
          }
        ]
      }
    },
    "co2Concentration": {
      "epc": "0xC0",
      "descriptions": {
        "ja": "CO2濃度計測値",
        "en": "Measured value of CO2 concentration"
      },
      "writable": false,
      "observable": false,
```


©2018-2022 ECHONET Consortium

```
        "schema": {
          "type": "number",
          "unit": "ppm",
          "minimum": 0,
          "maximum": 65533
        }
      },
      "smokeDetection": {
        "epc": "0xC1",
        "descriptions": {
          "ja": "煙 (タバコ) 検知状態",
          "en": "Smoke (cigarette) detection status"
        },
        "writable": false,
        "observable": false,
        "schema": {
          "type": "boolean",
          "values": [
            {
              "value": true,
              "descriptions": {
                "ja": "煙 (タバコ) 検知有",
                "en": "Smoke (cigarette) detection status found."
              },
              "edt": "0x41"
            },
            {
              "value": false,
              "descriptions": {
                "ja": "煙 (タバコ) 検知無",
                "en": "Smoke (cigarette) detection status not found."
              },
              "edt": "0x42"
            }
          ]
        }
      },
      "pollutionDetection": {
        "epc": "0xC2",
        "descriptions": {
          "ja": "汚れ検知状態",
          "en": "Pollution detection status"
        },
        "writable": false,
        "observable": false,
        "schema": {
          "type": "boolean",
          "values": [
            {
              "value": true,
              "descriptions": {
                "ja": "汚れ検知有",
                "en": "Pollution detected"
              },
              "edt": "0x41"
            },
            {
              "value": false,
              "descriptions": {
                "ja": "汚れ検知無",
                "en": "Pollution non-detected"
```


©2018-2022 ECHONET Consortium

```
            },
            "edt": "0x42"
          }
        ]
      }
    },
    "outdoorHumidity": {
      "epc": "0xCA",
      "descriptions": {
        "ja": "外気相対湿度計測値",
        "en": "Measured value of outdoor relative humidity"
      },
      "writable": false,
      "observable": false,
      "schema": {
        "oneOf": [
          {
            "type": "number",
            "unit": "%",
            "minimum": 0,
            "maximum": 100
          },
          {
            "type": "string",
            "enum": [
              "unmeasurable"
            ],
            "values": [
              {
                "value": "unmeasurable",
                "descriptions": {
                  "ja": "計測不能",
                  "en": "Unmeasurable"
                },
                "edt": "0xFD"
              }
            ]
          }
        ]
      }
    },
    "returnAirTemperature": {
      "epc": "0xD0",
      "descriptions": {
        "ja": "還気温度計測値",
        "en": "Measured value of return air temperature"
      },
      "writable": false,
      "observable": false,
      "schema": {
        "type": "array",
        "minItems": 10,
        "maxItems": 10,
        "items": {
          "oneOf": [
            {
              "type": "number",
              "unit": "Celsius",
              "minimum": -127,
              "maximum": 125
            },
```


©2018-2022 ECHONET Consortium

```
            {
              "type": "string",
              "enum": [
                "unmeasurable"
              ],
              "values": [
                {
                  "value": "unmeasurable",
                  "descriptions": {
                    "ja": "計測不能",
                    "en": "Unmeasurable"
                  },
                  "edt": "0x7E"
                }
              ]
            }
          ]
        }
      }
    },
    "returnAirHumidity": {
      "epc": "0xD1",
      "descriptions": {
        "ja": "還気相対湿度計測値",
        "en": "Measured value of return relative humidity"
      },
      "writable": false,
      "observable": false,
      "schema": {
        "type": "array",
        "minItems": 10,
        "maxItems": 10,
        "items": {
          "oneOf": [
            {
              "type": "number",
              "unit": "%",
              "minimum": 0,
              "maximum": 100
            },
            {
              "type": "string",
              "enum": [
                "unmeasurable"
              ],
              "values": [
                {
                  "value": "unmeasurable",
                  "descriptions": {
                    "ja": "計測不能",
                    "en": "Unmeasurable"
                  },
                  "edt": "0xFD"
                }
              ]
            }
          ]
        }
      }
    },
    "chargingAirTemperature": {
```


©2018-2022 ECHONET Consortium

```
        "epc": "0xD2",
        "descriptions": {
          "ja": "給気温度計測値",
          "en": "Measured value of charging air temperature"
        },
        "writable": false,
        "observable": false,
        "schema": {
          "oneOf": [
            {
              "type": "number",
              "unit": "Celsius",
              "minimum": -127,
              "maximum": 125
            },
            {
              "type": "string",
              "enum": [
                "unmeasurable"
              ],
              "values": [
                {
                  "value": "unmeasurable",
                  "descriptions": {
                    "ja": "計測不能",
                    "en": "Unmeasurable"
                  },
                  "edt": "0x7E"
                }
              ]
            }
          ]
        }
      },
      "chargingAirHumidity": {
        "epc": "0xD3",
        "descriptions": {
          "ja": "給気相対湿度計測値",
          "en": "Measured value of charging relative humidity"
        },
        "writable": false,
        "observable": false,
        "schema": {
          "oneOf": [
            {
              "type": "number",
              "unit": "%",
              "minimum": 0,
              "maximum": 100
            },
            {
              "type": "string",
              "enum": [
                "unmeasurable"
              ],
              "values": [
                {
                  "value": "unmeasurable",
                  "descriptions": {
                    "ja": "計測不能",
                    "en": "Unmeasurable"
```


©2018-2022 ECHONET Consortium

```
                    },
                    "edt": "0xFD"
                  }
                ]
              }
            ]
          }
        },
        "dischargingAirTemperature": {
          "epc": "0xD4",
          "descriptions": {
            "ja": "排気温度計測値",
            "en": "Measured value of discharging air temperature"
          },
          "writable": false,
          "observable": false,
          "schema": {
            "oneOf": [
              {
                "type": "number",
                "unit": "Celsius",
                "minimum": -127,
                "maximum": 125
              },
              {
                "type": "string",
                "enum": [
                  "unmeasurable"
                ],
                "values": [
                  {
                    "value": "unmeasurable",
                    "descriptions": {
                      "ja": "計測不能",
                      "en": "Unmeasurable"
                    },
                    "edt": "0x7E"
                  }
                ]
              }
            ]
          }
        },
        "dischargingAirHumidity": {
          "epc": "0xD5",
          "descriptions": {
            "ja": "排気相対湿度計測値",
            "en": "Measured value of discharging air relative humidity"
          },
          "writable": false,
          "observable": false,
          "schema": {
            "oneOf": [
              {
                "type": "number",
                "unit": "%",
                "minimum": 0,
                "maximum": 100
              },
              {
                "type": "string",
```


©2018-2022 ECHONET Consortium

```
              "enum": [
                "unmeasurable"
              ],
              "values": [
                {
                  "value": "unmeasurable",
                  "descriptions": {
                    "ja": "計測不能",
                    "en": "Unmeasurable"
                  },
                  "edt": "0xFD"
                }
              ]
            }
          ]
        }
      },
      "heatExchangerOperationStatus": {
        "epc": "0xE0",
        "descriptions": {
          "ja": "熱交換機動作設定",
          "en": "Heat exchanger operation setting"
        },
        "writable": true,
        "observable": false,
        "schema": {
          "type": "boolean",
          "values": [
            {
              "value": true,
              "descriptions": {
                "ja": "熱交換機ON",
                "en": "Heat exchanger ON"
              },
              "edt": "0x41"
            },
            {
              "value": false,
              "descriptions": {
                "ja": "熱交換機OFF",
                "en": "Heat exchanger ON"
              },
              "edt": "0x42"
            }
          ]
        }
      }
    }
  }
```


©2018-2022 ECHONET Consortium

Air cleaner: airCleaner: 0x0135

Back to the List of Devices

Properties

Property Resource Name	Access Method	Data Type	EPC (EL)	Property name (EL)	Note
airFlowLevel	GET, PUT	number, string	0xA0	Air flow rate setting	
airPollutionDetection	GET	boolean	0xC0	Air pollution detection status	
smokeDetection	GET	boolean	0xC1	Smoke (cigarette) detection status	
opticalCatalystOperationStatus	GET, PUT	boolean	0xC2	Optical catalyst operation setting	
filterChangeNotice	GET	boolean	0xE1	Filter change notice	

Device Description

```
{
  "deviceType": "airCleaner",
  "metaData": {
    "version": "1.3.0"
  },
  "eoj": "0x0135",
  "descriptions": {
    "ja": "空気清浄器",
    "en": "Air cleaner"
  },
  "properties": {
    "airFlowLevel": {
      "epc": "0xA0",
      "descriptions": {
        "ja": "風量設定",
        "en": "Air flow rate setting"
      },
      "writable": true,
      "observable": false,
      "schema": {
        "oneOf": [
          {
            "type": "number",
            "minimum": 1,
            "maximum": 8,
            "multipleOf": 1
          },
          {
            "type": "string",
            "enum": [
              "auto"
```


©2018-2022 ECHONET Consortium

```
            ],
            "values": [
              {
                "value": "auto",
                "descriptions": {
                  "ja": "換気風量自動状態",
                  "en": "Ventilation air flow rate auto status"
                },
                "edt": "0x41"
              }
            ]
          }
        ]
      }
    },
    "airPollutionDetection": {
      "epc": "0xC0",
      "descriptions": {
        "ja": "空気汚れ検知状態",
        "en": "Air pollution detection status"
      },
      "writable": false,
      "observable": false,
      "schema": {
        "type": "boolean",
        "values": [
          {
            "value": true,
            "descriptions": {
              "ja": "空気汚れ検知有",
              "en": "Air pollution detected"
            },
            "edt": "0x41"
          },
          {
            "value": false,
            "descriptions": {
              "ja": "空気汚れ検知無",
              "en": "Air pollution non-detected"
            },
            "edt": "0x42"
          }
        ]
      }
    },
    "smokeDetection": {
      "epc": "0xC1",
      "descriptions": {
        "ja": "煙 (タバコ) 検知状態",
        "en": "Smoke (cigarette) detection status"
      },
      "writable": false,
      "observable": false,
      "schema": {
        "type": "boolean",
        "values": [
          {
            "value": true,
            "descriptions": {
              "ja": "煙 (タバコ) 検知有",
              "en": "Smoke (cigarette) detection status found."
```


©2018-2022 ECHONET Consortium

```
            },
            "edt": "0x41"
          },
          {
            "value": false,
            "descriptions": {
              "ja": "煙 (タバコ) 検知無",
              "en": "Smoke (cigarette) detection status not found."
            },
            "edt": "0x42"
          }
        ]
      }
    },
    "opticalCatalystOperationStatus": {
      "epc": "0xC2",
      "descriptions": {
        "ja": "光触媒動作設定",
        "en": "Optical catalyst operation setting"
      },
      "writable": true,
      "observable": false,
      "schema": {
        "type": "boolean",
        "values": [
          {
            "value": true,
            "descriptions": {
              "ja": "光触媒ON",
              "en": "Optical catalyst ON"
            },
            "edt": "0x41"
          },
          {
            "value": false,
            "descriptions": {
              "ja": "光触媒OFF",
              "en": "Optical catalyst OFF"
            },
            "edt": "0x42"
          }
        ]
      }
    },
    "filterChangeNotice": {
      "epc": "0xE1",
      "descriptions": {
        "ja": "フィルタ交換通知状態",
        "en": "Filter change notice"
      },
      "writable": false,
      "observable": false,
      "schema": {
        "type": "boolean",
        "values": [
          {
            "value": true,
            "descriptions": {
              "ja": "フィルタ交換時期通知有",
              "en": "Found"
            },
```


©2018-2022 ECHONET Consortium

```
            "edt": "0x41"
          },
          {
            "value": false,
            "descriptions": {
              "ja": "フィルタ交換時期通知無",
              "en": "Not found"
            },
            "edt": "0x42"
          }
        ]
      }
    }
  }
}
```


©2018-2022 ECHONET Consortium

Package-type commercial air conditioner (indoor unit) (except those for facilities): commercialAirConditionerIndoorUnit: 0x0156

Back to the List of Devices

Properties

Property Resource Name	Access Method	Data Type	EPC (EL)	Property name (EL)	Note
thermostatState	GET	boolean	0xAC	Thermostat state	
automaticOperationModeStatus	GET	string	0xAE	Current function (automatic operation mode)	
operationMode	GET, PUT	string	0xB0	Operation mode setting	
targetTemperature	GET, PUT	number	0xB3	Temperature setting	
roomTemperature	GET	number, string	0xBB	Measured indoor unit temperature	
groupInformation	GET	number, string	0xCA	Group information	
powerConsumption	GET	string	0xDB	Power consumption range for indoor units	
groupDeviceList	GET	array	-	List of devices in group	*1

*1 Group information "groupDeviceList" describes the Ids of devices managed by Web API devices and their "deviceType".

Device Description

```
{
  "deviceType": "commercialAirConditionerIndoorUnit",
  "metaData": {
    "version": "1.4.1"
  },
  "eoj": "0x0156",
  "descriptions": {
    "ja": "業務用パッケージエアコン室内機 (設備用を除く)",
    "en": "Package-type commercial air conditioner (indoor unit) (except those for
facilities)"
  },
  "properties": {
    "thermostatState": {
      "epc": "0xAC",
      "descriptions": {
        "ja": "サーモ状態",
        "en": "Thermostat state"
      },
      "writable": false,
      "observable": false,
```


©2018-2022 ECHONET Consortium

```
        "schema": {
          "type": "boolean",
          "values": [
            {
              "value": true,
              "descriptions": {
                "ja": "サーモON",
                "en": "Thermostat ON"
              },
              "edt": "0x41"
            },
            {
              "value": false,
              "descriptions": {
                "ja": "サーモOFF",
                "en": "Thermostat OFF"
              },
              "edt": "0x42"
            }
          ]
        }
      },
      "automaticOperationModeStatus": {
        "epc": "0xAE",
        "descriptions": {
          "ja": "自動運転時運転モード状態",
          "en": "Current function (automatic operation mode)"
        },
        "writable": false,
        "observable": false,
        "schema": {
          "type": "string",
          "enum": [
            "cooling",
            "heating",
            "dehumidification",
            "circulation",
            "other"
          ],
          "values": [
            {
              "value": "cooling",
              "descriptions": {
                "ja": "冷房",
                "en": "Cooling"
              },
              "edt": "0x42"
            },
            {
              "value": "heating",
              "descriptions": {
                "ja": "暖房",
                "en": "Heating"
              },
              "edt": "0x43"
            },
            {
              "value": "dehumidification",
              "descriptions": {
                "ja": "除湿",
                "en": "Dehumidification"
```


©2018-2022 ECHONET Consortium

```
            },
            "edt": "0x44"
          },
          {
            "value": "circulation",
            "descriptions": {
              "ja": "送風",
              "en": "Air circulation"
            },
            "edt": "0x45"
          },
          {
            "value": "other",
            "descriptions": {
              "ja": "その他",
              "en": "Other"
            },
            "edt": "0x40"
          }
        ]
      }
    },
    "operationMode": {
      "epc": "0xB0",
      "descriptions": {
        "ja": "運転モード設定",
        "en": "Operation mode setting"
      },
      "writable": true,
      "observable": true,
      "schema": {
        "type": "string",
        "enum": [
          "auto",
          "cooling",
          "heating",
          "dehumidification",
          "circulation"
        ],
        "values": [
          {
            "value": "auto",
            "descriptions": {
              "ja": "自動",
              "en": "Automatic"
            },
            "edt": "0x41"
          },
          {
            "value": "cooling",
            "descriptions": {
              "ja": "冷房",
              "en": "Cooling"
            },
            "edt": "0x42"
          },
          {
            "value": "heating",
            "descriptions": {
              "ja": "暖房",
              "en": "Heating"
```


©2018-2022 ECHONET Consortium

```
            },
            "edt": "0x43"
          },
          {
            "value": "dehumidification",
            "descriptions": {
              "ja": "除湿",
              "en": "Dehumidification"
            },
            "edt": "0x44"
          },
          {
            "value": "circulation",
            "descriptions": {
              "ja": "送風",
              "en": "Air circulation"
            },
            "edt": "0x45"
          }
        ]
      }
    },
    "targetTemperature": {
      "epc": "0xB3",
      "descriptions": {
        "ja": "温度設定値",
        "en": "Temperature setting"
      },
      "writable": true,
      "observable": true,
      "schema": {
        "type": "number",
        "unit": "Celsius",
        "minimum": 0,
        "maximum": 50
      }
    },
    "roomTemperature": {
      "epc": "0xBB",
      "descriptions": {
        "ja": "室内機温度計測値",
        "en": "Measured indoor unit temperature"
      },
      "writable": false,
      "observable": false,
      "schema": {
        "oneOf": [
          {
            "type": "number",
            "unit": "Celsius",
            "minimum": -127,
            "maximum": 125
          },
          {
            "type": "string",
            "enum": [
              "unmeasurable"
            ],
            "values": [
              {
                "value": "unmeasurable",
```


©2018-2022 ECHONET Consortium

```
                "descriptions": {
                  "ja": "計測値を返せない",
                  "en": "When the measurement value cannot be returned"
                },
                "edt": "0x7E"
              }
            ]
          }
        ]
      }
    },
    "groupInformation": {
      "epc": "0xCA",
      "descriptions": {
        "ja": "グループ情報",
        "en": "Group information"
      },
      "writable": false,
      "observable": false,
      "schema": {
        "oneOf": [
          {
            "type": "number",
            "minimum": 1,
            "maximum": 253
          },
          {
            "type": "string",
            "enum": [
              "noSetting"
            ],
            "values": [
              {
                "value": "noSetting",
                "descriptions": {
                  "ja": "設定なし",
                  "en": "No setting"
                },
                "edt": "0x00"
              }
            ]
          }
        ]
      }
    },
    "powerConsumption": {
      "epc": "0xDB",
      "descriptions": {
        "ja": "室内機消費電力範囲",
        "en": "Power consumption range for indoor units"
      },
      "writable": false,
      "observable": false,
      "schema": {
        "type": "string",
        "enum": [
          "less50W",
          "less100W",
          "less150W",
          "less200W",
          "200WOrMore",
```


©2018-2022 ECHONET Consortium

```
            "undefined"
          ],
          "values": [
            {
              "value": "less50W",
              "descriptions": {
                "ja": "50W未満",
                "en": "Up to 50W"
              },
              "edt": "0x01"
            },
            {
              "value": "less100W",
              "descriptions": {
                "ja": "50W以上～100W未満",
                "en": "50W-100W"
              },
              "edt": "0x02"
            },
            {
              "value": "less150W",
              "descriptions": {
                "ja": "100W以上～150W未満",
                "en": "100W-150W"
              },
              "edt": "0x03"
            },
            {
              "value": "less200W",
              "descriptions": {
                "ja": "150W以上～200W未満",
                "en": "150W-200W"
              },
              "edt": "0x04"
            },
            {
              "value": "200WOrMore",
              "descriptions": {
                "ja": "200W以上",
                "en": "200W-"
              },
              "edt": "0x05"
            },
            {
              "value": "undefined",
              "descriptions": {
                "ja": "未定",
                "en": "Undefined"
              },
              "edt": "0x00"
            }
          ]
        }
      },
      "groupDeviceList": {
        "descriptions": {
          "ja": "グループ内デバイスリスト",
          "en": "List of devices in group"
        },
        "writable": false,
        "observable": false,
```


©2018-2022 ECHONET Consortium

```
        "schema": {
          "type": "array",
          "items": {
            "type": "object",
            "properties": {
              "deviceId": {
                "type": "string"
              },
              "deviceType": {
                "type": "string"
              }
            }
          }
        },
        "note": {
          "ja": "WebAPIの'devices'で管理されている機器のIDおよびその'deviceType'を記述",
          "en": "Describe the ID of the device managed in 'devices' of WebAPI and its
'deviceType'."
        }
      }
    }
  }
```


©2018-2022 ECHONET Consortium

Package-type commercial air conditioner (outdoor unit): commercialAirConditionerOutdoorUnit: 0x0157

Back to the List of Devices

Properties

Property Resource Name	Access Method	Data Type	EPC (EL)	Property name (EL)	Note
specialState	GET	boolean	0xAB	Special state	
ratedPowerConsumption	GET	object	0xB8	Rated power consumption of outdoor unit	
outdoorTemperature	GET	number, string	0xBE	Measured outdoor unit temperature	
groupInformation	GET	number, string	0xCA	Group information	
powerConsumption	GET	number	0xDB	Measured power consumption of outdoor unit	
powerConsumptionWillBeSaved	GET	number	0xDD	Possible power savings for outdoor units	
powerConsumptionLimit	GET, PUT	number, string	0xDE	Settings restricting power consumption of outdoor units	
restrictedMinimumPowerConsumption	GET	number	0xDF	Minimum power consumption for restricted outdoor unit	
groupDeviceList	GET	array	-	List of devices in group	*1

*1 Group information "groupDeviceList" describes the Ids of devices managed by Web API devices and their "deviceType".

Device Description

```
{
  "deviceType": "commercialAirConditionerOutdoorUnit",
  "metaData": {
    "version": "1.4.1"
  },
  "eoj": "0x0157",
  "descriptions": {
    "ja": "業務用パッケージエアコン室外機 (設備用を除く)",
    "en": "Package-type commercial air conditioner (outdoor unit)"
  },
  "properties": {
    "specialState": {
      "epc": "0xAB",
      "descriptions": {
```


©2018-2022 ECHONET Consortium

```
          "ja": "特殊状態",
          "en": "Special state"
        },
        "writable": false,
        "observable": false,
        "schema": {
          "type": "boolean",
          "values": [
            {
              "value": false,
              "descriptions": {
                "ja": "通常状態",
                "en": "Normal operation"
              },
              "edt": "0x40"
            },
            {
              "value": true,
              "descriptions": {
                "ja": "特殊状態",
                "en": "Special state"
              },
              "edt": "0x41"
            }
          ]
        }
      },
      "ratedPowerConsumption": {
        "epc": "0xB8",
        "descriptions": {
          "ja": "室外機定格消費電力値",
          "en": "Rated power consumption of outdoor unit"
        },
        "writable": false,
        "observable": false,
        "schema": {
          "type": "object",
          "properties": {
            "cooling": {
              "descriptions": {
                "ja": "冷房",
                "en": "Cooling"
              },
              "oneOf": [
                {
                  "type": "number",
                  "unit": "W",
                  "minimum": 0,
                  "maximum": 4294967293
                },
                {
                  "type": "string",
                  "enum": [
                    "unsupported"
                  ],
                  "values": [
                    {
                      "value": "unsupported",
                      "descriptions": {
                        "ja": "未サポート",
                        "en": "Unsupported"
```


©2018-2022 ECHONET Consortium

```
                    },
                    "edt": "0xFFFFFFFE"
                  }
                ]
              }
            ]
          },
          "heating": {
            "descriptions": {
              "ja": "暖房",
              "en": "Heating"
            },
            "oneOf": [
              {
                "type": "number",
                "unit": "W",
                "minimum": 0,
                "maximum": 4294967293
              },
              {
                "type": "string",
                "enum": [
                  "unsupported"
                ],
                "values": [
                  {
                    "value": "unsupported",
                    "descriptions": {
                      "ja": "未サポート",
                      "en": "Unsupported"
                    },
                    "edt": "0xFFFFFFFE"
                  }
                ]
              }
            ]
          }
        }
      }
    },
    "outdoorTemperature": {
      "epc": "0xBE",
      "descriptions": {
        "ja": "室外機温度計測値",
        "en": "Measured outdoor unit temperature"
      },
      "writable": false,
      "observable": false,
      "schema": {
        "oneOf": [
          {
            "type": "number",
            "unit": "Celsius",
            "minimum": -127,
            "maximum": 125
          },
          {
            "type": "string",
            "enum": [
              "unmeasurable"
            ],
```


©2018-2022 ECHONET Consortium

```
              "values": [
                {
                  "value": "unmeasurable",
                  "descriptions": {
                    "ja": "計測値を返せない",
                    "en": "When the measurement value cannot be returned"
                  },
                  "edt": "0x7E"
                }
              ]
            }
          ]
        }
      },
      "groupInformation": {
        "epc": "0xCA",
        "descriptions": {
          "ja": "グループ情報",
          "en": "Group information"
        },
        "writable": false,
        "observable": false,
        "schema": {
          "oneOf": [
            {
              "type": "number",
              "minimum": 1,
              "maximum": 253
            },
            {
              "type": "string",
              "enum": [
                "noSetting"
              ],
              "values": [
                {
                  "value": "noSetting",
                  "descriptions": {
                    "ja": "設定なし",
                    "en": "No setting"
                  },
                  "edt": "0x00"
                }
              ]
            }
          ]
        }
      },
      "powerConsumption": {
        "epc": "0xDB",
        "descriptions": {
          "ja": "室外機消費電力計測値",
          "en": "Measured power consumption of outdoor unit"
        },
        "writable": false,
        "observable": false,
        "schema": {
          "type": "number",
          "unit": "W",
          "minimum": 0,
          "maximum": 4294967293
```


©2018-2022 ECHONET Consortium

```
      }
    },
    "powerConsumptionWillBeSaved": {
      "epc": "0xDD",
      "descriptions": {
        "ja": "室外機節電可能消費電力",
        "en": "Possible power savings for outdoor units"
      },
      "writable": false,
      "observable": false,
      "schema": {
        "type": "number",
        "unit": "W",
        "minimum": 0,
        "maximum": 4294967293
      }
    },
    "powerConsumptionLimit": {
      "epc": "0xDE",
      "descriptions": {
        "ja": "室外機消費電力制限設定",
        "en": "Settings restricting power consumption of outdoor units"
      },
      "writable": true,
      "observable": false,
      "schema": {
        "oneOf": [
          {
            "type": "number",
            "unit": "W",
            "minimum": 1,
            "maximum": 4294967293
          },
          {
            "type": "string",
            "enum": [
              "canceling"
            ],
            "values": [
              {
                "value": "canceling",
                "descriptions": {
                  "ja": "電力制限解除",
                  "en": "Canceling the restriction"
                },
                "edt": "0x00000000"
              }
            ]
          }
        ]
      }
    },
    "restrictedMinimumPowerConsumption": {
      "epc": "0xDF",
      "descriptions": {
        "ja": "室外機抑制最低消費電力",
        "en": "Minimum power consumption for restricted outdoor unit"
      },
      "writable": false,
      "observable": false,
      "schema": {
```


©2018-2022 ECHONET Consortium

```
          "type": "number",
          "unit": "W",
          "minimum": 0,
          "maximum": 4294967293
        }
      },
      "groupDeviceList": {
        "descriptions": {
          "ja": "グループ内デバイスリスト",
          "en": "List of devices in group"
        },
        "writable": false,
        "observable": false,
        "schema": {
          "type": "array",
          "items": {
            "type": "object",
            "properties": {
              "deviceId": {
                "type": "string"
              },
              "deviceType": {
                "type": "string"
              }
            }
          }
        },
        "note": {
          "ja": "WebAPIの'devices'で管理されている機器のIDおよびその'deviceType'を記述",
          "en": "Describe the ID of the device managed in 'devices' of WebAPI and its
'deviceType'."
        }
      }
    }
  }
```


©2018-2022 ECHONET Consortium

Electrically operated rain sliding door/shutter: electricRainDoor: 0x0263

Back to the List of Devices

Properties

Property Resource Name	Access Method	Data Type	EPC (EL)	Property name (EL)	Note
faultDescription	GET	string	0x89	Fault description (Recoverable faults)	
timerOperationMode	GET, PUT	boolean	0x90	Timer operation setting	
openingSpeed	GET, PUT	string	0xD0	Opening speed setting	
closingSpeed	GET, PUT	string	0xD1	Closing speed setting	
operationTime	GET, PUT	number	0xD2	Operation time	
openCloseOperation	GET, PUT	string	0xE0	Open/close operation setting	
degreeOfOpening	GET, PUT	number	0xE1	Degree-of-opening setting	
blindAngle	GET, PUT	number	0xE2	Blind angle setting	
openCloseSpeed	GET, PUT	string	0xE3	Opening/closing speed setting	
electricLock	GET, PUT	boolean	0xE5	Electric lock setting	
remoteOperation	GET	boolean	0xE8	Remote operation setting status	
selectiveDegreeOfOpening	GET, PUT	string	0xE9	Selective degree-of-opening setting	
openCloseStatus	GET	string	0xEA	Open/closed status	
slitDegreeOfOpening	GET, PUT	number	0xED	Slit degree-of-opening	
oneTimeOpeningSpeed	GET, PUT	string	0xEE	One-time opening speed setting	
oneTimeClosingSpeed	GET, PUT	string	0xEF	One-time closing speed setting	

Device Description

```
{
  "deviceType": "electricRainDoor",
  "metaData": {
    "version": "1.3.0"
  },
  "eoj": "0x0263",
  "descriptions": {
    "ja": "電動雨戸・シャッター",
    "en": "Electrically operated rain sliding door/shutter"
  },
  "properties": {
```


©2018-2022 ECHONET Consortium

```
    "faultDescription": {
      "epc": "0x89",
      "descriptions": {
        "ja": "異常内容(復帰可能な異常)",
        "en": "Fault description (Recoverable faults)"
      },
      "writable": false,
      "observable": true,
      "schema": {
        "type": "string",
        "enum": [
          "obstacleCaught",
          "outageRecovery",
          "timeOut",
          "batteryLow"
        ],
        "values": [
          {
            "value": "obstacleCaught",
            "descriptions": {
              "ja": "障害物挟込み",
              "en": "Obstacle caught"
            },
            "edt": "0x0402"
          },
          {
            "value": "outageRecovery",
            "descriptions": {
              "ja": "停電復帰",
              "en": "Recovery from outage"
            },
            "edt": "0x0502"
          },
          {
            "value": "timeOut",
            "descriptions": {
              "ja": "タイムアウト",
              "en": "Time out"
            },
            "edt": "0x0602"
          },
          {
            "value": "batteryLow",
            "descriptions": {
              "ja": "電池残量低下",
              "en": "Battery low"
            },
            "edt": "0x0702"
          }
        ]
      },
      "note": {
        "ja": "下位1バイトは、スーパークラスのリセットボタンを押し再操作(0x02)固定。上位1バイトは、復帰可能な異常内容を小分類まで定義。0x45～0xFFはユーザ定義",
        "en": "Lower-order one byte: Restarting the device by performing a reset operation = 0x02. Higher-order one byte: The detailed fault classification. 0x45 to 0xFF are defined by user."
      }
    },
    "timerOperationMode": {
      "epc": "0x90",
```


©2018-2022 ECHONET Consortium

```
        "descriptions": {
          "ja": "タイマ動作設定",
          "en": "Timer operation setting"
        },
        "writable": true,
        "observable": true,
        "schema": {
          "type": "boolean",
          "values": [
            {
              "value": true,
              "descriptions": {
                "ja": "ON",
                "en": "ON"
              },
              "edt": "0x41"
            },
            {
              "value": false,
              "descriptions": {
                "ja": "OFF",
                "en": "OFF"
              },
              "edt": "0x42"
            }
          ]
        }
      },
      "openingSpeed": {
        "epc": "0xD0",
        "descriptions": {
          "ja": "開速度設定",
          "en": "Opening speed setting"
        },
        "writable": true,
        "observable": false,
        "schema": {
          "type": "string",
          "enum": [
            "low",
            "medium",
            "high"
          ],
          "values": [
            {
              "value": "low",
              "descriptions": {
                "ja": "低",
                "en": "Low"
              },
              "edt": "0x41"
            },
            {
              "value": "medium",
              "descriptions": {
                "ja": "中",
                "en": "Medium"
              },
              "edt": "0x42"
            },
            {
```


©2018-2022 ECHONET Consortium

```
                "value": "high",
                "descriptions": {
                  "ja": "高",
                  "en": "High"
                },
                "edt": "0x43"
              }
            ]
          }
        },
        "closingSpeed": {
          "epc": "0xD1",
          "descriptions": {
            "ja": "閉速度設定",
            "en": "Closing speed setting"
          },
          "writable": true,
          "observable": false,
          "schema": {
            "type": "string",
            "enum": [
              "low",
              "medium",
              "high"
            ],
            "values": [
              {
                "value": "low",
                "descriptions": {
                  "ja": "低",
                  "en": "Low"
                },
                "edt": "0x41"
              },
              {
                "value": "medium",
                "descriptions": {
                  "ja": "中",
                  "en": "Medium"
                },
                "edt": "0x42"
              },
              {
                "value": "high",
                "descriptions": {
                  "ja": "高",
                  "en": "High"
                },
                "edt": "0x43"
              }
            ]
          }
        },
        "operationTime": {
          "epc": "0xD2",
          "descriptions": {
            "ja": "動作時間設定値",
            "en": "Operation time"
          },
          "writable": true,
          "observable": false,
```


©2018-2022 ECHONET Consortium

```
        "schema": {
          "type": "number",
          "unit": "second",
          "minimum": 0,
          "maximum": 253
        }
      },
      "openCloseOperation": {
        "epc": "0xE0",
        "descriptions": {
          "ja": "開閉動作設定",
          "en": "Open/close operation setting"
        },
        "writable": true,
        "observable": true,
        "schema": {
          "type": "string",
          "enum": [
            "open",
            "close",
            "stop"
          ],
          "values": [
            {
              "value": "open",
              "descriptions": {
                "ja": "開",
                "en": "Open"
              },
              "edt": "0x41"
            },
            {
              "value": "close",
              "descriptions": {
                "ja": "閉",
                "en": "Close"
              },
              "edt": "0x42"
            },
            {
              "value": "stop",
              "descriptions": {
                "ja": "停止",
                "en": "Stop"
              },
              "edt": "0x43"
            }
          ]
        }
      },
      "degreeOfOpening": {
        "epc": "0xE1",
        "descriptions": {
          "ja": "開度レベル設定",
          "en": "Degree-of-opening setting"
        },
        "writable": true,
        "observable": false,
        "schema": {
          "type": "number",
          "unit": "%",
```


©2018-2022 ECHONET Consortium

```
          "minimum": 0,
          "maximum": 100
        }
      },
      "blindAngle": {
        "epc": "0xE2",
        "descriptions": {
          "ja": "ブラインド角度設定値",
          "en": "Blind angle setting"
        },
        "writable": true,
        "observable": false,
        "schema": {
          "type": "number",
          "unit": "degree",
          "minimum": 0,
          "maximum": 180
        }
      },
      "openCloseSpeed": {
        "epc": "0xE3",
        "descriptions": {
          "ja": "開閉速度設定",
          "en": "Opening/closing speed setting"
        },
        "writable": true,
        "observable": false,
        "schema": {
          "type": "string",
          "enum": [
            "low",
            "medium",
            "high"
          ],
          "values": [
            {
              "value": "low",
              "descriptions": {
                "ja": "低",
                "en": "Low"
              },
              "edt": "0x41"
            },
            {
              "value": "medium",
              "descriptions": {
                "ja": "中",
                "en": "Medium"
              },
              "edt": "0x42"
            },
            {
              "value": "high",
              "descriptions": {
                "ja": "高",
                "en": "High"
              },
              "edt": "0x43"
            }
          ]
        }
```


©2018-2022 ECHONET Consortium

```
      },
      "electricLock": {
        "epc": "0xE5",
        "descriptions": {
          "ja": "電気錠設定",
          "en": "Electric lock setting"
        },
        "writable": true,
        "observable": false,
        "schema": {
          "type": "boolean",
          "values": [
            {
              "value": true,
              "descriptions": {
                "ja": "施錠",
                "en": "Lock"
              },
              "edt": "0x41"
            },
            {
              "value": false,
              "descriptions": {
                "ja": "解錠",
                "en": "Unlock"
              },
              "edt": "0x42"
            }
          ]
        }
      },
      "remoteOperation": {
        "epc": "0xE8",
        "descriptions": {
          "ja": "遠隔操作設定状態",
          "en": "Remote operation setting status"
        },
        "writable": false,
        "observable": true,
        "schema": {
          "type": "boolean",
          "values": [
            {
              "value": true,
              "descriptions": {
                "ja": "ON (許可)",
                "en": "ON (permitted)"
              },
              "edt": "0x41"
            },
            {
              "value": false,
              "descriptions": {
                "ja": "OFF (禁止)",
                "en": "OFF (prohibited)"
              },
              "edt": "0x42"
            }
          ]
        }
      },
```


©2018-2022 ECHONET Consortium

```
      "selectiveDegreeOfOpening": {
        "epc": "0xE9",
        "descriptions": {
          "ja": "選択開度動作設定",
          "en": "Selective degree-of-opening setting"
        },
        "writable": true,
        "observable": true,
        "schema": {
          "type": "string",
          "enum": [
            "degreeOfOpening",
            "operationTimeOfOpening",
            "operationTimeOfClosing",
            "localSetting",
            "slitDegreeOfOpening"
          ],
          "values": [
            {
              "value": "degreeOfOpening",
              "descriptions": {
                "ja": "開度レベル設定位置開",
                "en": "Degree-of-opening setting position: Open"
              },
              "edt": "0x41"
            },
            {
              "value": "operationTimeOfOpening",
              "descriptions": {
                "ja": "動作時間設定値開",
                "en": "Operation time setting value: Open"
              },
              "edt": "0x42"
            },
            {
              "value": "operationTimeOfClosing",
              "descriptions": {
                "ja": "動作時間設定値閉",
                "en": "Operation time setting value: Close"
              },
              "edt": "0x43"
            },
            {
              "value": "localSetting",
              "descriptions": {
                "ja": "ローカル設定位置",
                "en": "Local setting position"
              },
              "edt": "0x44"
            },
            {
              "value": "slitDegreeOfOpening",
              "descriptions": {
                "ja": "スリット開度設定",
                "en": "Slit degree-of-opening setting"
              },
              "edt": "0x45"
            }
          ]
        },
        "note": {
```


©2018-2022 ECHONET Consortium

```
          "ja": "0x46以降はユーザ定義(開度レベル設定のショートカットなど)",
          "en": "0x46 to 0xFF are defined by user. (Shortcut to degree-of-opening setting,
etc.)"
        }
      },
      "openCloseStatus": {
        "epc": "0xEA",
        "descriptions": {
          "ja": "開閉状態",
          "en": "Open/closed status"
        },
        "writable": false,
        "observable": true,
        "schema": {
          "type": "string",
          "enum": [
            "fullyOpen",
            "fullyClosed",
            "opening",
            "closing",
            "stoppedHalfway"
          ],
          "values": [
            {
              "value": "fullyOpen",
              "descriptions": {
                "ja": "全開",
                "en": "Fully open"
              },
              "edt": "0x41"
            },
            {
              "value": "fullyClosed",
              "descriptions": {
                "ja": "全閉",
                "en": "Fully closed"
              },
              "edt": "0x42"
            },
            {
              "value": "opening",
              "descriptions": {
                "ja": "開動作中",
                "en": "Opening"
              },
              "edt": "0x43"
            },
            {
              "value": "closing",
              "descriptions": {
                "ja": "閉動作中",
                "en": "Closing"
              },
              "edt": "0x44"
            },
            {
              "value": "stoppedHalfway",
              "descriptions": {
                "ja": "途中停止",
                "en": "Stopped halfway"
              },
```


©2018-2022 ECHONET Consortium

```
              "edt": "0x45"
            }
          ]
        }
      },
      "slitDegreeOfOpening": {
        "epc": "0xED",
        "descriptions": {
          "ja": "スリット開度設定",
          "en": "Slit degree-of-opening"
        },
        "writable": true,
        "observable": false,
        "schema": {
          "type": "number",
          "minimum": 1,
          "maximum": 8,
          "multipleOf": 1
        },
        "note": {
          "ja": "開度レベルを8段階で指定。1が最も開状態、8が最も閉状態(全閉ではない)",
          "en": "Used to specify the degree-of-opening by 8 levels. The property value is 1 for
the most open status and 8 for the most closed status (not fully closed)."
        }
      },
      "oneTimeOpeningSpeed": {
        "epc": "0xEE",
        "descriptions": {
          "ja": "ワンタイム開速度設定",
          "en": "One-time opening speed setting"
        },
        "writable": true,
        "observable": false,
        "schema": {
          "type": "string",
          "enum": [
            "low",
            "medium",
            "high",
            "none"
          ],
          "values": [
            {
              "value": "low",
              "descriptions": {
                "ja": "低",
                "en": "Low"
              },
              "edt": "0x41"
            },
            {
              "value": "medium",
              "descriptions": {
                "ja": "中",
                "en": "Medium"
              },
              "edt": "0x42"
            },
            {
              "value": "high",
              "descriptions": {
```


©2018-2022 ECHONET Consortium

```
                "ja": "高",
                "en": "High"
              },
              "edt": "0x43"
            },
            {
              "value": "none",
              "descriptions": {
                "ja": "無し",
                "en": "None"
              },
              "edt": "0x44"
            }
          ]
        }
      },
      "oneTimeClosingSpeed": {
        "epc": "0xEF",
        "descriptions": {
          "ja": "ワンタイム閉速度設定",
          "en": "One-time closing speed setting"
        },
        "writable": true,
        "observable": false,
        "schema": {
          "type": "string",
          "enum": [
            "low",
            "medium",
            "high",
            "none"
          ],
          "values": [
            {
              "value": "low",
              "descriptions": {
                "ja": "低",
                "en": "Low"
              },
              "edt": "0x41"
            },
            {
              "value": "medium",
              "descriptions": {
                "ja": "中",
                "en": "Medium"
              },
              "edt": "0x42"
            },
            {
              "value": "high",
              "descriptions": {
                "ja": "高",
                "en": "High"
              },
              "edt": "0x43"
            },
            {
              "value": "none",
              "descriptions": {
                "ja": "無し",
```


©2018-2022 ECHONET Consortium

```
                "en": "None"
              },
              "edt": "0x44"
            }
          ]
        }
      }
    }
  }
```


©2018-2022 ECHONET Consortium

Electric water heater: electricWaterHeater: 0x026B

Back to the List of Devices

Properties

Property Resource Name	Access Method	Data Type	EPC (EL)	Property name (EL)	Note
onTimerReservation	GET, PUT	boolean	0x90	ON timer setting	
onTimerTime	GET, PUT	string	0x91	ON timer setting	
automaticWaterHeating	GET, PUT	string	0xB0	Automatic water heating setting	
automaticWaterHeatingTemperatureControl	GET, PUT	boolean	0xB1	Automatic water temperature control setting	
waterHeatingStatus	GET	boolean	0xB2	Water heater status	
targetWaterHeatingTemperature	GET, PUT	number, string	0xB3	Water heating temperature setting	
heatingStopDays	GET, PUT	number, string	0xB4	Manual water heating stop days setting	
relativeTimeHeatingOff	GET, PUT	string	0xB5	Relative time setting value for manual water heating OFF	
tankOperationMode	GET, PUT	string	0xB6	Tank operation mode setting	
daytimeReheatingPermission	GET, PUT	boolean	0xC0	Daytime reheating permission setting	
tankWaterTemperature	GET	number	0xC1	Measured temperature of water in water heater	
alarmStatus	GET	object	0xC2	Alarm status	
hotWaterSupplyStatus	GET	boolean	0xC3	Hot water supply status	
relativeTimeKeepingTemperature	GET, PUT	string	0xC4	Relative time setting for keeping bath temperature	
energyShiftParticipation	GET, PUT	boolean	0xC7	Participation in energy shift	

©2018-2022 ECHONET Consortium

Property Resource Name	Access Method	Data Type	EPC (EL)	Property name (EL)	Note
standardTimeToStartHeating	GET	number	0xC8	Standard time to start heating	
numberOfEnergyShifts	GET	number	0xC9	Number of energy shifts	
waterHeatingShiftTime1	GET, PUT	string, string	0xCA	Daytime heating shift time 1	
estimatedElectricEnergyAtShiftTime1	GET	object	0xCB	Expected electric energy at daytime heating shift time 1	
electricEnergyConsumptionRate1	GET	object	0xCC	Consumption of electric energy per hour 1	
waterHeatingShiftTime2	GET, PUT	string, string	0xCD	Daytime heating shift time 2	
estimatedElectricEnergyAtShiftTime2	GET	object	0xCE	Expected electric energy at daytime heating shift time 2	
electricEnergyConsumptionRate2	GET	object	0xCF	Consumption of electric energy per hour 2	
targetSuppliedWaterTemperature	GET, PUT	number	0xD1	Temperature of supplied water setting	
targetBathWaterTemperature	GET, PUT	number	0xD3	Bath water temperature setting	
bathWaterVolume4	GET, PUT	number	0xD4	Bath water volume setting4	
maximumAllowableWaterVolume4	GET	number	0xD5	Bath water volume setting4 maximum settable level	
volume	GET, PUT	number	0xD6	Volume setting	
mute	GET, PUT	boolean	0xD7	Mute setting	
remainingWaterVolume	GET	number	0xD8	Remaining hot water volume	
surplusPowerPrediction	GET, PUT	object	0xD9	Surplus electric energy power prediction value	

©2018-2022 ECHONET Consortium

Property Resource Name	Access Method	Data Type	EPC (EL)	Property name (EL)	Note
winterRatedPower	GET	number	0xDB	Rated power consumption of H/P unit in wintertime	
betweenSeasonRatedPower	GET	number	0xDC	Rated power consumption of H/P unit in in-between seasons	
summerRatedPower	GET	number	0xDD	Rated power consumption of H/P unit in summertime	
targetWaterHeatingVolume	GET, PUT	number	0xE0	Bath water volume setting	
remainingWater	GET	number	0xE1	Measured amount of water remaining in tank	
tankCapacity	GET	number	0xE2	Tank capacity	
automaticBathOperation	GET, PUT	boolean	0xE3	Automatic Bath Water Heating Mode Setting	
bathReheatingOperation	GET, PUT	boolean	0xE4	Manual bath reheating operation setting	
bathHotWaterAddition	GET, PUT	boolean	0xE5	Manual bath hot water addition function setting	
bathLukewarmWaterFunction	GET, PUT	boolean	0xE6	Manual lukewarm water temperature lowering function setting.	
bathWaterVolume1	GET, PUT	number	0xE7	Bath water volume setting 1	
bathWaterVolume2	GET, PUT	number	0xE8	Bath water volume setting 2	
bathroomPriority	GET	boolean	0xE9	Bathroom priority setting	
bathOperationStatusMonitor	GET	string	0xEA	Bath Operation Status Monitor	
bathWaterVolume3	GET, PUT	number	0xEE	Bath water volume setting 3	

©2018-2022 ECHONET Consortium

Device Description


```
{
  "deviceType": "electricWaterHeater",
  "metaData": {
    "version": "1.4.0"
  },
  "eoj": "0x026B",
  "descriptions": {
    "ja": "電気温水器",
    "en": "Electric water heater"
  },
  "properties": {
    "onTimerReservation": {
      "epc": "0x90",
      "descriptions": {
        "ja": "ONタイマ予約設定",
        "en": "ON timer setting"
      },
      "writable": true,
      "observable": false,
      "schema": {
        "type": "boolean",
        "values": [
          {
            "value": true,
            "descriptions": {
              "ja": "予約入",
              "en": "Reservation ON"
            },
            "edt": "0x41"
          },
          {
            "value": false,
            "descriptions": {
              "ja": "予約切",
              "en": "Reservation OFF"
            },
            "edt": "0x42"
          }
        ]
      }
    },
    "onTimerTime": {
      "epc": "0x91",
      "descriptions": {
        "ja": "ONタイマ時刻設定値",
        "en": "ON timer setting"
      },
      "writable": true,
      "observable": false,
      "schema": {
        "type": "string",
        "format": "time"
      },
      "note": {
        "ja": "秒の指定は無視される",
        "en": "Number of seconds is ignored."
      }
    },
```


©2018-2022 ECHONET Consortium

```
      "automaticWaterHeating": {
        "epc": "0xB0",
        "descriptions": {
          "ja": "沸き上げ自動設定",
          "en": "Automatic water heating setting"
        },
        "writable": true,
        "observable": true,
        "schema": {
          "type": "string",
          "enum": [
            "auto",
            "manualNoHeating",
            "manualHeating"
          ],
          "values": [
            {
              "value": "auto",
              "descriptions": {
                "ja": "自動沸き上げ",
                "en": "Automatic water heating function used"
              },
              "edt": "0x41"
            },
            {
              "value": "manualNoHeating",
              "descriptions": {
                "ja": "手動沸き上げ停止",
                "en": "Non-automatic water heating function stopped"
              },
              "edt": "0x43"
            },
            {
              "value": "manualHeating",
              "descriptions": {
                "ja": "手動沸き上げ",
                "en": "Non-automatic water heating function used"
              },
              "edt": "0x42"
            }
          ]
        }
      },
      "automaticWaterHeatingTemperatureControl": {
        "epc": "0xB1",
        "descriptions": {
          "ja": "沸き上げ湯温自動設定",
          "en": "Automatic water temperature control setting"
        },
        "writable": true,
        "observable": false,
        "schema": {
          "type": "boolean",
          "values": [
            {
              "value": true,
              "descriptions": {
                "ja": "Auto",
                "en": "Automatic water temperature control function used"
              },
              "edt": "0x41"
```


©2018-2022 ECHONET Consortium

```
            },
            {
              "value": false,
              "descriptions": {
                "ja": "非Auto",
                "en": "Automatic water temperature control function not used"
              },
              "edt": "0x42"
            }
          ]
        }
      },
      "waterHeatingStatus": {
        "epc": "0xB2",
        "descriptions": {
          "ja": "沸き上げ中状態",
          "en": "Water heater status"
        },
        "writable": false,
        "observable": true,
        "schema": {
          "type": "boolean",
          "values": [
            {
              "value": true,
              "descriptions": {
                "ja": "沸き上げ中",
                "en": "Heating"
              },
              "edt": "0x41"
            },
            {
              "value": false,
              "descriptions": {
                "ja": "非沸き上げ中",
                "en": "Not heating"
              },
              "edt": "0x42"
            }
          ]
        }
      },
      "targetWaterHeatingTemperature": {
        "epc": "0xB3",
        "descriptions": {
          "ja": "沸き上げ湯温設定値",
          "en": "Water heating temperature setting"
        },
        "writable": true,
        "observable": false,
        "schema": {
          "oneOf": [
            {
              "type": "number",
              "unit": "Celsius",
              "minimum": 0,
              "maximum": 100
            },
            {
              "type": "string",
              "enum": [
```


©2018-2022 ECHONET Consortium

```
                "undefined"
              ],
              "values": [
                {
                  "value": "undefined",
                  "descriptions": {
                    "ja": "不明",
                    "en": "Undefined"
                  },
                  "edt": "0xFD"
                }
              ]
            }
          ]
        }
      },
      "heatingStopDays": {
        "epc": "0xB4",
        "descriptions": {
          "ja": "手動沸き上げ停止日数設定値",
          "en": "Manual water heating stop days setting"
        },
        "writable": true,
        "observable": false,
        "schema": {
          "oneOf": [
            {
              "type": "number",
              "unit": "days",
              "minimum": 0,
              "maximum": 252
            },
            {
              "type": "string",
              "enum": [
                "infinite"
              ],
              "values": [
                {
                  "value": "infinite",
                  "descriptions": {
                    "ja": "無限",
                    "en": "No time limit"
                  },
                  "edt": "0xFD"
                }
              ]
            }
          ]
        }
      },
      "relativeTimeHeatingOff": {
        "epc": "0xB5",
        "descriptions": {
          "ja": "手動沸き上げOFFタイマ相対時間設定値",
          "en": "Relative time setting value for manual water heating OFF"
        },
        "writable": true,
        "observable": false,
        "schema": {
          "type": "string",
```


©2018-2022 ECHONET Consortium

```
          "format": "time"
        },
        "note": {
          "ja": "秒の指定は無視される",
          "en": "Number of seconds is ignored."
        }
      },
      "tankOperationMode": {
        "epc": "0xB6",
        "descriptions": {
          "ja": "タンク運転モード設定",
          "en": "Tank operation mode setting"
        },
        "writable": true,
        "observable": false,
        "schema": {
          "type": "string",
          "enum": [
            "standard",
            "saving",
            "extra"
          ],
          "values": [
            {
              "value": "standard",
              "descriptions": {
                "ja": "標準",
                "en": "Standard"
              },
              "edt": "0x41"
            },
            {
              "value": "saving",
              "descriptions": {
                "ja": "節約",
                "en": "Saving"
              },
              "edt": "0x42"
            },
            {
              "value": "extra",
              "descriptions": {
                "ja": "多め",
                "en": "Extra"
              },
              "edt": "0x43"
            }
          ]
        }
      },
      "daytimeReheatingPermission": {
        "epc": "0xC0",
        "descriptions": {
          "ja": "昼間沸き増し許可設定",
          "en": "Daytime reheating permission setting"
        },
        "writable": true,
        "observable": false,
        "schema": {
          "type": "boolean",
          "values": [
```


©2018-2022 ECHONET Consortium

```
            {
              "value": true,
              "descriptions": {
                "ja": "昼間沸き増し許可",
                "en": "Daytime reheating permitted"
              },
              "edt": "0x41"
            },
            {
              "value": false,
              "descriptions": {
                "ja": "昼間沸き増し禁止",
                "en": "Daytime reheating not permitted"
              },
              "edt": "0x42"
            }
          ]
        }
      },
      "tankWaterTemperature": {
        "epc": "0xC1",
        "descriptions": {
          "ja": "温水器湯温計測値",
          "en": "Measured temperature of water in water heater"
        },
        "writable": false,
        "observable": false,
        "schema": {
          "type": "number",
          "unit": "Celsius",
          "minimum": 0,
          "maximum": 100
        }
      },
      "alarmStatus": {
        "epc": "0xC2",
        "descriptions": {
          "ja": "警報発生状態",
          "en": "Alarm status"
        },
        "writable": false,
        "observable": true,
        "schema": {
          "type": "object",
          "properties": {
            "noHotWater": {
              "descriptions": {
                "ja": "湯切れ警報",
                "en": "No Hot Water"
              },
              "type": "boolean",
              "values": [
                {
                  "value": false,
                  "descriptions": {
                    "ja": "発生",
                    "en": "Alarm"
                  },
                  "edt": "0x01"
                },
                {
```


©2018-2022 ECHONET Consortium

```
                "value": true,
                "descriptions": {
                  "ja": "正常",
                  "en": "No Alarm"
                },
                "edt": "0x00"
              }
            ]
          },
          "leaking": {
            "descriptions": {
              "ja": "漏水警報",
              "en": "Leaking"
            },
            "type": "boolean",
            "values": [
              {
                "value": false,
                "descriptions": {
                  "ja": "発生",
                  "en": "Alarm"
                },
                "edt": "0x01"
              },
              {
                "value": true,
                "descriptions": {
                  "ja": "正常",
                  "en": "No Alarm"
                },
                "edt": "0x00"
              }
            ]
          },
          "freezing": {
            "descriptions": {
              "ja": "凍結警報",
              "en": "Freezing"
            },
            "type": "boolean",
            "values": [
              {
                "value": false,
                "descriptions": {
                  "ja": "発生",
                  "en": "Alarm"
                },
                "edt": "0x01"
              },
              {
                "value": true,
                "descriptions": {
                  "ja": "正常",
                  "en": "No Alarm"
                },
                "edt": "0x00"
              }
            ]
          }
        }
      }
```


©2018-2022 ECHONET Consortium

```
      },
      "hotWaterSupplyStatus": {
        "epc": "0xC3",
        "descriptions": {
          "ja": "給湯中状態",
          "en": "Hot water supply status"
        },
        "writable": false,
        "observable": true,
        "schema": {
          "type": "boolean",
          "values": [
            {
              "value": true,
              "descriptions": {
                "ja": "給湯中",
                "en": "Supplying hot water"
              },
              "edt": "0x41"
            },
            {
              "value": false,
              "descriptions": {
                "ja": "非給湯中",
                "en": "Not supplying hot water"
              },
              "edt": "0x42"
            }
          ]
        }
      },
      "relativeTimeKeepingTemperature": {
        "epc": "0xC4",
        "descriptions": {
          "ja": "風呂保温運転相対時間設定値",
          "en": "Relative time setting for keeping bath temperature"
        },
        "writable": true,
        "observable": false,
        "schema": {
          "type": "string",
          "format": "time"
        },
        "note": {
          "ja": "秒の指定は無視される",
          "en": "Number of seconds is ignored."
        }
      },
      "energyShiftParticipation": {
        "epc": "0xC7",
        "descriptions": {
          "ja": "エネルギーシフト参加状態",
          "en": "Participation in energy shift"
        },
        "writable": true,
        "observable": false,
        "schema": {
          "type": "boolean",
          "values": [
            {
              "value": true,
```


©2018-2022 ECHONET Consortium

```
              "descriptions": {
                "ja": "参加",
                "en": "Participation"
              },
              "edt": "0x01"
            },
            {
              "value": false,
              "descriptions": {
                "ja": "不参加",
                "en": "Non Participation"
              },
              "edt": "0x00"
            }
          ]
        }
      },
      "standardTimeToStartHeating": {
        "epc": "0xC8",
        "descriptions": {
          "ja": "沸き上げ開始基準時刻",
          "en": "Standard time to start heating"
        },
        "writable": false,
        "observable": false,
        "schema": {
          "type": "number"
        },
        "note": {
          "ja": "20:00,21:00,22:00,23:00,24:00,01:00",
          "en": "20:00,21:00,22:00,23:00,24:00,01:00"
        }
      },
      "numberOfEnergyShifts": {
        "epc": "0xC9",
        "descriptions": {
          "ja": "エネルギーシフト回数",
          "en": "Number of energy shifts"
        },
        "writable": false,
        "observable": false,
        "schema": {
          "type": "number",
          "minimum": 1,
          "maximum": 2
        },
        "note": {
          "ja": "1回／2回(0x01、0x02)",
          "en": "Once/twice (0x01, 0x02)"
        }
      },
      "waterHeatingShiftTime1": {
        "epc": "0xCA",
        "descriptions": {
          "ja": "昼間沸き上げシフト時刻1",
          "en": "Daytime heating shift time 1"
        },
        "writable": true,
        "observable": false,
        "schema": {
          "oneOf": [
```


©2018-2022 ECHONET Consortium

```
            {
              "type": "string",
              "enum": [
                "at0900",
                "at1000",
                "at1100",
                "at1200",
                "at1300",
                "at1400",
                "at1500",
                "at1600",
                "at1700"
              ],
              "values": [
                {
                  "value": "at0900",
                  "descriptions": {
                    "ja": "9時",
                    "en": "09:00"
                  },
                  "edt": "0x09"
                },
                {
                  "value": "at1000",
                  "descriptions": {
                    "ja": "10時",
                    "en": "10:00"
                  },
                  "edt": "0x0A"
                },
                {
                  "value": "at1100",
                  "descriptions": {
                    "ja": "11時",
                    "en": "11:00"
                  },
                  "edt": "0x0B"
                },
                {
                  "value": "at1200",
                  "descriptions": {
                    "ja": "12時",
                    "en": "12:00"
                  },
                  "edt": "0x0C"
                },
                {
                  "value": "at1300",
                  "descriptions": {
                    "ja": "13時",
                    "en": "13:00"
                  },
                  "edt": "0x0D"
                },
                {
                  "value": "at1400",
                  "descriptions": {
                    "ja": "14時",
                    "en": "14:00"
                  },
                  "edt": "0x0E"
```


©2018-2022 ECHONET Consortium

```
                },
                {
                  "value": "at1500",
                  "descriptions": {
                    "ja": "15時",
                    "en": "15:00"
                  },
                  "edt": "0x0F"
                },
                {
                  "value": "at1600",
                  "descriptions": {
                    "ja": "16時",
                    "en": "16:00"
                  },
                  "edt": "0x10"
                },
                {
                  "value": "at1700",
                  "descriptions": {
                    "ja": "17時(エネルギーシフト回数が2回の場合はこの値無効になる)",
                    "en": "17:00 (this value is nullified if energy shifts occur twice.)"
                  },
                  "edt": "0x11"
                }
              ]
            },
            {
              "type": "string",
              "enum": [
                "cleared"
              ],
              "values": [
                {
                  "value": "cleared",
                  "descriptions": {
                    "ja": "クリア状態",
                    "en": "Undefined"
                  },
                  "edt": "0x00"
                }
              ]
            }
          ]
        }
      },
      "estimatedElectricEnergyAtShiftTime1": {
        "epc": "0xCB",
        "descriptions": {
          "ja": "昼間沸き上げシフト時刻1での沸き上げ予測電力量",
          "en": "Expected electric energy at daytime heating shift time 1"
        },
        "writable": false,
        "observable": false,
        "schema": {
          "type": "object",
          "properties": {
            "at1000": {
              "descriptions": {
                "ja": "10時",
                "en": "10:00"
```


©2018-2022 ECHONET Consortium

```
            },
            "type": "number",
            "unit": "Wh",
            "minimum": 0,
            "maximum": 4294967293
          },
          "at1300": {
            "descriptions": {
              "ja": "13時",
              "en": "13:00"
            },
            "type": "number",
            "unit": "Wh",
            "minimum": 0,
            "maximum": 4294967293
          },
          "at1500": {
            "descriptions": {
              "ja": "15時",
              "en": "15:00"
            },
            "type": "number",
            "unit": "Wh",
            "minimum": 0,
            "maximum": 4294967293
          },
          "at1700": {
            "descriptions": {
              "ja": "17時",
              "en": "17:00"
            },
            "type": "number",
            "unit": "Wh",
            "minimum": 0,
            "maximum": 4294967293
          }
        }
      }
    },
    "electricEnergyConsumptionRate1": {
      "epc": "0xCC",
      "descriptions": {
        "ja": "時間あたり消費電力量1",
        "en": "Consumption of electric energy per hour 1"
      },
      "writable": false,
      "observable": false,
      "schema": {
        "type": "object",
        "properties": {
          "at1000": {
            "descriptions": {
              "ja": "10時シフト時",
              "en": "10:00"
            },
            "type": "number",
            "unit": "Wh",
            "minimum": 0,
            "maximum": 65533
          },
          "at1300": {
```


©2018-2022 ECHONET Consortium

```
            "descriptions": {
              "ja": "13時シフト時",
              "en": "13:00"
            },
            "type": "number",
            "unit": "Wh",
            "minimum": 0,
            "maximum": 65533
          },
          "at1500": {
            "descriptions": {
              "ja": "15時シフト時",
              "en": "15:00"
            },
            "type": "number",
            "unit": "Wh",
            "minimum": 0,
            "maximum": 65533
          },
          "at1700": {
            "descriptions": {
              "ja": "17時シフト時",
              "en": "17:00"
            },
            "type": "number",
            "unit": "Wh",
            "minimum": 0,
            "maximum": 65533
          }
        }
      }
    },
    "waterHeatingShiftTime2": {
      "epc": "0xCD",
      "descriptions": {
        "ja": "昼間沸き上げシフト時刻2",
        "en": "Daytime heating shift time 2"
      },
      "writable": true,
      "observable": false,
      "schema": {
        "oneOf": [
          {
            "type": "string",
            "enum": [
              "at1000",
              "at1100",
              "at1200",
              "at1300",
              "at1400",
              "at1500",
              "at1600",
              "at1700"
            ],
            "values": [
              {
                "value": "at1000",
                "descriptions": {
                  "ja": "10時",
                  "en": "10:00"
                },
```


©2018-2022 ECHONET Consortium

```
                "edt": "0x0A"
              },
              {
                "value": "at1100",
                "descriptions": {
                  "ja": "11時",
                  "en": "11:00"
                },
                "edt": "0x0B"
              },
              {
                "value": "at1200",
                "descriptions": {
                  "ja": "12時",
                  "en": "12:00"
                },
                "edt": "0x0C"
              },
              {
                "value": "at1300",
                "descriptions": {
                  "ja": "13時",
                  "en": "13:00"
                },
                "edt": "0x0D"
              },
              {
                "value": "at1400",
                "descriptions": {
                  "ja": "14時",
                  "en": "14:00"
                },
                "edt": "0x0E"
              },
              {
                "value": "at1500",
                "descriptions": {
                  "ja": "15時",
                  "en": "15:00"
                },
                "edt": "0x0F"
              },
              {
                "value": "at1600",
                "descriptions": {
                  "ja": "16時",
                  "en": "16:00"
                },
                "edt": "0x10"
              },
              {
                "value": "at1700",
                "descriptions": {
                  "ja": "17時",
                  "en": "17:00"
                },
                "edt": "0x11"
              }
            ]
          },
          {
```


©2018-2022 ECHONET Consortium

```
              "type": "string",
              "enum": [
                "cleared"
              ],
              "values": [
                {
                  "value": "cleared",
                  "descriptions": {
                    "ja": "クリア状態",
                    "en": "Undefined"
                  },
                  "edt": "0x00"
                }
              ]
            }
          ]
        }
      },
      "estimatedElectricEnergyAtShiftTime2": {
        "epc": "0xCE",
        "descriptions": {
          "ja": "昼間沸き上げシフト時刻2での沸き上げ予測電力量",
          "en": "Expected electric energy at daytime heating shift time 2"
        },
        "writable": false,
        "observable": false,
        "schema": {
          "type": "object",
          "properties": {
            "at1300": {
              "descriptions": {
                "ja": "13時",
                "en": "13:00"
              },
              "type": "number",
              "unit": "Wh",
              "minimum": 0,
              "maximum": 4294967293
            },
            "at1500": {
              "descriptions": {
                "ja": "15時",
                "en": "15:00"
              },
              "type": "number",
              "unit": "Wh",
              "minimum": 0,
              "maximum": 4294967293
            },
            "at1700": {
              "descriptions": {
                "ja": "17時",
                "en": "17:00"
              },
              "type": "number",
              "unit": "Wh",
              "minimum": 0,
              "maximum": 4294967293
            }
          }
        }
```


©2018-2022 ECHONET Consortium

```
      },
      "electricEnergyConsumptionRate2": {
        "epc": "0xCF",
        "descriptions": {
          "ja": "時間あたり消費電力量2",
          "en": "Consumption of electric energy per hour 2"
        },
        "writable": false,
        "observable": false,
        "schema": {
          "type": "object",
          "properties": {
            "at1300": {
              "descriptions": {
                "ja": "13時シフト時",
                "en": "13:00"
              },
              "type": "number",
              "unit": "Wh",
              "minimum": 0,
              "maximum": 65533
            },
            "at1500": {
              "descriptions": {
                "ja": "15時シフト時",
                "en": "15:00"
              },
              "type": "number",
              "unit": "Wh",
              "minimum": 0,
              "maximum": 65533
            },
            "at1700": {
              "descriptions": {
                "ja": "17時シフト時",
                "en": "17:00"
              },
              "type": "number",
              "unit": "Wh",
              "minimum": 0,
              "maximum": 65533
            }
          }
        }
      },
      "targetSuppliedWaterTemperature": {
        "epc": "0xD1",
        "descriptions": {
          "ja": "給湯温度設定値",
          "en": "Temperature of supplied water setting"
        },
        "writable": true,
        "observable": false,
        "schema": {
          "type": "number",
          "unit": "Celsius",
          "minimum": 0,
          "maximum": 100
        }
      },
      "targetBathWaterTemperature": {
```


©2018-2022 ECHONET Consortium

```
        "epc": "0xD3",
        "descriptions": {
          "ja": "風呂温度設定値",
          "en": "Bath water temperature setting"
        },
        "writable": true,
        "observable": false,
        "schema": {
          "type": "number",
          "unit": "Celsius",
          "minimum": 0,
          "maximum": 100
        }
      },
      "bathWaterVolume4": {
        "epc": "0xD4",
        "descriptions": {
          "ja": "風呂湯量設定4",
          "en": "Bath water volume setting4"
        },
        "writable": true,
        "observable": false,
        "schema": {
          "type": "number",
          "minimum": 1,
          "maximum": 255
        },
        "note": {
          "ja": "設定可能なステップの最大値は「風呂湯量設定4設定可能最大レベル」で取得する",
          "en": "The maximum allowable step setting shall be acquired with the 'maximum
allowable water volume 4' property."
        }
      },
      "maximumAllowableWaterVolume4": {
        "epc": "0xD5",
        "descriptions": {
          "ja": "風呂湯量設定4設定可能最大レベル",
          "en": "Bath water volume setting4 maximum settable level"
        },
        "writable": false,
        "observable": false,
        "schema": {
          "type": "number",
          "minimum": 1,
          "maximum": 255
        }
      },
      "volume": {
        "epc": "0xD6",
        "descriptions": {
          "ja": "音量設定値",
          "en": "Volume setting"
        },
        "writable": true,
        "observable": false,
        "schema": {
          "type": "number",
          "unit": "%",
          "minimum": 0,
          "maximum": 100
        }
```


©2018-2022 ECHONET Consortium

```
      },
      "mute": {
        "epc": "0xD7",
        "descriptions": {
          "ja": "ミュート設定",
          "en": "Mute setting"
        },
        "writable": true,
        "observable": false,
        "schema": {
          "type": "boolean",
          "values": [
            {
              "value": true,
              "descriptions": {
                "ja": "ミュートON",
                "en": "Mute ON"
              },
              "edt": "0x30"
            },
            {
              "value": false,
              "descriptions": {
                "ja": "ミュートOFF",
                "en": "Mute OFF"
              },
              "edt": "0x31"
            }
          ]
        }
      },
      "remainingWaterVolume": {
        "epc": "0xD8",
        "descriptions": {
          "ja": "給湯可能湯量値",
          "en": "Remaining hot water volume"
        },
        "writable": false,
        "observable": false,
        "schema": {
          "type": "number",
          "unit": "L",
          "minimum": 0,
          "maximum": 65533
        }
      },
      "surplusPowerPrediction": {
        "epc": "0xD9",
        "descriptions": {
          "ja": "余剰電力量予測値",
          "en": "Surplus electric energy power prediction value"
        },
        "writable": true,
        "observable": false,
        "schema": {
          "type": "object",
          "properties": {
            "month": {
              "descriptions": {
                "ja": "基点日時：月",
                "en": "Base date and time: Month"
```


©2018-2022 ECHONET Consortium

```
            },
            "type": "number",
            "minimum": 1,
            "maximum": 12
          },
          "day": {
            "descriptions": {
              "ja": "基点日時：日",
              "en": "Base date and time: Day"
            },
            "type": "number",
            "minimum": 1,
            "maximum": 31
          },
          "hour": {
            "descriptions": {
              "ja": "基点日時：時",
              "en": "Base date and time: Hour"
            },
            "type": "number",
            "minimum": 0,
            "maximum": 23
          },
          "surplusEnergyPredictionValue": {
            "descriptions": {
              "ja": "１時間単位の余剰電力量予測値",
              "en": "Surplus power prediction value in units of 1 hour"
            },
            "type": "array",
            "minItems": 24,
            "maxItems": 24,
            "items": {
              "oneOf": [
                {
                  "type": "number",
                  "unit": "Wh",
                  "minimum": -327670,
                  "maximum": 327650,
                  "multipleOf": 10
                },
                {
                  "type": "string",
                  "enum": [
                    "invalid"
                  ],
                  "values": [
                    {
                      "value": "invalid",
                      "descriptions": {
                        "ja": "無効値",
                        "en": "Invalid data"
                      },
                      "edt": "0x8000"
                    }
                  ]
                }
              ]
            }
          }
        }
      },
```


©2018-2022 ECHONET Consortium

```
        "note": {
          "ja": "surplusEnergyPredictionValueの配列要素の値が-327680である要素は、無効値を意味する",
          "en": "If the value of an element of surplusEnergyPredictionValue is -327680, the
element means invalid value."
        }
      },
      "winterRatedPower": {
        "epc": "0xDB",
        "descriptions": {
          "ja": "冬季H/Pユニット定格消費電力",
          "en": "Rated power consumption of H/P unit in wintertime"
        },
        "writable": false,
        "observable": false,
        "schema": {
          "type": "number",
          "unit": "W",
          "minimum": 0,
          "maximum": 65533
        }
      },
      "betweenSeasonRatedPower": {
        "epc": "0xDC",
        "descriptions": {
          "ja": "中間期H/Pユニット定格消費電力",
          "en": "Rated power consumption of H/P unit in in-between seasons"
        },
        "writable": false,
        "observable": false,
        "schema": {
          "type": "number",
          "unit": "W",
          "minimum": 0,
          "maximum": 65533
        }
      },
      "summerRatedPower": {
        "epc": "0xDD",
        "descriptions": {
          "ja": "夏季H/Pユニット定格消費電力",
          "en": "Rated power consumption of H/P unit in summertime"
        },
        "writable": false,
        "observable": false,
        "schema": {
          "type": "number",
          "unit": "W",
          "minimum": 0,
          "maximum": 65533
        }
      },
      "targetWaterHeatingVolume": {
        "epc": "0xE0",
        "descriptions": {
          "ja": "沸き上げ湯量設定値",
          "en": "Bath water volume setting"
        },
        "writable": true,
        "observable": false,
        "schema": {
          "type": "number",
```


©2018-2022 ECHONET Consortium

```
          "unit": "%",
          "minimum": 0,
          "maximum": 100
        }
      },
      "remainingWater": {
        "epc": "0xE1",
        "descriptions": {
          "ja": "残湯量計測値",
          "en": "Measured amount of water remaining in tank"
        },
        "writable": false,
        "observable": false,
        "schema": {
          "type": "number",
          "unit": "L",
          "minimum": 0,
          "maximum": 65533
        }
      },
      "tankCapacity": {
        "epc": "0xE2",
        "descriptions": {
          "ja": "タンク容量値",
          "en": "Tank capacity"
        },
        "writable": false,
        "observable": false,
        "schema": {
          "type": "number",
          "unit": "L",
          "minimum": 0,
          "maximum": 65533
        }
      },
      "automaticBathOperation": {
        "epc": "0xE3",
        "descriptions": {
          "ja": "風呂自動モード設定",
          "en": "Automatic Bath Water Heating Mode Setting"
        },
        "writable": true,
        "observable": false,
        "schema": {
          "type": "boolean",
          "values": [
            {
              "value": true,
              "descriptions": {
                "ja": "自動入",
                "en": "Automatic bath water heating mode ON"
              },
              "edt": "0x41"
            },
            {
              "value": false,
              "descriptions": {
                "ja": "自動解除",
                "en": "Automatic bath water heating mode OFF"
              },
              "edt": "0x42"
```


©2018-2022 ECHONET Consortium

```
            }
          ]
        }
      },
      "bathReheatingOperation": {
        "epc": "0xE4",
        "descriptions": {
          "ja": "手動風呂追い焚き動作設定",
          "en": "Manual bath reheating operation setting"
        },
        "writable": true,
        "observable": false,
        "schema": {
          "type": "boolean",
          "values": [
            {
              "value": true,
              "descriptions": {
                "ja": "追い焚き入",
                "en": "Bath reheating ON"
              },
              "edt": "0x41"
            },
            {
              "value": false,
              "descriptions": {
                "ja": "追い焚き切",
                "en": "Bath reheating OFF"
              },
              "edt": "0x42"
            }
          ]
        }
      },
      "bathHotWaterAddition": {
        "epc": "0xE5",
        "descriptions": {
          "ja": "手動風呂足し湯動作設定",
          "en": "Manual bath hot water addition function setting"
        },
        "writable": true,
        "observable": false,
        "schema": {
          "type": "boolean",
          "values": [
            {
              "value": true,
              "descriptions": {
                "ja": "足し湯入",
                "en": "Addition of hot water function ON"
              },
              "edt": "0x41"
            },
            {
              "value": false,
              "descriptions": {
                "ja": "足し湯切",
                "en": "Addition of hot water function OFF"
              },
              "edt": "0x42"
            }
```


©2018-2022 ECHONET Consortium

```
          ]
        }
      },
      "bathLukewarmWaterFunction": {
        "epc": "0xE6",
        "descriptions": {
          "ja": "手動風呂ぬるめ動作設定",
          "en": "Manual lukewarm water temperature lowering function setting."
        },
        "writable": true,
        "observable": false,
        "schema": {
          "type": "boolean",
          "values": [
            {
              "value": true,
              "descriptions": {
                "ja": "ぬるめ入",
                "en": "Lukewarm water temperature function ON"
              },
              "edt": "0x41"
            },
            {
              "value": false,
              "descriptions": {
                "ja": "ぬるめ切",
                "en": "Lukewarm water temperature function OFF"
              },
              "edt": "0x42"
            }
          ]
        }
      },
      "bathWaterVolume1": {
        "epc": "0xE7",
        "descriptions": {
          "ja": "風呂湯量設定1",
          "en": "Bath water volume setting 1"
        },
        "writable": true,
        "observable": false,
        "schema": {
          "type": "number",
          "unit": "L",
          "minimum": 0,
          "maximum": 253
        }
      },
      "bathWaterVolume2": {
        "epc": "0xE8",
        "descriptions": {
          "ja": "風呂湯量設定2",
          "en": "Bath water volume setting 2"
        },
        "writable": true,
        "observable": false,
        "schema": {
          "type": "number",
          "minimum": 1,
          "maximum": 8,
          "multipleOf": 1
```


©2018-2022 ECHONET Consortium

```
        }
      },
      "bathroomPriority": {
        "epc": "0xE9",
        "descriptions": {
          "ja": "浴室優先設定",
          "en": "Bathroom priority setting"
        },
        "writable": false,
        "observable": false,
        "schema": {
          "type": "boolean",
          "values": [
            {
              "value": true,
              "descriptions": {
                "ja": "浴室優先入",
                "en": "Priority bath ON"
              },
              "edt": "0x41"
            },
            {
              "value": false,
              "descriptions": {
                "ja": "浴室優先切",
                "en": "Priority bath OFF"
              },
              "edt": "0x42"
            }
          ]
        }
      },
      "bathOperationStatusMonitor": {
        "epc": "0xEA",
        "descriptions": {
          "ja": "風呂動作状態監視",
          "en": "Bath Operation Status Monitor"
        },
        "writable": false,
        "observable": true,
        "schema": {
          "type": "string",
          "enum": [
            "runningHotWater",
            "noOperation",
            "keepingTemperature"
          ],
          "values": [
            {
              "value": "runningHotWater",
              "descriptions": {
                "ja": "湯張り中",
                "en": "Filling hot water"
              },
              "edt": "0x41"
            },
            {
              "value": "noOperation",
              "descriptions": {
                "ja": "停止中",
                "en": "Stopped"
```


©2018-2022 ECHONET Consortium

```
              },
              "edt": "0x42"
            },
            {
              "value": "keepingTemperature",
              "descriptions": {
                "ja": "保温中",
                "en": "Keeping temperature"
              },
              "edt": "0x43"
            }
          ]
        }
      },
      "bathWaterVolume3": {
        "epc": "0xEE",
        "descriptions": {
          "ja": "風呂湯量設定3",
          "en": "Bath water volume setting 3"
        },
        "writable": true,
        "observable": false,
        "schema": {
          "type": "number",
          "unit": "L",
          "minimum": 0,
          "maximum": 65533
        }
      }
    }
  }
```


©2018-2022 ECHONET Consortium

Electric lock: electricLock: 0x026F

Back to the List of Devices

Properties

Property Resource Name	Access Method	Data Type	EPC (EL)	Property name (EL)	Note
mainElectricLock	GET, PUT	boolean	0xE0	Lock setting1	
subElectricLock	GET, PUT	boolean	0xE1	Lock setting 2	
doorGuardLocked	GET	boolean	0xE2	Lock status of door guard	
doorOpened	GET	boolean	0xE3	Door open/close status	
occupant	GET	boolean	0xE4	Occupant/ non-occupant status	
alarmStatus	GET	string	0xE5	Alarm status	
autoLockMode	GET, PUT	boolean	0xE6	Auto lock mode setting	
replaceBatteryLevel	GET, PUT	boolean	0xE7	Battery level	

Device Description


```
{
  "deviceType": "electricLock",
  "metaData": {
    "version": "1.4.0"
  },
  "eoj": "0x026F",
  "descriptions": {
    "ja": "電気錠",
    "en": "Electric lock"
  },
  "properties": {
    "mainElectricLock": {
      "epc": "0xE0",
      "descriptions": {
        "ja": "施錠設定1",
        "en": "Lock setting1"
      },
      "writable": true,
      "observable": true,
      "schema": {
        "type": "boolean",
        "values": [
          {
            "value": true,
            "descriptions": {
              "ja": "施錠",
              "en": "Lock"
            },
            "edt": "0x41"
```


©2018-2022 ECHONET Consortium

```
            },
            {
              "value": false,
              "descriptions": {
                "ja": "解錠",
                "en": "Unlock"
              },
              "edt": "0x42"
            }
          ]
        }
      },
      "subElectricLock": {
        "epc": "0xE1",
        "descriptions": {
          "ja": "施錠設定2",
          "en": "Lock setting 2"
        },
        "writable": true,
        "observable": false,
        "schema": {
          "type": "boolean",
          "values": [
            {
              "value": true,
              "descriptions": {
                "ja": "施錠",
                "en": "Lock"
              },
              "edt": "0x41"
            },
            {
              "value": false,
              "descriptions": {
                "ja": "解錠",
                "en": "Unlock"
              },
              "edt": "0x42"
            }
          ]
        }
      },
      "doorGuardLocked": {
        "epc": "0xE2",
        "descriptions": {
          "ja": "ドアガード施錠状態",
          "en": "Lock status of door guard"
        },
        "writable": false,
        "observable": false,
        "schema": {
          "type": "boolean",
          "values": [
            {
              "value": true,
              "descriptions": {
                "ja": "施錠",
                "en": "Lock"
              },
              "edt": "0x41"
            },
```


©2018-2022 ECHONET Consortium

```
            {
              "value": false,
              "descriptions": {
                "ja": "解錠",
                "en": "Unlock"
              },
              "edt": "0x42"
            }
          ]
        }
      },
      "doorOpened": {
        "epc": "0xE3",
        "descriptions": {
          "ja": "扉開閉状態",
          "en": "Door open/close status"
        },
        "writable": false,
        "observable": false,
        "schema": {
          "type": "boolean",
          "values": [
            {
              "value": true,
              "descriptions": {
                "ja": "開",
                "en": "Open"
              },
              "edt": "0x41"
            },
            {
              "value": false,
              "descriptions": {
                "ja": "閉",
                "en": "Closed"
              },
              "edt": "0x42"
            }
          ]
        }
      },
      "occupant": {
        "epc": "0xE4",
        "descriptions": {
          "ja": "在室･不在状態",
          "en": "Occupant/ non-occupant status"
        },
        "writable": false,
        "observable": false,
        "schema": {
          "type": "boolean",
          "values": [
            {
              "value": true,
              "descriptions": {
                "ja": "在室",
                "en": "Occupant"
              },
              "edt": "0x41"
            },
            {
```


©2018-2022 ECHONET Consortium

```
              "value": false,
              "descriptions": {
                "ja": "不在",
                "en": "Non-occupant"
              },
              "edt": "0x42"
            }
          ]
        }
      },
      "alarmStatus": {
        "epc": "0xE5",
        "descriptions": {
          "ja": "警報状態",
          "en": "Alarm status"
        },
        "writable": false,
        "observable": true,
        "schema": {
          "type": "string",
          "enum": [
            "normal",
            "breakOpen",
            "doorOpen",
            "manualUnlocked",
            "tampered"
          ],
          "values": [
            {
              "value": "normal",
              "descriptions": {
                "ja": "通常状態(警報なし)",
                "en": "Normal (no alarm)"
              },
              "edt": "0x40"
            },
            {
              "value": "breakOpen",
              "descriptions": {
                "ja": "こじ開け",
                "en": "Break open"
              },
              "edt": "0x41"
            },
            {
              "value": "doorOpen",
              "descriptions": {
                "ja": "扉開放",
                "en": "Door open"
              },
              "edt": "0x42"
            },
            {
              "value": "manualUnlocked",
              "descriptions": {
                "ja": "手動解錠",
                "en": "Manual unlocked"
              },
              "edt": "0x43"
            },
            {
```


©2018-2022 ECHONET Consortium

```
              "value": "tampered",
              "descriptions": {
                "ja": "タンパ",
                "en": "Tampered"
              },
              "edt": "0x44"
            }
          ]
        }
      },
      "autoLockMode": {
        "epc": "0xE6",
        "descriptions": {
          "ja": "自動施錠モード設定",
          "en": "Auto lock mode setting"
        },
        "writable": true,
        "observable": false,
        "schema": {
          "type": "boolean",
          "values": [
            {
              "value": true,
              "descriptions": {
                "ja": "入",
                "en": "ON"
              },
              "edt": "0x41"
            },
            {
              "value": false,
              "descriptions": {
                "ja": "切",
                "en": "OFF"
              },
              "edt": "0x42"
            }
          ]
        }
      },
      "replaceBatteryLevel": {
        "epc": "0xE7",
        "descriptions": {
          "ja": "電池残量状態",
          "en": "Battery level"
        },
        "writable": true,
        "observable": true,
        "schema": {
          "type": "boolean",
          "values": [
            {
              "value": true,
              "descriptions": {
                "ja": "交換通知有",
                "en": "Notification of battery replacement"
              },
              "edt": "0x41"
            },
            {
              "value": false,
```


©2018-2022 ECHONET Consortium

```
              "descriptions": {
                "ja": "通常",
                "en": "Ordinary level"
              },
              "edt": "0x40"
            }
          ]
        }
      }
    }
  }
```


©2018-2022 ECHONET Consortium

Instantaneous water heater: instantaneousWaterHeater: 0x0272

Back to the List of Devices

Properties

Property Resource Name	Access Method	Data Type	EPC (EL)	Property name (EL)	Note
onTimerReservation	GET, PUT	boolean	0x90	ON timer reservation setting	
onTimerTime	GET, PUT	string	0x91	ON timer setting	
onTimerRelativeTimeSettingValue	GET, PUT	string	0x92	Set value of ON timer relative time	
hotWaterHeatingStatus	GET	boolean	0xD0	Hot water heating status	
targetSuppliedWaterTemperature	GET, PUT	number	0xD1	Set value of hot water temperature	
hotWaterWarmerSetting	GET, PUT	boolean	0xD2	Hot water warmer setting	
bathWaterVolume4	GET, PUT	number	0xD4	Bath water volume setting 4	
maximumAllowableWaterVolume4	GET	number	0xD5	Bath water volume setting 4 Maximum settable level	
volume	GET, PUT	number	0xD6	Volume setting	
mute	GET, PUT	boolean	0xD7	Mute setting	
targetAutomaticOeprationTime	GET, PUT	string, string	0xDA	Duration of Automatic operation setting	
remainingAutomaticOperationTime	GET	string, string	0xDB	Remaining Automatic operation time	
targetBathWaterTemperature	GET, PUT	number	0xE1	Set value of bath temperature	
bathWaterHeatingStatus	GET	boolean	0xE2	Bath water heater status	
automaticBathOperation	GET, PUT	boolean	0xE3	Bath Auto mode setting	

©2018-2022 ECHONET Consortium

Property Resource Name	Access Method	Data Type	EPC (EL)	Property name (EL)	Note
targetBathAdditionalBoilupOperation	GET, PUT	boolean	0xE4	Bath additional boil-up operation setting	
bathHotWaterAddition	GET, PUT	boolean	0xE5	Bath hot water adding operation setting	
bathLukewarmWaterFunction	GET, PUT	boolean	0xE6	Bath water temperature lowering operation setting	
bathWaterVolume1	GET, PUT	number	0xE7	Bath hot water volume setting 1	
bathWaterVolume2	GET, PUT	number	0xE8	Bath hot water volume setting 2	
bathroomPriority	GET	boolean	0xE9	Bathroom priority setting	
showerHotWaterSupplyStatus	GET	boolean	0xEA	Shower hot water supply status	
kitchenHotWaterSupplyStatus	GET	boolean	0xEB	Kitchen hot water supply status	
hotWaterWarmerOnTimerReservationSetting	GET, PUT	boolean	0xEC	Hot water warmer ON timer reservation setting	
targetHotWaterWarmerOnTimerTime	GET, PUT	string	0xED	Set value of hot water warmer ON timer time	
bathWaterVolume3	GET, PUT	number	0xEE	Bath hot water volume setting 3	
bathOperationStatus	GET	string	0xEF	Bath operation status monitor	

Device Description

```
{
  "deviceType": "instantaneousWaterHeater",
  "metaData": {
    "version": "1.4.1"
  },
  "eoj": "0x0272",
  "descriptions": {
    "ja": "瞬間式給湯器",
    "en": "Instantaneous water heater"
  },
```


©2018-2022 ECHONET Consortium

```
    "properties": {
      "onTimerReservation": {
        "epc": "0x90",
        "descriptions": {
          "ja": "風呂自動ONタイマ予約設定",
          "en": "ON timer reservation setting"
        },
        "writable": true,
        "observable": false,
        "schema": {
          "type": "boolean",
          "values": [
            {
              "value": true,
              "descriptions": {
                "ja": "予約入",
                "en": "Reservation ON"
              },
              "edt": "0x41"
            },
            {
              "value": false,
              "descriptions": {
                "ja": "予約切",
                "en": "Reservation OFF"
              },
              "edt": "0x42"
            }
          ]
        }
      },
      "onTimerTime": {
        "epc": "0x91",
        "descriptions": {
          "ja": "ONタイマ時刻設定値",
          "en": "ON timer setting"
        },
        "writable": true,
        "observable": false,
        "schema": {
          "type": "string",
          "format": "time"
        }
      },
      "onTimerRelativeTimeSettingValue": {
        "epc": "0x92",
        "descriptions": {
          "ja": "風呂自動ONタイマ相対時間設定値",
          "en": "Set value of ON timer relative time"
        },
        "writable": true,
        "observable": false,
        "schema": {
          "type": "string",
          "format": "time"
        }
      },
      "hotWaterHeatingStatus": {
        "epc": "0xD0",
        "descriptions": {
          "ja": "給湯器燃焼状態",
```


©2018-2022 ECHONET Consortium

```
          "en": "Hot water heating status"
        },
        "writable": false,
        "observable": false,
        "schema": {
          "type": "boolean",
          "values": [
            {
              "value": true,
              "descriptions": {
                "ja": "給湯燃焼状態有",
                "en": "Hot water heating status found"
              },
              "edt": "0x41"
            },
            {
              "value": false,
              "descriptions": {
                "ja": "無",
                "en": "Hot water heating status not found"
              },
              "edt": "0x42"
            }
          ]
        }
      },
      "targetSuppliedWaterTemperature": {
        "epc": "0xD1",
        "descriptions": {
          "ja": "給湯温度設定値",
          "en": "Set value of hot water temperature"
        },
        "writable": true,
        "observable": false,
        "schema": {
          "type": "number",
          "unit": "Celsius",
          "minimum": 0,
          "maximum": 100
        }
      },
      "hotWaterWarmerSetting": {
        "epc": "0xD2",
        "descriptions": {
          "ja": "給湯保温設定",
          "en": "Hot water warmer setting"
        },
        "writable": true,
        "observable": false,
        "schema": {
          "type": "boolean",
          "values": [
            {
              "value": true,
              "descriptions": {
                "ja": "給湯保温動作",
                "en": "Hot water warmer operation"
              },
              "edt": "0x41"
            },
            {
```


©2018-2022 ECHONET Consortium

```
                "value": false,
                "descriptions": {
                  "ja": "給湯保温動作解除",
                  "en": "Hot water warmer operation resetting"
                },
                "edt": "0x42"
              }
            ]
          }
        },
        "bathWaterVolume4": {
          "epc": "0xD4",
          "descriptions": {
            "ja": "風呂湯量設定4",
            "en": "Bath water volume setting 4"
          },
          "writable": true,
          "observable": false,
          "schema": {
            "type": "number",
            "minimum": 1,
            "maximum": 255
          }
        },
        "maximumAllowableWaterVolume4": {
          "epc": "0xD5",
          "descriptions": {
            "ja": "風呂湯量設定4 設定可能最大レベル",
            "en": "Bath water volume setting 4 Maximum settable level"
          },
          "writable": false,
          "observable": false,
          "schema": {
            "type": "number",
            "minimum": 1,
            "maximum": 255
          }
        },
        "volume": {
          "epc": "0xD6",
          "descriptions": {
            "ja": "音量設定値",
            "en": "Volume setting"
          },
          "writable": true,
          "observable": false,
          "schema": {
            "type": "number",
            "unit": "%",
            "minimum": 0,
            "maximum": 100
          }
        },
        "mute": {
          "epc": "0xD7",
          "descriptions": {
            "ja": "ミュート設定",
            "en": "Mute setting"
          },
          "writable": true,
          "observable": false,
```


©2018-2022 ECHONET Consortium

```
          "schema": {
            "type": "boolean",
            "values": [
              {
                "value": true,
                "descriptions": {
                  "ja": "ミュートON",
                  "en": "Mute ON"
                },
                "edt": "0x30"
              },
              {
                "value": false,
                "descriptions": {
                  "ja": "ミュートOFF",
                  "en": "Mute OFF"
                },
                "edt": "0x31"
              }
            ]
          }
        },
        "targetAutomaticOeprationTime": {
          "epc": "0xDA",
          "descriptions": {
            "ja": "自動運転時間設定値",
            "en": "Duration of Automatic operation setting"
          },
          "writable": true,
          "observable": false,
          "schema": {
            "oneOf": [
              {
                "type": "string",
                "format": "time"
              },
              {
                "type": "string",
                "enum": [
                  "limitless"
                ],
                "values": [
                  {
                    "value": "limitless",
                    "descriptions": {
                      "ja": "無限",
                      "en": "Limitless"
                    },
                    "edt": "0xFFFF"
                  }
                ]
              }
            ]
          }
        },
        "remainingAutomaticOperationTime": {
          "epc": "0xDB",
          "descriptions": {
            "ja": "自動運転残時間",
            "en": "Remaining Automatic operation time"
          },
```


©2018-2022 ECHONET Consortium

```
        "writable": false,
        "observable": false,
        "schema": {
          "oneOf": [
            {
              "type": "string",
              "format": "time"
            },
            {
              "type": "string",
              "enum": [
                "limitless"
              ],
              "values": [
                {
                  "value": "limitless",
                  "descriptions": {
                    "ja": "無限",
                    "en": "Limitless"
                  },
                  "edt": "0xFFFF"
                }
              ]
            }
          ]
        }
      },
      "targetBathWaterTemperature": {
        "epc": "0xE1",
        "descriptions": {
          "ja": "風呂温度設定値",
          "en": "Set value of bath temperature"
        },
        "writable": true,
        "observable": false,
        "schema": {
          "type": "number",
          "unit": "Celsius",
          "minimum": 0,
          "maximum": 100
        }
      },
      "bathWaterHeatingStatus": {
        "epc": "0xE2",
        "descriptions": {
          "ja": "風呂給湯器燃焼状態",
          "en": "Bath water heater status"
        },
        "writable": false,
        "observable": false,
        "schema": {
          "type": "boolean",
          "values": [
            {
              "value": true,
              "descriptions": {
                "ja": "燃焼状態有",
                "en": "Heating"
              },
              "edt": "0x41"
            },
```


©2018-2022 ECHONET Consortium

```
            {
              "value": false,
              "descriptions": {
                "ja": "燃焼状態無",
                "en": "Not Heating"
              },
              "edt": "0x42"
            }
          ]
        }
      },
      "automaticBathOperation": {
        "epc": "0xE3",
        "descriptions": {
          "ja": "風呂自動モード設定",
          "en": "Bath Auto mode setting"
        },
        "writable": true,
        "observable": false,
        "schema": {
          "type": "boolean",
          "values": [
            {
              "value": true,
              "descriptions": {
                "ja": "自動入",
                "en": "Auto ON"
              },
              "edt": "0x41"
            },
            {
              "value": false,
              "descriptions": {
                "ja": "自動切",
                "en": "Auto OFF"
              },
              "edt": "0x42"
            }
          ]
        }
      },
      "targetBathAdditionalBoilupOperation": {
        "epc": "0xE4",
        "descriptions": {
          "ja": "風呂追い炊き動作設定",
          "en": "Bath additional boil-up operation setting"
        },
        "writable": true,
        "observable": false,
        "schema": {
          "type": "boolean",
          "values": [
            {
              "value": true,
              "descriptions": {
                "ja": "追い焚き入",
                "en": "Additional boil-up ON"
              },
              "edt": "0x41"
            },
            {
```


©2018-2022 ECHONET Consortium

```
              "value": false,
              "descriptions": {
                "ja": "追い焚き切",
                "en": "Additional boil-up OFF"
              },
              "edt": "0x42"
            }
          ]
        }
      },
      "bathHotWaterAddition": {
        "epc": "0xE5",
        "descriptions": {
          "ja": "風呂足し湯動作設定",
          "en": "Bath hot water adding operation setting"
        },
        "writable": true,
        "observable": false,
        "schema": {
          "type": "boolean",
          "values": [
            {
              "value": true,
              "descriptions": {
                "ja": "足し湯入",
                "en": "Hot water addition ON"
              },
              "edt": "0x41"
            },
            {
              "value": false,
              "descriptions": {
                "ja": "足し湯切",
                "en": "Hot water addition OFF"
              },
              "edt": "0x42"
            }
          ]
        }
      },
      "bathLukewarmWaterFunction": {
        "epc": "0xE6",
        "descriptions": {
          "ja": "風呂ぬるめ動作設定",
          "en": "Bath water temperature lowering operation setting"
        },
        "writable": true,
        "observable": false,
        "schema": {
          "type": "boolean",
          "values": [
            {
              "value": true,
              "descriptions": {
                "ja": "ぬるめ入",
                "en": "Hot water temperature lowering ON"
              },
              "edt": "0x41"
            },
            {
              "value": false,
```


©2018-2022 ECHONET Consortium

```
            "descriptions": {
              "ja": "ぬるめ切",
              "en": "Hot water temperature lowering OFF"
            },
            "edt": "0x42"
          }
        ]
      }
    },
    "bathWaterVolume1": {
      "epc": "0xE7",
      "descriptions": {
        "ja": "風呂湯量設定1",
        "en": "Bath hot water volume setting 1"
      },
      "writable": true,
      "observable": false,
      "schema": {
        "type": "number",
        "unit": "L",
        "minimum": 0,
        "maximum": 253
      }
    },
    "bathWaterVolume2": {
      "epc": "0xE8",
      "descriptions": {
        "ja": "風呂湯量設定2",
        "en": "Bath hot water volume setting 2"
      },
      "writable": true,
      "observable": false,
      "schema": {
        "type": "number",
        "minimum": 1,
        "maximum": 8,
        "multipleOf": 1
      }
    },
    "bathroomPriority": {
      "epc": "0xE9",
      "descriptions": {
        "ja": "浴室優先設定",
        "en": "Bathroom priority setting"
      },
      "writable": false,
      "observable": false,
      "schema": {
        "type": "boolean",
        "values": [
          {
            "value": true,
            "descriptions": {
              "ja": "浴室優先入",
              "en": "Bathroom priority ON"
            },
            "edt": "0x41"
          },
          {
            "value": false,
            "descriptions": {
```


©2018-2022 ECHONET Consortium

```
                "ja": "入浴優先切",
                "en": "Bathroom priority OFF"
              },
              "edt": "0x42"
            }
          ]
        }
      },
      "showerHotWaterSupplyStatus": {
        "epc": "0xEA",
        "descriptions": {
          "ja": "シャワー給湯状態",
          "en": "Shower hot water supply status"
        },
        "writable": false,
        "observable": false,
        "schema": {
          "type": "boolean",
          "values": [
            {
              "value": true,
              "descriptions": {
                "ja": "シャワー給湯状態有",
                "en": "Shower hot water supply ON"
              },
              "edt": "0x41"
            },
            {
              "value": false,
              "descriptions": {
                "ja": "シャワー給湯状態無",
                "en": "Shower hot water supply OFF"
              },
              "edt": "0x42"
            }
          ]
        }
      },
      "kitchenHotWaterSupplyStatus": {
        "epc": "0xEB",
        "descriptions": {
          "ja": "台所給湯状態",
          "en": "Kitchen hot water supply status"
        },
        "writable": false,
        "observable": false,
        "schema": {
          "type": "boolean",
          "values": [
            {
              "value": true,
              "descriptions": {
                "ja": "台所湯量状態有",
                "en": "Kitchen hot water supply ON"
              },
              "edt": "0x41"
            },
            {
              "value": false,
              "descriptions": {
                "ja": "台所湯量状態無",
```


©2018-2022 ECHONET Consortium

```
                "en": "Kitchen hot water supply OFF"
              },
              "edt": "0x42"
            }
          ]
        }
      },
      "hotWaterWarmerOnTimerReservationSetting": {
        "epc": "0xEC",
        "descriptions": {
          "ja": "給湯保温ONタイマ予約設定",
          "en": "Hot water warmer ON timer reservation setting"
        },
        "writable": true,
        "observable": false,
        "schema": {
          "type": "boolean",
          "values": [
            {
              "value": true,
              "descriptions": {
                "ja": "予約入",
                "en": "Reservation ON"
              },
              "edt": "0x41"
            },
            {
              "value": false,
              "descriptions": {
                "ja": "予約無",
                "en": "Reservation OFF"
              },
              "edt": "0x42"
            }
          ]
        }
      },
      "targetHotWaterWarmerOnTimerTime": {
        "epc": "0xED",
        "descriptions": {
          "ja": "給湯保温ONタイマ時刻設定値",
          "en": "Set value of hot water warmer ON timer time"
        },
        "writable": true,
        "observable": false,
        "schema": {
          "type": "string",
          "format": "time"
        }
      },
      "bathWaterVolume3": {
        "epc": "0xEE",
        "descriptions": {
          "ja": "風呂湯量設定3",
          "en": "Bath hot water volume setting 3"
        },
        "writable": true,
        "observable": false,
        "schema": {
          "type": "number",
          "unit": "L",
```


©2018-2022 ECHONET Consortium

```
          "minimum": 0,
          "maximum": 65533
        }
      },
      "bathOperationStatus": {
        "epc": "0xEF",
        "descriptions": {
          "ja": "風呂動作状態監視",
          "en": "Bath operation status monitor"
        },
        "writable": false,
        "observable": true,
        "schema": {
          "type": "string",
          "enum": [
            "runningHotWater",
            "noOperation",
            "keepingTemperature"
          ],
          "values": [
            {
              "value": "runningHotWater",
              "descriptions": {
                "ja": "湯張り中",
                "en": "Supplying hot water"
              },
              "edt": "0x41"
            },
            {
              "value": "noOperation",
              "descriptions": {
                "ja": "停止中",
                "en": "Stopped"
              },
              "edt": "0x42"
            },
            {
              "value": "keepingTemperature",
              "descriptions": {
                "ja": "保温中",
                "en": "Keeping bath temperature"
              },
              "edt": "0x43"
            }
          ]
        }
      }
    }
  }
```


©2018-2022 ECHONET Consortium

Bathroom heater dryer: bathroomHeaterDryer: 0x0273

Back to the List of Devices

Properties

Property Resource Name	Access Method	Data Type	EPC (EL)	Property name (EL)	Note
onTimerReservation1	GET, PUT	boolean	0x90	On timer reservation setting 1	
timeOfOnTimer	GET, PUT	string	0x91	On timer setting value	
timeOfOffTimer	GET, PUT	string	0x92	On relative timer setting value	
offTimerReservation	GET, PUT	boolean	0x94	Off timer reservation setting	
relativeTimeOfOnTimer	GET, PUT	string	0x95	OFF timer setting value	
relativeTimeOfOffTimer	GET, PUT	string	0x96	Off relative timer setting value	
operationSetting	GET, PUT	string	0xB0	Operation setting	
ventilationSetting	GET, PUT	number, string	0xB1	Ventilation operation setting	
bathroomPrewarming	GET, PUT	number, string	0xB2	Bathroom prewarming operation setting	
bathroomHeating	GET, PUT	number, string	0xB3	Bathroom heating operation setting	
bathroomDrying	GET, PUT	number, string	0xB4	Bathroom drying operation setting	
coolAirCirculation	GET, PUT	number, string	0xB5	Cool air circulation operation setting	
mistSauna	GET, PUT	number, string	0xB6	Mist sauna operation setting	
waterMist	GET, PUT	number, string	0xB7	Water mist operation setting	
bathroomHumidity	GET	number	0xBA	Measured value of bathroom relative humidity	
bathroomTemperature	GET	number	0xBB	Measured value of bathroom temperature	
ventilationAirFlowLevel	GET, PUT	number, string	0xC2	Ventilation air flow rate setting	

©2018-2022 ECHONET Consortium

Property Resource Name	Access Method	Data Type	EPC (EL)	Property name (EL)	Note
filterCleaningReminderSign	GET, PUT	boolean	0xCF	Filter cleaning reminder sign setting	
humanBodyDetectionStatus	GET	boolean	0xE0	Human body detection status	
onTimerReservation2	GET, PUT	string	0xE1	On timer reservation setting 2	

Device Description

```
{
  "deviceType": "bathroomHeaterDryer",
  "metaData": {
    "version": "1.3.0"
  },
  "eoj": "0x0273",
  "descriptions": {
    "ja": "浴室暖房乾燥機",
    "en": "Bathroom heater dryer"
  },
  "properties": {
    "onTimerReservation1": {
      "epc": "0x90",
      "descriptions": {
        "ja": "ONタイマ予約設定1",
        "en": "On timer reservation setting 1"
      },
      "writable": true,
      "observable": false,
      "schema": {
        "type": "boolean",
        "values": [
          {
            "value": true,
            "descriptions": {
              "ja": "予約入",
              "en": "Reservation on"
            },
            "edt": "0x41"
          },
          {
            "value": false,
            "descriptions": {
              "ja": "予約切",
              "en": "Reservation off"
            },
            "edt": "0x42"
          }
        ]
      },
      "note": {
        "ja": "ONタイマ予約設定2が別途定義",
        "en": "On timer reservation setting 2 is defined for bathroom heater dryer."
      }
    },
    "timeOfOnTimer": {
```


©2018-2022 ECHONET Consortium

```
        "epc": "0x91",
        "descriptions": {
          "ja": "ONタイマ時刻設定値",
          "en": "On timer setting value"
        },
        "writable": true,
        "observable": false,
        "schema": {
          "type": "string",
          "format": "time"
        },
        "note": {
          "ja": "秒の指定は無視される",
          "en": "Number of seconds is ignored."
        }
      },
      "timeOfOffTimer": {
        "epc": "0x92",
        "descriptions": {
          "ja": "ONタイマ相対時間設定値",
          "en": "On relative timer setting value"
        },
        "writable": true,
        "observable": false,
        "schema": {
          "type": "string",
          "format": "time"
        },
        "note": {
          "ja": "秒の指定は無視される",
          "en": "Number of seconds is ignored."
        }
      },
      "offTimerReservation": {
        "epc": "0x94",
        "descriptions": {
          "ja": "OFFタイマ予約設定",
          "en": "Off timer reservation setting"
        },
        "writable": true,
        "observable": false,
        "schema": {
          "type": "boolean",
          "values": [
            {
              "value": true,
              "descriptions": {
                "ja": "予約入",
                "en": "Reservation on"
              },
              "edt": "0x41"
            },
            {
              "value": false,
              "descriptions": {
                "ja": "予約切",
                "en": "Reservation off"
              },
              "edt": "0x42"
            }
          ]
```


©2018-2022 ECHONET Consortium

```
      }
    },
    "relativeTimeOfOnTimer": {
      "epc": "0x95",
      "descriptions": {
        "ja": "OFFタイマ時刻設定値",
        "en": "OFF timer setting value"
      },
      "writable": true,
      "observable": false,
      "schema": {
        "type": "string",
        "format": "time"
      },
      "note": {
        "ja": "秒の指定は無視される",
        "en": "Number of seconds is ignored."
      }
    },
    "relativeTimeOfOffTimer": {
      "epc": "0x96",
      "descriptions": {
        "ja": "OFFタイマ相対時間設定値",
        "en": "Off relative timer setting value"
      },
      "writable": true,
      "observable": false,
      "schema": {
        "type": "string",
        "format": "time"
      },
      "note": {
        "ja": "秒の指定は無視される",
        "en": "Number of seconds is ignored."
      }
    },
    "operationSetting": {
      "epc": "0xB0",
      "descriptions": {
        "ja": "運転設定",
        "en": "Operation setting"
      },
      "writable": true,
      "observable": false,
      "schema": {
        "type": "string",
        "enum": [
          "ventilation",
          "prewarming",
          "heating",
          "drying",
          "circulation",
          "mistSauna",
          "waterMist",
          "stop"
        ],
        "values": [
          {
            "value": "ventilation",
            "descriptions": {
              "ja": "換気運転",
```


©2018-2022 ECHONET Consortium

```
            "en": "Ventilation"
          },
          "edt": "0x10"
        },
        {
          "value": "prewarming",
          "descriptions": {
            "ja": "入浴前予備暖房運転",
            "en": "Prewarming operation"
          },
          "edt": "0x20"
        },
        {
          "value": "heating",
          "descriptions": {
            "ja": "入浴中暖房運転",
            "en": "Heating operation"
          },
          "edt": "0x30"
        },
        {
          "value": "drying",
          "descriptions": {
            "ja": "乾燥運転",
            "en": "Drying operation"
          },
          "edt": "0x40"
        },
        {
          "value": "circulation",
          "descriptions": {
            "ja": "涼風運転",
            "en": "Circulation"
          },
          "edt": "0x50"
        },
        {
          "value": "mistSauna",
          "descriptions": {
            "ja": "ミストサウナ運転",
            "en": "Mist sauna operation"
          },
          "edt": "0x60"
        },
        {
          "value": "waterMist",
          "descriptions": {
            "ja": "水ミスト運転",
            "en": "Water mist operation"
          },
          "edt": "0x61"
        },
        {
          "value": "stop",
          "descriptions": {
            "ja": "停止",
            "en": "Stop"
          },
          "edt": "0x00"
        }
      ]
```


©2018-2022 ECHONET Consortium

```
        }
      },
      "ventilationSetting": {
        "epc": "0xB1",
        "descriptions": {
          "ja": "換気運転設定",
          "en": "Ventilation operation setting"
        },
        "writable": true,
        "observable": false,
        "schema": {
          "oneOf": [
            {
              "type": "number",
              "minimum": 1,
              "maximum": 8,
              "multipleOf": 1
            },
            {
              "type": "string",
              "enum": [
                "auto",
                "standard"
              ],
              "values": [
                {
                  "value": "auto",
                  "descriptions": {
                    "ja": "自動",
                    "en": "Auto"
                  },
                  "edt": "0x41"
                },
                {
                  "value": "standard",
                  "descriptions": {
                    "ja": "標準",
                    "en": "Standard"
                  },
                  "edt": "0x42"
                }
              ]
            }
          ]
        }
      },
      "bathroomPrewarming": {
        "epc": "0xB2",
        "descriptions": {
          "ja": "入浴前予備暖房運転設定",
          "en": "Bathroom prewarming operation setting"
        },
        "writable": true,
        "observable": false,
        "schema": {
          "oneOf": [
            {
              "type": "number",
              "minimum": 1,
              "maximum": 8,
              "multipleOf": 1
```


©2018-2022 ECHONET Consortium

```
            },
            {
              "type": "string",
              "enum": [
                "auto",
                "standard"
              ],
              "values": [
                {
                  "value": "auto",
                  "descriptions": {
                    "ja": "自動",
                    "en": "Auto"
                  },
                  "edt": "0x41"
                },
                {
                  "value": "standard",
                  "descriptions": {
                    "ja": "標準",
                    "en": "Standard"
                  },
                  "edt": "0x42"
                }
              ]
            }
          ]
        }
      },
      "bathroomHeating": {
        "epc": "0xB3",
        "descriptions": {
          "ja": "入浴中暖房運転設定",
          "en": "Bathroom heating operation setting"
        },
        "writable": true,
        "observable": false,
        "schema": {
          "oneOf": [
            {
              "type": "number",
              "minimum": 1,
              "maximum": 8,
              "multipleOf": 1
            },
            {
              "type": "string",
              "enum": [
                "auto",
                "standard"
              ],
              "values": [
                {
                  "value": "auto",
                  "descriptions": {
                    "ja": "自動",
                    "en": "Auto"
                  },
                  "edt": "0x41"
                },
                {
```


©2018-2022 ECHONET Consortium

```
                "value": "standard",
                "descriptions": {
                  "ja": "標準",
                  "en": "Standard"
                },
                "edt": "0x42"
              }
            ]
          }
        ]
      }
    },
    "bathroomDrying": {
      "epc": "0xB4",
      "descriptions": {
        "ja": "乾燥運転設定",
        "en": "Bathroom drying operation setting"
      },
      "writable": true,
      "observable": false,
      "schema": {
        "oneOf": [
          {
            "type": "number",
            "minimum": 1,
            "maximum": 8,
            "multipleOf": 1
          },
          {
            "type": "string",
            "enum": [
              "auto",
              "standard"
            ],
            "values": [
              {
                "value": "auto",
                "descriptions": {
                  "ja": "自動",
                  "en": "Auto"
                },
                "edt": "0x41"
              },
              {
                "value": "standard",
                "descriptions": {
                  "ja": "標準",
                  "en": "Standard"
                },
                "edt": "0x42"
              }
            ]
          }
        ]
      }
    },
    "coolAirCirculation": {
      "epc": "0xB5",
      "descriptions": {
        "ja": "涼風運転設定",
        "en": "Cool air circulation operation setting"
```


©2018-2022 ECHONET Consortium

```
        },
        "writable": true,
        "observable": false,
        "schema": {
          "oneOf": [
            {
              "type": "number",
              "minimum": 1,
              "maximum": 8,
              "multipleOf": 1
            },
            {
              "type": "string",
              "enum": [
                "auto",
                "standard"
              ],
              "values": [
                {
                  "value": "auto",
                  "descriptions": {
                    "ja": "自動",
                    "en": "Auto"
                  },
                  "edt": "0x41"
                },
                {
                  "value": "standard",
                  "descriptions": {
                    "ja": "標準",
                    "en": "Standard"
                  },
                  "edt": "0x42"
                }
              ]
            }
          ]
        }
      },
      "mistSauna": {
        "epc": "0xB6",
        "descriptions": {
          "ja": "ミストサウナ運転設定",
          "en": "Mist sauna operation setting"
        },
        "writable": true,
        "observable": false,
        "schema": {
          "oneOf": [
            {
              "type": "number",
              "minimum": 1,
              "maximum": 8,
              "multipleOf": 1
            },
            {
              "type": "string",
              "enum": [
                "auto",
                "standard"
              ],
```


©2018-2022 ECHONET Consortium

```
              "values": [
                {
                  "value": "auto",
                  "descriptions": {
                    "ja": "自動",
                    "en": "Auto"
                  },
                  "edt": "0x41"
                },
                {
                  "value": "standard",
                  "descriptions": {
                    "ja": "標準",
                    "en": "Standard"
                  },
                  "edt": "0x42"
                }
              ]
            }
          ]
        }
      },
      "waterMist": {
        "epc": "0xB7",
        "descriptions": {
          "ja": "水ミスト運転設定",
          "en": "Water mist operation setting"
        },
        "writable": true,
        "observable": false,
        "schema": {
          "oneOf": [
            {
              "type": "number",
              "minimum": 1,
              "maximum": 8,
              "multipleOf": 1
            },
            {
              "type": "string",
              "enum": [
                "auto",
                "standard"
              ],
              "values": [
                {
                  "value": "auto",
                  "descriptions": {
                    "ja": "自動",
                    "en": "Auto"
                  },
                  "edt": "0x41"
                },
                {
                  "value": "standard",
                  "descriptions": {
                    "ja": "標準",
                    "en": "Standard"
                  },
                  "edt": "0x42"
                }
```


©2018-2022 ECHONET Consortium

```
            ]
          }
        ]
      }
    },
    "bathroomHumidity": {
      "epc": "0xBA",
      "descriptions": {
        "ja": "浴室内相対湿度計測値",
        "en": "Measured value of bathroom relative humidity"
      },
      "writable": false,
      "observable": false,
      "schema": {
        "type": "number",
        "unit": "%",
        "minimum": 0,
        "maximum": 100
      }
    },
    "bathroomTemperature": {
      "epc": "0xBB",
      "descriptions": {
        "ja": "浴室内温度計測値",
        "en": "Measured value of bathroom temperature"
      },
      "writable": false,
      "observable": false,
      "schema": {
        "type": "number",
        "unit": "Celsius",
        "minimum": -127,
        "maximum": 125
      }
    },
    "ventilationAirFlowLevel": {
      "epc": "0xC2",
      "descriptions": {
        "ja": "換気風量設定",
        "en": "Ventilation air flow rate setting"
      },
      "writable": true,
      "observable": false,
      "schema": {
        "oneOf": [
          {
            "type": "number",
            "minimum": 1,
            "maximum": 8,
            "multipleOf": 1
          },
          {
            "type": "string",
            "enum": [
              "auto"
            ],
            "values": [
              {
                "value": "auto",
                "descriptions": {
                  "ja": "自動",
```


©2018-2022 ECHONET Consortium

```
                    "en": "Auto"
                  },
                  "edt": "0x41"
                }
              ]
            }
          ]
        }
      },
      "filterCleaningReminderSign": {
        "epc": "0xCF",
        "descriptions": {
          "ja": "フィルタサイン設定",
          "en": "Filter cleaning reminder sign setting"
        },
        "writable": true,
        "observable": false,
        "schema": {
          "type": "boolean",
          "values": [
            {
              "value": true,
              "descriptions": {
                "ja": "点灯",
                "en": "Lit"
              },
              "edt": "0x41"
            },
            {
              "value": false,
              "descriptions": {
                "ja": "消灯",
                "en": "Not lit"
              },
              "edt": "0x42"
            }
          ]
        }
      },
      "humanBodyDetectionStatus": {
        "epc": "0xE0",
        "descriptions": {
          "ja": "人体検知状態",
          "en": "Human body detection status"
        },
        "writable": false,
        "observable": false,
        "schema": {
          "type": "boolean",
          "values": [
            {
              "value": true,
              "descriptions": {
                "ja": "人体検知あり",
                "en": "Detected"
              },
              "edt": "0x41"
            },
            {
              "value": false,
              "descriptions": {
```


©2018-2022 ECHONET Consortium

```
                "ja": "人体検知なし",
                "en": "Not detected"
              },
              "edt": "0x42"
            }
          ]
        }
      },
      "onTimerReservation2": {
        "epc": "0xE1",
        "descriptions": {
          "ja": "ONタイマ予約設定2",
          "en": "On timer reservation setting 2"
        },
        "writable": true,
        "observable": false,
        "schema": {
          "type": "string",
          "enum": [
            "ventilationReservation",
            "prewarmingReservation",
            "heatingReservation",
            "dryingReservation",
            "circulationReservation",
            "mistSaunaReservation",
            "waterMistReservation",
            "noReservation"
          ],
          "values": [
            {
              "value": "ventilationReservation",
              "descriptions": {
                "ja": "換気運転予約",
                "en": "Ventilation reservation"
              },
              "edt": "0x10"
            },
            {
              "value": "prewarmingReservation",
              "descriptions": {
                "ja": "入浴前予備暖房運転予約",
                "en": "Prewarming operation reservation"
              },
              "edt": "0x20"
            },
            {
              "value": "heatingReservation",
              "descriptions": {
                "ja": "入浴中暖房運転予約",
                "en": "Heating operation reservation"
              },
              "edt": "0x30"
            },
            {
              "value": "dryingReservation",
              "descriptions": {
                "ja": "乾燥運転予約",
                "en": "Drying operation reservation"
              },
              "edt": "0x40"
            },
```


©2018-2022 ECHONET Consortium

```
            {
              "value": "circulationReservation",
              "descriptions": {
                "ja": "涼風運転予約",
                "en": "Circulation reservation"
              },
              "edt": "0x50"
            },
            {
              "value": "mistSaunaReservation",
              "descriptions": {
                "ja": "ミストサウナ運転予約",
                "en": "Mist sauna operation reservation"
              },
              "edt": "0x60"
            },
            {
              "value": "waterMistReservation",
              "descriptions": {
                "ja": "水ミスト運転予約",
                "en": "Water mist operation reservation"
              },
              "edt": "0x61"
            },
            {
              "value": "noReservation",
              "descriptions": {
                "ja": "予約切",
                "en": "No reservation"
              },
              "edt": "0x00"
            }
          ]
        }
      }
    }
  }
```


©2018-2022 ECHONET Consortium

Household solar power generation: pvPowerGeneration: 0x0279

Back to the List of Devices

Properties

Property Resource Name	Access Method	Data Type	EPC (EL)	Property name (EL)	Note
outputPowerControl1	GET, PUT	number	0xA0	Output power control setting 1	
outputPowerControl2	GET, PUT	number	0xA1	Output power control setting 2	
surplusPurchaseControl	GET, PUT	boolean	0xA2	Function to control purchase surplus electricity setting	
outputPowerControlSchedule	GET	object	0xB0	Output power controlling schedule	
updateScheduleDateAndTime	GET	string, string	0xB1	Next access date and time	
surplusPurchaseControlType	GET	boolean	0xB2	Function to control the type of surplus electricity purchase	
outputPowerChangeTime	GET	number	0xB3	Output power change time setting value	
upperLimitClip	GET	number, string	0xB4	Upper limit clip setting value	
operatingPowerFactor	GET	number	0xC0	Operation power factor setting value	
contractType	GET, PUT	string	0xC1	FIT contract type	
selfConsumptionType	GET	string	0xC2	Self-consumption type	
approvedCapacity	GET	number, string	0xC3	Capacity approved by equipment	
conversionCoefficient	GET	number	0xC4	Conversion coefficient	
powerSystemInterconnectionStatus	GET	string	0xD0	System-interconnected type	
outputPowerRestraintStatus	GET	string	0xD1	Output power restraint status	

©2018-2022 ECHONET Consortium

Property Resource Name	Access Method	Data Type	EPC (EL)	Property name (EL)	Note
instantaneousElectricPowerGeneration	GET	number	0xE0	Measured instantaneous amount of electricity generated	
cumulativeElectricEnergyOfGeneration	GET	number	0xE1	Measured cumulative amount of electric energy generated	
cumulativeElectricEnergySold	GET	number	0xE3	Measured cumulative amount of electric energy sold	
powerGenerationOutputLimit1	GET, PUT	number	0xE5	Power generation output limit setting 1	
powerGenerationOutputLimit2	GET, PUT	number	0xE6	Power generation output limit setting 2	
limitElectricEnergySold	GET, PUT	number	0xE7	Limit setting for the amount of electricity sold	
ratedElectricPowerOfgeneration	GET, PUT	number, string	0xE8	Rated power generation output (System-interconnected)	
ratedElectricPowerOfgenerationIndependent	GET, PUT	number	0xE9	Rated power generation output (Independent)	

Actions

Property Resource Name	Access Method	EPC (EL)	Property name (EL)	Note
resetCumulativeElectricEnergyOfGeneration	POST	0xE2	Resetting cumulative amount of electric energy generated	
resetCumulativeElectricEnergySold	POST	0xE4	Resetting cumulative amount of electric energy sold	

Device Description

```
{
  "deviceType": "pvPowerGeneration",
  "metaData": {
    "version": "1.4.0"
  },
  "eoj": "0x0279",
```


©2018-2022 ECHONET Consortium

```
    "descriptions": {
      "ja": "住宅用太陽光発電",
      "en": "Household solar power generation"
    },
    "properties": {
      "outputPowerControl1": {
        "epc": "0xA0",
        "descriptions": {
          "ja": "出力制御設定1",
          "en": "Output power control setting 1"
        },
        "writable": true,
        "observable": false,
        "schema": {
          "type": "number",
          "unit": "%",
          "minimum": 0,
          "maximum": 100
        }
      },
      "outputPowerControl2": {
        "epc": "0xA1",
        "descriptions": {
          "ja": "出力制御設定2",
          "en": "Output power control setting 2"
        },
        "writable": true,
        "observable": false,
        "schema": {
          "type": "number",
          "unit": "W",
          "minimum": 0,
          "maximum": 65533
        }
      },
      "surplusPurchaseControl": {
        "epc": "0xA2",
        "descriptions": {
          "ja": "余剰買取制御機能設定",
          "en": "Function to control purchase surplus electricity setting"
        },
        "writable": true,
        "observable": false,
        "schema": {
          "type": "boolean",
          "values": [
            {
              "value": true,
              "descriptions": {
                "ja": "有効",
                "en": "Valid"
              },
              "edt": "0x41"
            },
            {
              "value": false,
              "descriptions": {
                "ja": "無効",
                "en": "Invalid"
              },
              "edt": "0x42"
```


©2018-2022 ECHONET Consortium

```
            }
          ]
        }
      },
      "outputPowerControlSchedule": {
        "epc": "0xB0",
        "descriptions": {
          "ja": "出力制御スケジュール",
          "en": "Output power controlling schedule"
        },
        "writable": false,
        "observable": false,
        "schema": {
          "type": "object",
          "properties": {
            "startDateAndTime": {
              "descriptions": {
                "ja": "現在年月日",
                "en": "Current date (YYYY: MM: DD)"
              },
              "oneOf": [
                {
                  "type": "string",
                  "format": "date-time"
                },
                {
                  "type": "string",
                  "enum": [
                    "unknown"
                  ],
                  "values": [
                    {
                      "value": "unknown",
                      "descriptions": {
                        "ja": "不明",
                        "en": "Unknown"
                      },
                      "edt": "0xFFFFFFFF"
                    }
                  ]
                }
              ]
            },
            "intervalTime": {
              "type": "number",
              "unit": "minutes",
              "minimum": 0,
              "maximum": 1800,
              "multipleOf": 30
            },
            "powerControlRatio": {
              "descriptions": {
                "ja": "0x00～0x64 (0～100%) x 96 (30分毎の値、2日分)",
                "en": "0x00-0x64 (0-100%) x 96 (values every 30 minutes, for 2 days)"
              },
              "type": "array",
              "minItems": 96,
              "maxItems": 96,
              "items": {
                "oneOf": [
                  {
```


©2018-2022 ECHONET Consortium

```
                    "type": "number",
                    "unit": "%",
                    "minimum": 0,
                    "maximum": 100
                  },
                  {
                    "type": "string",
                    "enum": [
                      "undefined"
                    ],
                    "values": [
                      {
                        "value": "undefined",
                        "descriptions": {
                          "ja": "不明",
                          "en": "Unknown"
                        },
                        "edt": "0xFF"
                      }
                    ]
                  }
                ]
              }
            }
          }
        }
      },
      "note": {
        "ja": "本プロパティには、数値が30分毎であることを示すため「intervalTime」が追加されている",
        "en": "intervalTime is added to this property to indicate that the value is every 30
minutes."
      }
    },
    "updateScheduleDateAndTime": {
      "epc": "0xB1",
      "descriptions": {
        "ja": "次回アクセス日時",
        "en": "Next access date and time"
      },
      "writable": false,
      "observable": true,
      "schema": {
        "oneOf": [
          {
            "type": "string",
            "format": "date-time"
          },
          {
            "type": "string",
            "enum": [
              "noControlNoSchedule"
            ],
            "values": [
              {
                "value": "noControlNoSchedule",
                "descriptions": {
                  "ja": "出力制御スケジュールによる出力制御が必要ない太陽光発電および、出力制御スケジュールが取
得できていない場合",
                  "en": "Solar power generation that requires no output power control by
output power controlling schedule and cases where output power controlling schedule has not
been acquired"
                },
```


©2018-2022 ECHONET Consortium

```
                "edt": "0xFFFFFFFFFFFFFF"
              }
            ]
          }
        ]
      }
    },
    "surplusPurchaseControlType": {
      "epc": "0xB2",
      "descriptions": {
        "ja": "余剰買取制御機能タイプ",
        "en": "Function to control the type of surplus electricity purchase"
      },
      "writable": false,
      "observable": false,
      "schema": {
        "type": "boolean",
        "values": [
          {
            "value": true,
            "descriptions": {
              "ja": "有効",
              "en": "Valid"
            },
            "edt": "0x41"
          },
          {
            "value": false,
            "descriptions": {
              "ja": "無効",
              "en": "Invalid"
            },
            "edt": "0x42"
          }
        ]
      }
    },
    "outputPowerChangeTime": {
      "epc": "0xB3",
      "descriptions": {
        "ja": "出力変化時間設定値",
        "en": "Output power change time setting value"
      },
      "writable": false,
      "observable": false,
      "schema": {
        "type": "number",
        "unit": "second",
        "minimum": 0,
        "maximum": 65533
      }
    },
    "upperLimitClip": {
      "epc": "0xB4",
      "descriptions": {
        "ja": "上限クリップ設定値",
        "en": "Upper limit clip setting value"
      },
      "writable": false,
      "observable": false,
      "schema": {
```


©2018-2022 ECHONET Consortium

```
          "oneOf": [
            {
              "type": "number",
              "unit": "W",
              "minimum": 0,
              "maximum": 65533
            },
            {
              "type": "string",
              "enum": [
                "noSetting"
              ],
              "values": [
                {
                  "value": "noSetting",
                  "descriptions": {
                    "ja": "設定なし",
                    "en": "No setting"
                  },
                  "edt": "0xFFFF"
                }
              ]
            }
          ]
        },
        "note": {
          "ja": "0xFFFFは未設定を示す",
          "en": "0xFFFF means No setting."
        }
      },
      "operatingPowerFactor": {
        "epc": "0xC0",
        "descriptions": {
          "ja": "運転力率設定値",
          "en": "Operation power factor setting value"
        },
        "writable": false,
        "observable": false,
        "schema": {
          "type": "number",
          "unit": "%",
          "minimum": 0,
          "maximum": 100
        }
      },
      "contractType": {
        "epc": "0xC1",
        "descriptions": {
          "ja": "FIT契約タイプ",
          "en": "FIT contract type"
        },
        "writable": true,
        "observable": false,
        "schema": {
          "type": "string",
          "enum": [
            "fit",
            "non_fit",
            "undefined"
          ],
          "values": [
```


©2018-2022 ECHONET Consortium

```
            {
              "value": "fit",
              "descriptions": {
                "ja": "FIT",
                "en": "FIT"
              },
              "edt": "0x41"
            },
            {
              "value": "non_fit",
              "descriptions": {
                "ja": "非FIT",
                "en": "Non-FIT"
              },
              "edt": "0x42"
            },
            {
              "value": "undefined",
              "descriptions": {
                "ja": "未設定",
                "en": "No setting"
              },
              "edt": "0x43"
            }
          ]
        }
      },
      "selfConsumptionType": {
        "epc": "0xC2",
        "descriptions": {
          "ja": "自家消費タイプ",
          "en": "Self-consumption type"
        },
        "writable": false,
        "observable": false,
        "schema": {
          "type": "string",
          "enum": [
            "withSelfConsumption",
            "withoutSelfConsumption",
            "unknown"
          ],
          "values": [
            {
              "value": "withSelfConsumption",
              "descriptions": {
                "ja": "自家消費有",
                "en": "With self-consumption"
              },
              "edt": "0x41"
            },
            {
              "value": "withoutSelfConsumption",
              "descriptions": {
                "ja": "自家消費無",
                "en": "Without self-consumption"
              },
              "edt": "0x42"
            },
            {
              "value": "unknown",
```


©2018-2022 ECHONET Consortium

```
            "descriptions": {
              "ja": "不明",
              "en": "Unknown"
            },
            "edt": "0x43"
          }
        ]
      }
    },
    "approvedCapacity": {
      "epc": "0xC3",
      "descriptions": {
        "ja": "設備認定容量",
        "en": "Capacity approved by equipment"
      },
      "writable": false,
      "observable": false,
      "schema": {
        "oneOf": [
          {
            "type": "number",
            "unit": "W",
            "minimum": 0,
            "maximum": 65533
          },
          {
            "type": "string",
            "enum": [
              "noSetting"
            ],
            "values": [
              {
                "value": "noSetting",
                "descriptions": {
                  "ja": "設定なし",
                  "en": "No setting"
                },
                "edt": "0xFFFF"
              }
            ]
          }
        ]
      },
      "note": {
        "ja": "0xFFFFは未設定を示す",
        "en": "0xFFFF means No setting."
      }
    },
    "conversionCoefficient": {
      "epc": "0xC4",
      "descriptions": {
        "ja": "換算係数",
        "en": "Conversion coefficient"
      },
      "writable": false,
      "observable": false,
      "schema": {
        "type": "number",
        "unit": "%",
        "minimum": 0,
        "maximum": 100
```


©2018-2022 ECHONET Consortium

```
      }
    },
    "powerSystemInterconnectionStatus": {
      "epc": "0xD0",
      "descriptions": {
        "ja": "系統連系状態",
        "en": "System-interconnected type"
      },
      "writable": false,
      "observable": false,
      "schema": {
        "type": "string",
        "enum": [
          "reversePowerFlowAcceptable",
          "independent",
          "reversePowerFlowNotAcceptable",
          "unknown"
        ],
        "values": [
          {
            "value": "reversePowerFlowAcceptable",
            "descriptions": {
              "ja": "系統連系(逆潮流可)",
              "en": "System-interconnected type (reverse power flow acceptable)"
            },
            "edt": "0x00"
          },
          {
            "value": "independent",
            "descriptions": {
              "ja": "独立",
              "en": "Independent type"
            },
            "edt": "0x01"
          },
          {
            "value": "reversePowerFlowNotAcceptable",
            "descriptions": {
              "ja": "系統連系(逆潮流不可)",
              "en": "System-interconnected type (reverse power flow not acceptable)"
            },
            "edt": "0x02"
          },
          {
            "value": "unknown",
            "descriptions": {
              "ja": "不明",
              "en": "Unknown"
            },
            "edt": "0x03"
          }
        ]
      }
    },
    "outputPowerRestraintStatus": {
      "epc": "0xD1",
      "descriptions": {
        "ja": "出力抑制状態",
        "en": "Output power restraint status"
      },
      "writable": false,
```


©2018-2022 ECHONET Consortium

```
        "observable": false,
        "schema": {
          "type": "string",
          "enum": [
            "outputControl",
            "exceptControl",
            "reasonUnknown",
            "notPowerRestraint",
            "unknown"
          ],
          "values": [
            {
              "value": "outputControl",
              "descriptions": {
                "ja": "抑制中(出力制御)",
                "en": "Ongoing restraint (output power control)"
              },
              "edt": "0x41"
            },
            {
              "value": "exceptControl",
              "descriptions": {
                "ja": "抑制中(出力制御以外)",
                "en": "Ongoing restraint (except output power control)"
              },
              "edt": "0x42"
            },
            {
              "value": "reasonUnknown",
              "descriptions": {
                "ja": "抑制中(抑制要因不明)",
                "en": "Ongoing restraint (reason for restraint is unknown)"
              },
              "edt": "0x43"
            },
            {
              "value": "notPowerRestraint",
              "descriptions": {
                "ja": "抑制未実施",
                "en": "Not restraining"
              },
              "edt": "0x44"
            },
            {
              "value": "unknown",
              "descriptions": {
                "ja": "不明",
                "en": "Unknown"
              },
              "edt": "0x45"
            }
          ]
        }
      },
      "instantaneousElectricPowerGeneration": {
        "epc": "0xE0",
        "descriptions": {
          "ja": "瞬時発電電力計測値",
          "en": "Measured instantaneous amount of electricity generated"
        },
        "writable": false,
```


©2018-2022 ECHONET Consortium

```
        "observable": false,
        "schema": {
          "type": "number",
          "unit": "W",
          "minimum": 0,
          "maximum": 65533
        }
      },
      "cumulativeElectricEnergyOfGeneration": {
        "epc": "0xE1",
        "descriptions": {
          "ja": "積算発電電力量計測値",
          "en": "Measured cumulative amount of electric energy generated"
        },
        "writable": false,
        "observable": false,
        "schema": {
          "type": "number",
          "unit": "kWh",
          "minimum": 0,
          "maximum": 999999.999,
          "multipleOf": 0.001
        },
        "note": {
          "ja": "積算電力量を0.001kWhで示す。オーバーフロー時は0にリセット",
          "en": "This property indicates cumulative amounts of electric energy in 0.001kWh. The
value is reset to 0 after overflow."
        }
      },
      "cumulativeElectricEnergySold": {
        "epc": "0xE3",
        "descriptions": {
          "ja": "積算売電電力量計測値",
          "en": "Measured cumulative amount of electric energy sold"
        },
        "writable": false,
        "observable": false,
        "schema": {
          "type": "number",
          "unit": "kWh",
          "minimum": 0,
          "maximum": 999999.999,
          "multipleOf": 0.001
        },
        "note": {
          "ja": "売電電力の積算値を0.001kWhで示す。オーバーフロー時は0にリセット",
          "en": "This property indicates cumulative value of sold power in 0.001kWh. The value
is reset to 0 after overflow."
        }
      },
      "powerGenerationOutputLimit1": {
        "epc": "0xE5",
        "descriptions": {
          "ja": "発電電力制限設定1",
          "en": "Power generation output limit setting 1"
        },
        "writable": true,
        "observable": false,
        "schema": {
          "type": "number",
          "unit": "%",
```


©2018-2022 ECHONET Consortium

```
          "minimum": 0,
          "maximum": 100
        }
      },
      "powerGenerationOutputLimit2": {
        "epc": "0xE6",
        "descriptions": {
          "ja": "発電電力制限設定2",
          "en": "Power generation output limit setting 2"
        },
        "writable": true,
        "observable": false,
        "schema": {
          "type": "number",
          "unit": "W",
          "minimum": 0,
          "maximum": 65533
        }
      },
      "limitElectricEnergySold": {
        "epc": "0xE7",
        "descriptions": {
          "ja": "売電電力制限設定",
          "en": "Limit setting for the amount of electricity sold"
        },
        "writable": true,
        "observable": false,
        "schema": {
          "type": "number",
          "unit": "W",
          "minimum": 0,
          "maximum": 65533
        }
      },
      "ratedElectricPowerOfgeneration": {
        "epc": "0xE8",
        "descriptions": {
          "ja": "定格発電電力値(系統連系時)",
          "en": "Rated power generation output (System-interconnected)"
        },
        "writable": true,
        "observable": false,
        "schema": {
          "oneOf": [
            {
              "type": "number",
              "unit": "W",
              "minimum": 0,
              "maximum": 65533
            },
            {
              "type": "string",
              "enum": [
                "noSetting"
              ],
              "values": [
                {
                  "value": "noSetting",
                  "descriptions": {
                    "ja": "設定なし",
                    "en": "No setting"
```


©2018-2022 ECHONET Consortium

```
                  },
                  "edt": "0xFFFF"
                }
              ]
            }
          ]
        },
        "note": {
          "ja": "0xFFFFは未設定を示す",
          "en": "0xFFFF means No setting."
        }
      },
      "ratedElectricPowerOfgenerationIndependent": {
        "epc": "0xE9",
        "descriptions": {
          "ja": "定格発電電力値(独立時)",
          "en": "Rated power generation output (Independent)"
        },
        "writable": true,
        "observable": false,
        "schema": {
          "type": "number",
          "unit": "W",
          "minimum": 0,
          "maximum": 65533
        }
      }
    },
    "actions": {
      "resetCumulativeElectricEnergyOfGeneration": {
        "epc": "0xE2",
        "descriptions": {
          "ja": "積算発電電力量リセット設定",
          "en": "Resetting cumulative amount of electric energy generated"
        },
        "schema": {},
        "note": {
          "ja": "ECHONET LiteではSet only property",
          "en": "Access rule of the corresponding ECHONET Lite property is Set only."
        }
      },
      "resetCumulativeElectricEnergySold": {
        "epc": "0xE4",
        "descriptions": {
          "ja": "積算売電電力量リセット設定",
          "en": "Resetting cumulative amount of electric energy sold"
        },
        "schema": {},
        "note": {
          "ja": "ECHONET LiteではSet only property",
          "en": "Access rule of the corresponding ECHONET Lite property is Set only."
        }
      }
    }
  }
```


©2018-2022 ECHONET Consortium

Cold or hot water heat source equipment: coldOrHotWaterHeatSourceEquipment: 0x027A

Back to the List of Devices

Properties

Property Resource Name	Access Method	Data Type	EPC (EL)	Property name (EL)	Note
onTimerReservation	GET, PUT	boolean	0x90	ON timer reservation setting	
timeOfOnTimer	GET, PUT	string	0x91	ON timer setting	
relativeTimeOfOnTimer	GET, PUT	string	0x92	Relative ON timer setting	
offTimerReservation	GET, PUT	boolean	0x94	OFF timer reservation setting	
timeOfOffTimer	GET, PUT	string	0x95	Time set by OFF timer	
relativeTimeOfOffTimer	GET, PUT	string	0x96	Relative OFF timer setting	
coldWaterTemperatue2MaximumLevel	GET, PUT	number	0xD1	Cold water temperature setting 2 Maximum allowable setting level	
warmWaterTemperatue2MaximumLevel	GET, PUT	number	0xD2	Warm water temperature setting 2 Maximum allowable setting level	
operationMode	GET, PUT	string	0xE0	Operation mode setting	
waterTemperature1	GET, PUT	number, string	0xE1	Water temperature setting 1	
waterTemperature2	GET, PUT	number, string	0xE2	Water temperature setting 2	
outwardWaterTemperatureExit	GET	number, string	0xE3	Measured temperature of outward water (Exit water Temperature)	
inwardWaterTemperatureEntrance	GET	number, string	0xE4	Measured temperature of inward water (Entrance water Temperature)	

©2018-2022 ECHONET Consortium

Property Resource Name	Access Method	Data Type	EPC (EL)	Property name (EL)	Note
specialOperation	GET, PUT	string	0xE5	Special operation setting	
dailyTimer	GET, PUT	string	0xE6	Daily timer setting	
dailyTimer1	GET, PUT	array	0xE7	Daily timer setting 1	
dailyTimer2	GET, PUT	array	0xE8	Daily timer setting 2	
ratedPowerconsumption	GET	object	0xE9	Rated power consumption	
powerConsumptionMeasurementMethod	GET	string	0xEA	Power consumption measurement method	

Device Description

```
{
  "deviceType": "coldOrHotWaterHeatSourceEquipment",
  "metaData": {
    "version": "1.4.1"
  },
  "eoj": "0x027A",
  "descriptions": {
    "ja": "冷温水熱源機",
    "en": "Cold or hot water heat source equipment"
  },
  "properties": {
    "onTimerReservation": {
      "epc": "0x90",
      "descriptions": {
        "ja": "ONタイマ予約設定",
        "en": "ON timer reservation setting"
      },
      "writable": true,
      "observable": false,
      "schema": {
        "type": "boolean",
        "values": [
          {
            "value": true,
            "descriptions": {
              "ja": "予約入",
              "en": "ON"
            },
            "edt": "0x41"
          },
          {
            "value": false,
            "descriptions": {
              "ja": "予約切",
```


©2018-2022 ECHONET Consortium

```
                "en": "OFF"
              },
              "edt": "0x42"
            }
          ]
        }
      },
      "timeOfOnTimer": {
        "epc": "0x91",
        "descriptions": {
          "ja": "ONタイマ時刻設定値",
          "en": "ON timer setting"
        },
        "writable": true,
        "observable": false,
        "schema": {
          "type": "string",
          "format": "time"
        }
      },
      "relativeTimeOfOnTimer": {
        "epc": "0x92",
        "descriptions": {
          "ja": "ONタイマ相対時間設定値",
          "en": "Relative ON timer setting"
        },
        "writable": true,
        "observable": false,
        "schema": {
          "type": "string",
          "format": "time"
        }
      },
      "offTimerReservation": {
        "epc": "0x94",
        "descriptions": {
          "ja": "OFFタイマ予約設定",
          "en": "OFF timer reservation setting"
        },
        "writable": true,
        "observable": false,
        "schema": {
          "type": "boolean",
          "values": [
            {
              "value": true,
              "descriptions": {
                "ja": "予約入",
                "en": "ON"
              },
              "edt": "0x41"
            },
            {
              "value": false,
              "descriptions": {
                "ja": "予約切",
                "en": "OFF"
              },
              "edt": "0x42"
            }
          ]
```


©2018-2022 ECHONET Consortium

```
      }
    },
    "timeOfOffTimer": {
      "epc": "0x95",
      "descriptions": {
        "ja": "OFFタイマ時刻設定値",
        "en": "Time set by OFF timer"
      },
      "writable": true,
      "observable": false,
      "schema": {
        "type": "string",
        "format": "time"
      }
    },
    "relativeTimeOfOffTimer": {
      "epc": "0x96",
      "descriptions": {
        "ja": "OFFタイマ相対時間設定値",
        "en": "Relative OFF timer setting"
      },
      "writable": true,
      "observable": false,
      "schema": {
        "type": "string",
        "format": "time"
      }
    },
    "coldWaterTemperatue2MaximumLevel": {
      "epc": "0xD1",
      "descriptions": {
        "ja": "冷水温設定2設定可能最大レベル",
        "en": "Cold water temperature setting 2 Maximum allowable setting level"
      },
      "writable": true,
      "observable": true,
      "schema": {
        "type": "number",
        "minimum": 1,
        "maximum": 15,
        "multipleOf": 1
      },
      "note": {
        "ja": "冷房(冷水)水温設定2の最大段階数",
        "en": "The maximum number of steps for cooling (cold water) temperature setting 2"
      }
    },
    "warmWaterTemperatue2MaximumLevel": {
      "epc": "0xD2",
      "descriptions": {
        "ja": "温水温設定2設定可能最大レベル",
        "en": "Warm water temperature setting 2 Maximum allowable setting level"
      },
      "writable": true,
      "observable": true,
      "schema": {
        "type": "number",
        "minimum": 17,
        "maximum": 31,
        "multipleOf": 1
      },
```


©2018-2022 ECHONET Consortium

```
          "note": {
            "ja": "暖房(温水)水温設定2の最大段階数",
            "en": "The maximum number of steps for heating (warm water) temperature setting 2"
          }
        },
        "operationMode": {
          "epc": "0xE0",
          "descriptions": {
            "ja": "運転モード設定",
            "en": "Operation mode setting"
          },
          "writable": true,
          "observable": false,
          "schema": {
            "type": "string",
            "enum": [
              "heating",
              "cooling"
            ],
            "values": [
              {
                "value": "heating",
                "descriptions": {
                  "ja": "暖房",
                  "en": "Heating"
                },
                "edt": "0x41"
              },
              {
                "value": "cooling",
                "descriptions": {
                  "ja": "冷房",
                  "en": "Cooling"
                },
                "edt": "0x42"
              }
            ]
          }
        },
        "waterTemperature1": {
          "epc": "0xE1",
          "descriptions": {
            "ja": "水温設定1",
            "en": "Water temperature setting 1"
          },
          "writable": true,
          "observable": false,
          "schema": {
            "oneOf": [
              {
                "type": "number",
                "unit": "Celsius",
                "minimum": 0,
                "maximum": 100
              },
              {
                "type": "string",
                "enum": [
                  "auto"
                ],
                "values": [
```


©2018-2022 ECHONET Consortium

```
                {
                  "value": "auto",
                  "descriptions": {
                    "ja": "AUTO",
                    "en": "AUTO"
                  },
                  "edt": "0x71"
                }
              ]
            }
          ]
        }
      },
      "waterTemperature2": {
        "epc": "0xE2",
        "descriptions": {
          "ja": "水温設定2",
          "en": "Water temperature setting 2"
        },
        "writable": true,
        "observable": false,
        "schema": {
          "oneOf": [
            {
              "type": "number",
              "minimum": 1,
              "maximum": 31,
              "multipleOf": 1
            },
            {
              "type": "string",
              "enum": [
                "auto"
              ],
              "values": [
                {
                  "value": "auto",
                  "descriptions": {
                    "ja": "自動",
                    "en": "Auto"
                  },
                  "edt": "0x41"
                }
              ]
            }
          ]
        },
        "note": {
          "ja": "冷房(冷水):1~15、暖房(温水):17~31",
          "en": "Cooling (cold water) : 1 - 15, Heating (hot water) : 17 - 31"
        }
      },
      "outwardWaterTemperatureExit": {
        "epc": "0xE3",
        "descriptions": {
          "ja": "往き水温計測値(出口水温)",
          "en": "Measured temperature of outward water (Exit water Temperature)"
        },
        "writable": false,
        "observable": false,
        "schema": {
```


©2018-2022 ECHONET Consortium

```
          "oneOf": [
            {
              "type": "number",
              "unit": "Celsius",
              "minimum": 0,
              "maximum": 100
            },
            {
              "type": "string",
              "enum": [
                "undefined"
              ],
              "values": [
                {
                  "value": "undefined",
                  "descriptions": {
                    "ja": "不明",
                    "en": "Undefined"
                  },
                  "edt": "0x7E"
                }
              ]
            }
          ]
        }
      },
      "inwardWaterTemperatureEntrance": {
        "epc": "0xE4",
        "descriptions": {
          "ja": "戻り水温計測値(入口水温)",
          "en": "Measured temperature of inward water (Entrance water Temperature)"
        },
        "writable": false,
        "observable": false,
        "schema": {
          "oneOf": [
            {
              "type": "number",
              "unit": "Celsius",
              "minimum": 0,
              "maximum": 100
            },
            {
              "type": "string",
              "enum": [
                "undefined"
              ],
              "values": [
                {
                  "value": "undefined",
                  "descriptions": {
                    "ja": "不明",
                    "en": "Undefined"
                  },
                  "edt": "0x7E"
                }
              ]
            }
          ]
        }
      },
```


©2018-2022 ECHONET Consortium

```
      "specialOperation": {
        "epc": "0xE5",
        "descriptions": {
          "ja": "特殊運転設定",
          "en": "Special operation setting"
        },
        "writable": true,
        "observable": false,
        "schema": {
          "type": "string",
          "enum": [
            "normal",
            "modest",
            "highPower"
          ],
          "values": [
            {
              "value": "normal",
              "descriptions": {
                "ja": "通常運転",
                "en": "Normal operation"
              },
              "edt": "0x41"
            },
            {
              "value": "modest",
              "descriptions": {
                "ja": "ひかえめ運転",
                "en": "Modest operation"
              },
              "edt": "0x42"
            },
            {
              "value": "highPower",
              "descriptions": {
                "ja": "ハイパワー運転",
                "en": "High power operation"
              },
              "edt": "0x43"
            }
          ]
        }
      },
      "dailyTimer": {
        "epc": "0xE6",
        "descriptions": {
          "ja": "デイリータイマー設定",
          "en": "Daily timer setting"
        },
        "writable": true,
        "observable": false,
        "schema": {
          "type": "string",
          "enum": [
            "timerOff",
            "timer1",
            "timer2"
          ],
          "values": [
            {
              "value": "timerOff",
```


©2018-2022 ECHONET Consortium

```
            "descriptions": {
              "ja": "タイマー切",
              "en": "Timer OFF"
            },
            "edt": "0x40"
          },
          {
            "value": "timer1",
            "descriptions": {
              "ja": "タイマー1",
              "en": "Timer 1"
            },
            "edt": "0x41"
          },
          {
            "value": "timer2",
            "descriptions": {
              "ja": "タイマー2",
              "en": "Timer 2"
            },
            "edt": "0x42"
          }
        ]
      },
      "note": {
        "ja": "最大2種のタイマー使用可能",
        "en": "Up to 2 kinds of timer can be used"
      }
    },
    "dailyTimer1": {
      "epc": "0xE7",
      "descriptions": {
        "ja": "デイリータイマー1設定",
        "en": "Daily timer setting 1"
      },
      "writable": true,
      "observable": false,
      "schema": {
        "type": "array",
        "minItems": 0,
        "maxItems": 24,
        "items": {
          "type": "object",
          "properties": {
            "startTime": {
              "descriptions": {
                "ja": "運転開始時間",
                "en": "Start time"
              },
              "type": "string",
              "format": "time"
            },
            "endTime": {
              "descriptions": {
                "ja": "運転停止時間",
                "en": "End time"
              },
              "type": "string",
              "format": "time"
            }
          }
```


©2018-2022 ECHONET Consortium

```
          }
        },
        "note": {
          "ja": "開始分は0分もしくは30分",
          "en": "Time is fixed at 0 or 30 min."
        }
      },
      "dailyTimer2": {
        "epc": "0xE8",
        "descriptions": {
          "ja": "デイリータイマー2設定",
          "en": "Daily timer setting 2"
        },
        "writable": true,
        "observable": false,
        "schema": {
          "type": "array",
          "minItems": 0,
          "maxItems": 24,
          "items": {
            "type": "object",
            "properties": {
              "startTime": {
                "descriptions": {
                  "ja": "運転開始時間",
                  "en": "Start time"
                },
                "type": "string",
                "format": "time"
              },
              "endTime": {
                "descriptions": {
                  "ja": "運転停止時間",
                  "en": "End time"
                },
                "type": "string",
                "format": "time"
              }
            }
          }
        },
        "note": {
          "ja": "開始分は0分もしくは30分",
          "en": "Time is fixed at 0 or 30 min."
        }
      },
      "ratedPowerconsumption": {
        "epc": "0xE9",
        "descriptions": {
          "ja": "定格消費電力値",
          "en": "Rated power consumption"
        },
        "writable": false,
        "observable": false,
        "schema": {
          "type": "object",
          "properties": {
            "heating": {
              "descriptions": {
                "ja": "暖房(温水)運転モード時の定格消費電力",
                "en": "Rated power consumption of heater (hot water) mode in watts"
```


©2018-2022 ECHONET Consortium

```
            },
            "type": "number",
            "unit": "W",
            "minimum": 0,
            "maximum": 65533
          },
          "cooling": {
            "descriptions": {
              "ja": "冷房(冷水)運転モード時の定格消費電力",
              "en": "Rated power consumption of cooler (cold water) mode in watts"
            },
            "type": "number",
            "unit": "W",
            "minimum": 0,
            "maximum": 65533
          }
        }
      },
      "note": {
        "ja": "暖房(温水) : 冷房(冷水)",
        "en": "Heater (hot water) : cooler (cold water)"
      }
    },
    "powerConsumptionMeasurementMethod": {
      "epc": "0xEA",
      "descriptions": {
        "ja": "消費電力計測方法",
        "en": "Power consumption measurement method"
      },
      "writable": false,
      "observable": false,
      "schema": {
        "type": "string",
        "enum": [
          "nodeUnit",
          "classUnit",
          "instanceUnit"
        ],
        "values": [
          {
            "value": "nodeUnit",
            "descriptions": {
              "ja": "ノード単位",
              "en": "Node unit"
            },
            "edt": "0x41"
          },
          {
            "value": "classUnit",
            "descriptions": {
              "ja": "クラス単位",
              "en": "Class unit"
            },
            "edt": "0x42"
          },
          {
            "value": "instanceUnit",
            "descriptions": {
              "ja": "インスタンス単位",
              "en": "Instance unit"
            },
```


©2018-2022 ECHONET Consortium

```
                "edt": "0x43"
              }
            ]
          }
        }
      }
    }
```


©2018-2022 ECHONET Consortium

Floor heater: floorHeater: 0x027B

Back to the List of Devices

Properties

Property Resource Name	Access Method	Data Type	EPC (EL)	Property name (EL)	Note
onTimerReservation	GET, PUT	string	0x90	ON timer reservation setting	
timeOfOnTimer	GET, PUT	string	0x91	Time set by ON timer	
relativeTimeOfOnTimer	GET, PUT	string	0x92	Relative ON timer setting	
offTimerReservation	GET, PUT	string	0x94	OFF timer reservation setting	
timeOfOffTimer	GET, PUT	string	0x95	Time set by OFF timer	
relativeTimeOfOffTimer	GET, PUT	string	0x96	Relative OFF timer setting	
maximumTargetTemperature2	GET	number	0xD1	Maximum temperature level	
targetTemperature1	GET, PUT	number, string	0xE0	Set temperature value	
targetTemperature2	GET, PUT	number, string	0xE1	Set temperature level by 15 steps	
measuredRoomTemperature	GET	number, string	0xE2	Measured room temperature	
measuredFloorTemperature	GET	number, string	0xE3	Measured floor temperature	
controllableZone	GET, PUT	array	0xE4	Zone change setting	
specialOperationMode	GET, PUT	string	0xE5	Special operation setting	
dailyTimer	GET, PUT	string	0xE6	Daily timer setting	
workedDailyTimer1	GET, PUT	array	0xE7	Daily timer setting 1	*1
workedDailyTimer2	GET, PUT	array	0xE8	Daily timer setting 2	*1
ratedPowerConsumption	GET	number	0xE9	Rated power consumption	
powerMeasurementMethod	GET	string	0xEA	Power consumption measurement method	

*1 Regarding daily timer 1 setting and daily timer 2 setting, whether allowing the setting across 2 days, shall depen on implementation.

©2018-2022 ECHONET Consortium

```
{
    "workedDailyTimer1":[
        {
            "startTime":"21:30",
            "endTime":"7:30"
        }
    ]
}
```

Device Description

```
{
  "deviceType": "floorHeater",
  "metaData": {
    "version": "1.4.0"
  },
  "eoj": "0x027B",
  "descriptions": {
    "ja": "床暖房",
    "en": "Floor heater"
  },
  "properties": {
    "onTimerReservation": {
      "epc": "0x90",
      "descriptions": {
        "ja": "ON タイマ予約設定",
        "en": "ON timer reservation setting"
      },
      "writable": true,
      "observable": false,
      "schema": {
        "type": "string",
        "enum": [
          "on",
          "off"
        ],
        "values": [
          {
            "value": "on",
            "descriptions": {
              "ja": "予約入",
              "en": "ON"
            },
            "edt": "0x41"
          },
          {
            "value": "off",
            "descriptions": {
              "ja": "予約切",
              "en": "OFF"
            },
            "edt": "0x42"
          }
        ]
      }
    },
    "timeOfOnTimer": {
      "epc": "0x91",
```


©2018-2022 ECHONET Consortium

```
        "descriptions": {
          "ja": "ON タイマ時刻設定値",
          "en": "Time set by ON timer"
        },
        "writable": true,
        "observable": false,
        "schema": {
          "type": "string",
          "format": "time"
        },
        "note": {
          "ja": "秒の指定は無視される",
          "en": "Number of seconds is ignored."
        }
      },
      "relativeTimeOfOnTimer": {
        "epc": "0x92",
        "descriptions": {
          "ja": "ON タイマ相対時間設定値",
          "en": "Relative ON timer setting"
        },
        "writable": true,
        "observable": false,
        "schema": {
          "type": "string",
          "format": "time"
        },
        "note": {
          "ja": "秒の指定は無視される",
          "en": "Number of seconds is ignored."
        }
      },
      "offTimerReservation": {
        "epc": "0x94",
        "descriptions": {
          "ja": "OFF タイマ予約設定",
          "en": "OFF timer reservation setting"
        },
        "writable": true,
        "observable": false,
        "schema": {
          "type": "string",
          "enum": [
            "on",
            "off"
          ],
          "values": [
            {
              "value": "on",
              "descriptions": {
                "ja": "予約入",
                "en": "ON"
              },
              "edt": "0x41"
            },
            {
              "value": "off",
              "descriptions": {
                "ja": "予約切",
                "en": "OFF"
              },
```


©2018-2022 ECHONET Consortium

```
                "edt": "0x42"
              }
            ]
          }
        },
        "timeOfOffTimer": {
          "epc": "0x95",
          "descriptions": {
            "ja": "OFF タイマ時刻設定値",
            "en": "Time set by OFF timer"
          },
          "writable": true,
          "observable": false,
          "schema": {
            "type": "string",
            "format": "time"
          },
          "note": {
            "ja": "秒の指定は無視される",
            "en": "Number of seconds is ignored."
          }
        },
        "relativeTimeOfOffTimer": {
          "epc": "0x96",
          "descriptions": {
            "ja": "OFF タイマ相対時間設定値",
            "en": "Relative OFF timer setting"
          },
          "writable": true,
          "observable": false,
          "schema": {
            "type": "string",
            "format": "time"
          },
          "note": {
            "ja": "秒の指定は無視される",
            "en": "Number of seconds is ignored."
          }
        },
        "maximumTargetTemperature2": {
          "epc": "0xD1",
          "descriptions": {
            "ja": "温度設定2設定可能最大レベル",
            "en": "Maximum temperature level"
          },
          "writable": false,
          "observable": true,
          "schema": {
            "type": "number",
            "minimum": 1,
            "maximum": 15,
            "multipleOf": 1
          }
        },
        "targetTemperature1": {
          "epc": "0xE0",
          "descriptions": {
            "ja": "温度設定1",
            "en": "Set temperature value"
          },
          "writable": true,
```


©2018-2022 ECHONET Consortium

```
        "observable": false,
        "schema": {
          "oneOf": [
            {
              "type": "number",
              "unit": "Celsius",
              "minimum": 0,
              "maximum": 50
            },
            {
              "type": "string",
              "enum": [
                "auto"
              ],
              "values": [
                {
                  "value": "auto",
                  "descriptions": {
                    "ja": "自動",
                    "en": "Auto"
                  },
                  "edt": "0x41"
                }
              ]
            }
          ]
        }
      },
      "targetTemperature2": {
        "epc": "0xE1",
        "descriptions": {
          "ja": "温度設定2",
          "en": "Set temperature level by 15 steps"
        },
        "writable": true,
        "observable": false,
        "schema": {
          "oneOf": [
            {
              "type": "number",
              "minimum": 1,
              "maximum": 15,
              "multipleOf": 1
            },
            {
              "type": "string",
              "enum": [
                "auto"
              ],
              "values": [
                {
                  "value": "auto",
                  "descriptions": {
                    "ja": "自動",
                    "en": "Auto"
                  },
                  "edt": "0x41"
                }
              ]
            }
          ]
```


©2018-2022 ECHONET Consortium

```
      }
    },
    "measuredRoomTemperature": {
      "epc": "0xE2",
      "descriptions": {
        "ja": "室内温度計測値",
        "en": "Measured room temperature"
      },
      "writable": false,
      "observable": false,
      "schema": {
        "oneOf": [
          {
            "type": "number",
            "unit": "Celsius",
            "minimum": -127,
            "maximum": 125
          },
          {
            "type": "string",
            "enum": [
              "undefined"
            ],
            "values": [
              {
                "value": "undefined",
                "descriptions": {
                  "ja": "不明",
                  "en": "Undefined"
                },
                "edt": "0x7E"
              }
            ]
          }
        ]
      }
    },
    "measuredFloorTemperature": {
      "epc": "0xE3",
      "descriptions": {
        "ja": "床温度計測値",
        "en": "Measured floor temperature"
      },
      "writable": false,
      "observable": false,
      "schema": {
        "oneOf": [
          {
            "type": "number",
            "unit": "Celsius",
            "minimum": -127,
            "maximum": 125
          },
          {
            "type": "string",
            "enum": [
              "undefined"
            ],
            "values": [
              {
                "value": "undefined",
```


©2018-2022 ECHONET Consortium

```
                "descriptions": {
                  "ja": "不明",
                  "en": "Undefined"
                },
                "edt": "0x7E"
              }
            ]
          }
        ]
      }
    },
    "controllableZone": {
      "epc": "0xE4",
      "descriptions": {
        "ja": "ゾーン切替え設定",
        "en": "Zone change setting"
      },
      "writable": true,
      "observable": false,
      "schema": {
        "type": "array",
        "minItems": 8,
        "maxItems": 8,
        "items": {
          "type": "boolean",
          "values": [
            {
              "value": true,
              "descriptions": {
                "ja": "制御有り",
                "en": "With control"
              },
              "edt": "0x01"
            },
            {
              "value": false,
              "descriptions": {
                "ja": "制御無し",
                "en": "Without control"
              },
              "edt": "0x00"
            }
          ]
        }
      },
      "note": {
        "ja": "対象となるフロアを最大8ゾーンに分割し制御する場合に、制御するゾーンを設定し、設定可能なゾーンを取得する",
        "en": "Sets the target zone for control and gets the number of controllable zones. The maximum number of zones for the floor is 8."
      }
    },
    "specialOperationMode": {
      "epc": "0xE5",
      "descriptions": {
        "ja": "特殊運転設定",
        "en": "Special operation setting"
      },
      "writable": true,
      "observable": false,
      "schema": {
```


©2018-2022 ECHONET Consortium

```
          "type": "string",
          "enum": [
            "normal",
            "modest",
            "highPower"
          ],
          "values": [
            {
              "value": "normal",
              "descriptions": {
                "ja": "通常運転",
                "en": "Normal"
              },
              "edt": "0x41"
            },
            {
              "value": "modest",
              "descriptions": {
                "ja": "ひかえめ運転",
                "en": "Modest"
              },
              "edt": "0x42"
            },
            {
              "value": "highPower",
              "descriptions": {
                "ja": "ハイパワー運転",
                "en": "High power"
              },
              "edt": "0x43"
            }
          ]
        }
      },
      "dailyTimer": {
        "epc": "0xE6",
        "descriptions": {
          "ja": "デイリータイマー設定",
          "en": "Daily timer setting"
        },
        "writable": true,
        "observable": false,
        "schema": {
          "type": "string",
          "enum": [
            "off",
            "timer1",
            "timer2"
          ],
          "values": [
            {
              "value": "off",
              "descriptions": {
                "ja": "タイマー切",
                "en": "OFF"
              },
              "edt": "0x40"
            },
            {
              "value": "timer1",
              "descriptions": {
```


©2018-2022 ECHONET Consortium

```
                "ja": "タイマー1",
                "en": "Timer1"
              },
              "edt": "0x41"
            },
            {
              "value": "timer2",
              "descriptions": {
                "ja": "タイマー2",
                "en": "Timer2"
              },
              "edt": "0x42"
            }
          ]
        }
      },
      "workedDailyTimer1": {
        "epc": "0xE7",
        "descriptions": {
          "ja": "デイリータイマー1設定",
          "en": "Daily timer setting 1"
        },
        "writable": true,
        "observable": false,
        "schema": {
          "type": "array",
          "minItems": 0,
          "maxItems": 24,
          "items": {
            "type": "object",
            "properties": {
              "startTime": {
                "descriptions": {
                  "ja": "運転開始時間",
                  "en": "Start time"
                },
                "type": "string",
                "format": "time"
              },
              "endTime": {
                "descriptions": {
                  "ja": "運転停止時間",
                  "en": "End time"
                },
                "type": "string",
                "format": "time"
              }
            }
          }
        },
        "note": {
          "ja": "開始分は0分もしくは30分",
          "en": "Time is fixed at 0 or 30 min."
        }
      },
      "workedDailyTimer2": {
        "epc": "0xE8",
        "descriptions": {
          "ja": "デイリータイマー2設定",
          "en": "Daily timer setting 2"
        },
```


©2018-2022 ECHONET Consortium

```
        "writable": true,
        "observable": false,
        "schema": {
          "type": "array",
          "minItems": 0,
          "maxItems": 24,
          "items": {
            "type": "object",
            "properties": {
              "startTime": {
                "descriptions": {
                  "ja": "運転開始時間",
                  "en": "Start time"
                },
                "type": "string",
                "format": "time"
              },
              "endTime": {
                "descriptions": {
                  "ja": "運転停止時間",
                  "en": "End time"
                },
                "type": "string",
                "format": "time"
              }
            }
          }
        },
        "note": {
          "ja": "開始分は0分もしくは30分",
          "en": "Time is fixed at 0 or 30 min."
        }
      },
      "ratedPowerConsumption": {
        "epc": "0xE9",
        "descriptions": {
          "ja": "定格消費電力値",
          "en": "Rated power consumption"
        },
        "writable": false,
        "observable": false,
        "schema": {
          "type": "number",
          "unit": "W",
          "minimum": 0,
          "maximum": 65533
        }
      },
      "powerMeasurementMethod": {
        "epc": "0xEA",
        "descriptions": {
          "ja": "消費電力計測方法",
          "en": "Power consumption measurement method"
        },
        "writable": false,
        "observable": false,
        "schema": {
          "type": "string",
          "enum": [
            "node",
            "class",
```


©2018-2022 ECHONET Consortium

```
            "instance"
          ],
          "values": [
            {
              "value": "node",
              "descriptions": {
                "ja": "ノード単位",
                "en": "Node unit"
              },
              "edt": "0x41"
            },
            {
              "value": "class",
              "descriptions": {
                "ja": "クラス単位",
                "en": "Class unit"
              },
              "edt": "0x42"
            },
            {
              "value": "instance",
              "descriptions": {
                "ja": "インスタンス単位",
                "en": "Instance unit"
              },
              "edt": "0x43"
            }
          ]
        }
      }
    }
  }
```


©2018-2022 ECHONET Consortium

Fuel cell: fuelCell: 0x027C

Back to the List of Devices

Properties

Property Resource Name	Access Method	Data Type	EPC (EL)	Property name (EL)	Note
waterTemperatureInWaterHeater	GET	number	0xC1	Measured temperature of water in water heater	
ratedElectricPowerOfGeneration	GET	number	0xC2	Rated power generation output	
heatCapacityOfStorageTank	GET	number	0xC3	Heating value of hot water storage tank	
instantaneousElectricPowerOfGeneration	GET	number	0xC4	Measured instantaneous power generation output	
cumulativeElectricEnergyOfGeneration	GET	number	0xC5	Measured cumulative power generation output	
instantaneousGasConsumption	GET	number	0xC7	Measured instantaneous gas consumption	
cumulativeGasConsumption	GET	number	0xC8	Measured cumulative gas consumption	
powerGenerationSetting	GET, PUT	string	0xCA	Power generation setting	
powerGenerationStatus	GET	string	0xCB	Power generation status	
inHouseInstantaneousPowerConsumption	GET	number	0xCC	Measured in-house instantaneous power consumption	
inHouseCumulativeEnergyConsumption	GET	number	0xCD	Measured in-house cumulative energy consumption	
powerSystemInterconnectionStatus	GET	string	0xD0	System interconnected type	
requestedTimeOfGeneration	GET, PUT	object, string	0xD1	Power generation request time setting	
powerGenerationMode	GET, PUT	string	0xD2	Designated power generation status	

©2018-2022 ECHONET Consortium

Property Resource Name	Access Method	Data Type	EPC (EL)	Property name (EL)	Note
remainingHotWaterAmount	GET	number	0xE1	Measured remaining hot water amount	
tankCapacity	GET	number	0xE2	Tank capacity	

Actions

Property Resource Name	Access Method	EPC (EL)	Property name (EL)	Note
cumulativeEnergyGenerationOutputReset	POST	0xC6	Cumulative energy generation output reset setting	
cumulativeGasConsumptionReset	POST	0xC9	Cumulative gas consumption reset setting	
inHouseCumulativeEnergyConsumptionReset	POST	0xCE	In-house cumulative energy consumption reset	

Device Description

```
{
  "deviceType": "fuelCell",
  "metaData": {
    "version": "1.4.0"
  },
  "eoj": "0x027C",
  "descriptions": {
    "ja": "燃料電池",
    "en": "Fuel cell"
  },
  "properties": {
    "waterTemperatureInWaterHeater": {
      "epc": "0xC1",
      "descriptions": {
        "ja": "温水器湯温計測値",
        "en": "Measured temperature of water in water heater"
      },
      "writable": false,
      "observable": false,
      "schema": {
        "type": "number",
        "unit": "Celsius",
        "minimum": 0,
        "maximum": 100
      }
    },
    "ratedElectricPowerOfGeneration": {
      "epc": "0xC2",
      "descriptions": {
        "ja": "定格発電出力",
        "en": "Rated power generation output"
```


©2018-2022 ECHONET Consortium

```
        },
        "writable": false,
        "observable": false,
        "schema": {
          "type": "number",
          "unit": "W",
          "minimum": 0,
          "maximum": 65533
        }
      },
      "heatCapacityOfStorageTank": {
        "epc": "0xC3",
        "descriptions": {
          "ja": "貯湯槽熱量",
          "en": "Heating value of hot water storage tank"
        },
        "writable": false,
        "observable": false,
        "schema": {
          "type": "number",
          "unit": "MJ",
          "minimum": 0,
          "maximum": 65533
        }
      },
      "instantaneousElectricPowerOfGeneration": {
        "epc": "0xC4",
        "descriptions": {
          "ja": "瞬時発電電力計測値",
          "en": "Measured instantaneous power generation output"
        },
        "writable": false,
        "observable": false,
        "schema": {
          "type": "number",
          "unit": "W",
          "minimum": 0,
          "maximum": 65533
        }
      },
      "cumulativeElectricEnergyOfGeneration": {
        "epc": "0xC5",
        "descriptions": {
          "ja": "積算発電電力量計測値",
          "en": "Measured cumulative power generation output"
        },
        "writable": false,
        "observable": false,
        "schema": {
          "type": "number",
          "unit": "kWh",
          "minimum": 0,
          "maximum": 999999.999,
          "multipleOf": 0.001
        }
      },
      "instantaneousGasConsumption": {
        "epc": "0xC7",
        "descriptions": {
          "ja": "瞬時ガス消費量計測値",
          "en": "Measured instantaneous gas consumption"
```


©2018-2022 ECHONET Consortium

```
        },
        "writable": false,
        "observable": false,
        "schema": {
          "type": "number",
          "unit": "m3/h",
          "minimum": 0,
          "maximum": 65.533,
          "multipleOf": 0.001
        }
      },
      "cumulativeGasConsumption": {
        "epc": "0xC8",
        "descriptions": {
          "ja": "積算ガス消費量計測値",
          "en": "Measured cumulative gas consumption"
        },
        "writable": false,
        "observable": false,
        "schema": {
          "type": "number",
          "unit": "m3",
          "minimum": 0,
          "maximum": 999999.999,
          "multipleOf": 0.001
        }
      },
      "powerGenerationSetting": {
        "epc": "0xCA",
        "descriptions": {
          "ja": "発電動作設定",
          "en": "Power generation setting"
        },
        "writable": true,
        "observable": false,
        "schema": {
          "type": "string",
          "enum": [
            "generationOn",
            "generationOff"
          ],
          "values": [
            {
              "value": "generationOn",
              "descriptions": {
                "ja": "発電動作",
                "en": "Power generation ON"
              },
              "edt": "0x41"
            },
            {
              "value": "generationOff",
              "descriptions": {
                "ja": "発電停止",
                "en": "Power generation OFF"
              },
              "edt": "0x42"
            }
          ]
        }
      },
```


©2018-2022 ECHONET Consortium

```
    "powerGenerationStatus": {
      "epc": "0xCB",
      "descriptions": {
        "ja": "発電動作状態",
        "en": "Power generation status"
      },
      "writable": false,
      "observable": true,
      "schema": {
        "type": "string",
        "enum": [
          "generating",
          "stopped",
          "starting",
          "stopping",
          "idling"
        ],
        "values": [
          {
            "value": "generating",
            "descriptions": {
              "ja": "発電中",
              "en": "Generating"
            },
            "edt": "0x41"
          },
          {
            "value": "stopped",
            "descriptions": {
              "ja": "停止中",
              "en": "Stopped"
            },
            "edt": "0x42"
          },
          {
            "value": "starting",
            "descriptions": {
              "ja": "起動中",
              "en": "Starting"
            },
            "edt": "0x43"
          },
          {
            "value": "stopping",
            "descriptions": {
              "ja": "停止動作中",
              "en": "Stopping"
            },
            "edt": "0x44"
          },
          {
            "value": "idling",
            "descriptions": {
              "ja": "アイドル中",
              "en": "Idling"
            },
            "edt": "0x45"
          }
        ]
      }
    },
```


©2018-2022 ECHONET Consortium

```
      "inHouseInstantaneousPowerConsumption": {
        "epc": "0xCC",
        "descriptions": {
          "ja": "宅内瞬時消費電力計測値",
          "en": "Measured in-house instantaneous power consumption"
        },
        "writable": false,
        "observable": false,
        "schema": {
          "type": "number",
          "unit": "W",
          "minimum": 0,
          "maximum": 65533
        }
      },
      "inHouseCumulativeEnergyConsumption": {
        "epc": "0xCD",
        "descriptions": {
          "ja": "宅内積算消費電力量計測値",
          "en": "Measured in-house cumulative energy consumption"
        },
        "writable": false,
        "observable": false,
        "schema": {
          "type": "number",
          "unit": "kWh",
          "minimum": 0,
          "maximum": 999999.999,
          "multipleOf": 0.001
        }
      },
      "powerSystemInterconnectionStatus": {
        "epc": "0xD0",
        "descriptions": {
          "ja": "系統連系状態",
          "en": "System interconnected type"
        },
        "writable": false,
        "observable": false,
        "schema": {
          "type": "string",
          "enum": [
            "reversePowerFlowAcceptable",
            "independent",
            "reversePowerFlowNotAcceptable"
          ],
          "values": [
            {
              "value": "reversePowerFlowAcceptable",
              "descriptions": {
                "ja": "系統連系 (逆潮流可)",
                "en": "System interconnected type (reverse power flow acceptable)"
              },
              "edt": "0x00"
            },
            {
              "value": "independent",
              "descriptions": {
                "ja": "独立",
                "en": "Independent type"
              },
```


©2018-2022 ECHONET Consortium

```
              "edt": "0x01"
            },
            {
              "value": "reversePowerFlowNotAcceptable",
              "descriptions": {
                "ja": "系統連系 (逆潮流不可)",
                "en": "System interconnected type (reverse power flow not acceptable)"
              },
              "edt": "0x02"
            }
          ]
        }
      },
      "requestedTimeOfGeneration": {
        "epc": "0xD1",
        "descriptions": {
          "ja": "発電要請時刻設定",
          "en": "Power generation request time setting"
        },
        "writable": true,
        "observable": false,
        "schema": {
          "oneOf": [
            {
              "type": "object",
              "properties": {
                "startTime": {
                  "descriptions": {
                    "ja": "開始時刻",
                    "en": "Start time"
                  },
                  "type": "string",
                  "format": "time"
                },
                "endTime": {
                  "descriptions": {
                    "ja": "終了時刻",
                    "en": "End time"
                  },
                  "type": "string",
                  "format": "time"
                }
              }
            },
            {
              "type": "string",
              "enum": [
                "undefined"
              ],
              "values": [
                {
                  "value": "undefined",
                  "descriptions": {
                    "ja": "未設定",
                    "en": "Undefined"
                  },
                  "edt": "0xFFFFFFFF"
                }
              ]
            }
          ]
```


©2018-2022 ECHONET Consortium

```
        },
        "note": {
          "ja": "秒の指定は無視される",
          "en": "Number of seconds is ignored."
        }
      },
      "powerGenerationMode": {
        "epc": "0xD2",
        "descriptions": {
          "ja": "指定発電状態",
          "en": "Designated power generation status"
        },
        "writable": true,
        "observable": false,
        "schema": {
          "type": "string",
          "enum": [
            "maximumRating",
            "loadFollowing"
          ],
          "values": [
            {
              "value": "maximumRating",
              "descriptions": {
                "ja": "定格最大での発電",
                "en": "Power generation at the maximum rating"
              },
              "edt": "0x41"
            },
            {
              "value": "loadFollowing",
              "descriptions": {
                "ja": "負荷追従での発電",
                "en": "Load following power generation"
              },
              "edt": "0x42"
            }
          ]
        }
      },
      "remainingHotWaterAmount": {
        "epc": "0xE1",
        "descriptions": {
          "ja": "残湯量計測値",
          "en": "Measured remaining hot water amount"
        },
        "writable": false,
        "observable": false,
        "schema": {
          "type": "number",
          "unit": "L",
          "minimum": 0,
          "maximum": 65533
        }
      },
      "tankCapacity": {
        "epc": "0xE2",
        "descriptions": {
          "ja": "タンク容量値",
          "en": "Tank capacity"
        },
```


©2018-2022 ECHONET Consortium

```
        "writable": false,
        "observable": false,
        "schema": {
          "type": "number",
          "unit": "L",
          "minimum": 0,
          "maximum": 65533
        }
      }
    },
    "actions": {
      "cumulativeEnergyGenerationOutputReset": {
        "epc": "0xC6",
        "descriptions": {
          "ja": "積算発電電力量リセット設定",
          "en": "Cumulative energy generation output reset setting"
        },
        "schema": {},
        "note": {
          "ja": "ECHONET LiteではSet only property",
          "en": "Access rule of the corresponding ECHONET Lite property is Set only."
        }
      },
      "cumulativeGasConsumptionReset": {
        "epc": "0xC9",
        "descriptions": {
          "ja": "積算ガス消費量リセット設定",
          "en": "Cumulative gas consumption reset setting"
        },
        "schema": {},
        "note": {
          "ja": "ECHONET LiteではSet only property",
          "en": "Access rule of the corresponding ECHONET Lite property is Set only."
        }
      },
      "inHouseCumulativeEnergyConsumptionReset": {
        "epc": "0xCE",
        "descriptions": {
          "ja": "宅内積算消費電力量リセット設定",
          "en": "In-house cumulative energy consumption reset"
        },
        "schema": {},
        "note": {
          "ja": "ECHONET LiteではSet only property",
          "en": "Access rule of the corresponding ECHONET Lite property is Set only."
        }
      }
    }
  }
```


©2018-2022 ECHONET Consortium

Storage battery: storageBattery: 0x027D

Back to the List of Devices

Note to Client:

The chargingMethod property indicates the charging method when the operationMode property is set to "charging". When the value of the chargingMethod property is "designatedPower", the value of the chargingPower property indicates the designated charging amount. When the value of the chargingMethod property is "designatedCurrent", the chargingCurrent property value indicates the designated charging amount. Also, note that there are some storage batteries for which the chargingMethod property value changes to "designatedPower" by setting the chargingPower property, or the chargingMethod property value changes to "designatedCurrent" by setting the chargingCurrent property.

The dischargingMethod property indicates the discharging method when the operationMode property is set to "discharging". When the value of the dischargingMethod property is "designatedPower", the value of the dischargingPower property indicates the designated discharging amount. When the value of the dischargingMethod property is "designatedCurrent", the dischargingCurrent property value indicates the designated discharging amount. Also, note that there are some storage batteries for which the dischargingMethod property value changes to "designatedPower" by setting the dischargingPower property, or the dischargingMethod property value changes to "designatedCurrent" by setting the dischargingCurrent property.

Properties

Property Resource Name	Access Method	Data Type	EPC (EL)	Property name (EL)	Note
acEffectiveChargingCapacity	GET	number	0xA0	AC effective capacity (charging)	
acEffectiveDischargingCapacity	GET	number	0xA1	AC effective capacity (discharging)	
acChargeableCapacity	GET	number	0xA2	AC chargeable capacity	
acDischargeableCapacity	GET	number	0xA3	AC dischargeable capacity	
acChargeableElectricEnergy	GET	number	0xA4	AC chargeable electric energy	
acDischargeableElectricEnergy	GET	number	0xA5	AC dischargeable electric energy	
acChargeUpperLimit	GET, PUT	number	0xA6	AC charge upper limit setting	

©2018-2022 ECHONET Consortium

Property Resource Name	Access Method	Data Type	EPC (EL)	Property name (EL)	Note
acDischargeLowerLimit	GET, PUT	number	0xA7	AC discharge lower limit setting	
acCumulativeChargingElectricEnergy	GET	number	0xA8	AC measured cumulative charging electric energy	
acCumulativeDischargingElectricEnergy	GET	number	0xA9	AC measured cumulative discharging electric energy	
acTargetChargingElectricEnergy	GET, PUT	number, string	0xAA	AC charge amount setting value	
acTargetDischargingElectricEnergy	GET, PUT	number, string	0xAB	AC discharge amount setting value	
chargingMethod	GET, PUT	string	0xC1	Charging method	
dischargingMethod	GET, PUT	string	0xC2	Discharging method	
acRatedElectricEnergy	GET	number	0xC7	AC rated electric energy	
minimumAndMaximumChargingElectricPower	GET	object	0xC8	Minimum/maximum charging electric power	
minimumAndMaximumDischargingElectricPower	GET	object	0xC9	Minimum/maximum discharging electric power	
minimumAndMaximumChargingCurrent	GET	object	0xCA	Minimum/maximum charging current	
minimumAndMaximumDischargingCurrent	GET	object	0xCB	Minimum/maximum discharging current	
reInterconnectionPermission	GET, PUT	string	0xCC	Re-interconnection permission setting	
operationPermission	GET, PUT	string	0xCD	Operation permission setting	

©2018-2022 ECHONET Consortium

Property Resource Name	Access Method	Data Type	EPC (EL)	Property name (EL)	Note
independentOperationPermission	GET, PUT	string	0xCE	Independent operation permission setting	
actualOperationMode	GET	string	0xCF	Working operation status	
ratedElectricEnergy	GET	number	0xD0	Rated electric energy	
ratedCapacity	GET	number	0xD1	Rated capacity	
ratedVoltage	GET	number	0xD2	Rated voltage	
instantaneousChargingAndDischargingElectricPower	GET	number	0xD3	Measured instantaneous charging/discharging electric energy	
instantaneousChargingAndDischargingCurrent	GET	number	0xD4	Measured instantaneous charging/discharging current	
instantaneousChargingAndDischargingVoltage	GET	number	0xD5	Measured instantaneous charging/discharging voltage	
cumulativeDischargingElectricEnergy	GET	number	0xD6	Measured cumulative discharging electric energy	
cumulativeChargingElectricEnergy	GET	number	0xD8	Measured cumulative charging electric energy	
operationMode	GET, PUT	string	0xDA	Operation mode setting	
powerSystemInterconnectionStatus	GET	string	0xDB	System-interconnected type	
minimumAndMaximumChargingPowerAtIndependent	GET	object	0xDC	Minimum/maximum charging power (Independent)	

©2018-2022 ECHONET Consortium

Property Resource Name	Access Method	Data Type	EPC (EL)	Property name (EL)	Note
minimumAndMaximumDischargingPowerAtIndependent	GET	object	0xDD	Minimum/maximum discharging power (Independent)	
minimumAndMaximumChargingCurrentAtIndependent	GET	object	0xDE	Minimum/maximum charging current (Independent)	
minimumAndMaximumDischargingCurrentAtIndependent	GET	object	0xDF	Minimum/maximum discharging current (Independent)	
chargingAndDischargingAmount1	GET, PUT	number, number	0xE0	Charging/discharging amount setting 1	
chargingAndDischargingAmount2	GET, PUT	number, number	0xE1	Charging/discharging amount setting 2	
remainingCapacity1	GET	number	0xE2	Remaining stored electricity 1	
remainingCapacity2	GET	number	0xE3	Remaining stored electricity 2	
remainingCapacity3	GET	number	0xE4	Remaining stored electricity 3	
batteryHealthState	GET	number	0xE5	Battery state of health	
batteryType	GET	string	0xE6	Battery type	
chargingAmount1	GET, PUT	number	0xE7	Charging amount setting 1	
dischargingAmount1	GET, PUT	number	0xE8	Discharging amount setting 1	
chargingAmount2	GET, PUT	number	0xE9	Charging amount setting 2	
dischargingAmount2	GET, PUT	number	0xEA	Discharging amount setting 2	
chargingPower	GET, PUT	number	0xEB	Charging electric energy setting	
dischargingPower	GET, PUT	number	0xEC	Discharging electric energy setting	

©2018-2022 ECHONET Consortium

Property Resource Name	Access Method	Data Type	EPC (EL)	Property name (EL)	Note
chargingCurrent	GET, PUT	number	0xED	Charging current setting	
dischargingCurrent	GET, PUT	number	0xEE	Discharging current setting	
ratedVoltageAtIndependent	GET	number	0xEF	Rated voltage (Independent)	

Actions

Property Resource Name	Access Method	EPC (EL)	Property name (EL)	Note
resetCumulativeDischargingElectricEnergy	POST	0xD7	Measured cumulative discharging electric energy reset setting	
resetCumulativeChargingElectricEnergy	POST	0xD9	Measured cumulative charging electric energy reset setting	

Device Description


```
{
  "deviceType": "storageBattery",
  "metaData": {
    "version": "1.4.0"
  },
  "eoj": "0x027D",
  "descriptions": {
    "ja": "蓄電池",
    "en": "Storage battery"
  },
  "properties": {
    "acEffectiveChargingCapacity": {
      "epc": "0xA0",
      "descriptions": {
        "ja": "AC実効容量 (充電)",
        "en": "AC effective capacity (charging)"
      },
      "writable": false,
      "observable": false,
      "schema": {
        "type": "number",
        "unit": "Wh",
        "minimum": 0,
        "maximum": 999999999
      }
    },
    "acEffectiveDischargingCapacity": {
      "epc": "0xA1",
      "descriptions": {
        "ja": "AC実効容量 (放電)",
```


©2018-2022 ECHONET Consortium

```
          "en": "AC effective capacity (discharging)"
        },
        "writable": false,
        "observable": false,
        "schema": {
          "type": "number",
          "unit": "Wh",
          "minimum": 0,
          "maximum": 999999999
        }
      },
      "acChargeableCapacity": {
        "epc": "0xA2",
        "descriptions": {
          "ja": "AC充電可能容量",
          "en": "AC chargeable capacity"
        },
        "writable": false,
        "observable": false,
        "schema": {
          "type": "number",
          "unit": "Wh",
          "minimum": 0,
          "maximum": 999999999
        }
      },
      "acDischargeableCapacity": {
        "epc": "0xA3",
        "descriptions": {
          "ja": "AC放電可能容量",
          "en": "AC dischargeable capacity"
        },
        "writable": false,
        "observable": false,
        "schema": {
          "type": "number",
          "unit": "Wh",
          "minimum": 0,
          "maximum": 999999999
        }
      },
      "acChargeableElectricEnergy": {
        "epc": "0xA4",
        "descriptions": {
          "ja": "AC充電可能量",
          "en": "AC chargeable electric energy"
        },
        "writable": false,
        "observable": false,
        "schema": {
          "type": "number",
          "unit": "Wh",
          "minimum": 0,
          "maximum": 999999999
        }
      },
      "acDischargeableElectricEnergy": {
        "epc": "0xA5",
        "descriptions": {
          "ja": "AC放電可能量",
          "en": "AC dischargeable electric energy"
```


©2018-2022 ECHONET Consortium

```
        },
        "writable": false,
        "observable": false,
        "schema": {
          "type": "number",
          "unit": "Wh",
          "minimum": 0,
          "maximum": 999999999
        }
      },
      "acChargeUpperLimit": {
        "epc": "0xA6",
        "descriptions": {
          "ja": "AC充電上限設定",
          "en": "AC charge upper limit setting"
        },
        "writable": true,
        "observable": false,
        "schema": {
          "type": "number",
          "unit": "%",
          "minimum": 0,
          "maximum": 100
        }
      },
      "acDischargeLowerLimit": {
        "epc": "0xA7",
        "descriptions": {
          "ja": "AC放電下限設定",
          "en": "AC discharge lower limit setting"
        },
        "writable": true,
        "observable": false,
        "schema": {
          "type": "number",
          "unit": "%",
          "minimum": 0,
          "maximum": 100
        }
      },
      "acCumulativeChargingElectricEnergy": {
        "epc": "0xA8",
        "descriptions": {
          "ja": "AC積算充電電力量計測値",
          "en": "AC measured cumulative charging electric energy"
        },
        "writable": false,
        "observable": false,
        "schema": {
          "type": "number",
          "unit": "kWh",
          "minimum": 0,
          "maximum": 999999.999,
          "multipleOf": 0.001
        }
      },
      "acCumulativeDischargingElectricEnergy": {
        "epc": "0xA9",
        "descriptions": {
          "ja": "AC積算放電電力量計測値",
          "en": "AC measured cumulative discharging electric energy"
```


©2018-2022 ECHONET Consortium

```
        },
        "writable": false,
        "observable": false,
        "schema": {
          "type": "number",
          "unit": "kWh",
          "minimum": 0,
          "maximum": 999999.999,
          "multipleOf": 0.001
        }
      },
      "acTargetChargingElectricEnergy": {
        "epc": "0xAA",
        "descriptions": {
          "ja": "AC充電量設定値",
          "en": "AC charge amount setting value"
        },
        "writable": true,
        "observable": true,
        "schema": {
          "oneOf": [
            {
              "type": "number",
              "unit": "Wh",
              "minimum": 1,
              "maximum": 999999999
            },
            {
              "type": "string",
              "enum": [
                "noSetting"
              ],
              "values": [
                {
                  "value": "noSetting",
                  "descriptions": {
                    "ja": "設定なし",
                    "en": "No setting"
                  },
                  "edt": "0x00000000"
                }
              ]
            }
          ]
        }
      },
      "acTargetDischargingElectricEnergy": {
        "epc": "0xAB",
        "descriptions": {
          "ja": "AC放電量設定値",
          "en": "AC discharge amount setting value"
        },
        "writable": true,
        "observable": true,
        "schema": {
          "oneOf": [
            {
              "type": "number",
              "unit": "Wh",
              "minimum": 1,
              "maximum": 999999999
```


©2018-2022 ECHONET Consortium

```
            },
            {
              "type": "string",
              "enum": [
                "noSetting"
              ],
              "values": [
                {
                  "value": "noSetting",
                  "descriptions": {
                    "ja": "設定なし",
                    "en": "No setting"
                  },
                  "edt": "0x00000000"
                }
              ]
            }
          ]
        }
      },
      "chargingMethod": {
        "epc": "0xC1",
        "descriptions": {
          "ja": "充電方式",
          "en": "Charging method"
        },
        "writable": true,
        "observable": true,
        "schema": {
          "type": "string",
          "enum": [
            "maximum",
            "surplus",
            "designatedPower",
            "designatedCurrent",
            "other"
          ],
          "values": [
            {
              "value": "maximum",
              "descriptions": {
                "ja": "最大充電電力充電",
                "en": "Maximum charging electric energy charting"
              },
              "edt": "0x01"
            },
            {
              "value": "surplus",
              "descriptions": {
                "ja": "余剰電力充電",
                "en": "Surplus electric energy charging"
              },
              "edt": "0x02"
            },
            {
              "value": "designatedPower",
              "descriptions": {
                "ja": "指定電力充電",
                "en": "Designated electric energy charging"
              },
              "edt": "0x03"
```


©2018-2022 ECHONET Consortium

```
            },
            {
              "value": "designatedCurrent",
              "descriptions": {
                "ja": "指定電流充電",
                "en": "Designated current power charging"
              },
              "edt": "0x04"
            },
            {
              "value": "other",
              "descriptions": {
                "ja": "その他",
                "en": "Others"
              },
              "edt": "0x00"
            }
          ]
        }
      },
      "dischargingMethod": {
        "epc": "0xC2",
        "descriptions": {
          "ja": "放電方式",
          "en": "Discharging method"
        },
        "writable": true,
        "observable": true,
        "schema": {
          "type": "string",
          "enum": [
            "maximum",
            "loadFollowing",
            "designatedPower",
            "designatedCurrent",
            "other"
          ],
          "values": [
            {
              "value": "maximum",
              "descriptions": {
                "ja": "最大放電電力放電",
                "en": "Maximum discharge electric energy discharging"
              },
              "edt": "0x01"
            },
            {
              "value": "loadFollowing",
              "descriptions": {
                "ja": "負荷追従放電",
                "en": "Load following discharge"
              },
              "edt": "0x02"
            },
            {
              "value": "designatedPower",
              "descriptions": {
                "ja": "指定電力放電",
                "en": "Designated electric energy discharging"
              },
              "edt": "0x03"
```


©2018-2022 ECHONET Consortium

```
            },
            {
              "value": "designatedCurrent",
              "descriptions": {
                "ja": "指定電流放電",
                "en": "Designated current power discharging"
              },
              "edt": "0x04"
            },
            {
              "value": "other",
              "descriptions": {
                "ja": "その他",
                "en": "Others"
              },
              "edt": "0x00"
            }
          ]
        }
      },
      "acRatedElectricEnergy": {
        "epc": "0xC7",
        "descriptions": {
          "ja": "AC定格電力量",
          "en": "AC rated electric energy"
        },
        "writable": false,
        "observable": false,
        "schema": {
          "type": "number",
          "unit": "Wh",
          "minimum": 0,
          "maximum": 999999999
        }
      },
      "minimumAndMaximumChargingElectricPower": {
        "epc": "0xC8",
        "descriptions": {
          "ja": "最小最大充電電力値",
          "en": "Minimum/maximum charging electric power"
        },
        "writable": false,
        "observable": false,
        "schema": {
          "type": "object",
          "properties": {
            "minValue": {
              "descriptions": {
                "ja": "最小充電電力値",
                "en": "Minimum"
              },
              "type": "number",
              "unit": "W",
              "minimum": 0,
              "maximum": 999999999
            },
            "maxValue": {
              "descriptions": {
                "ja": "最大充電電力値",
                "en": "Maximum"
              },
```


©2018-2022 ECHONET Consortium

```
              "type": "number",
              "unit": "W",
              "minimum": 0,
              "maximum": 999999999
            }
          }
        }
      },
      "minimumAndMaximumDischargingElectricPower": {
        "epc": "0xC9",
        "descriptions": {
          "ja": "最小最大放電電力値",
          "en": "Minimum/maximum discharging electric power"
        },
        "writable": false,
        "observable": false,
        "schema": {
          "type": "object",
          "properties": {
            "minValue": {
              "descriptions": {
                "ja": "最小放電電力値",
                "en": "Minimum"
              },
              "type": "number",
              "unit": "W",
              "minimum": 0,
              "maximum": 999999999
            },
            "maxValue": {
              "descriptions": {
                "ja": "最大放電電力値",
                "en": "Maximum"
              },
              "type": "number",
              "unit": "W",
              "minimum": 0,
              "maximum": 999999999
            }
          }
        }
      },
      "minimumAndMaximumChargingCurrent": {
        "epc": "0xCA",
        "descriptions": {
          "ja": "最小最大充電電流値",
          "en": "Minimum/maximum charging current"
        },
        "writable": false,
        "observable": false,
        "schema": {
          "type": "object",
          "properties": {
            "minValue": {
              "descriptions": {
                "ja": "最小充電電流値",
                "en": "Minimum"
              },
              "type": "number",
              "unit": "A",
              "minimum": 0,
```


©2018-2022 ECHONET Consortium

```
              "maximum": 3276.6,
              "multipleOf": 0.1
            },
            "maxValue": {
              "descriptions": {
                "ja": "最大充電電流値",
                "en": "Maximum"
              },
              "type": "number",
              "unit": "A",
              "minimum": 0,
              "maximum": 3276.6,
              "multipleOf": 0.1
            }
          }
        }
      },
      "minimumAndMaximumDischargingCurrent": {
        "epc": "0xCB",
        "descriptions": {
          "ja": "最小最大放電電流値",
          "en": "Minimum/maximum discharging current"
        },
        "writable": false,
        "observable": false,
        "schema": {
          "type": "object",
          "properties": {
            "minValue": {
              "descriptions": {
                "ja": "最小放電電流値",
                "en": "Minimum"
              },
              "type": "number",
              "unit": "A",
              "minimum": 0,
              "maximum": 3276.6,
              "multipleOf": 0.1
            },
            "maxValue": {
              "descriptions": {
                "ja": "最大放電電流値",
                "en": "Maximum"
              },
              "type": "number",
              "unit": "A",
              "minimum": 0,
              "maximum": 3276.6,
              "multipleOf": 0.1
            }
          }
        }
      },
      "reInterconnectionPermission": {
        "epc": "0xCC",
        "descriptions": {
          "ja": "再連系許可設定",
          "en": "Re-interconnection permission setting"
        },
        "writable": true,
        "observable": false,
```


©2018-2022 ECHONET Consortium

```
        "schema": {
          "type": "string",
          "enum": [
            "permitted",
            "prohibited"
          ],
          "values": [
            {
              "value": "permitted",
              "descriptions": {
                "ja": "許可",
                "en": "Permitted"
              },
              "edt": "0x41"
            },
            {
              "value": "prohibited",
              "descriptions": {
                "ja": "禁止",
                "en": "Prohibited"
              },
              "edt": "0x42"
            }
          ]
        }
      },
      "operationPermission": {
        "epc": "0xCD",
        "descriptions": {
          "ja": "運転許可設定",
          "en": "Operation permission setting"
        },
        "writable": true,
        "observable": false,
        "schema": {
          "type": "string",
          "enum": [
            "permitted",
            "prohibited"
          ],
          "values": [
            {
              "value": "permitted",
              "descriptions": {
                "ja": "許可",
                "en": "Permitted"
              },
              "edt": "0x41"
            },
            {
              "value": "prohibited",
              "descriptions": {
                "ja": "禁止",
                "en": "Prohibited"
              },
              "edt": "0x42"
            }
          ]
        }
      },
      "independentOperationPermission": {
```


©2018-2022 ECHONET Consortium

```
        "epc": "0xCE",
        "descriptions": {
          "ja": "自立運転許可設定",
          "en": "Independent operation permission setting"
        },
        "writable": true,
        "observable": false,
        "schema": {
          "type": "string",
          "enum": [
            "permitted",
            "prohibited"
          ],
          "values": [
            {
              "value": "permitted",
              "descriptions": {
                "ja": "許可",
                "en": "Permitted"
              },
              "edt": "0x41"
            },
            {
              "value": "prohibited",
              "descriptions": {
                "ja": "禁止",
                "en": "Prohibited"
              },
              "edt": "0x42"
            }
          ]
        }
      },
      "actualOperationMode": {
        "epc": "0xCF",
        "descriptions": {
          "ja": "運転動作状態",
          "en": "Working operation status"
        },
        "writable": false,
        "observable": true,
        "schema": {
          "type": "string",
          "enum": [
            "rapidCharging",
            "charging",
            "discharging",
            "standby",
            "test",
            "auto",
            "restart",
            "capacityRecalculation",
            "other"
          ],
          "values": [
            {
              "value": "rapidCharging",
              "descriptions": {
                "ja": "急速充電",
                "en": "Rapid charging"
              },
```


©2018-2022 ECHONET Consortium

```
            "edt": "0x41"
          },
          {
            "value": "charging",
            "descriptions": {
              "ja": "充電",
              "en": "Charging"
            },
            "edt": "0x42"
          },
          {
            "value": "discharging",
            "descriptions": {
              "ja": "放電",
              "en": "Discharging"
            },
            "edt": "0x43"
          },
          {
            "value": "standby",
            "descriptions": {
              "ja": "待機",
              "en": "Standby"
            },
            "edt": "0x44"
          },
          {
            "value": "test",
            "descriptions": {
              "ja": "テスト",
              "en": "Test"
            },
            "edt": "0x45"
          },
          {
            "value": "auto",
            "descriptions": {
              "ja": "自動",
              "en": "Automatic"
            },
            "edt": "0x46"
          },
          {
            "value": "restart",
            "descriptions": {
              "ja": "再起動",
              "en": "Restart"
            },
            "edt": "0x48"
          },
          {
            "value": "capacityRecalculation",
            "descriptions": {
              "ja": "実効容量再計算処理",
              "en": "Effective capacity recalculation processing"
            },
            "edt": "0x49"
          },
          {
            "value": "other",
            "descriptions": {
```


©2018-2022 ECHONET Consortium

```
                "ja": "その他",
                "en": "Other"
              },
              "edt": "0x40"
            }
          ]
        }
      },
      "ratedElectricEnergy": {
        "epc": "0xD0",
        "descriptions": {
          "ja": "定格電力量",
          "en": "Rated electric energy"
        },
        "writable": false,
        "observable": false,
        "schema": {
          "type": "number",
          "unit": "Wh",
          "minimum": 0,
          "maximum": 999999999
        }
      },
      "ratedCapacity": {
        "epc": "0xD1",
        "descriptions": {
          "ja": "定格容量",
          "en": "Rated capacity"
        },
        "writable": false,
        "observable": false,
        "schema": {
          "type": "number",
          "unit": "Ah",
          "minimum": 0,
          "maximum": 3276.6,
          "multipleOf": 0.1
        }
      },
      "ratedVoltage": {
        "epc": "0xD2",
        "descriptions": {
          "ja": "定格電圧",
          "en": "Rated voltage"
        },
        "writable": false,
        "observable": false,
        "schema": {
          "type": "number",
          "unit": "V",
          "minimum": 0,
          "maximum": 32766
        }
      },
      "instantaneousChargingAndDischargingElectricPower": {
        "epc": "0xD3",
        "descriptions": {
          "ja": "瞬時充放電電力計測値",
          "en": "Measured instantaneous charging/discharging electric energy"
        },
        "writable": false,
```


©2018-2022 ECHONET Consortium

```
        "observable": false,
        "schema": {
          "type": "number",
          "unit": "W",
          "minimum": -999999999,
          "maximum": 999999999
        }
      },
      "instantaneousChargingAndDischargingCurrent": {
        "epc": "0xD4",
        "descriptions": {
          "ja": "瞬時充放電電流計測値",
          "en": "Measured instantaneous charging/discharging current"
        },
        "writable": false,
        "observable": false,
        "schema": {
          "type": "number",
          "unit": "A",
          "minimum": -3276.7,
          "maximum": 3276.6,
          "multipleOf": 0.1
        }
      },
      "instantaneousChargingAndDischargingVoltage": {
        "epc": "0xD5",
        "descriptions": {
          "ja": "瞬時充放電電圧計測値",
          "en": "Measured instantaneous charging/discharging voltage"
        },
        "writable": false,
        "observable": false,
        "schema": {
          "type": "number",
          "unit": "V",
          "minimum": -32767,
          "maximum": 32766
        }
      },
      "cumulativeDischargingElectricEnergy": {
        "epc": "0xD6",
        "descriptions": {
          "ja": "積算放電電力量計測値",
          "en": "Measured cumulative discharging electric energy"
        },
        "writable": false,
        "observable": false,
        "schema": {
          "type": "number",
          "unit": "kWh",
          "minimum": 0,
          "maximum": 999999.999,
          "multipleOf": 0.001
        }
      },
      "cumulativeChargingElectricEnergy": {
        "epc": "0xD8",
        "descriptions": {
          "ja": "積算充電電力量計測値",
          "en": "Measured cumulative charging electric energy"
        },
```


©2018-2022 ECHONET Consortium

```
          "writable": false,
          "observable": false,
          "schema": {
            "type": "number",
            "unit": "kWh",
            "minimum": 0,
            "maximum": 999999.999,
            "multipleOf": 0.001
          }
        },
        "operationMode": {
          "epc": "0xDA",
          "descriptions": {
            "ja": "運転モード設定",
            "en": "Operation mode setting"
          },
          "writable": true,
          "observable": true,
          "schema": {
            "type": "string",
            "enum": [
              "rapidCharging",
              "charging",
              "discharging",
              "standby",
              "test",
              "auto",
              "restart",
              "capacityRecalculation",
              "other"
            ],
            "values": [
              {
                "value": "rapidCharging",
                "descriptions": {
                  "ja": "急速充電",
                  "en": "Rapid charging"
                },
                "edt": "0x41"
              },
              {
                "value": "charging",
                "descriptions": {
                  "ja": "充電",
                  "en": "Charging"
                },
                "edt": "0x42"
              },
              {
                "value": "discharging",
                "descriptions": {
                  "ja": "放電",
                  "en": "Discharging"
                },
                "edt": "0x43"
              },
              {
                "value": "standby",
                "descriptions": {
                  "ja": "待機",
                  "en": "Standby"
```


©2018-2022 ECHONET Consortium

```
            },
            "edt": "0x44"
          },
          {
            "value": "test",
            "descriptions": {
              "ja": "テスト",
              "en": "Test"
            },
            "edt": "0x45"
          },
          {
            "value": "auto",
            "descriptions": {
              "ja": "自動",
              "en": "Automatic"
            },
            "edt": "0x46"
          },
          {
            "value": "restart",
            "descriptions": {
              "ja": "再起動",
              "en": "Restart"
            },
            "edt": "0x48"
          },
          {
            "value": "capacityRecalculation",
            "descriptions": {
              "ja": "実効容量再計算処理",
              "en": "Effective capacity recalculation processing"
            },
            "edt": "0x49"
          },
          {
            "value": "other",
            "descriptions": {
              "ja": "その他",
              "en": "Other"
            },
            "edt": "0x40"
          }
        ]
      },
      "note": {
        "ja": "このプロパティをGetして取得できる値は設定値である。実際の運転状態はactualOperationModeをGETすること",
        "en": "The value you get with this property is the value you set. Get actualOperationMode for the current status."
      }
    },
    "powerSystemInterconnectionStatus": {
      "epc": "0xDB",
      "descriptions": {
        "ja": "系統連系状態",
        "en": "System-interconnected type"
      },
      "writable": false,
      "observable": false,
      "schema": {
```


©2018-2022 ECHONET Consortium

```
          "type": "string",
          "enum": [
            "reversePowerFlowAcceptable",
            "independent",
            "reversePowerFlowNotAcceptable"
          ],
          "values": [
            {
              "value": "reversePowerFlowAcceptable",
              "descriptions": {
                "ja": "系統連系 (逆潮流可)",
                "en": "System interconnection (reverse power flow acceptable)"
              },
              "edt": "0x00"
            },
            {
              "value": "independent",
              "descriptions": {
                "ja": "独立",
                "en": "Independent type"
              },
              "edt": "0x01"
            },
            {
              "value": "reversePowerFlowNotAcceptable",
              "descriptions": {
                "ja": "系統連系 (逆潮流不可)",
                "en": "System-interconnected type (reverse power flow not acceptable)"
              },
              "edt": "0x02"
            }
          ]
        }
      },
      "minimumAndMaximumChargingPowerAtIndependent": {
        "epc": "0xDC",
        "descriptions": {
          "ja": "最小最大充電電力値 (独立時)",
          "en": "Minimum/maximum charging power (Independent)"
        },
        "writable": false,
        "observable": false,
        "schema": {
          "type": "object",
          "properties": {
            "minValue": {
              "descriptions": {
                "ja": "最小充電電力値",
                "en": "Minimum charging power"
              },
              "type": "number",
              "unit": "W",
              "minimum": 0,
              "maximum": 999999999
            },
            "maxValue": {
              "descriptions": {
                "ja": "最大充電電力値",
                "en": "Maximum charging power"
              },
              "type": "number",
```


©2018-2022 ECHONET Consortium

```
              "unit": "W",
              "minimum": 0,
              "maximum": 999999999
            }
          }
        }
      },
      "minimumAndMaximumDischargingPowerAtIndependent": {
        "epc": "0xDD",
        "descriptions": {
          "ja": "最小最大放電電力値 (独立時)",
          "en": "Minimum/maximum discharging power (Independent)"
        },
        "writable": false,
        "observable": false,
        "schema": {
          "type": "object",
          "properties": {
            "minValue": {
              "descriptions": {
                "ja": "最小放電電力値",
                "en": "Minimum discharging power"
              },
              "type": "number",
              "unit": "W",
              "minimum": 0,
              "maximum": 999999999
            },
            "maxValue": {
              "descriptions": {
                "ja": "最大放電電力値",
                "en": "Maximum discharging power"
              },
              "type": "number",
              "unit": "W",
              "minimum": 0,
              "maximum": 999999999
            }
          }
        }
      },
      "minimumAndMaximumChargingCurrentAtIndependent": {
        "epc": "0xDE",
        "descriptions": {
          "ja": "最小最大充電電流値 (独立時)",
          "en": "Minimum/maximum charging current (Independent)"
        },
        "writable": false,
        "observable": false,
        "schema": {
          "type": "object",
          "properties": {
            "minValue": {
              "descriptions": {
                "ja": "最小充電電流値",
                "en": "Minimum charging current"
              },
              "type": "number",
              "unit": "A",
              "minimum": 0,
              "maximum": 3276.6,
```


©2018-2022 ECHONET Consortium

```
              "multipleOf": 0.1
            },
            "maxValue": {
              "descriptions": {
                "ja": "最大充電電流値",
                "en": "Maximum charging current"
              },
              "type": "number",
              "unit": "A",
              "minimum": 0,
              "maximum": 3276.6,
              "multipleOf": 0.1
            }
          }
        }
      },
      "minimumAndMaximumDischargingCurrentAtIndependent": {
        "epc": "0xDF",
        "descriptions": {
          "ja": "最小最大放電電流値 (独立時)",
          "en": "Minimum/maximum discharging current (Independent)"
        },
        "writable": false,
        "observable": false,
        "schema": {
          "type": "object",
          "properties": {
            "minValue": {
              "descriptions": {
                "ja": "最小放電電流値",
                "en": "Minimum discharging current"
              },
              "type": "number",
              "unit": "A",
              "minimum": 0,
              "maximum": 3276.6,
              "multipleOf": 0.1
            },
            "maxValue": {
              "descriptions": {
                "ja": "最大放電電流値",
                "en": "Maximum discharging current"
              },
              "type": "number",
              "unit": "A",
              "minimum": 0,
              "maximum": 3276.6,
              "multipleOf": 0.1
            }
          }
        }
      },
      "chargingAndDischargingAmount1": {
        "epc": "0xE0",
        "descriptions": {
          "ja": "充放電量設定値1",
          "en": "Charging/discharging amount setting 1"
        },
        "writable": true,
        "observable": false,
        "schema": {
```


©2018-2022 ECHONET Consortium

```
          "oneOf": [
            {
              "type": "number",
              "unit": "Wh",
              "minimum": 1,
              "maximum": 999999999
            },
            {
              "type": "number",
              "unit": "Wh",
              "minimum": -999999999,
              "maximum": -1
            }
          ]
        },
        "note": {
          "ja": "充電時 (プラス値)／放電時 (マイナス値)",
          "en": "During charging (positive value) / During discharging (negative value)"
        }
      },
      "chargingAndDischargingAmount2": {
        "epc": "0xE1",
        "descriptions": {
          "ja": "充放電量設定値2",
          "en": "Charging/discharging amount setting 2"
        },
        "writable": true,
        "observable": false,
        "schema": {
          "oneOf": [
            {
              "type": "number",
              "unit": "Ah",
              "minimum": 0.1,
              "maximum": 3276.6,
              "multipleOf": 0.1
            },
            {
              "type": "number",
              "unit": "Ah",
              "minimum": -3276.7,
              "maximum": -0.1,
              "multipleOf": 0.1
            }
          ]
        },
        "note": {
          "ja": "充電時 (プラス値)／放電時 (マイナス値)",
          "en": "During charging (positive value) / During discharging (negative value)"
        }
      },
      "remainingCapacity1": {
        "epc": "0xE2",
        "descriptions": {
          "ja": "蓄電残量1",
          "en": "Remaining stored electricity 1"
        },
        "writable": false,
        "observable": false,
        "schema": {
          "type": "number",
```


©2018-2022 ECHONET Consortium

```
          "unit": "Wh",
          "minimum": 0,
          "maximum": 999999999
        }
      },
      "remainingCapacity2": {
        "epc": "0xE3",
        "descriptions": {
          "ja": "蓄電残量2",
          "en": "Remaining stored electricity 2"
        },
        "writable": false,
        "observable": false,
        "schema": {
          "type": "number",
          "unit": "Ah",
          "minimum": 0,
          "maximum": 3276.6,
          "multipleOf": 0.1
        }
      },
      "remainingCapacity3": {
        "epc": "0xE4",
        "descriptions": {
          "ja": "蓄電残量3",
          "en": "Remaining stored electricity 3"
        },
        "writable": false,
        "observable": false,
        "schema": {
          "type": "number",
          "unit": "%",
          "minimum": 0,
          "maximum": 100
        }
      },
      "batteryHealthState": {
        "epc": "0xE5",
        "descriptions": {
          "ja": "劣化状態",
          "en": "Battery state of health"
        },
        "writable": false,
        "observable": false,
        "schema": {
          "type": "number",
          "unit": "%",
          "minimum": 0,
          "maximum": 100
        }
      },
      "batteryType": {
        "epc": "0xE6",
        "descriptions": {
          "ja": "蓄電池タイプ",
          "en": "Battery type"
        },
        "writable": false,
        "observable": false,
        "schema": {
          "type": "string",
```


©2018-2022 ECHONET Consortium

```
            "enum": [
              "unknown",
              "lead",
              "ni_mh",
              "ni_cd",
              "lib",
              "zinc",
              "alkaline"
            ],
            "values": [
              {
                "value": "unknown",
                "descriptions": {
                  "ja": "不明",
                  "en": "Unknown"
                },
                "edt": "0x00"
              },
              {
                "value": "lead",
                "descriptions": {
                  "ja": "鉛",
                  "en": "Lead"
                },
                "edt": "0x01"
              },
              {
                "value": "ni_mh",
                "descriptions": {
                  "ja": "ニッケル水素",
                  "en": "Nickel-metal hydride"
                },
                "edt": "0x02"
              },
              {
                "value": "ni_cd",
                "descriptions": {
                  "ja": "ニッケルカドミウム",
                  "en": "Nickel-cadmium"
                },
                "edt": "0x03"
              },
              {
                "value": "lib",
                "descriptions": {
                  "ja": "リチウムイオン",
                  "en": "Lithium ion"
                },
                "edt": "0x04"
              },
              {
                "value": "zinc",
                "descriptions": {
                  "ja": "亜鉛",
                  "en": "Zinc"
                },
                "edt": "0x05"
              },
              {
                "value": "alkaline",
                "descriptions": {
```


©2018-2022 ECHONET Consortium

```
                "ja": "充電式アルカリ",
                "en": "Rechargeable alkaline"
              },
              "edt": "0x06"
            }
          ]
        }
      },
      "chargingAmount1": {
        "epc": "0xE7",
        "descriptions": {
          "ja": "充電量設定値1",
          "en": "Charging amount setting 1"
        },
        "writable": true,
        "observable": false,
        "schema": {
          "type": "number",
          "unit": "Wh",
          "minimum": 0,
          "maximum": 999999999
        }
      },
      "dischargingAmount1": {
        "epc": "0xE8",
        "descriptions": {
          "ja": "放電量設定値1",
          "en": "Discharging amount setting 1"
        },
        "writable": true,
        "observable": false,
        "schema": {
          "type": "number",
          "unit": "Wh",
          "minimum": 0,
          "maximum": 999999999
        }
      },
      "chargingAmount2": {
        "epc": "0xE9",
        "descriptions": {
          "ja": "充電量設定値2",
          "en": "Charging amount setting 2"
        },
        "writable": true,
        "observable": false,
        "schema": {
          "type": "number",
          "unit": "Ah",
          "minimum": 0,
          "maximum": 3276.6,
          "multipleOf": 0.1
        }
      },
      "dischargingAmount2": {
        "epc": "0xEA",
        "descriptions": {
          "ja": "放電量設定値2",
          "en": "Discharging amount setting 2"
        },
        "writable": true,
```


©2018-2022 ECHONET Consortium

```
        "observable": false,
        "schema": {
          "type": "number",
          "unit": "Ah",
          "minimum": 0,
          "maximum": 3276.6,
          "multipleOf": 0.1
        }
      },
      "chargingPower": {
        "epc": "0xEB",
        "descriptions": {
          "ja": "充電電力設定値",
          "en": "Charging electric energy setting"
        },
        "writable": true,
        "observable": false,
        "schema": {
          "type": "number",
          "unit": "W",
          "minimum": 0,
          "maximum": 999999999
        }
      },
      "dischargingPower": {
        "epc": "0xEC",
        "descriptions": {
          "ja": "放電電力設定値",
          "en": "Discharging electric energy setting"
        },
        "writable": true,
        "observable": false,
        "schema": {
          "type": "number",
          "unit": "W",
          "minimum": 0,
          "maximum": 999999999
        }
      },
      "chargingCurrent": {
        "epc": "0xED",
        "descriptions": {
          "ja": "充電電流設定値",
          "en": "Charging current setting"
        },
        "writable": true,
        "observable": false,
        "schema": {
          "type": "number",
          "unit": "A",
          "minimum": 0,
          "maximum": 6553.3,
          "multipleOf": 0.1
        }
      },
      "dischargingCurrent": {
        "epc": "0xEE",
        "descriptions": {
          "ja": "放電電流設定値",
          "en": "Discharging current setting"
        },
```


©2018-2022 ECHONET Consortium

```
        "writable": true,
        "observable": false,
        "schema": {
          "type": "number",
          "unit": "A",
          "minimum": 0,
          "maximum": 6553.3,
          "multipleOf": 0.1
        }
      },
      "ratedVoltageAtIndependent": {
        "epc": "0xEF",
        "descriptions": {
          "ja": "定格電圧 (独立時)",
          "en": "Rated voltage (Independent)"
        },
        "writable": false,
        "observable": false,
        "schema": {
          "type": "number",
          "unit": "V",
          "minimum": 0,
          "maximum": 32766
        }
      }
    },
    "actions": {
      "resetCumulativeDischargingElectricEnergy": {
        "epc": "0xD7",
        "descriptions": {
          "ja": "積算放電電力量リセット設定",
          "en": "Measured cumulative discharging electric energy reset setting"
        },
        "schema": {},
        "note": {
          "ja": "ECHONET LiteではSet only property",
          "en": "Access rule of the corresponding ECHONET Lite property is Set only."
        }
      },
      "resetCumulativeChargingElectricEnergy": {
        "epc": "0xD9",
        "descriptions": {
          "ja": "積算充電電力量リセット設定",
          "en": "Measured cumulative charging electric energy reset setting"
        },
        "schema": {},
        "note": {
          "ja": "ECHONET LiteではSet only property",
          "en": "Access rule of the corresponding ECHONET Lite property is Set only."
        }
      }
    }
  }
```


©2018-2022 ECHONET Consortium

EV charger and discharger: evChargerDischarger: 0x027E

Back to the List of Devices

Note to Server:

It is necessary to set "vehicle connection confirmation (EPC=0xCD)" before getting ECHONET Lite property "vehicle connection and chargeable/dischargeable status (EPC=0xC7)" with ECHONET Lite. When the server receives "GET: chargeDischargeStatus" with ECHONET Lite Web API, the server gets "vehicle connection and chargeable/dischargeable status" after setting "vehicle connection confirmation" with ECHONET Lite.

Properties

Property Resource Name	Access Method	Data Type	EPC (EL)	Property name (EL)	Note
dischargeableCapacity1	GET	number	0xC0	Dischargeable capacity of vehicle mounted battery 1	
dischargeableCapacity2	GET	number	0xC1	Dischargeable capacity of vehicle mounted battery 2	
remainingDischargeableCapacity1	GET	number	0xC2	Remaining dischargeable capacity of vehicle mounted battery 1	
remainingDischargeableCapacity2	GET	number	0xC3	Remaining dischargeable capacity of vehicle mounted battery 2	
remainingDischargeableCapacity3	GET	number	0xC4	Remaining dischargeable capacity of vehicle mounted battery 3	
ratedChargeElectricPower	GET	number	0xC5	Rated charge capacity	
ratedDischargeElectricPower	GET	number	0xC6	Rated discharge capacity	
chargeDischargeStatus	GET	string	0xC7	Vehicle connection and chargeable/dischargeable status	
minimumAndMaximumChargingElectricPower	GET	object	0xC8	Minimum/maximum charging electric energy	
minimumAndMaximumDischargingElectricPower	GET	object	0xC9	Minimum/maximum discharging electric energy	

©2018-2022 ECHONET Consortium

Property Resource Name	Access Method	Data Type	EPC (EL)	Property name (EL)	Note
minimumAndMaximumChargingCurrent	GET	object	0xCA	Minimum/maximum charging current	
minimumAndMaximumDischargingCurrent	GET	object	0xCB	Minimum/maximum discharging current	
equipmentType	GET	string	0xCC	Charger/Discharger type	
chargeableCapacity	GET	number	0xCE	Chargeable capacity of vehicle mounted battery	
remainingChargeableCapacity	GET	number	0xCF	Remaining chargeable capacity of vehicle mounted battery	
usedCapacity1	GET	number	0xD0	Used capacity of vehicle mounted battery 1	
usedCapacity2	GET	number	0xD1	Used capacity of vehicle mounted battery 2	
ratedVoltage	GET	number	0xD2	Rated voltage	
instantaneousElectricPower	GET	number	0xD3	Measured instantaneous charging/discharging electric energy	
instantaneousCurrent	GET	number	0xD4	Measured instantaneous charging/discharging current	
instantaneousVoltage	GET	number	0xD5	Measured instantaneous charging/discharging voltage	
cumulativeDischargingElectricEnergy	GET	number	0xD6	Measured cumulative amount of discharging electric energy	
cumulativeChargingElectricEnergy	GET	number	0xD8	Measured cumulative amount of charging electric energy	
operationMode	GET, PUT	string	0xDA	Operation mode setting	
powerSystemInterconnectionStatus	GET	string	0xDB	System interconnected type	

©2018-2022 ECHONET Consortium

Property Resource Name	Access Method	Data Type	EPC (EL)	Property name (EL)	Note
chargingMethod	GET, PUT	string	0xDC	Charging method	
dischargingMethod	GET, PUT	string	0xDD	Discharging method	
purchasingElectricPower	GET, PUT	number	0xDE	Purchasing electric power setting	
reInterconnectionPermission	GET, PUT	string	0xDF	Re-interconnection permission setting	
chargingDischargingElectricPower	GET, PUT	number	0xE0	Charging/Discharging electric power setting	
remainingCapacity1	GET	number	0xE2	Remaining stored electricity of vehicle mounted battery1	
remainingCapacity2	GET	number	0xE3	Remaining stored electricity of vehicle mounted battery2	
remainingCapacity3	GET	number	0xE4	Remaining stored electricity of vehicle mounted battery3	
maintenanceStatus	GET	string	0xE5	Maintenance status	
vehicleId	GET	string	0xE6	Vehicle ID	
targetChargingElectricEnergy1	GET, PUT	number	0xE7	Charging amount setting 1	
targetChargingElectricEnergy2	GET, PUT	number	0xE9	Charging amount setting 2	
targetDischargingElectricEnergy	GET, PUT	number	0xEA	Discharging electric energy setting	
chargingElectricPower	GET, PUT	number	0xEB	Charging electric energy setting	
dischargingElectricPower	GET, PUT	number	0xEC	Discharging electric energy setting	
chargingCurrent	GET, PUT	number	0xED	Charging current setting	

©2018-2022 ECHONET Consortium

Property Resource Name	Access Method	Data Type	EPC (EL)	Property name (EL)	Note
dischargingCurrent	GET, PUT	number	0xEE	Discharging current setting	
ratedVoltageOfIndependentOperation	GET	number	0xEF	Rated voltage (Independent)	

Actions

Property Resource Name	Access Method	EPC (EL)	Property name (EL)	Note
resetCumulativeDischargingElectricEnergy	POST	0xD7	Cumulative amount of discharging electric energy reset setting	
resetCumulativeChargingElectricEnergy	POST	0xD9	Cumulative amount of charging electric energy reset setting	

Device Description

```
{
  "deviceType": "evChargerDischarger",
  "metaData": {
    "version": "1.4.0"
  },
  "eoj": "0x027E",
  "descriptions": {
    "ja": "電気自動車充放電器",
    "en": "EV charger and discharger"
  },
  "properties": {
    "dischargeableCapacity1": {
      "epc": "0xC0",
      "descriptions": {
        "ja": "車載電池の放電可能容量値1",
        "en": "Dischargeable capacity of vehicle mounted battery 1"
      },
      "writable": false,
      "observable": false,
      "schema": {
        "type": "number",
        "unit": "Wh",
        "minimum": 0,
        "maximum": 999999999
      }
    },
    "dischargeableCapacity2": {
      "epc": "0xC1",
      "descriptions": {
        "ja": "車載電池の放電可能容量値2",
        "en": "Dischargeable capacity of vehicle mounted battery 2"
      },
      "writable": false,
      "observable": false,
```


©2018-2022 ECHONET Consortium

```
        "schema": {
          "type": "number",
          "unit": "Ah",
          "minimum": 0,
          "maximum": 3276.6,
          "multipleOf": 0.1
        }
      },
      "remainingDischargeableCapacity1": {
        "epc": "0xC2",
        "descriptions": {
          "ja": "車載電池の放電可能残容量1",
          "en": "Remaining dischargeable capacity of vehicle mounted battery 1"
        },
        "writable": false,
        "observable": false,
        "schema": {
          "type": "number",
          "unit": "Wh",
          "minimum": 0,
          "maximum": 999999999
        },
        "note": {
          "ja": "車載電池の放電可能残容量1、車載電池の放電可能残容量3 は、電気自動車充放電器に接続された電
気自動車から出力される場合、いずれかの搭載を必須とする。応答できない状況にある場合、不可応答を返す",
          "en": "The installation of 'Remaining dischargeable capacity of vehicle mounted
battery 1' or 'Remaining dischargeable capacity of vehicle mounted battery 3' is mandatory in
case of output from an electric vehicle connected to an electric vehicle charger/discharger.
Where no response can be returned, 'Response impossible' is returned."
        }
      },
      "remainingDischargeableCapacity2": {
        "epc": "0xC3",
        "descriptions": {
          "ja": "車載電池の放電可能残容量2",
          "en": "Remaining dischargeable capacity of vehicle mounted battery 2"
        },
        "writable": false,
        "observable": false,
        "schema": {
          "type": "number",
          "unit": "Ah",
          "minimum": 0,
          "maximum": 3276.6,
          "multipleOf": 0.1
        }
      },
      "remainingDischargeableCapacity3": {
        "epc": "0xC4",
        "descriptions": {
          "ja": "車載電池の放電可能残容量3",
          "en": "Remaining dischargeable capacity of vehicle mounted battery 3"
        },
        "writable": false,
        "observable": false,
        "schema": {
          "type": "number",
          "unit": "%",
          "minimum": 0,
          "maximum": 100
        },
```


©2018-2022 ECHONET Consortium

```
      "note": {
        "ja": "車載電池の放電可能残容量1、車載電池の放電可能残容量3 は、電気自動車充放電器に接続された電
気自動車から出力される場合、いずれかの搭載を必須とする。応答できない状況にある場合、不可応答を返す",
        "en": "The installation of 'Remaining dischargeable capacity of vehicle mounted
battery 1' or 'Remaining dischargeable capacity of vehicle mounted battery 3' is mandatory in
case of output from an electric vehicle connected to an electric vehicle charger/discharger.
Where no response can be returned, 'Response impossible' is returned."
      }
    },
    "ratedChargeElectricPower": {
      "epc": "0xC5",
      "descriptions": {
        "ja": "定格充電能力",
        "en": "Rated charge capacity"
      },
      "writable": false,
      "observable": false,
      "schema": {
        "type": "number",
        "unit": "W",
        "minimum": 0,
        "maximum": 999999999
      }
    },
    "ratedDischargeElectricPower": {
      "epc": "0xC6",
      "descriptions": {
        "ja": "定格放電能力",
        "en": "Rated discharge capacity"
      },
      "writable": false,
      "observable": false,
      "schema": {
        "type": "number",
        "unit": "W",
        "minimum": 0,
        "maximum": 999999999
      }
    },
    "chargeDischargeStatus": {
      "epc": "0xC7",
      "epcAtomic": "0xCD",
      "descriptions": {
        "ja": "車両接続･充放電可否状態",
        "en": "Vehicle connection and chargeable/dischargeable status"
      },
      "writable": false,
      "observable": true,
      "schema": {
        "type": "string",
        "enum": [
          "undefined",
          "notConnected",
          "connected",
          "chargeable",
          "dischargeable",
          "chargeableDischargeable",
          "unknown"
        ],
        "values": [
          {
```


©2018-2022 ECHONET Consortium

```
            "value": "undefined",
            "descriptions": {
              "ja": "不定",
              "en": "Undefined"
            },
            "edt": "0xFF"
          },
          {
            "value": "notConnected",
            "descriptions": {
              "ja": "車両未接続",
              "en": "Not Connected"
            },
            "edt": "0x30"
          },
          {
            "value": "connected",
            "descriptions": {
              "ja": "車両接続･充電不可･放電不可",
              "en": "Connected"
            },
            "edt": "0x40"
          },
          {
            "value": "chargeable",
            "descriptions": {
              "ja": "車両接続･充電可･放電不可",
              "en": "Chargeable"
            },
            "edt": "0x41"
          },
          {
            "value": "dischargeable",
            "descriptions": {
              "ja": "車両接続･充電不可･放電可",
              "en": "Dischargeable"
            },
            "edt": "0x42"
          },
          {
            "value": "chargeableDischargeable",
            "descriptions": {
              "ja": "車両接続･充電可･放電可",
              "en": "Chargeable and Dischargeable"
            },
            "edt": "0x43"
          },
          {
            "value": "unknown",
            "descriptions": {
              "ja": "車両接続･充電可否不明",
              "en": "Unknown of Chargeability"
            },
            "edt": "0x44"
          }
        ]
      }
    },
    "minimumAndMaximumChargingElectricPower": {
      "epc": "0xC8",
      "descriptions": {
```


©2018-2022 ECHONET Consortium

```
          "ja": "最小最大充電電力値",
          "en": "Minimum/maximum charging electric energy"
        },
        "writable": false,
        "observable": false,
        "schema": {
          "type": "object",
          "properties": {
            "minimumElectricPower": {
              "descriptions": {
                "ja": "最小充電電力値",
                "en": "Minimum charging electric energy"
              },
              "type": "number",
              "unit": "W",
              "minimum": 0,
              "maximum": 999999999
            },
            "maximumElectricPower": {
              "descriptions": {
                "ja": "最大充電電力値",
                "en": "Maximum charging electric energy"
              },
              "type": "number",
              "unit": "W",
              "minimum": 0,
              "maximum": 999999999
            }
          }
        }
      },
      "minimumAndMaximumDischargingElectricPower": {
        "epc": "0xC9",
        "descriptions": {
          "ja": "最小最大放電電力値",
          "en": "Minimum/maximum discharging electric energy"
        },
        "writable": false,
        "observable": false,
        "schema": {
          "type": "object",
          "properties": {
            "minimumElectricPower": {
              "descriptions": {
                "ja": "最小放電電力値",
                "en": "Minimum discharging electric energy"
              },
              "type": "number",
              "unit": "W",
              "minimum": 0,
              "maximum": 999999999
            },
            "maximumElectricPower": {
              "descriptions": {
                "ja": "最大放電電力値",
                "en": "Maximum discharging electric energy"
              },
              "type": "number",
              "unit": "W",
              "minimum": 0,
              "maximum": 999999999
```


©2018-2022 ECHONET Consortium

```
            }
          }
        }
      },
      "minimumAndMaximumChargingCurrent": {
        "epc": "0xCA",
        "descriptions": {
          "ja": "最小最大充電電流値",
          "en": "Minimum/maximum charging current"
        },
        "writable": false,
        "observable": false,
        "schema": {
          "type": "object",
          "properties": {
            "minimumCurrent": {
              "descriptions": {
                "ja": "最小充電電流値",
                "en": "Minimum charging current"
              },
              "type": "number",
              "unit": "A",
              "minimum": 0,
              "maximum": 3276.6,
              "multipleOf": 0.1
            },
            "maximumCurrent": {
              "descriptions": {
                "ja": "最大充電電流値",
                "en": "Maximum charging current"
              },
              "type": "number",
              "unit": "A",
              "minimum": 0,
              "maximum": 3276.6,
              "multipleOf": 0.1
            }
          }
        }
      },
      "minimumAndMaximumDischargingCurrent": {
        "epc": "0xCB",
        "descriptions": {
          "ja": "最小最大放電電流値",
          "en": "Minimum/maximum discharging current"
        },
        "writable": false,
        "observable": false,
        "schema": {
          "type": "object",
          "properties": {
            "minimumCurrent": {
              "descriptions": {
                "ja": "最小放電電流値",
                "en": "Minimum discharging current"
              },
              "type": "number",
              "unit": "A",
              "minimum": 0,
              "maximum": 3276.6,
              "multipleOf": 0.1
```


©2018-2022 ECHONET Consortium

```
            },
            "maximumCurrent": {
              "descriptions": {
                "ja": "最大放電電流値",
                "en": "Maximum discharging current"
              },
              "type": "number",
              "unit": "A",
              "minimum": 0,
              "maximum": 3276.6,
              "multipleOf": 0.1
            }
          }
        }
      },
      "equipmentType": {
        "epc": "0xCC",
        "descriptions": {
          "ja": "充放電器タイプ",
          "en": "Charger/Discharger type"
        },
        "writable": false,
        "observable": false,
        "schema": {
          "type": "string",
          "enum": [
            "ac_cplt",
            "ac_hlc_charge",
            "ac_hlc_chargedischarge",
            "dc_aa_charge",
            "dc_aa_chargedischarge",
            "dc_aa_discharge",
            "dc_bb_charge",
            "dc_bb_chargedischarge",
            "dc_bb_discharge",
            "dc_ee_charge",
            "dc_ee_chargedischarge",
            "dc_ee_discharge",
            "dc_ff_charge",
            "dc_ff_chargedischarge",
            "dc_ff_discharge"
          ],
          "values": [
            {
              "value": "ac_cplt",
              "descriptions": {
                "ja": "AC_CPLT",
                "en": "AC_CPLT"
              },
              "edt": "0x11"
            },
            {
              "value": "ac_hlc_charge",
              "descriptions": {
                "ja": "AC_HLC (充電のみ)",
                "en": "AC_HLC_Charge"
              },
              "edt": "0x12"
            },
            {
              "value": "ac_hlc_chargedischarge",
```


©2018-2022 ECHONET Consortium

```
            "descriptions": {
              "ja": "AC_HLC (充放電可)",
              "en": "AC_HLC_ChargeDischarge"
            },
            "edt": "0x13"
          },
          {
            "value": "dc_aa_charge",
            "descriptions": {
              "ja": "DCタイプ_AA (充電のみ)",
              "en": "DC_AA_Charge"
            },
            "edt": "0x21"
          },
          {
            "value": "dc_aa_chargedischarge",
            "descriptions": {
              "ja": "DCタイプ_AA (充放電可)",
              "en": "DC_AA_ChargeDischarge"
            },
            "edt": "0x22"
          },
          {
            "value": "dc_aa_discharge",
            "descriptions": {
              "ja": "DCタイプ_AA (放電のみ)",
              "en": "DC_AA_Discharge"
            },
            "edt": "0x23"
          },
          {
            "value": "dc_bb_charge",
            "descriptions": {
              "ja": "DCタイプ_BB (充電のみ)",
              "en": "DC_BB_Charge"
            },
            "edt": "0x31"
          },
          {
            "value": "dc_bb_chargedischarge",
            "descriptions": {
              "ja": "DCタイプ_BB (充放電可)",
              "en": "DC_BB_ChargeDischarge"
            },
            "edt": "0x32"
          },
          {
            "value": "dc_bb_discharge",
            "descriptions": {
              "ja": "DCタイプ_BB (放電のみ)",
              "en": "DC_BB_Discharge"
            },
            "edt": "0x33"
          },
          {
            "value": "dc_ee_charge",
            "descriptions": {
              "ja": "DCタイプ_EE (充電のみ)",
              "en": "DC_EE_Charge"
            },
            "edt": "0x41"
```


©2018-2022 ECHONET Consortium

```
            },
            {
              "value": "dc_ee_chargedischarge",
              "descriptions": {
                "ja": "DCタイプ_EE (充放電可)",
                "en": "DC_EE_ChargeDischarge"
              },
              "edt": "0x42"
            },
            {
              "value": "dc_ee_discharge",
              "descriptions": {
                "ja": "DCタイプ_EE (放電のみ)",
                "en": "DC_EE_Discharge"
              },
              "edt": "0x43"
            },
            {
              "value": "dc_ff_charge",
              "descriptions": {
                "ja": "DCタイプ_FF (充電のみ)",
                "en": "DC_FF_Charge"
              },
              "edt": "0x51"
            },
            {
              "value": "dc_ff_chargedischarge",
              "descriptions": {
                "ja": "DCタイプ_FF (充放電可)",
                "en": "DC_FF_ChargeDischarge"
              },
              "edt": "0x52"
            },
            {
              "value": "dc_ff_discharge",
              "descriptions": {
                "ja": "DCタイプ_FF (放電のみ)",
                "en": "DC_FF_Discharge"
              },
              "edt": "0x53"
            }
          ]
        },
        "note": {
          "ja": "充放電器タイプのDC_タイプAA、DC_タイプBB、DC_タイプEE 及びDC_タイプFFは、IEC 62196-3 にて規定されているConfiguration AA、Configuration BB、Configuration EE 及びConfiguration FF に記載の形状のコネクタを有する電気自動車充放電器とする",
          "en": "DC_type AA, DC_type BB, DC_type EE and DC_type FF chargers/dischargers shall be electric vehicle chargers/dischargers with connectors of the shape specified in Configuration AA, Configuration BB, Configuration EE and Configuration FF as defined in IEC 62196-3."
        }
      },
      "chargeableCapacity": {
        "epc": "0xCE",
        "descriptions": {
          "ja": "車載電池の充電可能容量値",
          "en": "Chargeable capacity of vehicle mounted battery"
        },
        "writable": false,
        "observable": false,
```


©2018-2022 ECHONET Consortium

```
      "schema": {
        "type": "number",
        "unit": "Wh",
        "minimum": 0,
        "maximum": 999999999
      },
      "note": {
        "ja": "車載電池の充電可能容量値、車載電池の充電可能残容量値は電気自動車充放電器に接続された電気自動車から出力される場合、搭載を必須とする",
        "en": "The installation of 'chargeable capacity of vehicle mounted battery' and 'chargeable capacity of vehicle mounted battery' is mandatory in case of output from an electric vehicle connected to an electric vehicle charger/discharger."
      }
    },
    "remainingChargeableCapacity": {
      "epc": "0xCF",
      "descriptions": {
        "ja": "車載電池の充電可能残容量値",
        "en": "Remaining chargeable capacity of vehicle mounted battery"
      },
      "writable": false,
      "observable": false,
      "schema": {
        "type": "number",
        "unit": "Wh",
        "minimum": 0,
        "maximum": 999999999
      },
      "note": {
        "ja": "車載電池の充電可能容量値、車載電池の充電可能残容量値は電気自動車充放電器に接続された電気自動車から出力される場合、搭載を必須とする",
        "en": "The installation of 'chargeable capacity of vehicle mounted battery' and 'chargeable capacity of vehicle mounted battery' is mandatory in case of output from an electric vehicle connected to an electric vehicle charger/discharger."
      }
    },
    "usedCapacity1": {
      "epc": "0xD0",
      "descriptions": {
        "ja": "車載電池の使用容量値1",
        "en": "Used capacity of vehicle mounted battery 1"
      },
      "writable": false,
      "observable": false,
      "schema": {
        "type": "number",
        "unit": "Wh",
        "minimum": 0,
        "maximum": 999999999
      },
      "note": {
        "ja": "車載電池の使用容量値1 は、電気自動車充放電器に接続された電気自動車から出力される場合、搭載を必須とする。応答できない状況にある場合、不可応答を返す",
        "en": "The installation of 'Used capacity of vehicle mounted battery 1' is mandatory in case of output from an electric vehicle connected to an electric vehicle charger/discharger. Where no response can be returned, 'Response impossible' is returned."
      }
    },
    "usedCapacity2": {
      "epc": "0xD1",
      "descriptions": {
```


©2018-2022 ECHONET Consortium

```
          "ja": "車載電池の使用容量値2",
          "en": "Used capacity of vehicle mounted battery 2"
        },
        "writable": false,
        "observable": false,
        "schema": {
          "type": "number",
          "unit": "Ah",
          "minimum": 0,
          "maximum": 3276.6,
          "multipleOf": 0.1
        }
      },
      "ratedVoltage": {
        "epc": "0xD2",
        "descriptions": {
          "ja": "定格電圧",
          "en": "Rated voltage"
        },
        "writable": false,
        "observable": false,
        "schema": {
          "type": "number",
          "unit": "V",
          "minimum": 0,
          "maximum": 32766
        }
      },
      "instantaneousElectricPower": {
        "epc": "0xD3",
        "descriptions": {
          "ja": "瞬時充放電電力計測値",
          "en": "Measured instantaneous charging/discharging electric energy"
        },
        "writable": false,
        "observable": false,
        "schema": {
          "type": "number",
          "unit": "W",
          "minimum": -999999999,
          "maximum": 999999999
        }
      },
      "instantaneousCurrent": {
        "epc": "0xD4",
        "descriptions": {
          "ja": "瞬時充放電電流計測値",
          "en": "Measured instantaneous charging/discharging current"
        },
        "writable": false,
        "observable": false,
        "schema": {
          "type": "number",
          "unit": "A",
          "minimum": -3276.7,
          "maximum": 3276.6,
          "multipleOf": 0.1
        }
      },
      "instantaneousVoltage": {
        "epc": "0xD5",
```


©2018-2022 ECHONET Consortium

```
        "descriptions": {
          "ja": "瞬時充放電電圧計測値",
          "en": "Measured instantaneous charging/discharging voltage"
        },
        "writable": false,
        "observable": false,
        "schema": {
          "type": "number",
          "unit": "V",
          "minimum": -32767,
          "maximum": 32766
        }
      },
      "cumulativeDischargingElectricEnergy": {
        "epc": "0xD6",
        "descriptions": {
          "ja": "積算放電電力量計測値",
          "en": "Measured cumulative amount of discharging electric energy"
        },
        "writable": false,
        "observable": false,
        "schema": {
          "type": "number",
          "unit": "kWh",
          "minimum": 0,
          "maximum": 999999.999,
          "multipleOf": 0.001
        }
      },
      "cumulativeChargingElectricEnergy": {
        "epc": "0xD8",
        "descriptions": {
          "ja": "積算充電電力量計測値",
          "en": "Measured cumulative amount of charging electric energy"
        },
        "writable": false,
        "observable": false,
        "schema": {
          "type": "number",
          "unit": "kWh",
          "minimum": 0,
          "maximum": 999999.999,
          "multipleOf": 0.001
        }
      },
      "operationMode": {
        "epc": "0xDA",
        "descriptions": {
          "ja": "運転モード設定",
          "en": "Operation mode setting"
        },
        "writable": true,
        "observable": true,
        "schema": {
          "type": "string",
          "enum": [
            "charge",
            "discharge",
            "standby",
            "chargingDischarging",
            "idle",
```


©2018-2022 ECHONET Consortium

```
            "preparation",
            "automatic",
            "other"
          ],
          "values": [
            {
              "value": "charge",
              "descriptions": {
                "ja": "充電",
                "en": "Charge"
              },
              "edt": "0x42"
            },
            {
              "value": "discharge",
              "descriptions": {
                "ja": "放電",
                "en": "Discharge"
              },
              "edt": "0x43"
            },
            {
              "value": "standby",
              "descriptions": {
                "ja": "待機",
                "en": "Standby"
              },
              "edt": "0x44"
            },
            {
              "value": "chargingDischarging",
              "descriptions": {
                "ja": "充放電",
                "en": "Charging/Discharging"
              },
              "edt": "0x46"
            },
            {
              "value": "idle",
              "descriptions": {
                "ja": "停止",
                "en": "Idle"
              },
              "edt": "0x47"
            },
            {
              "value": "preparation",
              "descriptions": {
                "ja": "準備",
                "en": "Preparation"
              },
              "edt": "0x48"
            },
            {
              "value": "automatic",
              "descriptions": {
                "ja": "自動",
                "en": "Automatic"
              },
              "edt": "0x49"
            },
```


©2018-2022 ECHONET Consortium

```
            {
              "value": "other",
              "descriptions": {
                "ja": "その他",
                "en": "Other"
              },
              "edt": "0x40"
            }
          ]
        }
      },
      "powerSystemInterconnectionStatus": {
        "epc": "0xDB",
        "descriptions": {
          "ja": "系統連系状態",
          "en": "System interconnected type"
        },
        "writable": false,
        "observable": false,
        "schema": {
          "type": "string",
          "enum": [
            "reversePowerFlowAcceptable",
            "independent",
            "reversePowerFlowNotAcceptable"
          ],
          "values": [
            {
              "value": "reversePowerFlowAcceptable",
              "descriptions": {
                "ja": "系統連系 (逆潮流可)",
                "en": "Grid connection (reverse flow acceptable)"
              },
              "edt": "0x00"
            },
            {
              "value": "independent",
              "descriptions": {
                "ja": "独立",
                "en": "Independent operation"
              },
              "edt": "0x01"
            },
            {
              "value": "reversePowerFlowNotAcceptable",
              "descriptions": {
                "ja": "系統連系 (逆潮流不可)",
                "en": "Grid connection (reverse flow not acceptable)"
              },
              "edt": "0x02"
            }
          ]
        }
      },
      "chargingMethod": {
        "epc": "0xDC",
        "descriptions": {
          "ja": "充電方式",
          "en": "Charging method"
        },
        "writable": true,
```


©2018-2022 ECHONET Consortium

```
        "observable": true,
        "schema": {
          "type": "string",
          "enum": [
            "others",
            "maximumChargingElectricPower",
            "surplusElectricPower",
            "designatedElectricPower",
            "designatedElectricCurrent",
            "designatedPurchasingElectricPower",
            "v2G"
          ],
          "values": [
            {
              "value": "others",
              "descriptions": {
                "ja": "その他",
                "en": "Others"
              },
              "edt": "0x00"
            },
            {
              "value": "maximumChargingElectricPower",
              "descriptions": {
                "ja": "最大充電電力充電",
                "en": "Maximum charging electric power charging"
              },
              "edt": "0x01"
            },
            {
              "value": "surplusElectricPower",
              "descriptions": {
                "ja": "余剰電力充電",
                "en": "Surplus electric power charging"
              },
              "edt": "0x02"
            },
            {
              "value": "designatedElectricPower",
              "descriptions": {
                "ja": "指定電力充電",
                "en": "Designated electric power charging"
              },
              "edt": "0x03"
            },
            {
              "value": "designatedElectricCurrent",
              "descriptions": {
                "ja": "指定電流充電",
                "en": "Designated electric current charging"
              },
              "edt": "0x04"
            },
            {
              "value": "designatedPurchasingElectricPower",
              "descriptions": {
                "ja": "買電電力指定充電",
                "en": "Designated purchasing electric power charging"
              },
              "edt": "0x05"
            },
```


©2018-2022 ECHONET Consortium

```
            {
              "value": "v2G",
              "descriptions": {
                "ja": "V2G",
                "en": "V2G"
              },
              "edt": "0x06"
            }
          ]
        }
      },
      "dischargingMethod": {
        "epc": "0xDD",
        "descriptions": {
          "ja": "放電方式",
          "en": "Discharging method"
        },
        "writable": true,
        "observable": true,
        "schema": {
          "type": "string",
          "enum": [
            "others",
            "maximumDischargingElectricPower",
            "loadFollowing",
            "designatedElectricPower",
            "designatedElectricCurrent",
            "designatedPurchasingElectricPower",
            "v2G"
          ],
          "values": [
            {
              "value": "others",
              "descriptions": {
                "ja": "その他",
                "en": "Others"
              },
              "edt": "0x00"
            },
            {
              "value": "maximumDischargingElectricPower",
              "descriptions": {
                "ja": "最大放電電力充電",
                "en": "Maximum discharging electric power charging"
              },
              "edt": "0x01"
            },
            {
              "value": "loadFollowing",
              "descriptions": {
                "ja": "負荷追従放電",
                "en": "Load-following discharging"
              },
              "edt": "0x02"
            },
            {
              "value": "designatedElectricPower",
              "descriptions": {
                "ja": "指定電力放電",
                "en": "Designated electric power discharging"
              },
```


©2018-2022 ECHONET Consortium

```
            "edt": "0x03"
          },
          {
            "value": "designatedElectricCurrent",
            "descriptions": {
              "ja": "指定電流放電",
              "en": "Designated electric current discharging"
            },
            "edt": "0x04"
          },
          {
            "value": "designatedPurchasingElectricPower",
            "descriptions": {
              "ja": "買電電力指定放電",
              "en": "Designated purchasing electric power discharging"
            },
            "edt": "0x05"
          },
          {
            "value": "v2G",
            "descriptions": {
              "ja": "V2G",
              "en": "V2G"
            },
            "edt": "0x06"
          }
        ]
      }
    },
    "purchasingElectricPower": {
      "epc": "0xDE",
      "descriptions": {
        "ja": "買電電力設定値",
        "en": "Purchasing electric power setting"
      },
      "writable": true,
      "observable": false,
      "schema": {
        "type": "number",
        "unit": "W",
        "minimum": 0,
        "maximum": 999999999
      }
    },
    "reInterconnectionPermission": {
      "epc": "0xDF",
      "descriptions": {
        "ja": "再連系許可設定",
        "en": "Re-interconnection permission setting"
      },
      "writable": true,
      "observable": false,
      "schema": {
        "type": "string",
        "enum": [
          "permitted",
          "prohibited"
        ],
        "values": [
          {
            "value": "permitted",
```


©2018-2022 ECHONET Consortium

```
            "descriptions": {
              "ja": "許可",
              "en": "Permitted"
            },
            "edt": "0x41"
          },
          {
            "value": "prohibited",
            "descriptions": {
              "ja": "禁止",
              "en": "Prohibited"
            },
            "edt": "0x42"
          }
        ]
      }
    },
    "chargingDischargingElectricPower": {
      "epc": "0xE0",
      "descriptions": {
        "ja": "充放電電力設定値",
        "en": "Charging/Discharging electric power setting"
      },
      "writable": true,
      "observable": false,
      "schema": {
        "type": "number",
        "unit": "W",
        "minimum": -999999999,
        "maximum": 999999999
      },
      "note": {
        "ja": "プロパティの値域 は、0x00000001～0x3B9AC9FF (1～999,999,999)：充電時(プラス値)、
0xFFFFFFFF～0xC4653601 (－1～－999,999,999)：放電時(マイナス値)とする。なお、充放電電力設定値のプロパティ値
は、書き込み要求受信時以外は変更しない値とする。充電方式プロパティ(0xDC)のプロパティ値がV2G (0x06)である場合、もしく
は放電方式プロパティ(0xDC)のプロパティ値がV2G (0x06)である場合に、本プロパティのプロパティ値が正の数値である書き込み要
求を受信した場合、運転モード設定(0xDA)を充電(0x42)とする。本プロパティのプロパティ値が負の数値である書き込み要求を受
信した場合、運転モード設定(0xDA)を放電(0x43)とする。本プロパティのプロパティ値が0x00である書き込み要求を受信した場
合、運転モード設定(0xDA)を待機(0x44)とする。充電方式プロパティ(0xDC)がV2G (0x06)以外の時に、本プロパティのプロパテ
ィ値が0もしく正の値である書き込み要求を受信しても、運転モード設定プロパティおよび本プロパティのプロパティ値は変更しない。ま
た、放電方式プロパティ(0xDD)がV2G (0x06)以外の時に、本プロパティのプロパティ値が0もしく負の値である書き込み要求を受信
しても、運転モード設定プロパティおよび本プロパティのプロパティ値は変更しない",
        "en": "This property specifies the charging/discharging electric power in watts. The
property value range shall be 0x00000001 to 0x3B9AC9FF (1 to 999,999,999): charging
(positive), 0xFFFFFFFF to 0xC4653601 (-1 to -999,999,999W): discharging (negative). The
property value of the charging/discharging electric power setting shall be a value that is
not changed except when a write request is received. When the value of the charging method
property (0xDC) is V2G (0x06) or the value of the discharging method property (0xDD) is V2G
(0x06), the operation mode setting property (0xDA) shall be set to charging (0x42) if a write
request specifying a positive value for this property is received. The operation mode setting
property (0xDA) shall be set to discharging (0x43) if a write request specifying a negative
value for this property is received. The operation mode setting property (0xDA) shall be set
to standby (0x44) if a write request specifying zero for this property is received. When the
value of the charging method property (0xDC) is other than V2G (0x06), the values of the
operation mode setting property and this property shall not be changed even if a write
request specifying a positive value or zero for this property is received. When the value of
the discharging method property (0xDD) is other than V2G (0x06), the values of the operation
mode setting property and this property shall not be changed even if a write request
specifying a negative value or zero for this property is received."
      }
    },
```


©2018-2022 ECHONET Consortium

```
    "remainingCapacity1": {
      "epc": "0xE2",
      "descriptions": {
        "ja": "車載電池の電池残容量1",
        "en": "Remaining stored electricity of vehicle mounted battery1"
      },
      "writable": false,
      "observable": false,
      "schema": {
        "type": "number",
        "unit": "Wh",
        "minimum": 0,
        "maximum": 999999999
      },
      "note": {
        "ja": "車載電池の電池残容量1、車載電池の電池残容量3 は、電気自動車充放電器に接続された電気自動車
から出力される場合、いずれかの搭載を必須とする。応答できない状況にある場合、不可応答を返す",
        "en": "The installation of 'Remaining stored electricity of vehicle mounted battery
1' or 'Remaining stored electricity of vehicle mounted battery 3' is mandatory in case of
output from an electric vehicle connected to an electric vehicle charger/discharger. Where no
response can be returned, 'Response impossible' is returned."
      }
    },
    "remainingCapacity2": {
      "epc": "0xE3",
      "descriptions": {
        "ja": "車載電池の電池残容量2",
        "en": "Remaining stored electricity of vehicle mounted battery2"
      },
      "writable": false,
      "observable": false,
      "schema": {
        "type": "number",
        "unit": "Ah",
        "minimum": 0,
        "maximum": 3276.6,
        "multipleOf": 0.1
      }
    },
    "remainingCapacity3": {
      "epc": "0xE4",
      "descriptions": {
        "ja": "車載電池の電池残容量3",
        "en": "Remaining stored electricity of vehicle mounted battery3"
      },
      "writable": false,
      "observable": false,
      "schema": {
        "type": "number",
        "unit": "%",
        "minimum": 0,
        "maximum": 100
      },
      "note": {
        "ja": "車載電池の電池残容量1、車載電池の電池残容量3 は、電気自動車充放電器に接続された電気自動車
から出力される場合、いずれかの搭載を必須とする。応答できない状況にある場合、不可応答を返す",
        "en": "The installation of 'Remaining stored electricity of vehicle mounted battery
1' or 'Remaining stored electricity of vehicle mounted battery 3' is mandatory in case of
output from an electric vehicle connected to an electric vehicle charger/discharger. Where no
response can be returned, 'Response impossible' is returned."
      }
```


©2018-2022 ECHONET Consortium

```
      },
      "maintenanceStatus": {
        "epc": "0xE5",
        "descriptions": {
          "ja": "メンテナンス状態",
          "en": "Maintenance status"
        },
        "writable": false,
        "observable": true,
        "schema": {
          "type": "string",
          "enum": [
            "necessary",
            "notNecessary"
          ],
          "values": [
            {
              "value": "necessary",
              "descriptions": {
                "ja": "発生有",
                "en": "Occurrence status found"
              },
              "edt": "0x41"
            },
            {
              "value": "notNecessary",
              "descriptions": {
                "ja": "発生無",
                "en": "Occurrence status not found"
              },
              "edt": "0x42"
            }
          ]
        }
      },
      "vehicleId": {
        "epc": "0xE6",
        "descriptions": {
          "ja": "車両ID",
          "en": "Vehicle ID"
        },
        "writable": false,
        "observable": false,
        "schema": {
          "type": "string"
        }
      },
      "targetChargingElectricEnergy1": {
        "epc": "0xE7",
        "descriptions": {
          "ja": "充電量設定値1",
          "en": "Charging amount setting 1"
        },
        "writable": true,
        "observable": false,
        "schema": {
          "type": "number",
          "unit": "Wh",
          "minimum": 0,
          "maximum": 999999999
        },
```


©2018-2022 ECHONET Consortium

```
      "note": {
        "ja": "充電量設定値1 (または2)を使用する場合は充電量設定値2 (または1)を使用しない。0は未設定とする",
        "en": "When 'Charging amount setting 1 (or 2)' is used, 'Charging amount setting 2
(or 1)' shall not be used. 0 shall be 'not set'."
      }
    },
    "targetChargingElectricEnergy2": {
      "epc": "0xE9",
      "descriptions": {
        "ja": "充電量設定値2",
        "en": "Charging amount setting 2"
      },
      "writable": true,
      "observable": false,
      "schema": {
        "type": "number",
        "unit": "Ah",
        "minimum": 0,
        "maximum": 3276.6,
        "multipleOf": 0.1
      },
      "note": {
        "ja": "充電量設定値1 (または2)を使用する場合は充電量設定値2 (または1)を使用しない。0は未設定とする",
        "en": "When 'Charging amount setting 1 (or 2)' is used, 'Charging amount setting 2
(or 1)' shall not be used. 0 shall be 'not set'."
      }
    },
    "targetDischargingElectricEnergy": {
      "epc": "0xEA",
      "descriptions": {
        "ja": "放電量設定値",
        "en": "Discharging electric energy setting"
      },
      "writable": true,
      "observable": false,
      "schema": {
        "type": "number",
        "unit": "Wh",
        "minimum": 0,
        "maximum": 999999999
      },
      "note": {
        "ja": "0は未設定とする",
        "en": "0 shall be 'not set'."
      }
    },
    "chargingElectricPower": {
      "epc": "0xEB",
      "descriptions": {
        "ja": "充電電力設定値",
        "en": "Charging electric energy setting"
      },
      "writable": true,
      "observable": false,
      "schema": {
        "type": "number",
        "unit": "W",
        "minimum": 0,
        "maximum": 999999999
      }
    },
```


©2018-2022 ECHONET Consortium

```
      "dischargingElectricPower": {
        "epc": "0xEC",
        "descriptions": {
          "ja": "放電電力設定値",
          "en": "Discharging electric energy setting"
        },
        "writable": true,
        "observable": false,
        "schema": {
          "type": "number",
          "unit": "W",
          "minimum": 0,
          "maximum": 999999999
        }
      },
      "chargingCurrent": {
        "epc": "0xED",
        "descriptions": {
          "ja": "充電電流設定値",
          "en": "Charging current setting"
        },
        "writable": true,
        "observable": false,
        "schema": {
          "type": "number",
          "unit": "A",
          "minimum": 0,
          "maximum": 6553.3,
          "multipleOf": 0.1
        }
      },
      "dischargingCurrent": {
        "epc": "0xEE",
        "descriptions": {
          "ja": "放電電流設定値",
          "en": "Discharging current setting"
        },
        "writable": true,
        "observable": false,
        "schema": {
          "type": "number",
          "unit": "A",
          "minimum": 0,
          "maximum": 6553.3,
          "multipleOf": 0.1
        }
      },
      "ratedVoltageOfIndependentOperation": {
        "epc": "0xEF",
        "descriptions": {
          "ja": "定格電圧 (独立時)",
          "en": "Rated voltage (Independent)"
        },
        "writable": false,
        "observable": false,
        "schema": {
          "type": "number",
          "unit": "V",
          "minimum": 0,
          "maximum": 32766
        }
```


©2018-2022 ECHONET Consortium

```
      }
    },
    "actions": {
      "resetCumulativeDischargingElectricEnergy": {
        "epc": "0xD7",
        "descriptions": {
          "ja": "積算放電電力量リセット設定",
          "en": "Cumulative amount of discharging electric energy reset setting"
        },
        "schema": {},
        "note": {
          "ja": "ECHONET LiteではSet only property",
          "en": "Access rule of the corresponding ECHONET Lite property is Set only."
        }
      },
      "resetCumulativeChargingElectricEnergy": {
        "epc": "0xD9",
        "descriptions": {
          "ja": "積算充電電力量リセット設定",
          "en": "Cumulative amount of charging electric energy reset setting"
        },
        "schema": {},
        "note": {
          "ja": "ECHONET LiteではSet only property",
          "en": "Access rule of the corresponding ECHONET Lite property is Set only."
        }
      }
    }
  }
```


©2018-2022 ECHONET Consortium

Watt-hour meter: wattHourMeter: 0x0280

Back to the List of Devices

Note to Server:
The following ECHONET Lite properties shall be actual values, by multiplying the value obtained with ECHONET Lite and the unit for cumulative amounts of electric energy (EPC=0xE2). The server side shall perform this calculation. Therefore, the ECHONET Lite Web API can use acquired values without modification.
For the following properties, "maximum" and "multipleOf" can be added to the data schema as a response to /devices/<deviceId>. When "maximum" is added, the value is obtained by multiplying 99999999 by the unit for cumulative amounts of electric energy (EPC=0xE2). When "multipleOf" is added, the value is the unit for cumulative amounts of electric energy (EPC=0xE2). In either case, the server side shall perform these calculations and setting.

- Cumulative amounts of electric energy measurement value
- Cumulative amounts of electric energy measurement log 1

Ex.:

```
cumulative amount of electric energy (EPC=0xE0): 0x00BC614E (12345678)
Unit for cumulative amounts of electric energy (EPC=0xE2): 0x02 (0.01 kWh)
    Actual cumulative amounts of electric energy: 12345678 * 0.01 = 123456.78 [kWh]
    Value of "maximum": 99999999 * 0.01 = 999999.99
    Value of "multipleOf": 0.01
```

Properties

Property Resource Name	Access Method	Data Type	EPC (EL)	Property name (EL)	Note
cumulativeElectricEnergy	GET	number	0xE0	Cumulative amounts of electric energy measurement value	
cumulativeElectricEnergyLog1	GET	array	0xE3	Cumulative amounts of electric energy measurement log 1	

Device Description

```
{
  "deviceType": "wattHourMeter",
  "metaData": {
    "version": "1.4.0"
  },
  "eoj": "0x0280",
  "descriptions": {
    "ja": "電力量メータ",
    "en": "Watt-hour meter"
  },
  "properties": {
    "cumulativeElectricEnergy": {
      "epc": "0xE0",
```


©2018-2022 ECHONET Consortium

```
        "descriptions": {
          "ja": "積算電力量計測値",
          "en": "Cumulative amounts of electric energy measurement value"
        },
        "writable": false,
        "observable": false,
        "schema": {
          "type": "number",
          "unit": "kWh",
          "minimum": 0,
          "coefficient": [
            "0xE2"
          ]
        },
        "note": {
          "ja": "EPC=0xE2の値を乗算済みの値",
          "en": "This value is already multipled by the value of EPC=0xE2."
        }
      },
      "cumulativeElectricEnergyLog1": {
        "epc": "0xE3",
        "descriptions": {
          "ja": "積算電力量計測値履歴1",
          "en": "Cumulative amounts of electric energy measurement log 1"
        },
        "writable": false,
        "observable": false,
        "schema": {
          "type": "array",
          "minItems": 48,
          "maxItems": 48,
          "items": {
            "oneOf": [
              {
                "type": "number",
                "unit": "kWh",
                "minimum": 0,
                "coefficient": [
                  "0xE2"
                ]
              },
              {
                "type": "string",
                "enum": [
                  "noData"
                ],
                "values": [
                  {
                    "value": "noData",
                    "descriptions": {
                      "ja": "未計測",
                      "en": "Not measured"
                    },
                    "edt": "0xFFFFFFFE"
                  }
                ]
              }
            ]
          }
        },
        "note": {
```


©2018-2022 ECHONET Consortium

```
          "ja": "EPC=0xE2の値を乗算済みの値",
          "en": "This value is already multipled by the value of EPC=0xE2."
        }
      }
    }
  }
```


©2018-2022 ECHONET Consortium

Water flowmeter: waterFlowMeter: 0x0281

Back to the List of Devices

Properties

Property Resource Name	Access Method	Data Type	EPC (EL)	Property name (EL)	Note
waterFlowMeterClassification	GET, PUT	string	0xD0	Water flowmeter classification	
ownerClassification	GET, PUT	string	0xD1	Owner classification	
cumulativeFlowingWater	GET	number	0xE0	Measured cumulative amount of flowing water	
abnormalDetection	GET	boolean	0xE3	Detection of abnormal value in metering data	
securityDataInformation	GET	number	0xE4	Security data information	
idNumber	GET, PUT	string	0xE5	ID number setting	
verificationExpirationInformation	GET, PUT	string	0xE6	Verification expiration information	

Device Description

```
{
  "deviceType": "waterFlowMeter",
  "metaData": {
    "version": "1.4.0"
  },
  "eoj": "0x0281",
  "descriptions": {
    "ja": "水流量メータ",
    "en": "Water flowmeter"
  },
  "properties": {
    "waterFlowMeterClassification": {
      "epc": "0xD0",
      "descriptions": {
        "ja": "水流量メータ区分",
        "en": "Water flowmeter classification"
      },
      "writable": true,
      "observable": false,
      "schema": {
        "type": "string",
        "enum": [
          "runningWater",
          "recycledWater",
          "sewageWater",
          "otherWater"
        ],
```


©2018-2022 ECHONET Consortium

```
          "values": [
            {
              "value": "runningWater",
              "descriptions": {
                "ja": "上水",
                "en": "running water"
              },
              "edt": "0x30"
            },
            {
              "value": "recycledWater",
              "descriptions": {
                "ja": "中水",
                "en": "recycled water"
              },
              "edt": "0x31"
            },
            {
              "value": "sewageWater",
              "descriptions": {
                "ja": "下水",
                "en": "sewage water"
              },
              "edt": "0x32"
            },
            {
              "value": "otherWater",
              "descriptions": {
                "ja": "その他",
                "en": "other water"
              },
              "edt": "0x33"
            }
          ]
        }
      },
      "ownerClassification": {
        "epc": "0xD1",
        "descriptions": {
          "ja": "所有者区分",
          "en": "Owner classification"
        },
        "writable": true,
        "observable": false,
        "schema": {
          "type": "string",
          "enum": [
            "notSpecified",
            "publicWaterworksCompany",
            "privateSectorCompany",
            "individual"
          ],
          "values": [
            {
              "value": "notSpecified",
              "descriptions": {
                "ja": "指定なし",
                "en": "Not specified"
              },
              "edt": "0x30"
            },
```


©2018-2022 ECHONET Consortium

```
            {
              "value": "publicWaterworksCompany",
              "descriptions": {
                "ja": "事業体",
                "en": "Public waterworks company"
              },
              "edt": "0x31"
            },
            {
              "value": "privateSectorCompany",
              "descriptions": {
                "ja": "民間会社",
                "en": "Private sector company"
              },
              "edt": "0x32"
            },
            {
              "value": "individual",
              "descriptions": {
                "ja": "個人",
                "en": "Individual"
              },
              "edt": "0x33"
            }
          ]
        }
      },
      "cumulativeFlowingWater": {
        "epc": "0xE0",
        "descriptions": {
          "ja": "積算水流量計測値",
          "en": "Measured cumulative amount of flowing water"
        },
        "writable": false,
        "observable": false,
        "schema": {
          "type": "number",
          "unit": "m3",
          "minimum": 0,
          "maximum": 999999999
        },
        "note": {
          "ja": "値は0xE1の値を乗算した値。",
          "en": "This value is already multiplied with 0xE1."
        }
      },
      "abnormalDetection": {
        "epc": "0xE3",
        "descriptions": {
          "ja": "検針データ異常検知状態",
          "en": "Detection of abnormal value in metering data"
        },
        "writable": false,
        "observable": true,
        "schema": {
          "type": "boolean",
          "values": [
            {
              "value": true,
              "descriptions": {
                "ja": "検知有",
```


©2018-2022 ECHONET Consortium

```
                "en": "Detected"
              },
              "edt": "0x41"
            },
            {
              "value": false,
              "descriptions": {
                "ja": "検知無",
                "en": "Not detected"
              },
              "edt": "0x42"
            }
          ]
        }
      },
      "securityDataInformation": {
        "epc": "0xE4",
        "descriptions": {
          "ja": "セキュリティデータ情報",
          "en": "Security data information"
        },
        "writable": false,
        "observable": false,
        "schema": {
          "type": "number",
          "minimum": 0,
          "maximum": 4294967295
        }
      },
      "idNumber": {
        "epc": "0xE5",
        "descriptions": {
          "ja": "ID番号設定",
          "en": "ID number setting"
        },
        "writable": true,
        "observable": false,
        "schema": {
          "type": "string"
        }
      },
      "verificationExpirationInformation": {
        "epc": "0xE6",
        "descriptions": {
          "ja": "検定満期情報",
          "en": "Verification expiration information"
        },
        "writable": true,
        "observable": false,
        "schema": {
          "type": "string"
        }
      }
    }
  }
```


©2018-2022 ECHONET Consortium

Gas meter: gasMeter: 0x0282

Back to the List of Devices

Properties

Property Resource Name	Access Method	Data Type	EPC (EL)	Property name (EL)	Note
cumulativeGasConsumption	GET	number	0xE0	Cumulative amount of gas consumption measurement value	
cumulativeGasConsumptionLog	GET	array	0xE2	Cumulative amounts of gas consumption measurement log	

Device Description


```
{
  "deviceType": "gasMeter",
  "metaData": {
    "version": "1.4.0"
  },
  "eoj": "0x0282",
  "descriptions": {
    "ja": "ガスメータ",
    "en": "Gas meter"
  },
  "properties": {
    "cumulativeGasConsumption": {
      "epc": "0xE0",
      "descriptions": {
        "ja": "積算ガス消費量計測値",
        "en": "Cumulative amount of gas consumption measurement value"
      },
      "writable": false,
      "observable": false,
      "schema": {
        "type": "number",
        "unit": "m3",
        "minimum": 0,
        "maximum": 999999.999,
        "multipleOf": 0.001
      }
    },
    "cumulativeGasConsumptionLog": {
      "epc": "0xE2",
      "descriptions": {
        "ja": "積算ガス消費量計測値履歴",
        "en": "Cumulative amounts of gas consumption measurement log"
      },
      "writable": false,
      "observable": false,
      "schema": {
        "type": "array",
        "minItems": 48,
        "maxItems": 48,
        "items": {
```


©2018-2022 ECHONET Consortium

```
            "oneOf": [
              {
                "type": "number",
                "unit": "m3",
                "minimum": 0,
                "maximum": 999999.999,
                "multipleOf": 0.001
              },
              {
                "type": "string",
                "enum": [
                  "noData"
                ],
                "values": [
                  {
                    "value": "noData",
                    "descriptions": {
                      "ja": "未計測",
                      "en": "Not measured"
                    },
                    "edt": "0xFFFFFFFE"
                  }
                ]
              }
            ]
          }
        }
      }
    }
  }
```


©2018-2022 ECHONET Consortium

Power distribution board metering: powerDistributionBoardMetering: 0x0287

Back to the List of Devices

Note to Server:
For the following ECHONET Lite Properties, the actual value is that multiplying the value obtained with ECHONET Lite by the unit for cumulative amount of electric energy (EPC=0xC2). The server side shall perform this calculation. Therefore, the client can use the values obtained via the ECHONET Lite Web API as they are. For the following properties, "maximum" and "multipleOf" may be added to the data schema as a response to /devices/<deviceId>. When "maximum" is added, the value is obtained by multiplying 99999999 by the unit for cumulative amount of electric energy (EPC=0xC2). When "multipleOf" is added, the value is the unit for cumulative amount of electric energy (EPC=0xC2). In either case, the server side shall perform these calculations and setting.

- Measured cumulative amount of electric energy consumption list (simplex)
- Measured cumulative amount of electric energy consumption list (duplex)
- Measured cumulative amount of electric energy (normal direction)
- Measured cumulative amount of electric energy (reverse direction)
- Historical data of measured cumulative amount of electric energy (normal direction)
- Historical data of measured cumulative amount of electric energy (reverse direction)
- Measurement channels 1 to 32

Ex.:

```
Measured cumulative amount of electric energy (normal direction) (EPC=0xC0): 0x00BC614E
(12345678)
Unit for cumulative amount of electric energy (EPC=0xC2): 0x02 (0.01kW)
    Actual cumulative amount of electric energy: 12345678 * 0.01 = 123456.78 [kW]
    Value of "maximum": 99999999 * 0.01 = 999999.99
    Value of "multipleOf": 0.01
```

The following ECHONET Lite properties need to set "day on which the historical data of measured cumulative amount of electric energy is to be retrieved (EPC=0xC5)" before getting data with ECHONET Lite. The ECHONET Lite Web API designates the value of "day on which the historical data of measured cumulative amount of electric energy is to be retrieved" as a Query when getting (REST) the following properties. The server gets "historical data of measured cumulative amount of electric energy" with ECHONET Lite, after setting "day on which the historical data of measured cumulative amount of electric energy is to be retrieved". Note that if you are not adding a query with the ECHONET Lite Web API, then handle "day on which the historical data of measured cumulative amount of electric energy is to be retrieved" as "0".

- Historical data of measured cumulative amounts of electric energy (normal direction)
- Historical data of measured cumulative amounts of electric energy (reverse direction)

The following list of measured values for ECHONET Lite properties needs to set properties described in the measured channel range specification before getting data with ECHONET Lite. The ECHONET Lite Web API designates the values of properties described in the measured channel range specification as a query, when getting (REST) the properties described in the following list of measured values. The server sets the

©2018-2022 ECHONET Consortium

properties described in the measured channel range specification in ECHONET Lite and then obtains the properties described in the list of measured values.

List of measured values	Measured channel range specification
Measured cumulative amount of electric energy consumption list (simplex)	Measured channel range specification for cumulative amount of electric energy consumption (simplex)
Measured instantaneous current list (simplex)	Measured channel range specification for instantaneous current (simplex)
Measured instantaneous power consumption list (simplex)	Measured channel range specification for instantaneous power consumption (simplex)
Measured cumulative amount of electric energy consumption list (duplex)	Measured channel range specification for cumulative amount of electric energy consumption (duplex)
Measured instantaneous current list (duplex)	Measured channel range specification for instantaneous current (duplex)
Measured instantaneous power consumption list (duplex)	Measured channel range specification for instantaneous power consumption (duplex)

Properties

Property Resource Name	Access Method	Data Type	EPC (EL)	Property name (EL)	Note
masterRatedCapacity	GET	number	0xB0	Master rated capacity	
numberOfMeasurementChannelsSimplex	GET	number, string	0xB1	Number of measurement channels (simplex)	
cumulativeElectricEnergyListSimplex	GET	object	0xB3	Measured cumulative amount of electric power consumption list (simplex)	*1
instantaneousCurrentListSimplex	GET	object	0xB5	Measured instantaneous current list (simplex)	*1
instantaneousElectricPowerListSimplex	GET	object	0xB7	Measured instantaneous power consumption list (simplex)	*1

©2018-2022 ECHONET Consortium

Property Resource Name	Access Method	Data Type	EPC (EL)	Property name (EL)	Note
numberOfMeasurementChannelsDuplex	GET	number, string	0xB8	Number of measurement channels (duplex)	
cumulativeElectricEnergyListDuplex	GET	object	0xBA	Measured cumulative amount of electric power consumption list (duplex)	*1
instantaneousCurrentListDuplex	GET	object	0xBC	Measured instantaneous current list (duplex)	*1
instantaneousElectricPowerListDuplex	GET	object	0xBE	Measured instantaneous power consumption list (duplex)	*1
normalDirectionCumulativeElectricEnergy	GET	number, string	0xC0	Measured cumulative amount of electric energy (normal direction)	
reverseDirectionCumulativeElectricEnergy	GET	number, string	0xC1	Measured cumulative amount of electric energy (reverse direction)	
normalDirectionCumulativeElectricEnergyLog	GET	object	0xC3	Historical data of measured cumulative amounts of electric energy (normal direction)	*1
reverseDirectionCumulativeElectricEnergyLog	GET	object	0xC4	Historical data of measured cumulative amounts of electric energy (reverse direction)	*1
instantaneousElectricPower	GET	number, string	0xC6	Measured instantaneous amount of electric energy	

©2018-2022 ECHONET Consortium

Property Resource Name	Access Method	Data Type	EPC (EL)	Property name (EL)	Note
instantaneousCurrent	GET	object	0xC7	Measured instantaneous currents	
instantaneousVoltage	GET	object	0xC8	Measured instantaneous voltages	
measurementChannel1	GET	object	0xD0	Measurement channel 1	
measurementChannel2	GET	object	0xD1	Measurement channel 2	
measurementChannel3	GET	object	0xD2	Measurement channel 3	
measurementChannel4	GET	object	0xD3	Measurement channel 4	
measurementChannel5	GET	object	0xD4	Measurement channel 5	
measurementChannel6	GET	object	0xD5	Measurement channel 6	
measurementChannel7	GET	object	0xD6	Measurement channel 7	
measurementChannel8	GET	object	0xD7	Measurement channel 8	
measurementChannel9	GET	object	0xD8	Measurement channel 9	
measurementChannel10	GET	object	0xD9	Measurement channel 10	
measurementChannel11	GET	object	0xDA	Measurement channel 11	
measurementChannel12	GET	object	0xDB	Measurement channel 12	
measurementChannel13	GET	object	0xDC	Measurement channel 13	
measurementChannel14	GET	object	0xDD	Measurement channel 14	

©2018-2022 ECHONET Consortium

Property Resource Name	Access Method	Data Type	EPC (EL)	Property name (EL)	Note
measurementChannel15	GET	object	0xDE	Measurement channel 15	
measurementChannel16	GET	object	0xDF	Measurement channel 16	
measurementChannel17	GET	object	0xE0	Measurement channel 17	
measurementChannel18	GET	object	0xE1	Measurement channel 18	
measurementChannel19	GET	object	0xE2	Measurement channel 19	
measurementChannel20	GET	object	0xE3	Measurement channel 20	
measurementChannel21	GET	object	0xE4	Measurement channel 21	
measurementChannel22	GET	object	0xE5	Measurement channel 22	
measurementChannel23	GET	object	0xE6	Measurement channel 23	
measurementChannel24	GET	object	0xE7	Measurement channel 24	
measurementChannel25	GET	object	0xE8	Measurement channel 25	
measurementChannel26	GET	object	0xE9	Measurement channel 26	
measurementChannel27	GET	object	0xEA	Measurement channel 27	
measurementChannel28	GET	object	0xEB	Measurement channel 28	
measurementChannel29	GET	object	0xEC	Measurement channel 29	
measurementChannel30	GET	object	0xED	Measurement channel 30	

©2018-2022 ECHONET Consortium

Property Resource Name	Access Method	Data Type	EPC (EL)	Property name (EL)	Note
measurementChannel31	GET	object	0xEE	Measurement channel 31	
measurementChannel32	GET	object	0xEF	Measurement channel 32	

*1 With query

Device Description

```
{
  "deviceType": "powerDistributionBoardMetering",
  "metaData": {
    "version": "1.4.0"
  },
  "eoj": "0x0287",
  "descriptions": {
    "ja": "分電盤メータリング",
    "en": "Power distribution board metering"
  },
  "properties": {
    "masterRatedCapacity": {
      "epc": "0xB0",
      "descriptions": {
        "ja": "主幹定格容量",
        "en": "Master rated capacity"
      },
      "writable": false,
      "observable": false,
      "schema": {
        "type": "number",
        "unit": "A",
        "minimum": 0,
        "maximum": 253
      }
    },
    "numberOfMeasurementChannelsSimplex": {
      "epc": "0xB1",
      "descriptions": {
        "ja": "計測チャンネル数 (片方向)",
        "en": "Number of measurement channels (simplex)"
      },
      "writable": false,
      "observable": false,
      "schema": {
        "oneOf": [
          {
            "type": "number",
            "minimum": 1,
            "maximum": 252
          },
          {
            "type": "string",
            "enum": [
              "undefined"
```


©2018-2022 ECHONET Consortium

```
            ],
            "values": [
              {
                "value": "undefined",
                "descriptions": {
                  "ja": "不明",
                  "en": "Undefined"
                },
                "edt": "0xFD"
              }
            ]
          }
        ]
      }
    },
    "cumulativeElectricEnergyListSimplex": {
      "epc": "0xB3",
      "epcAtomic": "0xB2",
      "descriptions": {
        "ja": "積算電力量計測値リスト (片方向)",
        "en": "Measured cumulative amount of electric power consumption list (simplex)"
      },
      "writable": false,
      "observable": false,
      "urlParameters": {
        "startChannel": {
          "descriptions": {
            "ja": "取得開始チャンネル",
            "en": "Acquisition start channel"
          },
          "schema": {
            "type": "number",
            "minimum": 1,
            "maximum": 252
          },
          "required": true
        },
        "range": {
          "descriptions": {
            "ja": "取得開始チャンネルからの範囲を指定",
            "en": "Range from the acquisition start channel"
          },
          "schema": {
            "type": "number",
            "minimum": 1,
            "maximum": 60
          },
          "required": true
        }
      },
      "schema": {
        "type": "object",
        "properties": {
          "startChannel": {
            "descriptions": {
              "ja": "取得開始チャンネル",
              "en": "Acquisition start channel"
            },
            "oneOf": [
              {
                "type": "number",
```


©2018-2022 ECHONET Consortium

```
                "minimum": 1,
                "maximum": 252
              },
              {
                "type": "string",
                "enum": [
                  "undefined"
                ],
                "values": [
                  {
                    "value": "undefined",
                    "descriptions": {
                      "ja": "不明",
                      "en": "Undefined"
                    },
                    "edt": "0xFD"
                  }
                ]
              }
            ]
          },
          "range": {
            "descriptions": {
              "ja": "取得開始チャンネルからの範囲を指定",
              "en": "Range from the acquisition start channel"
            },
            "oneOf": [
              {
                "type": "number",
                "minimum": 1,
                "maximum": 60
              },
              {
                "type": "string",
                "enum": [
                  "undefined"
                ],
                "values": [
                  {
                    "value": "undefined",
                    "descriptions": {
                      "ja": "不明",
                      "en": "Undefined"
                    },
                    "edt": "0xFD"
                  }
                ]
              }
            ]
          },
          "electricEnergy": {
            "descriptions": {
              "ja": "積算電力量計測値",
              "en": "Measured cumulative amount of electric power consumption"
            },
            "type": "array",
            "maxItems": 60,
            "items": {
              "oneOf": [
                {
                  "type": "number",
```


©2018-2022 ECHONET Consortium

```
                "unit": "kWh",
                "minimum": 0,
                "coefficient": [
                  "0xC2"
                ]
              },
              {
                "type": "string",
                "enum": [
                  "noData"
                ],
                "values": [
                  {
                    "value": "noData",
                    "descriptions": {
                      "ja": "未計測",
                      "en": "Not measured"
                    },
                    "edt": "0xFFFFFFFE"
                  }
                ]
              }
            ]
          }
        }
      }
    }
  },
  "instantaneousCurrentListSimplex": {
    "epc": "0xB5",
    "epcAtomic": "0xB4",
    "descriptions": {
      "ja": "瞬時電流計測値リスト (片方向)",
      "en": "Measured instantaneous current list (simplex)"
    },
    "writable": false,
    "observable": false,
    "urlParameters": {
      "startChannel": {
        "descriptions": {
          "ja": "取得開始チャンネル",
          "en": "Acquisition start channel"
        },
        "schema": {
          "type": "number",
          "minimum": 1,
          "maximum": 252
        },
        "required": true
      },
      "range": {
        "descriptions": {
          "ja": "取得開始チャンネルからの範囲を指定",
          "en": "Range from the acquisition start channel"
        },
        "schema": {
          "type": "number",
          "minimum": 1,
          "maximum": 60
        },
        "required": true
```


©2018-2022 ECHONET Consortium

```
          }
        },
        "schema": {
          "type": "object",
          "properties": {
            "startChannel": {
              "descriptions": {
                "ja": "取得開始チャンネル",
                "en": "Acquisition start channel"
              },
              "oneOf": [
                {
                  "type": "number",
                  "minimum": 1,
                  "maximum": 252
                },
                {
                  "type": "string",
                  "enum": [
                    "undefined"
                  ],
                  "values": [
                    {
                      "value": "undefined",
                      "descriptions": {
                        "ja": "不明",
                        "en": "Undefined"
                      },
                      "edt": "0xFD"
                    }
                  ]
                }
              ]
            },
            "range": {
              "descriptions": {
                "ja": "取得開始チャンネルからの範囲を指定",
                "en": "Range from the acquisition start channel"
              },
              "oneOf": [
                {
                  "type": "number",
                  "minimum": 1,
                  "maximum": 60
                },
                {
                  "type": "string",
                  "enum": [
                    "undefined"
                  ],
                  "values": [
                    {
                      "value": "undefined",
                      "descriptions": {
                        "ja": "不明",
                        "en": "Undefined"
                      },
                      "edt": "0xFD"
                    }
                  ]
                }
```


©2018-2022 ECHONET Consortium

```
            ]
          },
          "instantaneousCurrent": {
            "descriptions": {
              "ja": "瞬時電流計測値",
              "en": "Measured instantaneous current"
            },
            "type": "array",
            "maxItems": 60,
            "items": {
              "type": "object",
              "properties": {
                "rPhase": {
                  "descriptions": {
                    "ja": "R相",
                    "en": "R phase"
                  },
                  "oneOf": [
                    {
                      "type": "number",
                      "unit": "A",
                      "minimum": -3276.7,
                      "maximum": 3276.5,
                      "multipleOf": 0.1
                    },
                    {
                      "type": "string",
                      "enum": [
                        "noData"
                      ],
                      "values": [
                        {
                          "value": "noData",
                          "descriptions": {
                            "ja": "未計測",
                            "en": "Not measured"
                          },
                          "edt": "0x7FFE"
                        }
                      ]
                    }
                  ]
                },
                "tPhase": {
                  "descriptions": {
                    "ja": "T相",
                    "en": "T phase"
                  },
                  "oneOf": [
                    {
                      "type": "number",
                      "unit": "A",
                      "minimum": -3276.7,
                      "maximum": 3276.5,
                      "multipleOf": 0.1
                    },
                    {
                      "type": "string",
                      "enum": [
                        "noData"
                      ],
```


©2018-2022 ECHONET Consortium

```
                        "values": [
                          {
                            "value": "noData",
                            "descriptions": {
                              "ja": "未計測",
                              "en": "Not measured"
                            },
                            "edt": "0x7FFE"
                          }
                        ]
                      }
                    ]
                  }
                }
              }
            }
          }
        }
      }
    },
    "instantaneousElectricPowerListSimplex": {
      "epc": "0xB7",
      "epcAtomic": "0xB6",
      "descriptions": {
        "ja": "瞬時電力計測値リスト (片方向)",
        "en": "Measured instantaneous power consumption list (simplex)"
      },
      "writable": false,
      "observable": false,
      "urlParameters": {
        "startChannel": {
          "descriptions": {
            "ja": "取得開始チャンネル",
            "en": "Acquisition start channel"
          },
          "schema": {
            "type": "number",
            "minimum": 1,
            "maximum": 252
          },
          "required": true
        },
        "range": {
          "descriptions": {
            "ja": "取得開始チャンネルからの範囲を指定",
            "en": "Range from the acquisition start channel"
          },
          "schema": {
            "type": "number",
            "minimum": 1,
            "maximum": 60
          },
          "required": true
        }
      },
      "schema": {
        "type": "object",
        "properties": {
          "startChannel": {
            "descriptions": {
              "ja": "取得開始チャンネル",
              "en": "Acquisition start channel"
```


©2018-2022 ECHONET Consortium

```
            },
            "oneOf": [
              {
                "type": "number",
                "minimum": 1,
                "maximum": 252
              },
              {
                "type": "string",
                "enum": [
                  "undefined"
                ],
                "values": [
                  {
                    "value": "undefined",
                    "descriptions": {
                      "ja": "不明",
                      "en": "Undefined"
                    },
                    "edt": "0xFD"
                  }
                ]
              }
            ]
          },
          "range": {
            "descriptions": {
              "ja": "取得開始チャンネルからの範囲を指定",
              "en": "Range from the acquisition start channel"
            },
            "oneOf": [
              {
                "type": "number",
                "minimum": 1,
                "maximum": 60
              },
              {
                "type": "string",
                "enum": [
                  "undefined"
                ],
                "values": [
                  {
                    "value": "undefined",
                    "descriptions": {
                      "ja": "不明",
                      "en": "Undefined"
                    },
                    "edt": "0xFD"
                  }
                ]
              }
            ]
          },
          "instantaneousElectricPower": {
            "descriptions": {
              "ja": "瞬時電力計測値",
              "en": "Measured instantaneous power consumption"
            },
            "type": "array",
            "maxItems": 60,
```


©2018-2022 ECHONET Consortium

```
            "items": {
              "oneOf": [
                {
                  "type": "number",
                  "unit": "W",
                  "minimum": -2147483647,
                  "maximum": 2147483645
                },
                {
                  "type": "string",
                  "enum": [
                    "noData"
                  ],
                  "values": [
                    {
                      "value": "noData",
                      "descriptions": {
                        "ja": "未計測",
                        "en": "Not measured"
                      },
                      "edt": "0x7FFFFFFE"
                    }
                  ]
                }
              ]
            }
          }
        }
      }
    },
    "numberOfMeasurementChannelsDuplex": {
      "epc": "0xB8",
      "descriptions": {
        "ja": "計測チャンネル数 (双方向)",
        "en": "Number of measurement channels (duplex)"
      },
      "writable": false,
      "observable": false,
      "schema": {
        "oneOf": [
          {
            "type": "number",
            "minimum": 1,
            "maximum": 252
          },
          {
            "type": "string",
            "enum": [
              "undefined"
            ],
            "values": [
              {
                "value": "undefined",
                "descriptions": {
                  "ja": "不明",
                  "en": "Undefined"
                },
                "edt": "0xFD"
              }
            ]
          }
```


©2018-2022 ECHONET Consortium

```
          ]
        }
      },
      "cumulativeElectricEnergyListDuplex": {
        "epc": "0xBA",
        "epcAtomic": "0xB9",
        "descriptions": {
          "ja": "積算電力量計測値リスト (双方向)",
          "en": "Measured cumulative amount of electric power consumption list (duplex)"
        },
        "writable": false,
        "observable": false,
        "urlParameters": {
          "startChannel": {
            "descriptions": {
              "ja": "取得開始チャンネル",
              "en": "Acquisition start channel"
            },
            "schema": {
              "type": "number",
              "minimum": 1,
              "maximum": 252
            },
            "required": true
          },
          "range": {
            "descriptions": {
              "ja": "取得開始チャンネルからの範囲を指定",
              "en": "Range from the acquisition start channel"
            },
            "schema": {
              "type": "number",
              "minimum": 1,
              "maximum": 30
            },
            "required": true
          }
        },
        "schema": {
          "type": "object",
          "properties": {
            "startChannel": {
              "descriptions": {
                "ja": "取得開始チャンネル",
                "en": "Acquisition start channel"
              },
              "oneOf": [
                {
                  "type": "number",
                  "minimum": 1,
                  "maximum": 252
                },
                {
                  "type": "string",
                  "enum": [
                    "undefined"
                  ],
                  "values": [
                    {
                      "value": "undefined",
                      "descriptions": {
```


©2018-2022 ECHONET Consortium

```
                "ja": "不明",
                "en": "Undefined"
              },
              "edt": "0xFD"
            }
          ]
        }
      ]
    },
    "range": {
      "descriptions": {
        "ja": "取得開始チャンネルからの範囲を指定",
        "en": "Range from the acquisition start channel"
      },
      "oneOf": [
        {
          "type": "number",
          "minimum": 1,
          "maximum": 30
        },
        {
          "type": "string",
          "enum": [
            "undefined"
          ],
          "values": [
            {
              "value": "undefined",
              "descriptions": {
                "ja": "不明",
                "en": "Undefined"
              },
              "edt": "0xFD"
            }
          ]
        }
      ]
    },
    "electricEnergy": {
      "descriptions": {
        "ja": "積算電力量計測値",
        "en": "Measured cumulative amount of electric power consumption"
      },
      "type": "array",
      "maxItems": 30,
      "items": {
        "type": "object",
        "properties": {
          "normalDirectionElectricEnergy": {
            "oneOf": [
              {
                "type": "number",
                "unit": "kWh",
                "minimum": 0,
                "coefficient": [
                  "0xC2"
                ]
              },
              {
                "type": "string",
                "enum": [
```


©2018-2022 ECHONET Consortium

```
                        "noData"
                      ],
                      "values": [
                        {
                          "value": "noData",
                          "descriptions": {
                            "ja": "未計測",
                            "en": "Not measured"
                          },
                          "edt": "0xFFFFFFFE"
                        }
                      ]
                    }
                  ]
                },
                "reverseDirectionElectricEnergy": {
                  "oneOf": [
                    {
                      "type": "number",
                      "unit": "kWh",
                      "minimum": 0,
                      "coefficient": [
                        "0xC2"
                      ]
                    },
                    {
                      "type": "string",
                      "enum": [
                        "noData"
                      ],
                      "values": [
                        {
                          "value": "noData",
                          "descriptions": {
                            "ja": "未計測",
                            "en": "Not measured"
                          },
                          "edt": "0xFFFFFFFE"
                        }
                      ]
                    }
                  ]
                }
              }
            }
          }
        }
      }
    }
  },
  "instantaneousCurrentListDuplex": {
    "epc": "0xBC",
    "epcAtomic": "0xBB",
    "descriptions": {
      "ja": "瞬時電流計測値リスト（双方向）",
      "en": "Measured instantaneous current list (duplex)"
    },
    "writable": false,
    "observable": false,
    "urlParameters": {
      "startChannel": {
        "descriptions": {
```


©2018-2022 ECHONET Consortium

```
            "ja": "取得開始チャンネル",
            "en": "Acquisition start channel"
          },
          "schema": {
            "type": "number",
            "minimum": 1,
            "maximum": 252
          },
          "required": true
        },
        "range": {
          "descriptions": {
            "ja": "取得開始チャンネルからの範囲を指定",
            "en": "Range from the acquisition start channel"
          },
          "schema": {
            "type": "number",
            "minimum": 1,
            "maximum": 60
          },
          "required": true
        }
      },
      "schema": {
        "type": "object",
        "properties": {
          "startChannel": {
            "descriptions": {
              "ja": "取得開始チャンネル",
              "en": "Acquisition start channel"
            },
            "oneOf": [
              {
                "type": "number",
                "minimum": 1,
                "maximum": 252
              },
              {
                "type": "string",
                "enum": [
                  "undefined"
                ],
                "values": [
                  {
                    "value": "undefined",
                    "descriptions": {
                      "ja": "不明",
                      "en": "Undefined"
                    },
                    "edt": "0xFD"
                  }
                ]
              }
            ]
          },
          "range": {
            "descriptions": {
              "ja": "取得開始チャンネルからの範囲を指定",
              "en": "Range from the acquisition start channel"
            },
            "oneOf": [
```


©2018-2022 ECHONET Consortium

```
                {
                  "type": "number",
                  "minimum": 1,
                  "maximum": 60
                },
                {
                  "type": "string",
                  "enum": [
                    "undefined"
                  ],
                  "values": [
                    {
                      "value": "undefined",
                      "descriptions": {
                        "ja": "不明",
                        "en": "Undefined"
                      },
                      "edt": "0xFD"
                    }
                  ]
                }
              ]
            },
            "instantaneousCurrent": {
              "descriptions": {
                "ja": "瞬時電流計測値",
                "en": "Measured instantaneous current"
              },
              "type": "array",
              "maxItems": 60,
              "items": {
                "type": "object",
                "properties": {
                  "rPhase": {
                    "descriptions": {
                      "ja": "R相",
                      "en": "R phase"
                    },
                    "oneOf": [
                      {
                        "type": "number",
                        "unit": "A",
                        "minimum": -3276.7,
                        "maximum": 3276.5,
                        "multipleOf": 0.1
                      },
                      {
                        "type": "string",
                        "enum": [
                          "noData"
                        ],
                        "values": [
                          {
                            "value": "noData",
                            "descriptions": {
                              "ja": "未計測",
                              "en": "Not measured"
                            },
                            "edt": "0x7FFE"
                          }
                        ]
```


©2018-2022 ECHONET Consortium

```
                    }
                  ]
                },
                "tPhase": {
                  "descriptions": {
                    "ja": "T相",
                    "en": "T phase"
                  },
                  "oneOf": [
                    {
                      "type": "number",
                      "unit": "A",
                      "minimum": -3276.7,
                      "maximum": 3276.5,
                      "multipleOf": 0.1
                    },
                    {
                      "type": "string",
                      "enum": [
                        "noData"
                      ],
                      "values": [
                        {
                          "value": "noData",
                          "descriptions": {
                            "ja": "未計測",
                            "en": "Not measured"
                          },
                          "edt": "0x7FFE"
                        }
                      ]
                    }
                  ]
                }
              }
            }
          }
        }
      }
    }
  },
  "instantaneousElectricPowerListDuplex": {
    "epc": "0xBE",
    "epcAtomic": "0xBD",
    "descriptions": {
      "ja": "瞬時電力計測値リスト (双方向)",
      "en": "Measured instantaneous power consumption list (duplex)"
    },
    "writable": false,
    "observable": false,
    "urlParameters": {
      "startChannel": {
        "descriptions": {
          "ja": "取得開始チャンネル",
          "en": "Acquisition start channel"
        },
        "schema": {
          "type": "number",
          "minimum": 1,
          "maximum": 252
        },
        "required": true
```


©2018-2022 ECHONET Consortium

```
          },
          "range": {
            "descriptions": {
              "ja": "取得開始チャンネルからの範囲を指定",
              "en": "Range from the acquisition start channel"
            },
            "schema": {
              "type": "number",
              "minimum": 1,
              "maximum": 60
            },
            "required": true
          }
        },
        "schema": {
          "type": "object",
          "properties": {
            "startChannel": {
              "descriptions": {
                "ja": "取得開始チャンネル",
                "en": "Acquisition start channel"
              },
              "oneOf": [
                {
                  "type": "number",
                  "minimum": 1,
                  "maximum": 252
                },
                {
                  "type": "string",
                  "enum": [
                    "undefined"
                  ],
                  "values": [
                    {
                      "value": "undefined",
                      "descriptions": {
                        "ja": "不明",
                        "en": "Undefined"
                      },
                      "edt": "0xFD"
                    }
                  ]
                }
              ]
            },
            "range": {
              "descriptions": {
                "ja": "取得開始チャンネルからの範囲を指定",
                "en": "Range from the acquisition start channel"
              },
              "oneOf": [
                {
                  "type": "number",
                  "minimum": 1,
                  "maximum": 60
                },
                {
                  "type": "string",
                  "enum": [
                    "undefined"
```


©2018-2022 ECHONET Consortium

```
                ],
                "values": [
                  {
                    "value": "undefined",
                    "descriptions": {
                      "ja": "不明",
                      "en": "Undefined"
                    },
                    "edt": "0xFD"
                  }
                ]
              }
            ]
          },
          "instantaneousElectricPower": {
            "descriptions": {
              "ja": "瞬時電力計測値",
              "en": "Measured instantaneous power consumption"
            },
            "type": "array",
            "maxItems": 60,
            "items": {
              "oneOf": [
                {
                  "type": "number",
                  "unit": "W",
                  "minimum": -2147483647,
                  "maximum": 2147483645
                },
                {
                  "type": "string",
                  "enum": [
                    "noData"
                  ],
                  "values": [
                    {
                      "value": "noData",
                      "descriptions": {
                        "ja": "未計測",
                        "en": "Not measured"
                      },
                      "edt": "0x7FFFFFFE"
                    }
                  ]
                }
              ]
            }
          }
        }
      }
    }
    "normalDirectionCumulativeElectricEnergy": {
      "epc": "0xC0",
      "descriptions": {
        "ja": "積算電力量計測値 (正方向)",
        "en": "Measured cumulative amount of electric energy (normal direction)"
      },
      "writable": false,
      "observable": false,
      "schema": {
        "oneOf": [
```


©2018-2022 ECHONET Consortium

```
            {
              "type": "number",
              "unit": "kWh",
              "minimum": 0,
              "coefficient": [
                "0xC2"
              ]
            },
            {
              "type": "string",
              "enum": [
                "noData"
              ],
              "values": [
                {
                  "value": "noData",
                  "descriptions": {
                    "ja": "未計測",
                    "en": "Not measured"
                  },
                  "edt": "0xFFFFFFFE"
                }
              ]
            }
          ]
        }
      },
      "reverseDirectionCumulativeElectricEnergy": {
        "epc": "0xC1",
        "descriptions": {
          "ja": "積算電力量計測値 (逆方向)",
          "en": "Measured cumulative amount of electric energy (reverse direction)"
        },
        "writable": false,
        "observable": false,
        "schema": {
          "oneOf": [
            {
              "type": "number",
              "unit": "kWh",
              "minimum": 0,
              "coefficient": [
                "0xC2"
              ]
            },
            {
              "type": "string",
              "enum": [
                "noData"
              ],
              "values": [
                {
                  "value": "noData",
                  "descriptions": {
                    "ja": "未計測",
                    "en": "Not measured"
                  },
                  "edt": "0xFFFFFFFE"
                }
              ]
            }
```


©2018-2022 ECHONET Consortium

```
          ]
        }
      },
      "normalDirectionCumulativeElectricEnergyLog": {
        "epc": "0xC3",
        "epcAtomic": "0xC5",
        "descriptions": {
          "ja": "積算電力量計測値履歴 (正方向)",
          "en": "Historical data of measured cumulative amounts of electric energy (normal
direction)"
        },
        "writable": false,
        "observable": false,
        "urlParameters": {
          "day": {
            "descriptions": {
              "ja": "積算履歴収集日",
              "en": "Day for which the historical data of measured cumulative amounts of
electric energy is to be retrieved"
            },
            "schema": {
              "type": "number",
              "minimum": 0,
              "maximum": 99
            },
            "required": false
          }
        },
        "schema": {
          "type": "object",
          "properties": {
            "day": {
              "descriptions": {
                "ja": "積算履歴収集日",
                "en": "Day for which the historical data of measured cumulative amounts of
electric energy is to be retrieved"
              },
              "oneOf": [
                {
                  "type": "number",
                  "minimum": 0,
                  "maximum": 99
                },
                {
                  "type": "string",
                  "enum": [
                    "defaultValue"
                  ],
                  "values": [
                    {
                      "value": "defaultValue",
                      "descriptions": {
                        "ja": "初期値",
                        "en": "Default value"
                      },
                      "edt": "0x00FF"
                    }
                  ]
                }
              ]
            },
```


©2018-2022 ECHONET Consortium

```
            "electricEnergy": {
              "descriptions": {
                "ja": "積算電力量(8桁)の計測結果履歴",
                "en": "The historical data of measured cumulative amounts of electric energy (8
digits)"
              },
              "type": "array",
              "minItems": 48,
              "maxItems": 48,
              "items": {
                "oneOf": [
                  {
                    "type": "number",
                    "unit": "kWh",
                    "minimum": 0,
                    "coefficient": [
                      "0xC2"
                    ]
                  },
                  {
                    "type": "string",
                    "enum": [
                      "noData"
                    ],
                    "values": [
                      {
                        "value": "noData",
                        "descriptions": {
                          "ja": "未計測",
                          "en": "Not measured"
                        },
                        "edt": "0xFFFFFFFE"
                      }
                    ]
                  }
                ]
              }
            }
          }
        },
        "note": {
          "ja": "Queryは履歴収集日 (省略時は0)。電力量はEPC=0xC2の値を乗算済みの値",
          "en": "Query is Day for collection (default value is 0). Electric power is multipled
by EPC=0xC2."
        }
      },
      "reverseDirectionCumulativeElectricEnergyLog": {
        "epc": "0xC4",
        "epcAtomic": "0xC5",
        "descriptions": {
          "ja": "積算電力量計測値履歴 (逆方向)",
          "en": "Historical data of measured cumulative amounts of electric energy (reverse
direction)"
        },
        "writable": false,
        "observable": false,
        "urlParameters": {
          "day": {
            "descriptions": {
              "ja": "積算履歴収集日",
              "en": "Day for which the historical data of measured cumulative amounts of
```


©2018-2022 ECHONET Consortium

```
electric energy is to be retrieved"
          },
          "schema": {
            "type": "number",
            "minimum": 0,
            "maximum": 99
          },
          "required": false
        }
      },
      "schema": {
        "type": "object",
        "properties": {
          "day": {
            "descriptions": {
              "ja": "積算履歴収集日",
              "en": "Day for which the historical data of measured cumulative amounts of
electric energy is to be retrieved"
            },
            "oneOf": [
              {
                "type": "number",
                "minimum": 0,
                "maximum": 99
              },
              {
                "type": "string",
                "enum": [
                  "defaultValue"
                ],
                "values": [
                  {
                    "value": "defaultValue",
                    "descriptions": {
                      "ja": "初期値",
                      "en": "Default value"
                    },
                    "edt": "0x00FF"
                  }
                ]
              }
            ]
          },
          "electricEnergy": {
            "descriptions": {
              "ja": "積算電力量(8桁)の計測結果履歴",
              "en": "The historical data of measured cumulative amounts of electric energy (8
digits)"
            },
            "type": "array",
            "minItems": 48,
            "maxItems": 48,
            "items": {
              "oneOf": [
                {
                  "type": "number",
                  "unit": "kWh",
                  "minimum": 0,
                  "coefficient": [
                    "0xC2"
                  ]
```


©2018-2022 ECHONET Consortium

```
                  },
                  {
                    "type": "string",
                    "enum": [
                      "noData"
                    ],
                    "values": [
                      {
                        "value": "noData",
                        "descriptions": {
                          "ja": "未計測",
                          "en": "Not measured"
                        },
                        "edt": "0xFFFFFFFE"
                      }
                    ]
                  }
                ]
              }
            }
          }
        }
      },
      "note": {
        "ja": "Queryは履歴収集日 (省略時は0)。電力量はEPC=0xC2の値を乗算済みの値",
        "en": "Query is Day for collection (default value is 0). Electric power is multipled
by EPC=0xC2."
      }
    },
    "instantaneousElectricPower": {
      "epc": "0xC6",
      "descriptions": {
        "ja": "瞬時電力計測値",
        "en": "Measured instantaneous amount of electric energy"
      },
      "writable": false,
      "observable": false,
      "schema": {
        "oneOf": [
          {
            "type": "number",
            "unit": "W",
            "minimum": -2147483647,
            "maximum": 2147483645
          },
          {
            "type": "string",
            "enum": [
              "noData"
            ],
            "values": [
              {
                "value": "noData",
                "descriptions": {
                  "ja": "未計測",
                  "en": "Not measured"
                },
                "edt": "0x7FFFFFFE"
              }
            ]
          }
        ]
```


©2018-2022 ECHONET Consortium

```
        }
      },
      "instantaneousCurrent": {
        "epc": "0xC7",
        "descriptions": {
          "ja": "瞬時電流計測値",
          "en": "Measured instantaneous currents"
        },
        "writable": false,
        "observable": false,
        "schema": {
          "type": "object",
          "properties": {
            "rPhase": {
              "descriptions": {
                "ja": "R相",
                "en": "R phase"
              },
              "oneOf": [
                {
                  "type": "number",
                  "unit": "A",
                  "minimum": -3276.7,
                  "maximum": 3276.5,
                  "multipleOf": 0.1
                },
                {
                  "type": "string",
                  "enum": [
                    "noData"
                  ],
                  "values": [
                    {
                      "value": "noData",
                      "descriptions": {
                        "ja": "未計測",
                        "en": "Not measured"
                      },
                      "edt": "0x7FFE"
                    }
                  ]
                }
              ]
            },
            "tPhase": {
              "descriptions": {
                "ja": "T相",
                "en": "T phase"
              },
              "oneOf": [
                {
                  "type": "number",
                  "unit": "A",
                  "minimum": -3276.7,
                  "maximum": 3276.5,
                  "multipleOf": 0.1
                },
                {
                  "type": "string",
                  "enum": [
                    "noData"
```


©2018-2022 ECHONET Consortium

```
                ],
                "values": [
                  {
                    "value": "noData",
                    "descriptions": {
                      "ja": "未計測",
                      "en": "Not measured"
                    },
                    "edt": "0x7FFE"
                  }
                ]
              }
            ]
          }
        }
      }
    },
    "instantaneousVoltage": {
      "epc": "0xC8",
      "descriptions": {
        "ja": "瞬時電圧計測値",
        "en": "Measured instantaneous voltages"
      },
      "writable": false,
      "observable": false,
      "schema": {
        "type": "object",
        "properties": {
          "rS": {
            "descriptions": {
              "ja": "R-S(N)間",
              "en": "Between R and S(N)"
            },
            "type": "number",
            "unit": "V",
            "minimum": 0,
            "maximum": 6553.3,
            "multipleOf": 0.1
          },
          "sT": {
            "descriptions": {
              "ja": "S(N)-T間",
              "en": "Between S(N) and T"
            },
            "type": "number",
            "unit": "V",
            "minimum": 0,
            "maximum": 6553.3,
            "multipleOf": 0.1
          }
        }
      }
    },
    "measurementChannel1": {
      "epc": "0xD0",
      "descriptions": {
        "ja": "計測チャンネル1",
        "en": "Measurement channel 1"
      },
      "writable": false,
      "observable": false,
```


©2018-2022 ECHONET Consortium

```
        "schema": {
          "type": "object",
          "properties": {
            "electricEnergy": {
              "descriptions": {
                "ja": "積算電力量計測値",
                "en": "Measured cumulative amount of electric power consumption"
              },
              "oneOf": [
                {
                  "type": "number",
                  "unit": "kWh",
                  "minimum": 0,
                  "coefficient": [
                    "0xC2"
                  ]
                },
                {
                  "type": "string",
                  "enum": [
                    "noData"
                  ],
                  "values": [
                    {
                      "value": "noData",
                      "descriptions": {
                        "ja": "未計測",
                        "en": "Not measured"
                      },
                      "edt": "0xFFFFFFFE"
                    }
                  ]
                }
              ]
            },
            "currentRphase": {
              "descriptions": {
                "ja": "瞬時電流計測値 (R相)",
                "en": "Measured instantaneous current (R phase)"
              },
              "oneOf": [
                {
                  "type": "number",
                  "unit": "A",
                  "minimum": -3276.7,
                  "maximum": 3276.5,
                  "multipleOf": 0.1
                },
                {
                  "type": "string",
                  "enum": [
                    "noData"
                  ],
                  "values": [
                    {
                      "value": "noData",
                      "descriptions": {
                        "ja": "未計測",
                        "en": "Not measured"
                      },
                      "edt": "0x7FFE"
```


©2018-2022 ECHONET Consortium

```
                    }
                  ]
                }
              ]
            },
            "currentTphase": {
              "descriptions": {
                "ja": "瞬時電流計測値 (T相)",
                "en": "Measured instantaneous current (T phase)"
              },
              "oneOf": [
                {
                  "type": "number",
                  "unit": "A",
                  "minimum": -3276.7,
                  "maximum": 3276.5,
                  "multipleOf": 0.1
                },
                {
                  "type": "string",
                  "enum": [
                    "noData"
                  ],
                  "values": [
                    {
                      "value": "noData",
                      "descriptions": {
                        "ja": "未計測",
                        "en": "Not measured"
                      },
                      "edt": "0x7FFE"
                    }
                  ]
                }
              ]
            }
          }
        }
      },
      "measurementChannel2": {
        "epc": "0xD1",
        "descriptions": {
          "ja": "計測チャンネル2",
          "en": "Measurement channel 2"
        },
        "writable": false,
        "observable": false,
        "schema": {
          "type": "object",
          "properties": {
            "electricEnergy": {
              "descriptions": {
                "ja": "積算電力量計測値",
                "en": "Measured cumulative amount of electric power consumption"
              },
              "oneOf": [
                {
                  "type": "number",
                  "unit": "kWh",
                  "minimum": 0,
                  "coefficient": [
```


©2018-2022 ECHONET Consortium

```
                "0xC2"
              ]
            },
            {
              "type": "string",
              "enum": [
                "noData"
              ],
              "values": [
                {
                  "value": "noData",
                  "descriptions": {
                    "ja": "未計測",
                    "en": "Not measured"
                  },
                  "edt": "0xFFFFFFFE"
                }
              ]
            }
          ]
        },
        "currentRphase": {
          "descriptions": {
            "ja": "瞬時電流計測値 (R相)",
            "en": "Measured instantaneous current (R phase)"
          },
          "oneOf": [
            {
              "type": "number",
              "unit": "A",
              "minimum": -3276.7,
              "maximum": 3276.5,
              "multipleOf": 0.1
            },
            {
              "type": "string",
              "enum": [
                "noData"
              ],
              "values": [
                {
                  "value": "noData",
                  "descriptions": {
                    "ja": "未計測",
                    "en": "Not measured"
                  },
                  "edt": "0x7FFE"
                }
              ]
            }
          ]
        },
        "currentTphase": {
          "descriptions": {
            "ja": "瞬時電流計測値 (T相)",
            "en": "Measured instantaneous current (T phase)"
          },
          "oneOf": [
            {
              "type": "number",
              "unit": "A",
```


©2018-2022 ECHONET Consortium

```
                "minimum": -3276.7,
                "maximum": 3276.5,
                "multipleOf": 0.1
              },
              {
                "type": "string",
                "enum": [
                  "noData"
                ],
                "values": [
                  {
                    "value": "noData",
                    "descriptions": {
                      "ja": "未計測",
                      "en": "Not measured"
                    },
                    "edt": "0x7FFE"
                  }
                ]
              }
            ]
          }
        }
      }
    }
  },
  "measurementChannel3": {
    "epc": "0xD2",
    "descriptions": {
      "ja": "計測チャンネル3",
      "en": "Measurement channel 3"
    },
    "writable": false,
    "observable": false,
    "schema": {
      "type": "object",
      "properties": {
        "electricEnergy": {
          "descriptions": {
            "ja": "積算電力量計測値",
            "en": "Measured cumulative amount of electric power consumption"
          },
          "oneOf": [
            {
              "type": "number",
              "unit": "kWh",
              "minimum": 0,
              "coefficient": [
                "0xC2"
              ]
            },
            {
              "type": "string",
              "enum": [
                "noData"
              ],
              "values": [
                {
                  "value": "noData",
                  "descriptions": {
                    "ja": "未計測",
                    "en": "Not measured"
```


©2018-2022 ECHONET Consortium

```
                    },
                    "edt": "0xFFFFFFFE"
                  }
                ]
              }
            ]
          },
          "currentRphase": {
            "descriptions": {
              "ja": "瞬時電流計測値 (R相)",
              "en": "Measured instantaneous current (R phase)"
            },
            "oneOf": [
              {
                "type": "number",
                "unit": "A",
                "minimum": -3276.7,
                "maximum": 3276.5,
                "multipleOf": 0.1
              },
              {
                "type": "string",
                "enum": [
                  "noData"
                ],
                "values": [
                  {
                    "value": "noData",
                    "descriptions": {
                      "ja": "未計測",
                      "en": "Not measured"
                    },
                    "edt": "0x7FFE"
                  }
                ]
              }
            ]
          },
          "currentTphase": {
            "descriptions": {
              "ja": "瞬時電流計測値 (T相)",
              "en": "Measured instantaneous current (T phase)"
            },
            "oneOf": [
              {
                "type": "number",
                "unit": "A",
                "minimum": -3276.7,
                "maximum": 3276.5,
                "multipleOf": 0.1
              },
              {
                "type": "string",
                "enum": [
                  "noData"
                ],
                "values": [
                  {
                    "value": "noData",
                    "descriptions": {
                      "ja": "未計測",
```


©2018-2022 ECHONET Consortium

```
                        "en": "Not measured"
                      },
                      "edt": "0x7FFE"
                    }
                  ]
                }
              ]
            }
          }
        }
      }
      "measurementChannel4": {
        "epc": "0xD3",
        "descriptions": {
          "ja": "計測チャンネル4",
          "en": "Measurement channel 4"
        },
        "writable": false,
        "observable": false,
        "schema": {
          "type": "object",
          "properties": {
            "electricEnergy": {
              "descriptions": {
                "ja": "積算電力量計測値",
                "en": "Measured cumulative amount of electric power consumption"
              },
              "oneOf": [
                {
                  "type": "number",
                  "unit": "kWh",
                  "minimum": 0,
                  "coefficient": [
                    "0xC2"
                  ]
                },
                {
                  "type": "string",
                  "enum": [
                    "noData"
                  ],
                  "values": [
                    {
                      "value": "noData",
                      "descriptions": {
                        "ja": "未計測",
                        "en": "Not measured"
                      },
                      "edt": "0xFFFFFFFE"
                    }
                  ]
                }
              ]
            },
            "currentRphase": {
              "descriptions": {
                "ja": "瞬時電流計測値 (R相)",
                "en": "Measured instantaneous current (R phase)"
              },
              "oneOf": [
                {
```


©2018-2022 ECHONET Consortium

```
                "type": "number",
                "unit": "A",
                "minimum": -3276.7,
                "maximum": 3276.5,
                "multipleOf": 0.1
              },
              {
                "type": "string",
                "enum": [
                  "noData"
                ],
                "values": [
                  {
                    "value": "noData",
                    "descriptions": {
                      "ja": "未計測",
                      "en": "Not measured"
                    },
                    "edt": "0x7FFE"
                  }
                ]
              }
            ]
          },
          "currentTphase": {
            "descriptions": {
              "ja": "瞬時電流計測値 (T相)",
              "en": "Measured instantaneous current (T phase)"
            },
            "oneOf": [
              {
                "type": "number",
                "unit": "A",
                "minimum": -3276.7,
                "maximum": 3276.5,
                "multipleOf": 0.1
              },
              {
                "type": "string",
                "enum": [
                  "noData"
                ],
                "values": [
                  {
                    "value": "noData",
                    "descriptions": {
                      "ja": "未計測",
                      "en": "Not measured"
                    },
                    "edt": "0x7FFE"
                  }
                ]
              }
            ]
          }
        }
      }
    }
    "measurementChannel5": {
      "epc": "0xD4",
      "descriptions": {
```


©2018-2022 ECHONET Consortium

```
            "ja": "計測チャンネル5",
            "en": "Measurement channel 5"
          },
          "writable": false,
          "observable": false,
          "schema": {
            "type": "object",
            "properties": {
              "electricEnergy": {
                "descriptions": {
                  "ja": "積算電力量計測値",
                  "en": "Measured cumulative amount of electric power consumption"
                },
                "oneOf": [
                  {
                    "type": "number",
                    "unit": "kWh",
                    "minimum": 0,
                    "coefficient": [
                      "0xC2"
                    ]
                  },
                  {
                    "type": "string",
                    "enum": [
                      "noData"
                    ],
                    "values": [
                      {
                        "value": "noData",
                        "descriptions": {
                          "ja": "未計測",
                          "en": "Not measured"
                        },
                        "edt": "0xFFFFFFFE"
                      }
                    ]
                  }
                ]
              },
              "currentRphase": {
                "descriptions": {
                  "ja": "瞬時電流計測値 (R相)",
                  "en": "Measured instantaneous current (R phase)"
                },
                "oneOf": [
                  {
                    "type": "number",
                    "unit": "A",
                    "minimum": -3276.7,
                    "maximum": 3276.5,
                    "multipleOf": 0.1
                  },
                  {
                    "type": "string",
                    "enum": [
                      "noData"
                    ],
                    "values": [
                      {
                        "value": "noData",
```


©2018-2022 ECHONET Consortium

```
                    "descriptions": {
                      "ja": "未計測",
                      "en": "Not measured"
                    },
                    "edt": "0x7FFE"
                  }
                ]
              }
            ]
          },
          "currentTphase": {
            "descriptions": {
              "ja": "瞬時電流計測値 (T相)",
              "en": "Measured instantaneous current (T phase)"
            },
            "oneOf": [
              {
                "type": "number",
                "unit": "A",
                "minimum": -3276.7,
                "maximum": 3276.5,
                "multipleOf": 0.1
              },
              {
                "type": "string",
                "enum": [
                  "noData"
                ],
                "values": [
                  {
                    "value": "noData",
                    "descriptions": {
                      "ja": "未計測",
                      "en": "Not measured"
                    },
                    "edt": "0x7FFE"
                  }
                ]
              }
            ]
          }
        }
      }
    },
    "measurementChannel6": {
      "epc": "0xD5",
      "descriptions": {
        "ja": "計測チャンネル6",
        "en": "Measurement channel 6"
      },
      "writable": false,
      "observable": false,
      "schema": {
        "type": "object",
        "properties": {
          "electricEnergy": {
            "descriptions": {
              "ja": "積算電力量計測値",
              "en": "Measured cumulative amount of electric power consumption"
            },
            "oneOf": [
```


©2018-2022 ECHONET Consortium

```
                {
                  "type": "number",
                  "unit": "kWh",
                  "minimum": 0,
                  "coefficient": [
                    "0xC2"
                  ]
                },
                {
                  "type": "string",
                  "enum": [
                    "noData"
                  ],
                  "values": [
                    {
                      "value": "noData",
                      "descriptions": {
                        "ja": "未計測",
                        "en": "Not measured"
                      },
                      "edt": "0xFFFFFFFE"
                    }
                  ]
                }
              ]
            },
            "currentRphase": {
              "descriptions": {
                "ja": "瞬時電流計測値 (R相)",
                "en": "Measured instantaneous current (R phase)"
              },
              "oneOf": [
                {
                  "type": "number",
                  "unit": "A",
                  "minimum": -3276.7,
                  "maximum": 3276.5,
                  "multipleOf": 0.1
                },
                {
                  "type": "string",
                  "enum": [
                    "noData"
                  ],
                  "values": [
                    {
                      "value": "noData",
                      "descriptions": {
                        "ja": "未計測",
                        "en": "Not measured"
                      },
                      "edt": "0x7FFE"
                    }
                  ]
                }
              ]
            },
            "currentTphase": {
              "descriptions": {
                "ja": "瞬時電流計測値 (T相)",
                "en": "Measured instantaneous current (T phase)"
```


©2018-2022 ECHONET Consortium

```
            },
            "oneOf": [
              {
                "type": "number",
                "unit": "A",
                "minimum": -3276.7,
                "maximum": 3276.5,
                "multipleOf": 0.1
              },
              {
                "type": "string",
                "enum": [
                  "noData"
                ],
                "values": [
                  {
                    "value": "noData",
                    "descriptions": {
                      "ja": "未計測",
                      "en": "Not measured"
                    },
                    "edt": "0x7FFE"
                  }
                ]
              }
            ]
          }
        }
      }
    },
    "measurementChannel7": {
      "epc": "0xD6",
      "descriptions": {
        "ja": "計測チャンネル7",
        "en": "Measurement channel 7"
      },
      "writable": false,
      "observable": false,
      "schema": {
        "type": "object",
        "properties": {
          "electricEnergy": {
            "descriptions": {
              "ja": "積算電力量計測値",
              "en": "Measured cumulative amount of electric power consumption"
            },
            "oneOf": [
              {
                "type": "number",
                "unit": "kWh",
                "minimum": 0,
                "coefficient": [
                  "0xC2"
                ]
              },
              {
                "type": "string",
                "enum": [
                  "noData"
                ],
                "values": [
```


©2018-2022 ECHONET Consortium

```
                {
                  "value": "noData",
                  "descriptions": {
                    "ja": "未計測",
                    "en": "Not measured"
                  },
                  "edt": "0xFFFFFFFE"
                }
              ]
            }
          ]
        },
        "currentRphase": {
          "descriptions": {
            "ja": "瞬時電流計測値 (R相)",
            "en": "Measured instantaneous current (R phase)"
          },
          "oneOf": [
            {
              "type": "number",
              "unit": "A",
              "minimum": -3276.7,
              "maximum": 3276.5,
              "multipleOf": 0.1
            },
            {
              "type": "string",
              "enum": [
                "noData"
              ],
              "values": [
                {
                  "value": "noData",
                  "descriptions": {
                    "ja": "未計測",
                    "en": "Not measured"
                  },
                  "edt": "0x7FFE"
                }
              ]
            }
          ]
        },
        "currentTphase": {
          "descriptions": {
            "ja": "瞬時電流計測値 (T相)",
            "en": "Measured instantaneous current (T phase)"
          },
          "oneOf": [
            {
              "type": "number",
              "unit": "A",
              "minimum": -3276.7,
              "maximum": 3276.5,
              "multipleOf": 0.1
            },
            {
              "type": "string",
              "enum": [
                "noData"
              ],
```


©2018-2022 ECHONET Consortium

```
                "values": [
                  {
                    "value": "noData",
                    "descriptions": {
                      "ja": "未計測",
                      "en": "Not measured"
                    },
                    "edt": "0x7FFE"
                  }
                ]
              }
            ]
          }
        }
      }
    },
    "measurementChannel8": {
      "epc": "0xD7",
      "descriptions": {
        "ja": "計測チャンネル8",
        "en": "Measurement channel 8"
      },
      "writable": false,
      "observable": false,
      "schema": {
        "type": "object",
        "properties": {
          "electricEnergy": {
            "descriptions": {
              "ja": "積算電力量計測値",
              "en": "Measured cumulative amount of electric power consumption"
            },
            "oneOf": [
              {
                "type": "number",
                "unit": "kWh",
                "minimum": 0,
                "coefficient": [
                  "0xC2"
                ]
              },
              {
                "type": "string",
                "enum": [
                  "noData"
                ],
                "values": [
                  {
                    "value": "noData",
                    "descriptions": {
                      "ja": "未計測",
                      "en": "Not measured"
                    },
                    "edt": "0xFFFFFFFE"
                  }
                ]
              }
            ]
          },
          "currentRphase": {
            "descriptions": {
```


©2018-2022 ECHONET Consortium

```
                "ja": "瞬時電流計測値 (R相)",
                "en": "Measured instantaneous current (R phase)"
              },
              "oneOf": [
                {
                  "type": "number",
                  "unit": "A",
                  "minimum": -3276.7,
                  "maximum": 3276.5,
                  "multipleOf": 0.1
                },
                {
                  "type": "string",
                  "enum": [
                    "noData"
                  ],
                  "values": [
                    {
                      "value": "noData",
                      "descriptions": {
                        "ja": "未計測",
                        "en": "Not measured"
                      },
                      "edt": "0x7FFE"
                    }
                  ]
                }
              ]
            },
            "currentTphase": {
              "descriptions": {
                "ja": "瞬時電流計測値 (T相)",
                "en": "Measured instantaneous current (T phase)"
              },
              "oneOf": [
                {
                  "type": "number",
                  "unit": "A",
                  "minimum": -3276.7,
                  "maximum": 3276.5,
                  "multipleOf": 0.1
                },
                {
                  "type": "string",
                  "enum": [
                    "noData"
                  ],
                  "values": [
                    {
                      "value": "noData",
                      "descriptions": {
                        "ja": "未計測",
                        "en": "Not measured"
                      },
                      "edt": "0x7FFE"
                    }
                  ]
                }
              ]
            }
          }
```


©2018-2022 ECHONET Consortium

```
        }
      },
      "measurementChannel9": {
        "epc": "0xD8",
        "descriptions": {
          "ja": "計測チャンネル9",
          "en": "Measurement channel 9"
        },
        "writable": false,
        "observable": false,
        "schema": {
          "type": "object",
          "properties": {
            "electricEnergy": {
              "descriptions": {
                "ja": "積算電力量計測値",
                "en": "Measured cumulative amount of electric power consumption"
              },
              "oneOf": [
                {
                  "type": "number",
                  "unit": "kWh",
                  "minimum": 0,
                  "coefficient": [
                    "0xC2"
                  ]
                },
                {
                  "type": "string",
                  "enum": [
                    "noData"
                  ],
                  "values": [
                    {
                      "value": "noData",
                      "descriptions": {
                        "ja": "未計測",
                        "en": "Not measured"
                      },
                      "edt": "0xFFFFFFFE"
                    }
                  ]
                }
              ]
            },
            "currentRphase": {
              "descriptions": {
                "ja": "瞬時電流計測値 (R相)",
                "en": "Measured instantaneous current (R phase)"
              },
              "oneOf": [
                {
                  "type": "number",
                  "unit": "A",
                  "minimum": -3276.7,
                  "maximum": 3276.5,
                  "multipleOf": 0.1
                },
                {
                  "type": "string",
                  "enum": [
```


©2018-2022 ECHONET Consortium

```
                "noData"
              ],
              "values": [
                {
                  "value": "noData",
                  "descriptions": {
                    "ja": "未計測",
                    "en": "Not measured"
                  },
                  "edt": "0x7FFE"
                }
              ]
            }
          ]
        },
        "currentTphase": {
          "descriptions": {
            "ja": "瞬時電流計測値 (T相)",
            "en": "Measured instantaneous current (T phase)"
          },
          "oneOf": [
            {
              "type": "number",
              "unit": "A",
              "minimum": -3276.7,
              "maximum": 3276.5,
              "multipleOf": 0.1
            },
            {
              "type": "string",
              "enum": [
                "noData"
              ],
              "values": [
                {
                  "value": "noData",
                  "descriptions": {
                    "ja": "未計測",
                    "en": "Not measured"
                  },
                  "edt": "0x7FFE"
                }
              ]
            }
          ]
        }
      }
    }
  },
  "measurementChannel10": {
    "epc": "0xD9",
    "descriptions": {
      "ja": "計測チャンネル10",
      "en": "Measurement channel 10"
    },
    "writable": false,
    "observable": false,
    "schema": {
      "type": "object",
      "properties": {
        "electricEnergy": {
```


©2018-2022 ECHONET Consortium

```
            "descriptions": {
              "ja": "積算電力量計測値",
              "en": "Measured cumulative amount of electric power consumption"
            },
            "oneOf": [
              {
                "type": "number",
                "unit": "kWh",
                "minimum": 0,
                "coefficient": [
                  "0xC2"
                ]
              },
              {
                "type": "string",
                "enum": [
                  "noData"
                ],
                "values": [
                  {
                    "value": "noData",
                    "descriptions": {
                      "ja": "未計測",
                      "en": "Not measured"
                    },
                    "edt": "0xFFFFFFFE"
                  }
                ]
              }
            ]
          },
          "currentRphase": {
            "descriptions": {
              "ja": "瞬時電流計測値 (R相)",
              "en": "Measured instantaneous current (R phase)"
            },
            "oneOf": [
              {
                "type": "number",
                "unit": "A",
                "minimum": -3276.7,
                "maximum": 3276.5,
                "multipleOf": 0.1
              },
              {
                "type": "string",
                "enum": [
                  "noData"
                ],
                "values": [
                  {
                    "value": "noData",
                    "descriptions": {
                      "ja": "未計測",
                      "en": "Not measured"
                    },
                    "edt": "0x7FFE"
                  }
                ]
              }
            ]
```


©2018-2022 ECHONET Consortium

```
            },
            "currentTphase": {
              "descriptions": {
                "ja": "瞬時電流計測値 (T相)",
                "en": "Measured instantaneous current (T phase)"
              },
              "oneOf": [
                {
                  "type": "number",
                  "unit": "A",
                  "minimum": -3276.7,
                  "maximum": 3276.5,
                  "multipleOf": 0.1
                },
                {
                  "type": "string",
                  "enum": [
                    "noData"
                  ],
                  "values": [
                    {
                      "value": "noData",
                      "descriptions": {
                        "ja": "未計測",
                        "en": "Not measured"
                      },
                      "edt": "0x7FFE"
                    }
                  ]
                }
              ]
            }
          }
        }
      },
      "measurementChannel11": {
        "epc": "0xDA",
        "descriptions": {
          "ja": "計測チャンネル11",
          "en": "Measurement channel 11"
        },
        "writable": false,
        "observable": false,
        "schema": {
          "type": "object",
          "properties": {
            "electricEnergy": {
              "descriptions": {
                "ja": "積算電力量計測値",
                "en": "Measured cumulative amount of electric power consumption"
              },
              "oneOf": [
                {
                  "type": "number",
                  "unit": "kWh",
                  "minimum": 0,
                  "coefficient": [
                    "0xC2"
                  ]
                },
                {
```


©2018-2022 ECHONET Consortium

```
                "type": "string",
                "enum": [
                  "noData"
                ],
                "values": [
                  {
                    "value": "noData",
                    "descriptions": {
                      "ja": "未計測",
                      "en": "Not measured"
                    },
                    "edt": "0xFFFFFFFE"
                  }
                ]
              }
            ]
          },
          "currentRphase": {
            "descriptions": {
              "ja": "瞬時電流計測値 (R相)",
              "en": "Measured instantaneous current (R phase)"
            },
            "oneOf": [
              {
                "type": "number",
                "unit": "A",
                "minimum": -3276.7,
                "maximum": 3276.5,
                "multipleOf": 0.1
              },
              {
                "type": "string",
                "enum": [
                  "noData"
                ],
                "values": [
                  {
                    "value": "noData",
                    "descriptions": {
                      "ja": "未計測",
                      "en": "Not measured"
                    },
                    "edt": "0x7FFE"
                  }
                ]
              }
            ]
          },
          "currentTphase": {
            "descriptions": {
              "ja": "瞬時電流計測値 (T相)",
              "en": "Measured instantaneous current (T phase)"
            },
            "oneOf": [
              {
                "type": "number",
                "unit": "A",
                "minimum": -3276.7,
                "maximum": 3276.5,
                "multipleOf": 0.1
              },
```


©2018-2022 ECHONET Consortium

```
                {
                  "type": "string",
                  "enum": [
                    "noData"
                  ],
                  "values": [
                    {
                      "value": "noData",
                      "descriptions": {
                        "ja": "未計測",
                        "en": "Not measured"
                      },
                      "edt": "0x7FFE"
                    }
                  ]
                }
              ]
            }
          }
        }
      },
      "measurementChannel12": {
        "epc": "0xDB",
        "descriptions": {
          "ja": "計測チャンネル12",
          "en": "Measurement channel 12"
        },
        "writable": false,
        "observable": false,
        "schema": {
          "type": "object",
          "properties": {
            "electricEnergy": {
              "descriptions": {
                "ja": "積算電力量計測値",
                "en": "Measured cumulative amount of electric power consumption"
              },
              "oneOf": [
                {
                  "type": "number",
                  "unit": "kWh",
                  "minimum": 0,
                  "coefficient": [
                    "0xC2"
                  ]
                },
                {
                  "type": "string",
                  "enum": [
                    "noData"
                  ],
                  "values": [
                    {
                      "value": "noData",
                      "descriptions": {
                        "ja": "未計測",
                        "en": "Not measured"
                      },
                      "edt": "0xFFFFFFFE"
                    }
                  ]
```


©2018-2022 ECHONET Consortium

```
                }
              ]
            },
            "currentRphase": {
              "descriptions": {
                "ja": "瞬時電流計測値 (R相)",
                "en": "Measured instantaneous current (R phase)"
              },
              "oneOf": [
                {
                  "type": "number",
                  "unit": "A",
                  "minimum": -3276.7,
                  "maximum": 3276.5,
                  "multipleOf": 0.1
                },
                {
                  "type": "string",
                  "enum": [
                    "noData"
                  ],
                  "values": [
                    {
                      "value": "noData",
                      "descriptions": {
                        "ja": "未計測",
                        "en": "Not measured"
                      },
                      "edt": "0x7FFE"
                    }
                  ]
                }
              ]
            },
            "currentTphase": {
              "descriptions": {
                "ja": "瞬時電流計測値 (T相)",
                "en": "Measured instantaneous current (T phase)"
              },
              "oneOf": [
                {
                  "type": "number",
                  "unit": "A",
                  "minimum": -3276.7,
                  "maximum": 3276.5,
                  "multipleOf": 0.1
                },
                {
                  "type": "string",
                  "enum": [
                    "noData"
                  ],
                  "values": [
                    {
                      "value": "noData",
                      "descriptions": {
                        "ja": "未計測",
                        "en": "Not measured"
                      },
                      "edt": "0x7FFE"
                    }
```


©2018-2022 ECHONET Consortium

```
                ]
              }
            ]
          }
        }
      }
    }
  },
  "measurementChannel13": {
    "epc": "0xDC",
    "descriptions": {
      "ja": "計測チャンネル13",
      "en": "Measurement channel 13"
    },
    "writable": false,
    "observable": false,
    "schema": {
      "type": "object",
      "properties": {
        "electricEnergy": {
          "descriptions": {
            "ja": "積算電力量計測値",
            "en": "Measured cumulative amount of electric power consumption"
          },
          "oneOf": [
            {
              "type": "number",
              "unit": "kWh",
              "minimum": 0,
              "coefficient": [
                "0xC2"
              ]
            },
            {
              "type": "string",
              "enum": [
                "noData"
              ],
              "values": [
                {
                  "value": "noData",
                  "descriptions": {
                    "ja": "未計測",
                    "en": "Not measured"
                  },
                  "edt": "0xFFFFFFFE"
                }
              ]
            }
          ]
        },
        "currentRphase": {
          "descriptions": {
            "ja": "瞬時電流計測値 (R相)",
            "en": "Measured instantaneous current (R phase)"
          },
          "oneOf": [
            {
              "type": "number",
              "unit": "A",
              "minimum": -3276.7,
              "maximum": 3276.5,
```


©2018-2022 ECHONET Consortium

```
                "multipleOf": 0.1
              },
              {
                "type": "string",
                "enum": [
                  "noData"
                ],
                "values": [
                  {
                    "value": "noData",
                    "descriptions": {
                      "ja": "未計測",
                      "en": "Not measured"
                    },
                    "edt": "0x7FFE"
                  }
                ]
              }
            ]
          },
          "currentTphase": {
            "descriptions": {
              "ja": "瞬時電流計測値 (T相)",
              "en": "Measured instantaneous current (T phase)"
            },
            "oneOf": [
              {
                "type": "number",
                "unit": "A",
                "minimum": -3276.7,
                "maximum": 3276.5,
                "multipleOf": 0.1
              },
              {
                "type": "string",
                "enum": [
                  "noData"
                ],
                "values": [
                  {
                    "value": "noData",
                    "descriptions": {
                      "ja": "未計測",
                      "en": "Not measured"
                    },
                    "edt": "0x7FFE"
                  }
                ]
              }
            ]
          }
        }
      }
    }
    "measurementChannel14": {
      "epc": "0xDD",
      "descriptions": {
        "ja": "計測チャンネル14",
        "en": "Measurement channel 14"
      },
      "writable": false,
```


©2018-2022 ECHONET Consortium

```
        "observable": false,
        "schema": {
          "type": "object",
          "properties": {
            "electricEnergy": {
              "descriptions": {
                "ja": "積算電力量計測値",
                "en": "Measured cumulative amount of electric power consumption"
              },
              "oneOf": [
                {
                  "type": "number",
                  "unit": "kWh",
                  "minimum": 0,
                  "coefficient": [
                    "0xC2"
                  ]
                },
                {
                  "type": "string",
                  "enum": [
                    "noData"
                  ],
                  "values": [
                    {
                      "value": "noData",
                      "descriptions": {
                        "ja": "未計測",
                        "en": "Not measured"
                      },
                      "edt": "0xFFFFFFFE"
                    }
                  ]
                }
              ]
            },
            "currentRphase": {
              "descriptions": {
                "ja": "瞬時電流計測値 (R相)",
                "en": "Measured instantaneous current (R phase)"
              },
              "oneOf": [
                {
                  "type": "number",
                  "unit": "A",
                  "minimum": -3276.7,
                  "maximum": 3276.5,
                  "multipleOf": 0.1
                },
                {
                  "type": "string",
                  "enum": [
                    "noData"
                  ],
                  "values": [
                    {
                      "value": "noData",
                      "descriptions": {
                        "ja": "未計測",
                        "en": "Not measured"
                      },
```


©2018-2022 ECHONET Consortium

```
                    "edt": "0x7FFE"
                  }
                ]
              }
            ]
          },
          "currentTphase": {
            "descriptions": {
              "ja": "瞬時電流計測値 (T相)",
              "en": "Measured instantaneous current (T phase)"
            },
            "oneOf": [
              {
                "type": "number",
                "unit": "A",
                "minimum": -3276.7,
                "maximum": 3276.5,
                "multipleOf": 0.1
              },
              {
                "type": "string",
                "enum": [
                  "noData"
                ],
                "values": [
                  {
                    "value": "noData",
                    "descriptions": {
                      "ja": "未計測",
                      "en": "Not measured"
                    },
                    "edt": "0x7FFE"
                  }
                ]
              }
            ]
          }
        }
      }
    },
    "measurementChannel15": {
      "epc": "0xDE",
      "descriptions": {
        "ja": "計測チャンネル15",
        "en": "Measurement channel 15"
      },
      "writable": false,
      "observable": false,
      "schema": {
        "type": "object",
        "properties": {
          "electricEnergy": {
            "descriptions": {
              "ja": "積算電力量計測値",
              "en": "Measured cumulative amount of electric power consumption"
            },
            "oneOf": [
              {
                "type": "number",
                "unit": "kWh",
                "minimum": 0,
```


©2018-2022 ECHONET Consortium

```
                "coefficient": [
                  "0xC2"
                ]
              },
              {
                "type": "string",
                "enum": [
                  "noData"
                ],
                "values": [
                  {
                    "value": "noData",
                    "descriptions": {
                      "ja": "未計測",
                      "en": "Not measured"
                    },
                    "edt": "0xFFFFFFFE"
                  }
                ]
              }
            ]
          },
          "currentRphase": {
            "descriptions": {
              "ja": "瞬時電流計測値 (R相)",
              "en": "Measured instantaneous current (R phase)"
            },
            "oneOf": [
              {
                "type": "number",
                "unit": "A",
                "minimum": -3276.7,
                "maximum": 3276.5,
                "multipleOf": 0.1
              },
              {
                "type": "string",
                "enum": [
                  "noData"
                ],
                "values": [
                  {
                    "value": "noData",
                    "descriptions": {
                      "ja": "未計測",
                      "en": "Not measured"
                    },
                    "edt": "0x7FFE"
                  }
                ]
              }
            ]
          },
          "currentTphase": {
            "descriptions": {
              "ja": "瞬時電流計測値 (T相)",
              "en": "Measured instantaneous current (T phase)"
            },
            "oneOf": [
              {
                "type": "number",
```


©2018-2022 ECHONET Consortium

```
                "unit": "A",
                "minimum": -3276.7,
                "maximum": 3276.5,
                "multipleOf": 0.1
              },
              {
                "type": "string",
                "enum": [
                  "noData"
                ],
                "values": [
                  {
                    "value": "noData",
                    "descriptions": {
                      "ja": "未計測",
                      "en": "Not measured"
                    },
                    "edt": "0x7FFE"
                  }
                ]
              }
            ]
          }
        }
      }
    }
  },
  "measurementChannel16": {
    "epc": "0xDF",
    "descriptions": {
      "ja": "計測チャンネル16",
      "en": "Measurement channel 16"
    },
    "writable": false,
    "observable": false,
    "schema": {
      "type": "object",
      "properties": {
        "electricEnergy": {
          "descriptions": {
            "ja": "積算電力量計測値",
            "en": "Measured cumulative amount of electric power consumption"
          },
          "oneOf": [
            {
              "type": "number",
              "unit": "kWh",
              "minimum": 0,
              "coefficient": [
                "0xC2"
              ]
            },
            {
              "type": "string",
              "enum": [
                "noData"
              ],
              "values": [
                {
                  "value": "noData",
                  "descriptions": {
                    "ja": "未計測",
```


©2018-2022 ECHONET Consortium

```
                    "en": "Not measured"
                  },
                  "edt": "0xFFFFFFFE"
                }
              ]
            }
          ]
        },
        "currentRphase": {
          "descriptions": {
            "ja": "瞬時電流計測値 (R相)",
            "en": "Measured instantaneous current (R phase)"
          },
          "oneOf": [
            {
              "type": "number",
              "unit": "A",
              "minimum": -3276.7,
              "maximum": 3276.5,
              "multipleOf": 0.1
            },
            {
              "type": "string",
              "enum": [
                "noData"
              ],
              "values": [
                {
                  "value": "noData",
                  "descriptions": {
                    "ja": "未計測",
                    "en": "Not measured"
                  },
                  "edt": "0x7FFE"
                }
              ]
            }
          ]
        },
        "currentTphase": {
          "descriptions": {
            "ja": "瞬時電流計測値 (T相)",
            "en": "Measured instantaneous current (T phase)"
          },
          "oneOf": [
            {
              "type": "number",
              "unit": "A",
              "minimum": -3276.7,
              "maximum": 3276.5,
              "multipleOf": 0.1
            },
            {
              "type": "string",
              "enum": [
                "noData"
              ],
              "values": [
                {
                  "value": "noData",
                  "descriptions": {
```


©2018-2022 ECHONET Consortium

```
                        "ja": "未計測",
                        "en": "Not measured"
                      },
                      "edt": "0x7FFE"
                    }
                  ]
                }
              ]
            }
          }
        }
      },
      "measurementChannel17": {
        "epc": "0xE0",
        "descriptions": {
          "ja": "計測チャンネル17",
          "en": "Measurement channel 17"
        },
        "writable": false,
        "observable": false,
        "schema": {
          "type": "object",
          "properties": {
            "electricEnergy": {
              "descriptions": {
                "ja": "積算電力量計測値",
                "en": "Measured cumulative amount of electric power consumption"
              },
              "oneOf": [
                {
                  "type": "number",
                  "unit": "kWh",
                  "minimum": 0,
                  "coefficient": [
                    "0xC2"
                  ]
                },
                {
                  "type": "string",
                  "enum": [
                    "noData"
                  ],
                  "values": [
                    {
                      "value": "noData",
                      "descriptions": {
                        "ja": "未計測",
                        "en": "Not measured"
                      },
                      "edt": "0xFFFFFFFE"
                    }
                  ]
                }
              ]
            },
            "currentRphase": {
              "descriptions": {
                "ja": "瞬時電流計測値 (R相)",
                "en": "Measured instantaneous current (R phase)"
              },
              "oneOf": [
```


©2018-2022 ECHONET Consortium

```
                {
                  "type": "number",
                  "unit": "A",
                  "minimum": -3276.7,
                  "maximum": 3276.5,
                  "multipleOf": 0.1
                },
                {
                  "type": "string",
                  "enum": [
                    "noData"
                  ],
                  "values": [
                    {
                      "value": "noData",
                      "descriptions": {
                        "ja": "未計測",
                        "en": "Not measured"
                      },
                      "edt": "0x7FFE"
                    }
                  ]
                }
              ]
            },
            "currentTphase": {
              "descriptions": {
                "ja": "瞬時電流計測値 (T相)",
                "en": "Measured instantaneous current (T phase)"
              },
              "oneOf": [
                {
                  "type": "number",
                  "unit": "A",
                  "minimum": -3276.7,
                  "maximum": 3276.5,
                  "multipleOf": 0.1
                },
                {
                  "type": "string",
                  "enum": [
                    "noData"
                  ],
                  "values": [
                    {
                      "value": "noData",
                      "descriptions": {
                        "ja": "未計測",
                        "en": "Not measured"
                      },
                      "edt": "0x7FFE"
                    }
                  ]
                }
              ]
            }
          }
        }
      }
    },
    "measurementChannel18": {
      "epc": "0xE1",
```


©2018-2022 ECHONET Consortium

```
        "descriptions": {
          "ja": "計測チャンネル18",
          "en": "Measurement channel 18"
        },
        "writable": false,
        "observable": false,
        "schema": {
          "type": "object",
          "properties": {
            "electricEnergy": {
              "descriptions": {
                "ja": "積算電力量計測値",
                "en": "Measured cumulative amount of electric power consumption"
              },
              "oneOf": [
                {
                  "type": "number",
                  "unit": "kWh",
                  "minimum": 0,
                  "coefficient": [
                    "0xC2"
                  ]
                },
                {
                  "type": "string",
                  "enum": [
                    "noData"
                  ],
                  "values": [
                    {
                      "value": "noData",
                      "descriptions": {
                        "ja": "未計測",
                        "en": "Not measured"
                      },
                      "edt": "0xFFFFFFFE"
                    }
                  ]
                }
              ]
            },
            "currentRphase": {
              "descriptions": {
                "ja": "瞬時電流計測値 (R相)",
                "en": "Measured instantaneous current (R phase)"
              },
              "oneOf": [
                {
                  "type": "number",
                  "unit": "A",
                  "minimum": -3276.7,
                  "maximum": 3276.5,
                  "multipleOf": 0.1
                },
                {
                  "type": "string",
                  "enum": [
                    "noData"
                  ],
                  "values": [
                    {
```


©2018-2022 ECHONET Consortium

```
                    "value": "noData",
                    "descriptions": {
                      "ja": "未計測",
                      "en": "Not measured"
                    },
                    "edt": "0x7FFE"
                  }
                ]
              }
            ]
          },
          "currentTphase": {
            "descriptions": {
              "ja": "瞬時電流計測値 (T相)",
              "en": "Measured instantaneous current (T phase)"
            },
            "oneOf": [
              {
                "type": "number",
                "unit": "A",
                "minimum": -3276.7,
                "maximum": 3276.5,
                "multipleOf": 0.1
              },
              {
                "type": "string",
                "enum": [
                  "noData"
                ],
                "values": [
                  {
                    "value": "noData",
                    "descriptions": {
                      "ja": "未計測",
                      "en": "Not measured"
                    },
                    "edt": "0x7FFE"
                  }
                ]
              }
            ]
          }
        }
      }
    },
    "measurementChannel19": {
      "epc": "0xE2",
      "descriptions": {
        "ja": "計測チャンネル19",
        "en": "Measurement channel 19"
      },
      "writable": false,
      "observable": false,
      "schema": {
        "type": "object",
        "properties": {
          "electricEnergy": {
            "descriptions": {
              "ja": "積算電力量計測値",
              "en": "Measured cumulative amount of electric power consumption"
            },
```


©2018-2022 ECHONET Consortium

```
                "oneOf": [
                  {
                    "type": "number",
                    "unit": "kWh",
                    "minimum": 0,
                    "coefficient": [
                      "0xC2"
                    ]
                  },
                  {
                    "type": "string",
                    "enum": [
                      "noData"
                    ],
                    "values": [
                      {
                        "value": "noData",
                        "descriptions": {
                          "ja": "未計測",
                          "en": "Not measured"
                        },
                        "edt": "0xFFFFFFFE"
                      }
                    ]
                  }
                ]
              },
              "currentRphase": {
                "descriptions": {
                  "ja": "瞬時電流計測値 (R相)",
                  "en": "Measured instantaneous current (R phase)"
                },
                "oneOf": [
                  {
                    "type": "number",
                    "unit": "A",
                    "minimum": -3276.7,
                    "maximum": 3276.5,
                    "multipleOf": 0.1
                  },
                  {
                    "type": "string",
                    "enum": [
                      "noData"
                    ],
                    "values": [
                      {
                        "value": "noData",
                        "descriptions": {
                          "ja": "未計測",
                          "en": "Not measured"
                        },
                        "edt": "0x7FFE"
                      }
                    ]
                  }
                ]
              },
              "currentTphase": {
                "descriptions": {
                  "ja": "瞬時電流計測値 (T相)",
```


©2018-2022 ECHONET Consortium

```
                "en": "Measured instantaneous current (T phase)"
              },
              "oneOf": [
                {
                  "type": "number",
                  "unit": "A",
                  "minimum": -3276.7,
                  "maximum": 3276.5,
                  "multipleOf": 0.1
                },
                {
                  "type": "string",
                  "enum": [
                    "noData"
                  ],
                  "values": [
                    {
                      "value": "noData",
                      "descriptions": {
                        "ja": "未計測",
                        "en": "Not measured"
                      },
                      "edt": "0x7FFE"
                    }
                  ]
                }
              ]
            }
          }
        }
      },
      "measurementChannel20": {
        "epc": "0xE3",
        "descriptions": {
          "ja": "計測チャンネル20",
          "en": "Measurement channel 20"
        },
        "writable": false,
        "observable": false,
        "schema": {
          "type": "object",
          "properties": {
            "electricEnergy": {
              "descriptions": {
                "ja": "積算電力量計測値",
                "en": "Measured cumulative amount of electric power consumption"
              },
              "oneOf": [
                {
                  "type": "number",
                  "unit": "kWh",
                  "minimum": 0,
                  "coefficient": [
                    "0xC2"
                  ]
                },
                {
                  "type": "string",
                  "enum": [
                    "noData"
                  ],
```


©2018-2022 ECHONET Consortium

```
                "values": [
                  {
                    "value": "noData",
                    "descriptions": {
                      "ja": "未計測",
                      "en": "Not measured"
                    },
                    "edt": "0xFFFFFFFE"
                  }
                ]
              }
            ]
          },
          "currentRphase": {
            "descriptions": {
              "ja": "瞬時電流計測値 (R相)",
              "en": "Measured instantaneous current (R phase)"
            },
            "oneOf": [
              {
                "type": "number",
                "unit": "A",
                "minimum": -3276.7,
                "maximum": 3276.5,
                "multipleOf": 0.1
              },
              {
                "type": "string",
                "enum": [
                  "noData"
                ],
                "values": [
                  {
                    "value": "noData",
                    "descriptions": {
                      "ja": "未計測",
                      "en": "Not measured"
                    },
                    "edt": "0x7FFE"
                  }
                ]
              }
            ]
          },
          "currentTphase": {
            "descriptions": {
              "ja": "瞬時電流計測値 (T相)",
              "en": "Measured instantaneous current (T phase)"
            },
            "oneOf": [
              {
                "type": "number",
                "unit": "A",
                "minimum": -3276.7,
                "maximum": 3276.5,
                "multipleOf": 0.1
              },
              {
                "type": "string",
                "enum": [
                  "noData"
```


©2018-2022 ECHONET Consortium

```
                ],
                "values": [
                  {
                    "value": "noData",
                    "descriptions": {
                      "ja": "未計測",
                      "en": "Not measured"
                    },
                    "edt": "0x7FFE"
                  }
                ]
              }
            ]
          }
        }
      }
    },
    "measurementChannel21": {
      "epc": "0xE4",
      "descriptions": {
        "ja": "計測チャンネル21",
        "en": "Measurement channel 21"
      },
      "writable": false,
      "observable": false,
      "schema": {
        "type": "object",
        "properties": {
          "electricEnergy": {
            "descriptions": {
              "ja": "積算電力量計測値",
              "en": "Measured cumulative amount of electric power consumption"
            },
            "oneOf": [
              {
                "type": "number",
                "unit": "kWh",
                "minimum": 0,
                "coefficient": [
                  "0xC2"
                ]
              },
              {
                "type": "string",
                "enum": [
                  "noData"
                ],
                "values": [
                  {
                    "value": "noData",
                    "descriptions": {
                      "ja": "未計測",
                      "en": "Not measured"
                    },
                    "edt": "0xFFFFFFFE"
                  }
                ]
              }
            ]
          },
          "currentRphase": {
```


©2018-2022 ECHONET Consortium

```
            "descriptions": {
              "ja": "瞬時電流計測値 (R相)",
              "en": "Measured instantaneous current (R phase)"
            },
            "oneOf": [
              {
                "type": "number",
                "unit": "A",
                "minimum": -3276.7,
                "maximum": 3276.5,
                "multipleOf": 0.1
              },
              {
                "type": "string",
                "enum": [
                  "noData"
                ],
                "values": [
                  {
                    "value": "noData",
                    "descriptions": {
                      "ja": "未計測",
                      "en": "Not measured"
                    },
                    "edt": "0x7FFE"
                  }
                ]
              }
            ]
          },
          "currentTphase": {
            "descriptions": {
              "ja": "瞬時電流計測値 (T相)",
              "en": "Measured instantaneous current (T phase)"
            },
            "oneOf": [
              {
                "type": "number",
                "unit": "A",
                "minimum": -3276.7,
                "maximum": 3276.5,
                "multipleOf": 0.1
              },
              {
                "type": "string",
                "enum": [
                  "noData"
                ],
                "values": [
                  {
                    "value": "noData",
                    "descriptions": {
                      "ja": "未計測",
                      "en": "Not measured"
                    },
                    "edt": "0x7FFE"
                  }
                ]
              }
            ]
          }
```


©2018-2022 ECHONET Consortium

```
          }
        }
      },
      "measurementChannel22": {
        "epc": "0xE5",
        "descriptions": {
          "ja": "計測チャンネル22",
          "en": "Measurement channel 22"
        },
        "writable": false,
        "observable": false,
        "schema": {
          "type": "object",
          "properties": {
            "electricEnergy": {
              "descriptions": {
                "ja": "積算電力量計測値",
                "en": "Measured cumulative amount of electric power consumption"
              },
              "oneOf": [
                {
                  "type": "number",
                  "unit": "kWh",
                  "minimum": 0,
                  "coefficient": [
                    "0xC2"
                  ]
                },
                {
                  "type": "string",
                  "enum": [
                    "noData"
                  ],
                  "values": [
                    {
                      "value": "noData",
                      "descriptions": {
                        "ja": "未計測",
                        "en": "Not measured"
                      },
                      "edt": "0xFFFFFFFE"
                    }
                  ]
                }
              ]
            },
            "currentRphase": {
              "descriptions": {
                "ja": "瞬時電流計測値 (R相)",
                "en": "Measured instantaneous current (R phase)"
              },
              "oneOf": [
                {
                  "type": "number",
                  "unit": "A",
                  "minimum": -3276.7,
                  "maximum": 3276.5,
                  "multipleOf": 0.1
                },
                {
                  "type": "string",
```


©2018-2022 ECHONET Consortium

```
                "enum": [
                  "noData"
                ],
                "values": [
                  {
                    "value": "noData",
                    "descriptions": {
                      "ja": "未計測",
                      "en": "Not measured"
                    },
                    "edt": "0x7FFE"
                  }
                ]
              }
            ]
          },
          "currentTphase": {
            "descriptions": {
              "ja": "瞬時電流計測値 (T相)",
              "en": "Measured instantaneous current (T phase)"
            },
            "oneOf": [
              {
                "type": "number",
                "unit": "A",
                "minimum": -3276.7,
                "maximum": 3276.5,
                "multipleOf": 0.1
              },
              {
                "type": "string",
                "enum": [
                  "noData"
                ],
                "values": [
                  {
                    "value": "noData",
                    "descriptions": {
                      "ja": "未計測",
                      "en": "Not measured"
                    },
                    "edt": "0x7FFE"
                  }
                ]
              }
            ]
          }
        }
      }
    }
    "measurementChannel23": {
      "epc": "0xE6",
      "descriptions": {
        "ja": "計測チャンネル23",
        "en": "Measurement channel 23"
      },
      "writable": false,
      "observable": false,
      "schema": {
        "type": "object",
        "properties": {
```


©2018-2022 ECHONET Consortium

```
            "electricEnergy": {
              "descriptions": {
                "ja": "積算電力量計測値",
                "en": "Measured cumulative amount of electric power consumption"
              },
              "oneOf": [
                {
                  "type": "number",
                  "unit": "kWh",
                  "minimum": 0,
                  "coefficient": [
                    "0xC2"
                  ]
                },
                {
                  "type": "string",
                  "enum": [
                    "noData"
                  ],
                  "values": [
                    {
                      "value": "noData",
                      "descriptions": {
                        "ja": "未計測",
                        "en": "Not measured"
                      },
                      "edt": "0xFFFFFFFE"
                    }
                  ]
                }
              ]
            },
            "currentRphase": {
              "descriptions": {
                "ja": "瞬時電流計測値 (R相)",
                "en": "Measured instantaneous current (R phase)"
              },
              "oneOf": [
                {
                  "type": "number",
                  "unit": "A",
                  "minimum": -3276.7,
                  "maximum": 3276.5,
                  "multipleOf": 0.1
                },
                {
                  "type": "string",
                  "enum": [
                    "noData"
                  ],
                  "values": [
                    {
                      "value": "noData",
                      "descriptions": {
                        "ja": "未計測",
                        "en": "Not measured"
                      },
                      "edt": "0x7FFE"
                    }
                  ]
                }
```


©2018-2022 ECHONET Consortium

```
            ]
          },
          "currentTphase": {
            "descriptions": {
              "ja": "瞬時電流計測値 (T相)",
              "en": "Measured instantaneous current (T phase)"
            },
            "oneOf": [
              {
                "type": "number",
                "unit": "A",
                "minimum": -3276.7,
                "maximum": 3276.5,
                "multipleOf": 0.1
              },
              {
                "type": "string",
                "enum": [
                  "noData"
                ],
                "values": [
                  {
                    "value": "noData",
                    "descriptions": {
                      "ja": "未計測",
                      "en": "Not measured"
                    },
                    "edt": "0x7FFE"
                  }
                ]
              }
            ]
          }
        }
      }
    },
    "measurementChannel24": {
      "epc": "0xE7",
      "descriptions": {
        "ja": "計測チャンネル24",
        "en": "Measurement channel 24"
      },
      "writable": false,
      "observable": false,
      "schema": {
        "type": "object",
        "properties": {
          "electricEnergy": {
            "descriptions": {
              "ja": "積算電力量計測値",
              "en": "Measured cumulative amount of electric power consumption"
            },
            "oneOf": [
              {
                "type": "number",
                "unit": "kWh",
                "minimum": 0,
                "coefficient": [
                  "0xC2"
                ]
              },
```


©2018-2022 ECHONET Consortium

```
                {
                  "type": "string",
                  "enum": [
                    "noData"
                  ],
                  "values": [
                    {
                      "value": "noData",
                      "descriptions": {
                        "ja": "未計測",
                        "en": "Not measured"
                      },
                      "edt": "0xFFFFFFFE"
                    }
                  ]
                }
              ]
            },
            "currentRphase": {
              "descriptions": {
                "ja": "瞬時電流計測値 (R相)",
                "en": "Measured instantaneous current (R phase)"
              },
              "oneOf": [
                {
                  "type": "number",
                  "unit": "A",
                  "minimum": -3276.7,
                  "maximum": 3276.5,
                  "multipleOf": 0.1
                },
                {
                  "type": "string",
                  "enum": [
                    "noData"
                  ],
                  "values": [
                    {
                      "value": "noData",
                      "descriptions": {
                        "ja": "未計測",
                        "en": "Not measured"
                      },
                      "edt": "0x7FFE"
                    }
                  ]
                }
              ]
            },
            "currentTphase": {
              "descriptions": {
                "ja": "瞬時電流計測値 (T相)",
                "en": "Measured instantaneous current (T phase)"
              },
              "oneOf": [
                {
                  "type": "number",
                  "unit": "A",
                  "minimum": -3276.7,
                  "maximum": 3276.5,
                  "multipleOf": 0.1
```


©2018-2022 ECHONET Consortium

```
                },
                {
                  "type": "string",
                  "enum": [
                    "noData"
                  ],
                  "values": [
                    {
                      "value": "noData",
                      "descriptions": {
                        "ja": "未計測",
                        "en": "Not measured"
                      },
                      "edt": "0x7FFE"
                    }
                  ]
                }
              ]
            }
          }
        }
      },
      "measurementChannel25": {
        "epc": "0xE8",
        "descriptions": {
          "ja": "計測チャンネル25",
          "en": "Measurement channel 25"
        },
        "writable": false,
        "observable": false,
        "schema": {
          "type": "object",
          "properties": {
            "electricEnergy": {
              "descriptions": {
                "ja": "積算電力量計測値",
                "en": "Measured cumulative amount of electric power consumption"
              },
              "oneOf": [
                {
                  "type": "number",
                  "unit": "kWh",
                  "minimum": 0,
                  "coefficient": [
                    "0xC2"
                  ]
                },
                {
                  "type": "string",
                  "enum": [
                    "noData"
                  ],
                  "values": [
                    {
                      "value": "noData",
                      "descriptions": {
                        "ja": "未計測",
                        "en": "Not measured"
                      },
                      "edt": "0xFFFFFFFE"
                    }
```


©2018-2022 ECHONET Consortium

```
                ]
              }
            ]
          },
          "currentRphase": {
            "descriptions": {
              "ja": "瞬時電流計測値 (R相)",
              "en": "Measured instantaneous current (R phase)"
            },
            "oneOf": [
              {
                "type": "number",
                "unit": "A",
                "minimum": -3276.7,
                "maximum": 3276.5,
                "multipleOf": 0.1
              },
              {
                "type": "string",
                "enum": [
                  "noData"
                ],
                "values": [
                  {
                    "value": "noData",
                    "descriptions": {
                      "ja": "未計測",
                      "en": "Not measured"
                    },
                    "edt": "0x7FFE"
                  }
                ]
              }
            ]
          },
          "currentTphase": {
            "descriptions": {
              "ja": "瞬時電流計測値 (T相)",
              "en": "Measured instantaneous current (T phase)"
            },
            "oneOf": [
              {
                "type": "number",
                "unit": "A",
                "minimum": -3276.7,
                "maximum": 3276.5,
                "multipleOf": 0.1
              },
              {
                "type": "string",
                "enum": [
                  "noData"
                ],
                "values": [
                  {
                    "value": "noData",
                    "descriptions": {
                      "ja": "未計測",
                      "en": "Not measured"
                    },
                    "edt": "0x7FFE"
```


©2018-2022 ECHONET Consortium

```
                    }
                  ]
                }
              ]
            }
          }
        }
      },
      "measurementChannel26": {
        "epc": "0xE9",
        "descriptions": {
          "ja": "計測チャンネル26",
          "en": "Measurement channel 26"
        },
        "writable": false,
        "observable": false,
        "schema": {
          "type": "object",
          "properties": {
            "electricEnergy": {
              "descriptions": {
                "ja": "積算電力量計測値",
                "en": "Measured cumulative amount of electric power consumption"
              },
              "oneOf": [
                {
                  "type": "number",
                  "unit": "kWh",
                  "minimum": 0,
                  "coefficient": [
                    "0xC2"
                  ]
                },
                {
                  "type": "string",
                  "enum": [
                    "noData"
                  ],
                  "values": [
                    {
                      "value": "noData",
                      "descriptions": {
                        "ja": "未計測",
                        "en": "Not measured"
                      },
                      "edt": "0xFFFFFFFE"
                    }
                  ]
                }
              ]
            },
            "currentRphase": {
              "descriptions": {
                "ja": "瞬時電流計測値 (R相)",
                "en": "Measured instantaneous current (R phase)"
              },
              "oneOf": [
                {
                  "type": "number",
                  "unit": "A",
                  "minimum": -3276.7,
```


©2018-2022 ECHONET Consortium

```
                "maximum": 3276.5,
                "multipleOf": 0.1
              },
              {
                "type": "string",
                "enum": [
                  "noData"
                ],
                "values": [
                  {
                    "value": "noData",
                    "descriptions": {
                      "ja": "未計測",
                      "en": "Not measured"
                    },
                    "edt": "0x7FFE"
                  }
                ]
              }
            ]
          },
          "currentTphase": {
            "descriptions": {
              "ja": "瞬時電流計測値 (T相)",
              "en": "Measured instantaneous current (T phase)"
            },
            "oneOf": [
              {
                "type": "number",
                "unit": "A",
                "minimum": -3276.7,
                "maximum": 3276.5,
                "multipleOf": 0.1
              },
              {
                "type": "string",
                "enum": [
                  "noData"
                ],
                "values": [
                  {
                    "value": "noData",
                    "descriptions": {
                      "ja": "未計測",
                      "en": "Not measured"
                    },
                    "edt": "0x7FFE"
                  }
                ]
              }
            ]
          }
        }
      }
    },
    "measurementChannel27": {
      "epc": "0xEA",
      "descriptions": {
        "ja": "計測チャンネル27",
        "en": "Measurement channel 27"
      },
```


©2018-2022 ECHONET Consortium

```
        "writable": false,
        "observable": false,
        "schema": {
          "type": "object",
          "properties": {
            "electricEnergy": {
              "descriptions": {
                "ja": "積算電力量計測値",
                "en": "Measured cumulative amount of electric power consumption"
              },
              "oneOf": [
                {
                  "type": "number",
                  "unit": "kWh",
                  "minimum": 0,
                  "coefficient": [
                    "0xC2"
                  ]
                },
                {
                  "type": "string",
                  "enum": [
                    "noData"
                  ],
                  "values": [
                    {
                      "value": "noData",
                      "descriptions": {
                        "ja": "未計測",
                        "en": "Not measured"
                      },
                      "edt": "0xFFFFFFFE"
                    }
                  ]
                }
              ]
            },
            "currentRphase": {
              "descriptions": {
                "ja": "瞬時電流計測値 (R相)",
                "en": "Measured instantaneous current (R phase)"
              },
              "oneOf": [
                {
                  "type": "number",
                  "unit": "A",
                  "minimum": -3276.7,
                  "maximum": 3276.5,
                  "multipleOf": 0.1
                },
                {
                  "type": "string",
                  "enum": [
                    "noData"
                  ],
                  "values": [
                    {
                      "value": "noData",
                      "descriptions": {
                        "ja": "未計測",
                        "en": "Not measured"
```


©2018-2022 ECHONET Consortium

```
                    },
                    "edt": "0x7FFE"
                  }
                ]
              }
            ]
          },
          "currentTphase": {
            "descriptions": {
              "ja": "瞬時電流計測値 (T相)",
              "en": "Measured instantaneous current (T phase)"
            },
            "oneOf": [
              {
                "type": "number",
                "unit": "A",
                "minimum": -3276.7,
                "maximum": 3276.5,
                "multipleOf": 0.1
              },
              {
                "type": "string",
                "enum": [
                  "noData"
                ],
                "values": [
                  {
                    "value": "noData",
                    "descriptions": {
                      "ja": "未計測",
                      "en": "Not measured"
                    },
                    "edt": "0x7FFE"
                  }
                ]
              }
            ]
          }
        }
      }
    },
    "measurementChannel28": {
      "epc": "0xEB",
      "descriptions": {
        "ja": "計測チャンネル28",
        "en": "Measurement channel 28"
      },
      "writable": false,
      "observable": false,
      "schema": {
        "type": "object",
        "properties": {
          "electricEnergy": {
            "descriptions": {
              "ja": "積算電力量計測値",
              "en": "Measured cumulative amount of electric power consumption"
            },
            "oneOf": [
              {
                "type": "number",
                "unit": "kWh",
```


©2018-2022 ECHONET Consortium

```
                "minimum": 0,
                "coefficient": [
                  "0xC2"
                ]
              },
              {
                "type": "string",
                "enum": [
                  "noData"
                ],
                "values": [
                  {
                    "value": "noData",
                    "descriptions": {
                      "ja": "未計測",
                      "en": "Not measured"
                    },
                    "edt": "0xFFFFFFFE"
                  }
                ]
              }
            ]
          },
          "currentRphase": {
            "descriptions": {
              "ja": "瞬時電流計測値 (R相)",
              "en": "Measured instantaneous current (R phase)"
            },
            "oneOf": [
              {
                "type": "number",
                "unit": "A",
                "minimum": -3276.7,
                "maximum": 3276.5,
                "multipleOf": 0.1
              },
              {
                "type": "string",
                "enum": [
                  "noData"
                ],
                "values": [
                  {
                    "value": "noData",
                    "descriptions": {
                      "ja": "未計測",
                      "en": "Not measured"
                    },
                    "edt": "0x7FFE"
                  }
                ]
              }
            ]
          },
          "currentTphase": {
            "descriptions": {
              "ja": "瞬時電流計測値 (T相)",
              "en": "Measured instantaneous current (T phase)"
            },
            "oneOf": [
              {
```


©2018-2022 ECHONET Consortium

```
                "type": "number",
                "unit": "A",
                "minimum": -3276.7,
                "maximum": 3276.5,
                "multipleOf": 0.1
              },
              {
                "type": "string",
                "enum": [
                  "noData"
                ],
                "values": [
                  {
                    "value": "noData",
                    "descriptions": {
                      "ja": "未計測",
                      "en": "Not measured"
                    },
                    "edt": "0x7FFE"
                  }
                ]
              }
            ]
          }
        }
      }
    }
  },
  "measurementChannel29": {
    "epc": "0xEC",
    "descriptions": {
      "ja": "計測チャンネル29",
      "en": "Measurement channel 29"
    },
    "writable": false,
    "observable": false,
    "schema": {
      "type": "object",
      "properties": {
        "electricEnergy": {
          "descriptions": {
            "ja": "積算電力量計測値",
            "en": "Measured cumulative amount of electric power consumption"
          },
          "oneOf": [
            {
              "type": "number",
              "unit": "kWh",
              "minimum": 0,
              "coefficient": [
                "0xC2"
              ]
            },
            {
              "type": "string",
              "enum": [
                "noData"
              ],
              "values": [
                {
                  "value": "noData",
                  "descriptions": {
```


©2018-2022 ECHONET Consortium

```
                "ja": "未計測",
                "en": "Not measured"
              },
              "edt": "0xFFFFFFFE"
            }
          ]
        }
      ]
    },
    "currentRphase": {
      "descriptions": {
        "ja": "瞬時電流計測値 (R相)",
        "en": "Measured instantaneous current (R phase)"
      },
      "oneOf": [
        {
          "type": "number",
          "unit": "A",
          "minimum": -3276.7,
          "maximum": 3276.5,
          "multipleOf": 0.1
        },
        {
          "type": "string",
          "enum": [
            "noData"
          ],
          "values": [
            {
              "value": "noData",
              "descriptions": {
                "ja": "未計測",
                "en": "Not measured"
              },
              "edt": "0x7FFE"
            }
          ]
        }
      ]
    },
    "currentTphase": {
      "descriptions": {
        "ja": "瞬時電流計測値 (T相)",
        "en": "Measured instantaneous current (T phase)"
      },
      "oneOf": [
        {
          "type": "number",
          "unit": "A",
          "minimum": -3276.7,
          "maximum": 3276.5,
          "multipleOf": 0.1
        },
        {
          "type": "string",
          "enum": [
            "noData"
          ],
          "values": [
            {
              "value": "noData",
```


©2018-2022 ECHONET Consortium

```
                    "descriptions": {
                      "ja": "未計測",
                      "en": "Not measured"
                    },
                    "edt": "0x7FFE"
                  }
                ]
              }
            ]
          }
        }
      }
    },
    "measurementChannel30": {
      "epc": "0xED",
      "descriptions": {
        "ja": "計測チャンネル30",
        "en": "Measurement channel 30"
      },
      "writable": false,
      "observable": false,
      "schema": {
        "type": "object",
        "properties": {
          "electricEnergy": {
            "descriptions": {
              "ja": "積算電力量計測値",
              "en": "Measured cumulative amount of electric power consumption"
            },
            "oneOf": [
              {
                "type": "number",
                "unit": "kWh",
                "minimum": 0,
                "coefficient": [
                  "0xC2"
                ]
              },
              {
                "type": "string",
                "enum": [
                  "noData"
                ],
                "values": [
                  {
                    "value": "noData",
                    "descriptions": {
                      "ja": "未計測",
                      "en": "Not measured"
                    },
                    "edt": "0xFFFFFFFE"
                  }
                ]
              }
            ]
          },
          "currentRphase": {
            "descriptions": {
              "ja": "瞬時電流計測値 (R相)",
              "en": "Measured instantaneous current (R phase)"
            },
```


©2018-2022 ECHONET Consortium

```
            "oneOf": [
              {
                "type": "number",
                "unit": "A",
                "minimum": -3276.7,
                "maximum": 3276.5,
                "multipleOf": 0.1
              },
              {
                "type": "string",
                "enum": [
                  "noData"
                ],
                "values": [
                  {
                    "value": "noData",
                    "descriptions": {
                      "ja": "未計測",
                      "en": "Not measured"
                    },
                    "edt": "0x7FFE"
                  }
                ]
              }
            ]
          },
          "currentTphase": {
            "descriptions": {
              "ja": "瞬時電流計測値 (T相)",
              "en": "Measured instantaneous current (T phase)"
            },
            "oneOf": [
              {
                "type": "number",
                "unit": "A",
                "minimum": -3276.7,
                "maximum": 3276.5,
                "multipleOf": 0.1
              },
              {
                "type": "string",
                "enum": [
                  "noData"
                ],
                "values": [
                  {
                    "value": "noData",
                    "descriptions": {
                      "ja": "未計測",
                      "en": "Not measured"
                    },
                    "edt": "0x7FFE"
                  }
                ]
              }
            ]
          }
        }
      }
    }
  },
  "measurementChannel31": {
```


©2018-2022 ECHONET Consortium

```
        "epc": "0xEE",
        "descriptions": {
          "ja": "計測チャンネル31",
          "en": "Measurement channel 31"
        },
        "writable": false,
        "observable": false,
        "schema": {
          "type": "object",
          "properties": {
            "electricEnergy": {
              "descriptions": {
                "ja": "積算電力量計測値",
                "en": "Measured cumulative amount of electric power consumption"
              },
              "oneOf": [
                {
                  "type": "number",
                  "unit": "kWh",
                  "minimum": 0,
                  "coefficient": [
                    "0xC2"
                  ]
                },
                {
                  "type": "string",
                  "enum": [
                    "noData"
                  ],
                  "values": [
                    {
                      "value": "noData",
                      "descriptions": {
                        "ja": "未計測",
                        "en": "Not measured"
                      },
                      "edt": "0xFFFFFFFE"
                    }
                  ]
                }
              ]
            },
            "currentRphase": {
              "descriptions": {
                "ja": "瞬時電流計測値 (R相)",
                "en": "Measured instantaneous current (R phase)"
              },
              "oneOf": [
                {
                  "type": "number",
                  "unit": "A",
                  "minimum": -3276.7,
                  "maximum": 3276.5,
                  "multipleOf": 0.1
                },
                {
                  "type": "string",
                  "enum": [
                    "noData"
                  ],
                  "values": [
```


©2018-2022 ECHONET Consortium

```
                    {
                      "value": "noData",
                      "descriptions": {
                        "ja": "未計測",
                        "en": "Not measured"
                      },
                      "edt": "0x7FFE"
                    }
                  ]
                }
              ]
            },
            "currentTphase": {
              "descriptions": {
                "ja": "瞬時電流計測値 (T相)",
                "en": "Measured instantaneous current (T phase)"
              },
              "oneOf": [
                {
                  "type": "number",
                  "unit": "A",
                  "minimum": -3276.7,
                  "maximum": 3276.5,
                  "multipleOf": 0.1
                },
                {
                  "type": "string",
                  "enum": [
                    "noData"
                  ],
                  "values": [
                    {
                      "value": "noData",
                      "descriptions": {
                        "ja": "未計測",
                        "en": "Not measured"
                      },
                      "edt": "0x7FFE"
                    }
                  ]
                }
              ]
            }
          }
        }
      },
      "measurementChannel32": {
        "epc": "0xEF",
        "descriptions": {
          "ja": "計測チャンネル32",
          "en": "Measurement channel 32"
        },
        "writable": false,
        "observable": false,
        "schema": {
          "type": "object",
          "properties": {
            "electricEnergy": {
              "descriptions": {
                "ja": "積算電力量計測値",
                "en": "Measured cumulative amount of electric power consumption"
```


©2018-2022 ECHONET Consortium

```
            },
            "oneOf": [
              {
                "type": "number",
                "unit": "kWh",
                "minimum": 0,
                "coefficient": [
                  "0xC2"
                ]
              },
              {
                "type": "string",
                "enum": [
                  "noData"
                ],
                "values": [
                  {
                    "value": "noData",
                    "descriptions": {
                      "ja": "未計測",
                      "en": "Not measured"
                    },
                    "edt": "0xFFFFFFFE"
                  }
                ]
              }
            ]
          },
          "currentRphase": {
            "descriptions": {
              "ja": "瞬時電流計測値 (R相)",
              "en": "Measured instantaneous current (R phase)"
            },
            "oneOf": [
              {
                "type": "number",
                "unit": "A",
                "minimum": -3276.7,
                "maximum": 3276.5,
                "multipleOf": 0.1
              },
              {
                "type": "string",
                "enum": [
                  "noData"
                ],
                "values": [
                  {
                    "value": "noData",
                    "descriptions": {
                      "ja": "未計測",
                      "en": "Not measured"
                    },
                    "edt": "0x7FFE"
                  }
                ]
              }
            ]
          },
          "currentTphase": {
            "descriptions": {
```


©2018-2022 ECHONET Consortium

```
                "ja": "瞬時電流計測値 (T相)",
                "en": "Measured instantaneous current (T phase)"
              },
              "oneOf": [
                {
                  "type": "number",
                  "unit": "A",
                  "minimum": -3276.7,
                  "maximum": 3276.5,
                  "multipleOf": 0.1
                },
                {
                  "type": "string",
                  "enum": [
                    "noData"
                  ],
                  "values": [
                    {
                      "value": "noData",
                      "descriptions": {
                        "ja": "未計測",
                        "en": "Not measured"
                      },
                      "edt": "0x7FFE"
                    }
                  ]
                }
              ]
            }
          }
        }
      }
    }
  }
```


©2018-2022 ECHONET Consortium

Low-voltage smart electric energy meter: lvSmartElectricEnergyMeter: 0x0288

Back to the List of Devices

Note to Server:
The following ECHONET Lite properties shall be actual values, by multiplying the value obtained with ECHONET Lite with the coefficient (EPC=0xD3) and the unit for cumulative amounts of electric energy (EPC=0xE1). The server side shall perform this calculation. Therefore, the ECHONET Lite Web API can use acquired values without modification. For the following properties, "maximum" and "multipleOf" can be added to the data schema as a response to /devices/<deviceId>. When "maximum" is added, the value is obtained from the number of effective digits for cumulative amounts of electric energy (EPC=0xD7) multiplied by coefficient (EPC=0xD3) and unit for cumulative amounts of electric energy (EPC=0xE1). When "multipleOf" is added, the value is obtained by multiplying coefficient (EPC=0xD3) and unit for cumulative amounts of electric energy (EPC=0xE1). In either case, the server side shall perform these calculations and setting.

- Measured cumulative amount of electric energy (normal direction)
- Historical data of measured cumulative amounts of electric energy 1 (normal direction)
- Measured cumulative amount of electric energy (reverse direction)
- Historical data of measured cumulative amounts of electric energy 1 (reverse direction)
- Cumulative amounts of electric energy measured at fixed time (normal direction)
- Cumulative amounts of electric energy measured at fixed time (reverse direction)
- Historical data of measured cumulative amounts of electric energy 2

Ex.:

```
Measured cumulative amount of electric energy (normal direction) (EPC=0xE0): 0x00BC614E
(12345678)
Coefficient (EPC=0xD3): 0x0000000A (10 times)
Unit for cumulative amounts of electric energy (EPC=0xE1): 0x03 (0.001 kWh)
Number of effective digits for cumulative amounts of electric energy (EPC=0xD7): 0x08 (8 digits
= maximum measured value 99999999)
    Actual cumulative amounts of electric energy: 12345678 * 10 * 0.001 = 123456.78 [kWh]
    Value of "maximum": 99999999 * 10 * 0.001 = 999999.99
    Value of "multipleOf": 10 * 0.001 = 0.01
```

The following ECHONET Lite properties need to set "day for which the historical data of measured cumulative amounts of electric energy is to be retrieved 1 (EPC=0xE5)" before getting data with ECHONET Lite. ECHONET Lite Web API designates the value of "day for which the historical data of measured cumulative amounts of electric energy is to be retrieved 1" as a query, when getting (REST) the following properties. The server gets "historical data of measured cumulative amounts of electric energy 1" with ECHONET Lite, after setting "day for which the historical data of measured cumulative amounts of electric energy is to be retrieved 1". Note that if you are not adding a query with the ECHONET Lite Web API, then handle "day for which the historical data of measured cumulative amounts of electric energy is to be retrieved 1" as "0".

- Historical data of measured cumulative amounts of electric energy 1 (normal direction)
- Historical data of measured cumulative amounts of electric energy 1 (reverse direction)

©2018-2022 ECHONET Consortium

The following ECHONET Lite properties need to set "day for which the historical data of measured cumulative amounts of electric energy is to be retrieved 2 (EPC=0xED)" before getting data with ECHONET Lite. ECHONET Lite Web API designates the value of "day for which the historical data of measured cumulative amounts of electric energy is to be retrieved 2" as a query, when getting (REST) the following properties. The server gets "historical data of measured cumulative amounts of electric energy 2" with ECHONET Lite, after setting "day for which the historical data of measured cumulative amounts of electric energy is to be retrieved 2".

- Historical data of measured cumulative amounts of electric energy 2 (normal and reverse directions)

Properties

Property Resource Name	Access Method	Data Type	EPC (EL)	Property name (EL)	Note
normalDirectionCumulativeElectricEnergy	GET	number, string	0xE0	Measured cumulative amount of electric energy (normal direction)	
normalDirectionCumulativeElectricEnergyLog1	GET	object	0xE2	Historical data of measured cumulative amounts of electric energy 1 (normal direction)	*1
reverseDirectionCumulativeElectricEnergy	GET	number, string	0xE3	Measured cumulative amount of electric energy (reverse direction)	

©2018-2022 ECHONET Consortium

Property Resource Name	Access Method	Data Type	EPC (EL)	Property name (EL)	Note
reverseDirectionCumulativeElectricEnergyLog1	GET	object	0xE4	Historical data of measured cumulative amounts of electric energy 1 (reverse direction)	*1
instantaneousElectricPower	GET	number, string	0xE7	Measured instantaneous electric power	
instantaneousCurrent	GET	object	0xE8	Measured instantaneous currents	
normalDirectionCumulativeElectricEnergyAtEvery30Min	GET	object	0xEA	Cumulative amounts of electric energy measured at fixed time (normal direction)	
reverseDirectionCumulativeElectricEnergyAtEvery30Min	GET	object	0xEB	Cumulative amounts of electric energy measured at fixed time (reverse direction)	

©2018-2022 ECHONET Consortium

Property Resource Name	Access Method	Data Type	EPC (EL)	Property name (EL)	Note
cumulativeElectricEnergyLog2	GET	object	0xEC	Historical data of measured cumulative amounts of electric energy 2 (normal and reverse directions)	*1

*1 With query

Device Description

```
{
  "deviceType": "lvSmartElectricEnergyMeter",
  "metaData": {
    "version": "1.4.0"
  },
  "eoj": "0x0288",
  "descriptions": {
    "ja": "低圧スマート電力量メータ",
    "en": "Low-voltage smart electric energy meter"
  },
  "properties": {
    "normalDirectionCumulativeElectricEnergy": {
      "epc": "0xE0",
      "descriptions": {
        "ja": "積算電力量計測値 (正方向計測値)",
        "en": "Measured cumulative amount of electric energy (normal direction)"
      },
      "writable": false,
      "observable": false,
      "schema": {
        "oneOf": [
          {
            "type": "number",
            "unit": "kWh",
            "minimum": 0,
            "coefficient": [
              "0xD3",
              "0xE1"
            ]
          },
          {
            "type": "string",
            "enum": [
              "noData"
            ],
            "values": [
              {
```


©2018-2022 ECHONET Consortium

```
                "value": "noData",
                "descriptions": {
                  "ja": "未計測",
                  "en": "Not measured"
                },
                "edt": "0xFFFFFFFE"
              }
            ]
          }
        ]
      },
      "note": {
        "ja": "EPC=0xD3, 0xE1の値を乗算済みの値",
        "en": "The value is multipled by the value of EPC=0xD3 and 0xE1."
      }
    },
    "normalDirectionCumulativeElectricEnergyLog1": {
      "epc": "0xE2",
      "epcAtomic": "0xE5",
      "descriptions": {
        "ja": "積算電力量計測値履歴1 (正方向計測値)",
        "en": "Historical data of measured cumulative amounts of electric energy 1 (normal
direction)"
      },
      "writable": false,
      "observable": false,
      "urlParameters": {
        "day": {
          "descriptions": {
            "ja": "積算履歴収集日",
            "en": "Day for which the historical data of measured cumulative amounts of
electric energy is to be retrieved"
          },
          "schema": {
            "type": "number",
            "minimum": 0,
            "maximum": 99
          },
          "required": false
        }
      },
      "schema": {
        "type": "object",
        "properties": {
          "day": {
            "descriptions": {
              "ja": "積算履歴収集日",
              "en": "Day for which the historical data of measured cumulative amounts of
electric energy is to be retrieved"
            },
            "oneOf": [
              {
                "type": "number",
                "minimum": 0,
                "maximum": 99
              },
              {
                "type": "string",
                "enum": [
                  "defaultValue"
                ],
```


©2018-2022 ECHONET Consortium

```
                "values": [
                  {
                    "value": "defaultValue",
                    "descriptions": {
                      "ja": "初期値",
                      "en": "Default value"
                    },
                    "edt": "0x00FF"
                  }
                ]
              }
            ]
          },
          "electricEnergy": {
            "descriptions": {
              "ja": "積算電力量計測値",
              "en": "Measured cumulative amounts of electric energy"
            },
            "type": "array",
            "minItems": 48,
            "maxItems": 48,
            "items": {
              "oneOf": [
                {
                  "type": "number",
                  "unit": "kWh",
                  "minimum": 0,
                  "coefficient": [
                    "0xD3",
                    "0xE1"
                  ]
                },
                {
                  "type": "string",
                  "enum": [
                    "noData"
                  ],
                  "values": [
                    {
                      "value": "noData",
                      "descriptions": {
                        "ja": "未計測",
                        "en": "Not measured"
                      },
                      "edt": "0xFFFFFFFE"
                    }
                  ]
                }
              ]
            }
          }
        }
      },
      "note": {
        "ja": "Queryは履歴収集日 (省略時は0)。電力量はEPC=0xD3, 0xE1の値を乗算済みの値",
        "en": "Query is Day for collection (default value is 0). Electric power is multipled
by EPC=0xD3 and 0xE1."
      }
    },
    "reverseDirectionCumulativeElectricEnergy": {
      "epc": "0xE3",
```


©2018-2022 ECHONET Consortium

```
        "descriptions": {
          "ja": "積算電力量計測値 (逆方向計測値)",
          "en": "Measured cumulative amount of electric energy (reverse direction)"
        },
        "writable": false,
        "observable": false,
        "schema": {
          "oneOf": [
            {
              "type": "number",
              "unit": "kWh",
              "minimum": 0,
              "coefficient": [
                "0xD3",
                "0xE1"
              ]
            },
            {
              "type": "string",
              "enum": [
                "noData"
              ],
              "values": [
                {
                  "value": "noData",
                  "descriptions": {
                    "ja": "未計測",
                    "en": "Not measured"
                  },
                  "edt": "0xFFFFFFFE"
                }
              ]
            }
          ]
        },
        "note": {
          "ja": "EPC=0xD3, 0xE1の値を乗算済みの値",
          "en": "The value is multipled by the value of EPC=0xD3 and 0xE1."
        }
      },
      "reverseDirectionCumulativeElectricEnergyLog1": {
        "epc": "0xE4",
        "epcAtomic": "0xE5",
        "descriptions": {
          "ja": "積算電力量計測値履歴1 (逆方向計測値)",
          "en": "Historical data of measured cumulative amounts of electric energy 1 (reverse
direction)"
        },
        "writable": false,
        "observable": false,
        "urlParameters": {
          "day": {
            "descriptions": {
              "ja": "積算履歴収集日",
              "en": "Day for which the historical data of measured cumulative amounts of
electric energy is to be retrieved"
            },
            "schema": {
              "type": "number",
              "minimum": 0,
              "maximum": 99
```


©2018-2022 ECHONET Consortium

```
            },
            "required": false
          }
        },
        "schema": {
          "type": "object",
          "properties": {
            "day": {
              "descriptions": {
                "ja": "積算履歴収集日",
                "en": "Day for which the historical data of measured cumulative amounts of
electric energy is to be retrieved"
              },
              "oneOf": [
                {
                  "type": "number",
                  "minimum": 0,
                  "maximum": 99
                },
                {
                  "type": "string",
                  "enum": [
                    "defaultValue"
                  ],
                  "values": [
                    {
                      "value": "defaultValue",
                      "descriptions": {
                        "ja": "初期値",
                        "en": "Default value"
                      },
                      "edt": "0x00FF"
                    }
                  ]
                }
              ]
            },
            "electricEnergy": {
              "descriptions": {
                "ja": "積算電力量計測値",
                "en": "Measured cumulative amounts of electric energy"
              },
              "type": "array",
              "minItems": 48,
              "maxItems": 48,
              "items": {
                "oneOf": [
                  {
                    "type": "number",
                    "unit": "kWh",
                    "minimum": 0,
                    "coefficient": [
                      "0xD3",
                      "0xE1"
                    ]
                  },
                  {
                    "type": "string",
                    "enum": [
                      "noData"
                    ],
```


©2018-2022 ECHONET Consortium

```
                    "values": [
                      {
                        "value": "noData",
                        "descriptions": {
                          "ja": "未計測",
                          "en": "Not measured"
                        },
                        "edt": "0xFFFFFFFE"
                      }
                    ]
                  }
                ]
              }
            }
          }
        },
        "note": {
          "ja": "Queryは履歴収集日 (省略時は0)。電力量はEPC=0xD3, 0xE1の値を乗算済みの値",
          "en": "Query is Day for collection (default value is 0). Electric power is multipled
by EPC=0xD3 and 0xE1."
        }
      },
      "instantaneousElectricPower": {
        "epc": "0xE7",
        "descriptions": {
          "ja": "瞬時電力計測値",
          "en": "Measured instantaneous electric power"
        },
        "writable": false,
        "observable": false,
        "schema": {
          "oneOf": [
            {
              "type": "number",
              "unit": "W",
              "minimum": -2147483647,
              "maximum": 2147483645
            },
            {
              "type": "string",
              "enum": [
                "noData"
              ],
              "values": [
                {
                  "value": "noData",
                  "descriptions": {
                    "ja": "未計測",
                    "en": "Not measured"
                  },
                  "edt": "0x7FFFFFFE"
                }
              ]
            }
          ]
        }
      },
      "instantaneousCurrent": {
        "epc": "0xE8",
        "descriptions": {
          "ja": "瞬時電流計測値",
```


©2018-2022 ECHONET Consortium

```
            "en": "Measured instantaneous currents"
          },
          "writable": false,
          "observable": false,
          "schema": {
            "type": "object",
            "properties": {
              "rPhase": {
                "descriptions": {
                  "ja": "R相",
                  "en": "R phase"
                },
                "oneOf": [
                  {
                    "type": "number",
                    "unit": "A",
                    "minimum": -3276.7,
                    "maximum": 3276.5,
                    "multipleOf": 0.1
                  },
                  {
                    "type": "string",
                    "enum": [
                      "noData"
                    ],
                    "values": [
                      {
                        "value": "noData",
                        "descriptions": {
                          "ja": "未計測",
                          "en": "Not measured"
                        },
                        "edt": "0x7FFE"
                      }
                    ]
                  }
                ]
              },
              "tPhase": {
                "descriptions": {
                  "ja": "T相",
                  "en": "T phase"
                },
                "oneOf": [
                  {
                    "type": "number",
                    "unit": "A",
                    "minimum": -3276.7,
                    "maximum": 3276.5,
                    "multipleOf": 0.1
                  },
                  {
                    "type": "string",
                    "enum": [
                      "noData"
                    ],
                    "values": [
                      {
                        "value": "noData",
                        "descriptions": {
                          "ja": "未計測",
```


©2018-2022 ECHONET Consortium

```
                        "en": "Not measured"
                      },
                      "edt": "0x7FFE"
                    }
                  ]
                }
              ]
            }
          }
        }
      }
    },
    "normalDirectionCumulativeElectricEnergyAtEvery30Min": {
      "epc": "0xEA",
      "descriptions": {
        "ja": "定時積算電力量計測値 (正方向計測値)",
        "en": "Cumulative amounts of electric energy measured at fixed time (normal
direction)"
      },
      "writable": false,
      "observable": false,
      "schema": {
        "type": "object",
        "properties": {
          "dateAndTime": {
            "descriptions": {
              "ja": "計測日時",
              "en": "Date and time of measurement"
            },
            "type": "string",
            "format": "date-time"
          },
          "electricEnergy": {
            "descriptions": {
              "ja": "積算電力量計測値",
              "en": "Cumulative amounts of electric energy measured"
            },
            "oneOf": [
              {
                "type": "number",
                "unit": "kWh",
                "minimum": 0,
                "coefficient": [
                  "0xD3",
                  "0xE1"
                ]
              },
              {
                "type": "string",
                "enum": [
                  "noData"
                ],
                "values": [
                  {
                    "value": "noData",
                    "descriptions": {
                      "ja": "未計測",
                      "en": "Not measured"
                    },
                    "edt": "0xFFFFFFFE"
                  }
                ]
```


©2018-2022 ECHONET Consortium

```
                }
              ]
            }
          }
        },
        "note": {
          "ja": "EPC=0xD3, 0xE1の値を乗算済みの値",
          "en": "The value is multipled by the value of EPC=0xD3 and 0xE1."
        }
      },
      "reverseDirectionCumulativeElectricEnergyAtEvery30Min": {
        "epc": "0xEB",
        "descriptions": {
          "ja": "定時積算電力量計測値 (逆方向計測値)",
          "en": "Cumulative amounts of electric energy measured at fixed time (reverse
direction)"
        },
        "writable": false,
        "observable": false,
        "schema": {
          "type": "object",
          "properties": {
            "dateAndTime": {
              "descriptions": {
                "ja": "計測日時",
                "en": "Date and time of measurement"
              },
              "type": "string",
              "format": "date-time"
            },
            "electricEnergy": {
              "descriptions": {
                "ja": "積算電力量計測値",
                "en": "Cumulative amounts of electric energy measured"
              },
              "oneOf": [
                {
                  "type": "number",
                  "unit": "kWh",
                  "minimum": 0,
                  "coefficient": [
                    "0xD3",
                    "0xE1"
                  ]
                },
                {
                  "type": "string",
                  "enum": [
                    "noData"
                  ],
                  "values": [
                    {
                      "value": "noData",
                      "descriptions": {
                        "ja": "未計測",
                        "en": "Not measured"
                      },
                      "edt": "0xFFFFFFFE"
                    }
                  ]
                }
```


©2018-2022 ECHONET Consortium

```
            ]
          }
        }
      },
      "note": {
        "ja": "EPC=0xD3, 0xE1の値を乗算済みの値",
        "en": "The value is multipled by the value of EPC=0xD3 and 0xE1."
      }
    },
    "cumulativeElectricEnergyLog2": {
      "epc": "0xEC",
      "epcAtomic": "0xED",
      "descriptions": {
        "ja": "積算電力量計測値履歴2 (正方向、逆方向計測値)",
        "en": "Historical data of measured cumulative amounts of electric energy 2 (normal
and reverse directions)"
      },
      "writable": false,
      "observable": false,
      "urlParameters": {
        "dateAndTime": {
          "descriptions": {
            "ja": "積算履歴収集日時",
            "en": "Date and time for which the historical data is to be retrieved"
          },
          "schema": {
            "type": "string",
            "format": "date-time"
          },
          "required": true
        },
        "numberOfCollectionSegments": {
          "descriptions": {
            "ja": "収集コマ数",
            "en": "Number of collection segments"
          },
          "schema": {
            "type": "number",
            "minimum": 1,
            "maximum": 12
          },
          "required": true
        }
      },
      "schema": {
        "type": "object",
        "properties": {
          "dateAndTime": {
            "descriptions": {
              "ja": "積算履歴収集日時",
              "en": "Date and time for which the historical data is to be retrieved"
            },
            "type": "string",
            "format": "date-time"
          },
          "numberOfCollectionSegments": {
            "descriptions": {
              "ja": "収集コマ数",
              "en": "Number of collection segments"
            },
            "type": "number",
```


©2018-2022 ECHONET Consortium

```
            "minimum": 1,
            "maximum": 12
          },
          "electricEnergy": {
            "descriptions": {
              "ja": "積算電力量計測値",
              "en": "Measured cumulative amounts of electric energy"
            },
            "type": "array",
            "maxItems": 12,
            "items": {
              "type": "object",
              "properties": {
                "normalDirectionElectricEnergy": {
                  "oneOf": [
                    {
                      "type": "number",
                      "unit": "kWh",
                      "minimum": 0,
                      "coefficient": [
                        "0xD3",
                        "0xE1"
                      ]
                    },
                    {
                      "type": "string",
                      "enum": [
                        "noData"
                      ],
                      "values": [
                        {
                          "value": "noData",
                          "descriptions": {
                            "ja": "未計測",
                            "en": "Not measured"
                          },
                          "edt": "0xFFFFFFFE"
                        }
                      ]
                    }
                  ]
                },
                "reverseDirectionElectricEnergy": {
                  "oneOf": [
                    {
                      "type": "number",
                      "unit": "kWh",
                      "minimum": 0,
                      "coefficient": [
                        "0xD3",
                        "0xE1"
                      ]
                    },
                    {
                      "type": "string",
                      "enum": [
                        "noData"
                      ],
                      "values": [
                        {
                          "value": "noData",
```


©2018-2022 ECHONET Consortium

```
                            "descriptions": {
                              "ja": "未計測",
                              "en": "Not measured"
                            },
                            "edt": "0xFFFFFFFE"
                          }
                        ]
                      }
                    ]
                  }
                }
              }
            }
          }
        },
        "note": {
          "ja": "Queryは日時と収集コマ数。秒の値は0、分の値は0または30。電力量はEPC=0xD3, 0xE1の値を乗算済み
の値",
          "en": "Query is data&time and Number of collection segments. Value of seconds is 0
and value of minutes is 0 or 30. Electric energy is multipled by EPC=0xD3 and 0xE1."
        }
      }
    }
  }
```


©2018-2022 ECHONET Consortium

High-voltage smart electric energy meter: hvSmartElectricEnergyMeter: 0x028A

Back to the List of Devices

Note to Server:
The following ECHONET Lite properties shall be actual values, by multiplying the value obtained with ECHONET Lite with the coefficient (EPC=0xD3), multiplying factor for coefficient (EPC=0xD4), and the unit for cumulative amounts of active electric energy (EPC=0xE6). The server side shall perform this calculation. Therefore, the ECHONET Lite Web API can use acquired values without modification.

For the following properties, "maximum" and "multipleOf" can be added to the data schema as a response to /devices/<deviceId>. When "maximum" is added, the value is obtained from the number of effective digits for cumulative amount of active electric energy (EPC=0xE5) multiplied by coefficient (EPC=0xD3), multiplying factor for coefficient (EPC=0xD4) and unit for cumulative amounts of active electric energy (EPC=0xE6). When "multipleOf" is added, the value is obtained by multiplying coefficient (EPC=0xD3), multiplying factor for coefficient (EPC=0xD4), and unit for cumulative amounts of active electric energy (EPC=0xE6). In either case, the server side shall perform these calculations and setting.

- Measured cumulative amounts of active electric energy
- Cumulative amounts of active electric energy at fixed time
- Measurement data of cumulative amounts of active electric energy for power factor measurement
- Historical data of measured cumulative amount of active electric energy

Ex.:

```
Measured cumulative amount of active electric energy (EPC=0xE2): 0x00BC614E (12345678)
Coefficient (EPC=0xD3): 0x00000001 (1 time)
Multiplying factor for coefficient (EPC=0xD4): 0x00 (1 time)
Unit for cumulative amounts of active electric energy (EPC=0xE6): 0x01 (0.1 kWh)
Number of effective digits for cumulative amount of active electric energy (EPC=0xE5): 0x08 (8
digits = maximum measured value 99999999)
    Actual measured cumulative amount of active electric energy: 12345678 * 1 * 1 * 0.1 =
1234567.8 [kWh]
    Value of "maximum": 99999999 * 1 * 1 * 0.1 = 9999999.9
    Value of "multipleOf": 1 * 1 * 0.1 = 0.1
```

The following ECHONET Lite properties shall be actual values, by multiplying the value obtained with ECHONET Lite with coefficient (EPC=0xD3), multiplying factor for coefficient (EPC=0xD4), and unit of electric power demand (EPC=0xC5). The server side shall perform this calculation. Therefore, the ECHONET Lite Web API can use acquired values without modification. For the following properties, "maximum" and "multipleOf" can be added to the data schema as a response to /devices/<deviceId>. When "maximum" is added, the value is obtained from the number of effective digits of electric power demand (EPC=0xC4) multiplied by coefficient (EPC=0xD3), multiplying factor for coefficient (EPC=0xD4), and unit of electric power demand (EPC=0xC5). When "multipleOf" is added, the value is obtained by multiplying coefficient (EPC=0xD3), multiplying factor for coefficient (EPC=0xD4), and unit of electric power demand (EPC=0xC5). In either case, the server side shall perform these calculations and setting.

- Monthly maximum electric power demand

©2018-2022 ECHONET Consortium

- Electric power demand at fixed time (30-minute average electric power)
- Historical data of measured electric power demand

Ex.:

```
Monthly maximum electric power demand (EPC=0xC1): 0x00BC614E (12345678)
Coefficient (EPC=0xD3) : 0x00000001 (1 time)
Multiplying factor for `coefficient` (EPC=0xD4): 0x00 (1 time)
Unit of electric power demand (EPC=0xC5): 0x01 (0.1 kW)
Number of effective digits of electric power demand (EPC=0xC4): 0x08 (8 digits = maximum
measured value 99999999)
    Actual monthly maximum electric power demand: 12345678 * 1 * 1 * 0.1 = 1234567.8 [kW]
    Value of "maximum:" 99999999 * 1 * 1 * 0.1 = 9999999.9
    Value of "multipleOf": 1 * 1 * 0.1 = 0.1
```

The following ECHONET Lite properties shall be actual values, by multiplying the value obtained with ECHONET Lite with the coefficient (EPC=0xD3), multiplying factor for coefficient (EPC=0xD4), and unit of cumulative maximum electric power demand (EPC=0xC7). The server side shall perform this calculation. Therefore, the ECHONET Lite Web API can use acquired values without modification.
For the following properties, ″maximum″ and ″multipleOf" can be added to the data schema as a response to /devices/\<deviceId\>. When "maximum" is added, the value is obtained from the number of effective digits of electric power demand (EPC=0xC4) multiplied by coefficient (EPC=0xD3), multiplying factor for coefficient (EPC=0xD4), and unit of cumulative maximum electric power demand (EPC=0xC7). When "multipleOf`″ is added, the value is obtained by multiplying coefficient (EPC=0xD3), multiplying factor for coefficient (EPC=0xD4), and unit of cumulative maximum electric power demand (EPC=0xC7). In either case, the server side shall perform these calculations and setting.

- Cumulative maximum electric power demand

Ex.:

```
Cumulative maximum electric power demand (EPC=0xC2): 0x00BC614E (12345678)
Coefficient (EPC=0xD3): 0x00000001 (1 time)
Multiplying factor for coefficient (EPC=0xD4): 0x00 (1 time)
Unit of cumulative maximum electric power demand (EPC=0xC7): 0x01 (0.1 kW)
Number of effective digits of electric power demand (EPC=0xC4): 0x08 (8 digits = maximum
measured value 99999999)
    Actual cumulative maximum electric power demand: 12345678 * 1 * 1 * 0.1 = 1234567.8 [kW]
    Value of "maximum": 99999999 * 1 * 1 * 0.1 = 9999999.9
    Value of "multipleOf": 1 * 1 * 0.1 = 0.1
```

The following ECHONET Lite properties shall be actual values, by multiplying the value obtained with ECHONET Lite with the coefficient (EPC=0xD3), multiplying factor for coefficient (EPC=0xD4), and unit of measurement data of cumulative amount of reactive electric power consumption (lag) (EPC=0xCD). The server side shall perform this calculation. Therefore, the ECHONET Lite Web API can use acquired values without modification.
For the following properties, ″maximum″ and ″multipleOf″ can be added to the data schema as a response to /devices/<deviceId>. When ″maximum″ is added, the value is obtained by multiplying the value obtained from

©2018-2022 ECHONET Consortium

the number of effective digits for measurement data of cumulative amount of reactive electric power consumption (lag) for power factor measurement (EPC=0xCC) by coefficient (EPC=0xD3), multiplying factor for coefficient (EPC = 0xD4), and unit of measurement data of cumulative amount of reactive electric power consumption (lag) (EPC=0xCD). When "multipleOf" is added, the value is obtained by multiplying the coefficient (EPC=0xD3), multiplying factor for coefficient (EPC=0xD4), and unit of measurement data of cumulative amount of reactive electric power consumption (lag) (EPC=0xCD). In either case, the server side shall perform these calculations and setting.

- Measurement data of cumulative amount of reactive electric power consumption (lag) for power factor measurement
- Measurement data of cumulative amount of reactive electric power consumption (lag) at fixed time for power factor measurement
- Historical data of measurement data of cumulative amount of reactive electric power consumption (lag) for power factor measurement

Ex.:

```
Measurement data of cumulative amount of reactive electric power consumption (lag) for power
factor measurement (EPC=0xCA): 0x00BC614E (12345678)
Coefficient (EPC=0xD3): 0x00000001 (1 time)
Multiplying factor for coefficient (EPC=0xD4): 0x00 (1 time)
Unit of measurement data of cumulative amount of reactive electric power consumption (lag)
(EPC=0xCD): 0x01 (0.1 kvarh)
Number of effective digits for measurement data of cumulative amount of reactive electric power
consumption (lag) for power factor measurement (EPC=0xCC): 0x08 (8 digits = maximum measured
value 99999999)
    Actual cumulative amount of reactive electric power consumption for power factor
measurement: 12345678 * 1 * 1 * 0.1 = 1234567.8 [kvarh]
    Value of maximum: 99999999 * 1 * 1 * 0.1 = 9999999.9
    Value of multipleOf: 1 * 1 * 0.1 = 0.1
```

The following ECHONET Lite properties need to set "day for which the historical data of measured cumulative amounts of electric energy is to be retrieved (EPC=0xE1)" before getting data with ECHONET Lite. The ECHONET Lite Web API designates the value of "day for which the historical data of measured cumulative amounts of electric energy is to be retrieved" as a query when getting (REST) the following properties. Server gets "historical data of measured electric power demand" or "historical data of measured cumulative amount of active electric energy" with ECHONET Lite, after setting "day for which the historical data of measured cumulative amounts of electric energy is to be retrieved". Note that if you are not adding a query with the ECHONET Lite Web API, then handle "day for which the historical data of measured cumulative amounts of electric energy is to be retrieved" as "0".

- Historical data of measured electric power demand
- Historical data of measurement data of cumulative amount of reactive electric power consumption (lag) for power factor measurement
- Historical data of measured cumulative amount of active electric energy

Properties

©2018-2022 ECHONET Consortium

Property Resource Name	Access Method	Data Type	EPC (EL)	Property name (EL)	Note
monthlyMaximumElectricPowerDemand	GET	number, string	0xC1	Monthly maximum electric power demand	
cumulativeMaximumElectricPowerDemand	GET	number	0xC2	Cumulative maximum electric power demand	
averageElectricPowerDemand	GET	object	0xC3	Electric power demand at fixed time (30-minute average electric power)	
electricPowerDemandLog	GET	object	0xC6	Historical data of measured electric power demand	*1
cumulativeReactiveElectricEnergy	GET	object	0xCA	Measurement data of reactive electric power consumption (lag) for power factor measurement	
cumulativeReactiveElectricEnergyAtEvery30Min	GET	object	0xCB	Measurement data of cumulative amount of reactive electric power consumption (lag) at fixed time for power factor measurement	
cumulativeReactiveElectricEnergyLog	GET	object	0xCE	Historical data of measurement data of cumulative amount of reactive electric power consumption (lag) for power factor measurement	*1
fixedDate	GET	number	0xE0	Fixed date	

©2018-2022 ECHONET Consortium

Property Resource Name	Access Method	Data Type	EPC (EL)	Property name (EL)	Note
cumulativeActiveElectricEnergy	GET	object	0xE2	Measured cumulative amounts of active electric energy	
cumulativeActiveElectricEnergyAtEvery30Min	GET	object	0xE3	Cumulative amounts of active electric energy at fixed time	
cumulativeActiveElectricEnergyForPowerFactor	GET	object	0xE4	Measurement data of cumulative amounts of active electric energy for power factor measurement	
activeElectricEnergyLog	GET	object	0xE7	Historical data of measured cumulative amount of active electric energy	*1

*1 With query

Device Description

```
{
  "deviceType": "hvSmartElectricEnergyMeter",
  "metaData": {
    "version": "1.4.0"
  },
  "eoj": "0x028A",
  "descriptions": {
    "ja": "高圧スマート電力量メータ",
    "en": "High-voltage smart electric energy meter"
  },
  "properties": {
    "monthlyMaximumElectricPowerDemand": {
      "epc": "0xC1",
      "descriptions": {
        "ja": "月間最大需要電力",
        "en": "Monthly maximum electric power demand"
      },
      "writable": false,
      "observable": false,
      "schema": {
        "oneOf": [
          {
            "type": "number",
```


©2018-2022 ECHONET Consortium

```
              "unit": "kW",
              "minimum": 0
            },
            {
              "type": "string",
              "enum": [
                "noData"
              ],
              "values": [
                {
                  "value": "noData",
                  "descriptions": {
                    "ja": "未計測",
                    "en": "Not measured"
                  },
                  "edt": "0xFFFFFFFE"
                }
              ]
            }
          ]
        },
        "note": {
          "ja": "EPC=0xC5, 0xD3, 0xD4 の値を乗算済みの値",
          "en": "The value is multipled by the value of EPC=0xC5, 0xD3 and 0xD4."
        }
      },
      "cumulativeMaximumElectricPowerDemand": {
        "epc": "0xC2",
        "descriptions": {
          "ja": "累積最大需要電力",
          "en": "Cumulative maximum electric power demand"
        },
        "writable": false,
        "observable": false,
        "schema": {
          "type": "number",
          "unit": "kW",
          "minimum": 0
        },
        "note": {
          "ja": "EPC=0xC7, 0xD3, 0xD4 の値を乗算済みの値",
          "en": "The value is multipled by the value of EPC=0xC7, 0xD3 and 0xD4."
        }
      },
      "averageElectricPowerDemand": {
        "epc": "0xC3",
        "descriptions": {
          "ja": "定時需要電力 (30分平均電力)",
          "en": "Electric power demand at fixed time (30-minute average electric power)"
        },
        "writable": false,
        "observable": false,
        "schema": {
          "type": "object",
          "properties": {
            "dateAndTime": {
              "descriptions": {
                "ja": "計測日時",
                "en": "Date and time of measurement"
              },
              "type": "string",
```


©2018-2022 ECHONET Consortium

```
              "format": "date-time"
            },
            "electricPower": {
              "descriptions": {
                "ja": "需要電力",
                "en": "Electric Power demand"
              },
              "oneOf": [
                {
                  "type": "number",
                  "unit": "kW",
                  "minimum": 0
                },
                {
                  "type": "string",
                  "enum": [
                    "noData"
                  ],
                  "values": [
                    {
                      "value": "noData",
                      "descriptions": {
                        "ja": "未計測",
                        "en": "Not measured"
                      },
                      "edt": "0xFFFFFFFE"
                    }
                  ]
                }
              ]
            }
          }
        },
        "note": {
          "ja": "EPC=0xC5, 0xD3, 0xD4 の値を乗算済みの値",
          "en": "The value is multipled by the value of EPC=0xC5, 0xD3 and 0xD4."
        }
      },
      "electricPowerDemandLog": {
        "epc": "0xC6",
        "epcAtomic": "0xE1",
        "descriptions": {
          "ja": "需要電力計測値履歴",
          "en": "Historical data of measured electric power demand"
        },
        "writable": false,
        "observable": false,
        "urlParameters": {
          "day": {
            "descriptions": {
              "ja": "積算履歴収集日",
              "en": "Day for which the historical data of measured cumulative amounts of
electric energy is to be retrieved"
            },
            "schema": {
              "type": "number",
              "minimum": 0,
              "maximum": 99
            },
            "required": false
          }
```


©2018-2022 ECHONET Consortium

```
        },
        "schema": {
          "type": "object",
          "properties": {
            "day": {
              "descriptions": {
                "ja": "積算履歴収集日",
                "en": "Day for which the historical data of measured cumulative amounts of
electric energy is to be retrieved"
              },
              "oneOf": [
                {
                  "type": "number",
                  "minimum": 0,
                  "maximum": 99
                },
                {
                  "type": "string",
                  "enum": [
                    "defaultValue"
                  ],
                  "values": [
                    {
                      "value": "defaultValue",
                      "descriptions": {
                        "ja": "初期値",
                        "en": "Default value"
                      },
                      "edt": "0x00FF"
                    }
                  ]
                }
              ]
            },
            "electricPower": {
              "descriptions": {
                "ja": "需要電力",
                "en": "Electric power demand"
              },
              "type": "array",
              "minItems": 48,
              "maxItems": 48,
              "items": {
                "oneOf": [
                  {
                    "type": "number",
                    "unit": "kW",
                    "minimum": 0
                  },
                  {
                    "type": "string",
                    "enum": [
                      "noData"
                    ],
                    "values": [
                      {
                        "value": "noData",
                        "descriptions": {
                          "ja": "未計測",
                          "en": "Not measured"
                        },
```


©2018-2022 ECHONET Consortium

```
                        "edt": "0xFFFFFFFE"
                      }
                    ]
                  }
                ]
              }
            }
          }
        },
        "note": {
          "ja": "Queryは履歴収集日 (省略時は0)。電力はEPC=0xC5, 0xD3, 0xD4 の値を乗算済みの値",
          "en": "Query is Day for collection (default value is 0). Electric power is multipled
by the value of EPC=0xC5, 0xD3 and 0xD4."
        }
      },
      "cumulativeReactiveElectricEnergy": {
        "epc": "0xCA",
        "descriptions": {
          "ja": "力測積算無効電力量 (遅れ)計測値",
          "en": "Measurement data of reactive electric power consumption (lag) for power factor
measurement"
        },
        "writable": false,
        "observable": false,
        "schema": {
          "type": "object",
          "properties": {
            "dateAndTime": {
              "descriptions": {
                "ja": "計測日時",
                "en": "Date and time of measurement"
              },
              "type": "string",
              "format": "date-time"
            },
            "reactiveElectricEnergy": {
              "descriptions": {
                "ja": "積算無効電力量 (遅れ)",
                "en": "Cumulative amount of reactive electric power consumption (lag)"
              },
              "oneOf": [
                {
                  "type": "number",
                  "unit": "kvarh",
                  "minimum": 0,
                  "coefficient": [
                    "0xCD",
                    "0xD3",
                    "0xD4"
                  ]
                },
                {
                  "type": "string",
                  "enum": [
                    "noData"
                  ],
                  "values": [
                    {
                      "value": "noData",
                      "descriptions": {
                        "ja": "未計測",
```


©2018-2022 ECHONET Consortium

```
                        "en": "Not measured"
                      },
                      "edt": "0xFFFFFFFE"
                    }
                  ]
                }
              ]
            }
          }
        },
        "note": {
          "ja": "EPC=0xCD, 0xD3, 0xD4 の値を乗算済みの値",
          "en": "The value is multipled by the value of EPC=0xCD, 0xD3 and 0xD4."
        }
      },
      "cumulativeReactiveElectricEnergyAtEvery30Min": {
        "epc": "0xCB",
        "descriptions": {
          "ja": "定時力測積算無効電力量 (遅れ)計測値",
          "en": "Measurement data of cumulative amount of reactive electric power consumption
(lag) at fixed time for power factor measurement"
        },
        "writable": false,
        "observable": false,
        "schema": {
          "type": "object",
          "properties": {
            "dateAndTime": {
              "descriptions": {
                "ja": "計測日時",
                "en": "Date and time of measurement"
              },
              "type": "string",
              "format": "date-time"
            },
            "reactiveElectricEnergy": {
              "descriptions": {
                "ja": "積算無効電力量 (遅れ)",
                "en": "Cumulative amount of reactive electric power consumption (lag)"
              },
              "oneOf": [
                {
                  "type": "number",
                  "unit": "kvarh",
                  "minimum": 0,
                  "coefficient": [
                    "0xCD",
                    "0xD3",
                    "0xD4"
                  ]
                },
                {
                  "type": "string",
                  "enum": [
                    "noData"
                  ],
                  "values": [
                    {
                      "value": "noData",
                      "descriptions": {
                        "ja": "未計測",
```


©2018-2022 ECHONET Consortium

```
                        "en": "Not measured"
                      },
                      "edt": "0xFFFFFFFE"
                    }
                  ]
                }
              ]
            }
          }
        },
        "note": {
          "ja": "EPC=0xCD, 0xD3, 0xD4 の値を乗算済みの値",
          "en": "The value is multipled by the value of EPC=0xCD, 0xD3 and 0xD4."
        }
      },
      "cumulativeReactiveElectricEnergyLog": {
        "epc": "0xCE",
        "epcAtomic": "0xE1",
        "descriptions": {
          "ja": "力測積算無効電力量 (遅れ)計測値履歴",
          "en": "Historical data of measurement data of cumulative amount of reactive electric
power consumption (lag) for power factor measurement"
        },
        "writable": false,
        "observable": false,
        "urlParameters": {
          "day": {
            "descriptions": {
              "ja": "積算履歴収集日",
              "en": "Day for which the historical data of measured cumulative amounts of
electric energy is to be retrieved"
            },
            "schema": {
              "type": "number",
              "minimum": 0,
              "maximum": 99
            },
            "required": false
          }
        },
        "schema": {
          "type": "object",
          "properties": {
            "day": {
              "descriptions": {
                "ja": "積算履歴収集日",
                "en": "Day for which the historical data of measured cumulative amounts of
electric energy is to be retrieved"
              },
              "oneOf": [
                {
                  "type": "number",
                  "minimum": 0,
                  "maximum": 99
                },
                {
                  "type": "string",
                  "enum": [
                    "defaultValue"
                  ],
                  "values": [
```


©2018-2022 ECHONET Consortium

```
                    {
                      "value": "defaultValue",
                      "descriptions": {
                        "ja": "初期値",
                        "en": "Default value"
                      },
                      "edt": "0x00FF"
                    }
                  ]
                }
              ]
            },
            "reactiveElectricEnergy": {
              "descriptions": {
                "ja": "積算無効電力量 (遅れ)",
                "en": "Measurement data of cumulative amount of reactive electric power
consumption (lag)"
              },
              "type": "array",
              "minItems": 48,
              "maxItems": 48,
              "items": {
                "oneOf": [
                  {
                    "type": "number",
                    "unit": "kvarh",
                    "minimum": 0,
                    "coefficient": [
                      "0xCD",
                      "0xD3",
                      "0xD4"
                    ]
                  },
                  {
                    "type": "string",
                    "enum": [
                      "noData"
                    ],
                    "values": [
                      {
                        "value": "noData",
                        "descriptions": {
                          "ja": "未計測",
                          "en": "Not measured"
                        },
                        "edt": "0xFFFFFFFE"
                      }
                    ]
                  }
                ]
              }
            }
          }
        },
        "note": {
          "ja": "Queryは履歴収集日 (省略時は0)。電力量はEPC=0xCD, 0xD3, 0xD4 の値を乗算済みの値",
          "en": "Query is Day for collection (default value is 0). Electric power is multipled
by the value of EPC=0xCD, 0xD3 and 0xD4."
        }
      },
      "fixedDate": {
```


©2018-2022 ECHONET Consortium

```
        "epc": "0xE0",
        "descriptions": {
          "ja": "確定日",
          "en": "Fixed date"
        },
        "writable": false,
        "observable": false,
        "schema": {
          "type": "number",
          "minimum": 1,
          "maximum": 31
        }
      },
      "cumulativeActiveElectricEnergy": {
        "epc": "0xE2",
        "descriptions": {
          "ja": "積算有効電力量計測値",
          "en": "Measured cumulative amounts of active electric energy"
        },
        "writable": false,
        "observable": false,
        "schema": {
          "type": "object",
          "properties": {
            "dateAndTime": {
              "descriptions": {
                "ja": "計測日時",
                "en": "Date and time of measurement"
              },
              "type": "string",
              "format": "date-time"
            },
            "activeElectricEnergy": {
              "descriptions": {
                "ja": "積算有効電力量",
                "en": "Cumulative amount of active electric energy"
              },
              "oneOf": [
                {
                  "type": "number",
                  "unit": "kWh",
                  "minimum": 0,
                  "coefficient": [
                    "0xD3",
                    "0xD4",
                    "0xE6"
                  ]
                },
                {
                  "type": "string",
                  "enum": [
                    "noData"
                  ],
                  "values": [
                    {
                      "value": "noData",
                      "descriptions": {
                        "ja": "未計測",
                        "en": "Not measured"
                      },
                      "edt": "0xFFFFFFFE"
```


©2018-2022 ECHONET Consortium

```
                    }
                  ]
                }
              ]
            }
          }
        },
        "note": {
          "ja": "EPC=0xD3, 0xD4, 0xE6の値を乗算した値である",
          "en": "This value is multipled by the value of EPC=0xD3, 0xD4 and 0xE6."
        }
      },
      "cumulativeActiveElectricEnergyAtEvery30Min": {
        "epc": "0xE3",
        "descriptions": {
          "ja": "定時積算有効電力量計測値",
          "en": "Cumulative amounts of active electric energy at fixed time"
        },
        "writable": false,
        "observable": false,
        "schema": {
          "type": "object",
          "properties": {
            "dateAndTime": {
              "descriptions": {
                "ja": "計測日時",
                "en": "Date and time of measurement"
              },
              "type": "string",
              "format": "date-time"
            },
            "activeElectricEnergy": {
              "descriptions": {
                "ja": "積算有効電力量",
                "en": "Cumulative amount of active electric energy"
              },
              "oneOf": [
                {
                  "type": "number",
                  "unit": "kWh",
                  "minimum": 0,
                  "coefficient": [
                    "0xD3",
                    "0xD4",
                    "0xE6"
                  ]
                },
                {
                  "type": "string",
                  "enum": [
                    "noData"
                  ],
                  "values": [
                    {
                      "value": "noData",
                      "descriptions": {
                        "ja": "未計測",
                        "en": "Not measured"
                      },
                      "edt": "0xFFFFFFFE"
                    }
```


©2018-2022 ECHONET Consortium

```
                ]
              }
            ]
          }
        }
      },
      "note": {
        "ja": "EPC=0xD3, 0xD4, 0xE6の値を乗算した値である",
        "en": "This value is the result of multiplying the value of EPC=0xD3, 0xD4 and 0xE6."
      }
    },
    "cumulativeActiveElectricEnergyForPowerFactor": {
      "epc": "0xE4",
      "descriptions": {
        "ja": "力測積算有効電力量計測値",
        "en": "Measurement data of cumulative amounts of active electric energy for power
factor measurement"
      },
      "writable": false,
      "observable": false,
      "schema": {
        "type": "object",
        "properties": {
          "dateAndTime": {
            "descriptions": {
              "ja": "計測日時",
              "en": "Date and time of measurement"
            },
            "type": "string",
            "format": "date-time"
          },
          "activeElectricEnergy": {
            "descriptions": {
              "ja": "積算有効電力量",
              "en": "Cumulative amount of active electric energy"
            },
            "oneOf": [
              {
                "type": "number",
                "unit": "kWh",
                "minimum": 0,
                "coefficient": [
                  "0xD3",
                  "0xD4",
                  "0xE6"
                ]
              },
              {
                "type": "string",
                "enum": [
                  "noData"
                ],
                "values": [
                  {
                    "value": "noData",
                    "descriptions": {
                      "ja": "未計測",
                      "en": "Not measured"
                    },
                    "edt": "0xFFFFFFFE"
                  }
```


©2018-2022 ECHONET Consortium

```
                ]
              }
            ]
          }
        }
      },
      "note": {
        "ja": "EPC=0xD3, 0xD4, 0xE6の値を乗算した値である",
        "en": "This value is the result of multiplying the value of EPC=0xD3, 0xD4 and 0xE6."
      }
    },
    "activeElectricEnergyLog": {
      "epc": "0xE7",
      "epcAtomic": "0xE1",
      "descriptions": {
        "ja": "積算有効電力量計測値履歴",
        "en": "Historical data of measured cumulative amount of active electric energy"
      },
      "writable": false,
      "observable": false,
      "urlParameters": {
        "day": {
          "descriptions": {
            "ja": "積算履歴収集日",
            "en": "Day for which the historical data of measured cumulative amounts of
electric energy is to be retrieved"
          },
          "schema": {
            "type": "number",
            "minimum": 0,
            "maximum": 99
          },
          "required": false
        }
      },
      "schema": {
        "type": "object",
        "properties": {
          "day": {
            "descriptions": {
              "ja": "積算履歴収集日",
              "en": "Day for which the historical data of measured cumulative amounts of
electric energy is to be retrieved"
            },
            "oneOf": [
              {
                "type": "number",
                "minimum": 0,
                "maximum": 99
              },
              {
                "type": "string",
                "enum": [
                  "defaultValue"
                ],
                "values": [
                  {
                    "value": "defaultValue",
                    "descriptions": {
                      "ja": "初期値",
                      "en": "Default value"
```


©2018-2022 ECHONET Consortium

```
                    },
                    "edt": "0x00FF"
                  }
                ]
              }
            ]
          },
          "activeElectricEnergy": {
            "descriptions": {
              "ja": "積算有効電力量",
              "en": "Measured cumulative amount of active electric energy"
            },
            "type": "array",
            "minItems": 48,
            "maxItems": 48,
            "items": {
              "oneOf": [
                {
                  "type": "number",
                  "unit": "kWh",
                  "minimum": 0,
                  "coefficient": [
                    "0xD3",
                    "0xD4",
                    "0xE6"
                  ]
                },
                {
                  "type": "string",
                  "enum": [
                    "noData"
                  ],
                  "values": [
                    {
                      "value": "noData",
                      "descriptions": {
                        "ja": "未計測",
                        "en": "Not measured"
                      },
                      "edt": "0xFFFFFFFE"
                    }
                  ]
                }
              ]
            }
          }
        }
      },
      "note": {
        "ja": "Queryは履歴収集日 (省略時は0)。電力量はEPC=0xD3, 0xD4, 0xE6 の値を乗算済みの値",
        "en": "Query is Day for collection (default value is 0). Electric power is multipled
by the value of EPC=0xD3, 0xD4 and 0xE6."
      }
    }
  }
}
```


©2018-2022 ECHONET Consortium

Smart electric energy meter for sub-metering: smartElectricEnergySubMeter: 0x028D

Back to the List of Devices

Note to Server:
For the following ECHONET Lite properties, the actual values is that multiplying the value obtained with ECHONET Lite by the electric power coefficient (EPC=0xD3) and the unit for cumulative amount of electric energy (normal and reverse directions)(EPC=0xD4). The server side shall perform this calculation. Therefore, the client can use the values obtained via the ECHONET Lite Web API as they are. . For the following properties, "maximum" and "multipleOf" may be added to the data schema as a response to /devices/<deviceId>. When "maximum" is added, the value is obtained from the number of effective digits for cumulative amounts of electric energy (EPC=0xD7) multiplied by the electric power coefficient (EPC=0xD3) and unit for cumulative amount of electric energy (normal and reverse directions) (EPC=0xD4). When "multipleOf" is added, the value is obtained by multiplying the electric power coefficient (EPC=0xD3) and unit for cumulative amount of electric energy (normal and reverse directions) (EPC=0xD4). In either case, the server side shall perform these calculations and setting.

- Measured cumulative amount of electric energy (normal direction)
- Historical data of measured cumulative amount of electric energy (normal direction)
- Measured cumulative amount of electric energy (reverse direction)
- Historical data of measured cumulative amount of electric energy (reverse direction)
- Cumulative amount of electric energy measured at a fixed time (normal direction)
- Cumulative amount of electric energy measured at a fixed time (reverse direction)

Ex.:

```
Measured cumulative amount of electric energy (normal direction) (EPC=0xE1):  0x0012D687
(1234567)
Electric power coefficient (EPC=0xD3):  0x000012C0 (4800 times)
Unit for cumulative amounts of electric energy (normal and reverse directions)  (EPC=0xD4):
0x03 (0.001kWh)
Number of effective digits for cumulative amount of electric energy (EPC=0xD7): when 0x07 (7
digits=maximum measured value 9999999)
    Actual cumulative amount of electric energy:  1234567 * 4800 * 0.001 = 5925921.6 [kWh]
    Value of "maximum": 9999999 * 4800 * 0.001 = 47999995.2
    Value of "multipleOf": 4800  * 0.001 = 4.8
```

For the following ECHONET Lite properties, the actual values is that multiplying the value obtained with ECHONET Lite by the electric power coefficient (EPC=0xD3). The server side shall perform this calculation. Therefore, the client can use the values obtained via the ECHONET Lite Web API as they are. For the following properties, "minimum", "maximum" and "multipleOf" may be added to the data schema as a response to /devices/<deviceId>. When "minimum" is added, the value is that obtained by multiplying -2147483647 by the electric power coefficient (EPC=0xD3). When "maximum" is added, the value is that obtained by multiplying 2147483645 by the electric power coefficient (EPC=0xD3). When "multipleOf" is added, the value is the electric power coefficient (EPC=0xD3). In either case, the server side shall perform these calculations and setting.

©2018-2022 ECHONET Consortium

- Measured instantaneous electric power

Ex.:

```
Measured instantaneous electric power (EPC=0xE7)  : 0x0012D687 (1234567)
Electric power coefficient (EPC=0xD3)        : when 0x0000000A (10 times)
    Actual instantaneous electric power:  1234567 * 1 * 10 = 12345670 [W]
    Value of "minimum":     -2147483647 * 10 = -21474836470
    Value of "maximum":     2147483645 * 10 = 21474836450
    Value of "multipleOf":  10
```

For the following ECHONET Lite properties, the actual values is that multiplying the value obtained with ECHONET Lite by unit (0.1A) and the electric current coefficient (EPC=0xD8). The server side shall perform this calculation. Therefore, the ECHONET Lite Web API can use acquired values without modification. For the following properties, "minimum", "maximum" and "multipleOf" may be added to the data schema as a response to /devices/<deviceId>. When "minimum" is added, the value is that obtained by multiplying -3276.7 by the electric current coefficient (EPC=0xD8). When "maximum" is added, the value is that obtained by multiplying 3276.5 by the electric current coefficient (EPC=0xD8). When "multipleOf" is added, the value is that obtained by multiplying 0.1 by the electric current coefficient (EPC=0xD8). In either case, the server side shall perform these calculations and setting.

- Measured instantaneous currents

Ex.:

```
Measured instantaneous currents (EPC=0xE8)  : 0x04D2 (1234)
Electric current coefficient (EPC=0xD8)        : when 0x0005 (5 times)
    Actual instantaneous currents:  1234 * 0.1 * 5 = 617 [A]
    Value of "minimum":     -3276.7 * 5 = -16383.5
    Value of "maximum":     3276.5 * 5 = 16382.5
    Value of "multipleOf":  0.1 * 5 = 0.5
```

For the following ECHONET Lite properties, the actual values is that multiplying the value obtained with ECHONET Lite by unit (0.1V) and the voltage coefficient (EPC=0xD9). The server side shall perform this calculation. Therefore, the ECHONET Lite Web API can use acquired values without modification. For the following properties, "maximum" and "multipleOf" may be added to the data schema as a response to /devices/<deviceId>. When "maximum" is added, the value is that obtained by multiplying 6553.3 by the voltage coefficient (EPC=0xD9). When "multipleOf" is added, the value is that obtained by multiplying 0.1 by the voltage coefficient (EPC=0xD9). In either case, the server side shall perform these calculations and setting.

- Measured instantaneous voltages

Ex.:

```
Measured instantaneous voltages (EPC=0xE9)  : 0x04D2 (1234)
Voltage coefficient (EPC=0xD9)        : when 0x0005 (5 times)
```


©2018-2022 ECHONET Consortium

```
    Actual instantaneous voltages:  1234 * 0.1 * 5 = 617 [A]
    Value of "maximum":     6553.3 * 5 = 32766.5
    Value of "multipleOf":  0.1 * 5 = 0.5
```

The following ECHONET Lite properties need to set "Day on which the historical data of measured cumulative amount of electric energy is to be retrieved (EPC=0xE0)" before getting data with ECHONET Lite. ECHONET Lite Web API designates the value of " Day on which the historical data of measured cumulative amount of electric energy is to be retrieved" as a query, when getting (REST) the following properties. The server gets "Historical data of measured cumulative amount of electric energy" with ECHONET Lite, after setting "Day on which the historical data of measured cumulative amount of electric energy is to be retrieved". Note that if you are not adding a query with the ECHONET Lite Web API, then handle "Day on which the historical data of measured cumulative amount of electric energy is to be retrieved" as "0".

- Historical data of measured cumulative amount of electric energy (normal direction)
- Historical data of measured cumulative amount of electric energy (reverse direction)

Properties

Property Resource Name	Access Method	Data Type	EPC (EL)	Property name (EL)	Note
normalDirectionCumulativeElectricEnergy	GET	number, string	0xE1	Measured cumulative amount of electric energy(normal direction)	
normalDirectionCumulativeElectricEnergyLog	GET	object	0xE2	Historical data of measured cumulative amounts of electric energy (normal direction)	*1
reverseDirectionCumulativeElectricEnergy	GET	number, string	0xE3	Measured cumulative amount of electric energy (reverse direction)	

©2018-2022 ECHONET Consortium

Property Resource Name	Access Method	Data Type	EPC (EL)	Property name (EL)	Note
reverseDirectionCumulativeElectricEnergyLog	GET	object	0xE4	Historical data of measured cumulative amounts of electric energy (reverse direction)	*1
instantaneousElectricPower	GET	number, string	0xE7	Measured instantaneous electric power	
instantaneousCurrent	GET	object	0xE8	Measured instantaneous currents	
instantaneousVoltage	GET	object	0xE9	Measured instantaneous voltages	
normalDirectionCumulativeElectricEnergyAtEvery30Min	GET	object	0xEA	Cumulative amounts of electric energy measured at fixed time(normal direction)	
reverseDirectionCumulativeElectricEnergyAtEvery30Min	GET	object	0xEB	Cumulative amounts of electric energy measured at fixed time(reverse direction)	

*1 With query

Device Description

©2018-2022 ECHONET Consortium

```
{
  "deviceType": "smartElectricEnergySubMeter",
  "metaData": {
    "version": "1.4.0"
  },
  "eoj": "0x028D",
  "descriptions": {
    "ja": "スマート電力量サブメータ",
    "en": "Smart electric energy meter for sub-metering"
  },
  "properties": {
    "normalDirectionCumulativeElectricEnergy": {
      "epc": "0xE1",
      "descriptions": {
        "ja": "積算電力量計測値（正方向計測値）",
        "en": "Measured cumulative amount of electric energy(normal direction)"
      },
      "writable": false,
      "observable": false,
      "schema": {
        "oneOf": [
          {
            "type": "number",
            "unit": "kWh",
            "minimum": 0,
            "coefficient": [
              "0xD3",
              "0xD4"
            ]
          },
          {
            "type": "string",
            "enum": [
              "noData"
            ],
            "values": [
              {
                "value": "noData",
                "descriptions": {
                  "ja": "未計測",
                  "en": "Not measured"
                },
                "edt": "0xFFFFFFFE"
              }
            ]
          }
        ]
      },
      "note": {
        "ja": "値は0xD3と0xD4の値を乗算した値。",
        "en": "This value is already multiplied with 0xD3 and 0xD4."
      }
    },
    "normalDirectionCumulativeElectricEnergyLog": {
      "epc": "0xE2",
      "epcAtomic": "0xE0",
      "descriptions": {
        "ja": "積算電力量計測値履歴（正方向計測値）",
        "en": "Historical data of measured cumulative amounts of electric energy (normal
direction)"
```


©2018-2022 ECHONET Consortium

```
      },
      "writable": false,
      "observable": false,
      "urlParameters": {
        "day": {
          "descriptions": {
            "ja": "積算履歴収集日",
            "en": "Day for which the historical data of measured cumulative amounts of
electric energy is to be retrieved"
          },
          "schema": {
            "type": "number",
            "minimum": 0,
            "maximum": 99
          },
          "required": false
        }
      },
      "schema": {
        "type": "object",
        "properties": {
          "day": {
            "descriptions": {
              "ja": "積算履歴収集日",
              "en": "Day for which the historical data of measured cumulative amounts of
electric energy is to be retrieved"
            },
            "oneOf": [
              {
                "type": "number",
                "minimum": 0,
                "maximum": 99
              },
              {
                "type": "string",
                "enum": [
                  "defaultValue"
                ],
                "values": [
                  {
                    "value": "defaultValue",
                    "descriptions": {
                      "ja": "初期値",
                      "en": "Default value"
                    },
                    "edt": "0x00FF"
                  }
                ]
              }
            ]
          },
          "electricEnergy": {
            "descriptions": {
              "ja": "積算電力量計測値",
              "en": "Measured cumulative amounts of electric energy"
            },
            "type": "array",
            "minItems": 48,
            "maxItems": 48,
            "items": {
              "oneOf": [
```


©2018-2022 ECHONET Consortium

```
                {
                  "type": "number",
                  "unit": "kWh",
                  "minimum": 0,
                  "coefficient": [
                    "0xD3",
                    "0xD4"
                  ]
                },
                {
                  "type": "string",
                  "enum": [
                    "noData"
                  ],
                  "values": [
                    {
                      "value": "noData",
                      "descriptions": {
                        "ja": "未計測",
                        "en": "Not measured"
                      },
                      "edt": "0xFFFFFFFE"
                    }
                  ]
                }
              ]
            }
          }
        }
      },
      "note": {
        "ja": "積算履歴収集日(EPC:0xE0)をqueryで設定する。値は0xD3と0xD4の値を乗算した値。",
        "en": "Day for the log(EPC:0xE0) should be set as a query. The value is already
multiplied with 0xD3 and 0xD4."
      }
    },
    "reverseDirectionCumulativeElectricEnergy": {
      "epc": "0xE3",
      "descriptions": {
        "ja": "積算電力量計測値（逆方向計測値）",
        "en": "Measured cumulative amount of electric energy (reverse direction)"
      },
      "writable": false,
      "observable": false,
      "schema": {
        "oneOf": [
          {
            "type": "number",
            "unit": "kWh",
            "minimum": 0,
            "coefficient": [
              "0xD3",
              "0xD4"
            ]
          },
          {
            "type": "string",
            "enum": [
              "noData"
            ],
            "values": [
```


©2018-2022 ECHONET Consortium

```
                {
                  "value": "noData",
                  "descriptions": {
                    "ja": "未計測",
                    "en": "Not measured"
                  },
                  "edt": "0xFFFFFFFE"
                }
              ]
            }
          ]
        },
        "note": {
          "ja": "値は0xD3と0xD4の値を乗算した値。",
          "en": "This value is already multiplied with 0xD3 and 0xD4."
        }
      },
      "reverseDirectionCumulativeElectricEnergyLog": {
        "epc": "0xE4",
        "epcAtomic": "0xE0",
        "descriptions": {
          "ja": "積算電力量計測値履歴（逆方向計測値）",
          "en": "Historical data of measured cumulative amounts of electric energy (reverse
direction)"
        },
        "writable": false,
        "observable": false,
        "urlParameters": {
          "day": {
            "descriptions": {
              "ja": "積算履歴収集日",
              "en": "Day for which the historical data of measured cumulative amounts of
electric energy is to be retrieved"
            },
            "schema": {
              "type": "number",
              "minimum": 0,
              "maximum": 99
            },
            "required": false
          }
        },
        "schema": {
          "type": "object",
          "properties": {
            "day": {
              "descriptions": {
                "ja": "積算履歴収集日",
                "en": "Day for which the historical data of measured cumulative amounts of
electric energy is to be retrieved"
              },
              "oneOf": [
                {
                  "type": "number",
                  "minimum": 0,
                  "maximum": 99
                },
                {
                  "type": "string",
                  "enum": [
                    "defaultValue"
```


©2018-2022 ECHONET Consortium

```
                ],
                "values": [
                  {
                    "value": "defaultValue",
                    "descriptions": {
                      "ja": "初期値",
                      "en": "Default value"
                    },
                    "edt": "0x00FF"
                  }
                ]
              }
            ]
          },
          "electricEnergy": {
            "descriptions": {
              "ja": "積算電力量計測値",
              "en": "Measured cumulative amounts of electric energy"
            },
            "type": "array",
            "minItems": 48,
            "maxItems": 48,
            "items": {
              "oneOf": [
                {
                  "type": "number",
                  "unit": "kWh",
                  "minimum": 0,
                  "coefficient": [
                    "0xD3",
                    "0xD4"
                  ]
                },
                {
                  "type": "string",
                  "enum": [
                    "noData"
                  ],
                  "values": [
                    {
                      "value": "noData",
                      "descriptions": {
                        "ja": "未計測",
                        "en": "Not measured"
                      },
                      "edt": "0xFFFFFFFE"
                    }
                  ]
                }
              ]
            }
          }
        }
      },
      "note": {
        "ja": "積算履歴収集日(EPC:0xE0)をqueryで設定する。値は0xD3と0xD4の値を乗算した値。",
        "en": "Day for the log(EPC:0xE0) should be set as a query. The value is already
multiplied with 0xD3 and 0xD4."
      }
    },
    "instantaneousElectricPower": {
```


©2018-2022 ECHONET Consortium

```
        "epc": "0xE7",
        "descriptions": {
          "ja": "瞬時電力計測値",
          "en": "Measured instantaneous electric power"
        },
        "writable": false,
        "observable": false,
        "schema": {
          "oneOf": [
            {
              "type": "number",
              "unit": "W"
            },
            {
              "type": "string",
              "enum": [
                "noData"
              ],
              "values": [
                {
                  "value": "noData",
                  "descriptions": {
                    "ja": "未計測",
                    "en": "Not measured"
                  },
                  "edt": "0x7FFFFFFE"
                }
              ]
            }
          ]
        }
      },
      "instantaneousCurrent": {
        "epc": "0xE8",
        "descriptions": {
          "ja": "瞬時電流計測値",
          "en": "Measured instantaneous currents"
        },
        "writable": false,
        "observable": false,
        "schema": {
          "type": "object",
          "properties": {
            "rPhase": {
              "descriptions": {
                "ja": "R 相",
                "en": "R Phase"
              },
              "oneOf": [
                {
                  "type": "number",
                  "unit": "A"
                },
                {
                  "type": "string",
                  "enum": [
                    "noData"
                  ],
                  "values": [
                    {
                      "value": "noData",
```


©2018-2022 ECHONET Consortium

```
                    "descriptions": {
                      "ja": "未計測",
                      "en": "Not measured"
                    },
                    "edt": "0x7FFE"
                  }
                ]
              }
            ]
          },
          "tPhase": {
            "descriptions": {
              "ja": "T 相",
              "en": "T Phase"
            },
            "oneOf": [
              {
                "type": "number",
                "unit": "A"
              },
              {
                "type": "string",
                "enum": [
                  "noData"
                ],
                "values": [
                  {
                    "value": "noData",
                    "descriptions": {
                      "ja": "未計測",
                      "en": "Not measured"
                    },
                    "edt": "0x7FFE"
                  }
                ]
              }
            ]
          }
        }
      },
      "note": {
        "ja": "値は0xD8の値を乗算した値。",
        "en": "The value is already multiplied with 0xD8."
      }
    },
    "instantaneousVoltage": {
      "epc": "0xE9",
      "descriptions": {
        "ja": "瞬時電圧計測値",
        "en": "Measured instantaneous voltages"
      },
      "writable": false,
      "observable": false,
      "schema": {
        "type": "object",
        "properties": {
          "rS": {
            "descriptions": {
              "ja": "R-S(N)間",
              "en": "Between R and S(N)"
            },
```


©2018-2022 ECHONET Consortium

```
              "oneOf": [
                {
                  "type": "number",
                  "unit": "V",
                  "minimum": 0
                },
                {
                  "type": "string",
                  "enum": [
                    "noData"
                  ],
                  "values": [
                    {
                      "value": "noData",
                      "descriptions": {
                        "ja": "未計測",
                        "en": "Not measured"
                      },
                      "edt": "0xFFFE"
                    }
                  ]
                }
              ]
            },
            "sT": {
              "descriptions": {
                "ja": "S(N)-T間",
                "en": "Between S(N) and T"
              },
              "oneOf": [
                {
                  "type": "number",
                  "unit": "V",
                  "minimum": 0
                },
                {
                  "type": "string",
                  "enum": [
                    "noData"
                  ],
                  "values": [
                    {
                      "value": "noData",
                      "descriptions": {
                        "ja": "未計測",
                        "en": "Not measured"
                      },
                      "edt": "0xFFFE"
                    }
                  ]
                }
              ]
            }
          }
        },
        "note": {
          "ja": "値は0xD9の値を乗算した値。",
          "en": "The value is already multiplied with 0xD9."
        }
      },
      "normalDirectionCumulativeElectricEnergyAtEvery30Min": {
```


©2018-2022 ECHONET Consortium

```
      "epc": "0xEA",
      "descriptions": {
        "ja": "定時積算電力量計測値（正方向計測値）",
        "en": "Cumulative amounts of electric energy measured at fixed time(normal
direction)"
      },
      "writable": false,
      "observable": false,
      "schema": {
        "type": "object",
        "properties": {
          "dateAndTime": {
            "descriptions": {
              "ja": "計測日時",
              "en": "Date and time of measurement"
            },
            "type": "string",
            "format": "date-time"
          },
          "electricEnergy": {
            "descriptions": {
              "ja": "積算電力量計測値",
              "en": "Cumulative amounts of electric energy measured"
            },
            "oneOf": [
              {
                "type": "number",
                "unit": "kWh",
                "minimum": 0,
                "coefficient": [
                  "0xD3",
                  "0xD4"
                ]
              },
              {
                "type": "string",
                "enum": [
                  "noData"
                ],
                "values": [
                  {
                    "value": "noData",
                    "descriptions": {
                      "ja": "未計測",
                      "en": "Not measured"
                    },
                    "edt": "0xFFFFFFFE"
                  }
                ]
              }
            ]
          }
        }
      },
      "note": {
        "ja": "値は0xD3と0xD4の値を乗算した値。",
        "en": "This value is already multiplied with 0xD3 and 0xD4."
      }
    },
    "reverseDirectionCumulativeElectricEnergyAtEvery30Min": {
      "epc": "0xEB",
```


©2018-2022 ECHONET Consortium

```
      "descriptions": {
        "ja": "定時積算電力量計測値（逆方向計測値）",
        "en": "Cumulative amounts of electric energy measured at fixed time(reverse
direction)"
      },
      "writable": false,
      "observable": false,
      "schema": {
        "type": "object",
        "properties": {
          "dateAndTime": {
            "descriptions": {
              "ja": "計測日時",
              "en": "Date and time of measurement"
            },
            "type": "string",
            "format": "date-time"
          },
          "electricEnergy": {
            "descriptions": {
              "ja": "積算電力量計測値",
              "en": "Cumulative amounts of electric energy measured"
            },
            "oneOf": [
              {
                "type": "number",
                "unit": "kWh",
                "minimum": 0,
                "coefficient": [
                  "0xD3",
                  "0xD4"
                ]
              },
              {
                "type": "string",
                "enum": [
                  "noData"
                ],
                "values": [
                  {
                    "value": "noData",
                    "descriptions": {
                      "ja": "未計測",
                      "en": "Not measured"
                    },
                    "edt": "0xFFFFFFFE"
                  }
                ]
              }
            ]
          }
        }
      },
      "note": {
        "ja": "値は0xD3と0xD4の値を乗算した値。",
        "en": "This value is already multiplied with 0xD3 and 0xD4."
      }
    }
  }
}
```


©2018-2022 ECHONET Consortium

General lighting: generalLighting: 0x0290

Back to the List of Devices

Properties

Property Resource Name	Access Method	Data Type	EPC (EL)	Property name (EL)	Note
onTimerReservation	GET, PUT	boolean	0x90	ON timer reservation setting	
onTimerTime	GET, PUT	string	0x91	ON timer setting	
offTimerReservation	GET, PUT	boolean	0x94	OFF timer reservation setting	
timeOfOffTimer	GET, PUT	string	0x95	Time set by OFF timer	
lightLevel	GET, PUT	number	0xB0	Light level	
lightColor	GET, PUT	string	0xB1	Light color setting	
lightLevelStep	GET, PUT	string	0xB2	Light level step setting	
lightColorLevelStep	GET, PUT	string	0xB3	Light color step setting	
maximumSpecifiableLevel	GET	object	0xB4	Maximum specifiable values	
maximumSettableLevelForNightLighting	GET	object	0xB5	Maximum value of settable level for night lighting	
operationMode	GET, PUT	string	0xB6	Lighting mode setting	
lightLevelForMainLighting	GET, PUT	number	0xB7	Light level setting for main lighting	
lightLevelStepForMainLighting	GET, PUT	string	0xB8	Light level step setting for main lighting	
lightLevelForNightLighting	GET, PUT	number	0xB9	Light level setting for night lighting	
lightLevelStepForNightLighting	GET, PUT	string	0xBA	Light level step setting for night lighting	
lightColorForMainLighting	GET, PUT	string	0xBB	Light color setting for main lighting	
lightColorLevelStepForMainLighting	GET, PUT	string	0xBC	Light color level step setting for main lighting	
lightColorLevelForNightLighting	GET, PUT	string	0xBD	Light color setting for night lighting	

©2018-2022 ECHONET Consortium

Property Resource Name	Access Method	Data Type	EPC (EL)	Property name (EL)	Note
lightColorLevelStepForNightLighting	GET, PUT	string	0xBE	Light color level step setting for night lighting	
autoMode	GET	string	0xBF	Lighting mode status in auto mode	
rgb	GET, PUT	object	0xC0	RGB setting for color lighting	

Device Description

```
{
  "deviceType": "generalLighting",
  "metaData": {
    "version": "1.4.0"
  },
  "eoj": "0x0290",
  "descriptions": {
    "ja": "一般照明",
    "en": "General lighting"
  },
  "properties": {
    "onTimerReservation": {
      "epc": "0x90",
      "descriptions": {
        "ja": "ONタイマ予約設定",
        "en": "ON timer reservation setting"
      },
      "writable": true,
      "observable": false,
      "schema": {
        "type": "boolean",
        "values": [
          {
            "value": true,
            "descriptions": {
              "ja": "予約入",
              "en": "Reservation ON"
            },
            "edt": "0x41"
          },
          {
            "value": false,
            "descriptions": {
              "ja": "予約切",
              "en": "Reservation OFF"
            },
            "edt": "0x42"
          }
        ]
      }
    },
    "onTimerTime": {
      "epc": "0x91",
```


©2018-2022 ECHONET Consortium

```
        "descriptions": {
          "ja": "ONタイマ時刻設定値",
          "en": "ON timer setting"
        },
        "writable": true,
        "observable": false,
        "schema": {
          "type": "string",
          "format": "time"
        }
      },
      "offTimerReservation": {
        "epc": "0x94",
        "descriptions": {
          "ja": "OFFタイマ予約設定",
          "en": "OFF timer reservation setting"
        },
        "writable": true,
        "observable": false,
        "schema": {
          "type": "boolean",
          "values": [
            {
              "value": true,
              "descriptions": {
                "ja": "予約入",
                "en": "Reservation ON"
              },
              "edt": "0x41"
            },
            {
              "value": false,
              "descriptions": {
                "ja": "予約切",
                "en": "Reservation OFF"
              },
              "edt": "0x42"
            }
          ]
        }
      },
      "timeOfOffTimer": {
        "epc": "0x95",
        "descriptions": {
          "ja": "OFFタイマ時刻設定値",
          "en": "Time set by OFF timer"
        },
        "writable": true,
        "observable": false,
        "schema": {
          "type": "string",
          "format": "time"
        }
      },
      "lightLevel": {
        "epc": "0xB0",
        "descriptions": {
          "ja": "照明の明るさ設定",
          "en": "Light level"
        },
        "writable": true,
```


©2018-2022 ECHONET Consortium

```
        "observable": false,
        "schema": {
          "type": "number",
          "unit": "%",
          "minimum": 0,
          "maximum": 100
        }
      },
      "lightColor": {
        "epc": "0xB1",
        "descriptions": {
          "ja": "光色設定",
          "en": "Light color setting"
        },
        "writable": true,
        "observable": false,
        "schema": {
          "type": "string",
          "enum": [
            "incandescent",
            "white",
            "daylightWhite",
            "daylightColor",
            "other",
            "undefined"
          ],
          "values": [
            {
              "value": "incandescent",
              "descriptions": {
                "ja": "電球色",
                "en": "Incandescent lamp color"
              },
              "edt": "0x41"
            },
            {
              "value": "white",
              "descriptions": {
                "ja": "白色",
                "en": "White"
              },
              "edt": "0x42"
            },
            {
              "value": "daylightWhite",
              "descriptions": {
                "ja": "昼白色",
                "en": "Daylight white"
              },
              "edt": "0x43"
            },
            {
              "value": "daylightColor",
              "descriptions": {
                "ja": "昼光色",
                "en": "Daylight color"
              },
              "edt": "0x44"
            },
            {
              "value": "other",
```


©2018-2022 ECHONET Consortium

```
              "descriptions": {
                "ja": "その他",
                "en": "Other"
              },
              "edt": "0x40"
            },
            {
              "value": "undefined",
              "descriptions": {
                "ja": "不明",
                "en": "Undefined"
              },
              "edt": "0xFD"
            }
          ]
        }
      },
      "lightLevelStep": {
        "epc": "0xB2",
        "descriptions": {
          "ja": "照明の明るさ段数設定",
          "en": "Light level step setting"
        },
        "writable": true,
        "observable": false,
        "schema": {
          "type": "string"
        },
        "note": {
          "ja": "0x01～設定可能照明の明るさ最大値(暗～明)",
          "en": "From 0x01 to the maximum specifiable light level value (dark to bright)"
        }
      },
      "lightColorLevelStep": {
        "epc": "0xB3",
        "descriptions": {
          "ja": "光色レベル段数設定",
          "en": "Light color step setting"
        },
        "writable": true,
        "observable": false,
        "schema": {
          "type": "string"
        },
        "note": {
          "ja": "0x01～設定可能光色レベル最大値(電球色～白色)",
          "en": "From 0x01 to the maximum specifiable light color value (incandescent lamp
color to white)"
        }
      },
      "maximumSpecifiableLevel": {
        "epc": "0xB4",
        "descriptions": {
          "ja": "設定可能レベル最大値",
          "en": "Maximum specifiable values"
        },
        "writable": false,
        "observable": false,
        "schema": {
          "type": "object",
          "properties": {
```


©2018-2022 ECHONET Consortium

```
            "lightLevel": {
              "descriptions": {
                "ja": "1Byte目:照明の明るさ",
                "en": "Byte 1: light level"
              },
              "oneOf": [
                {
                  "type": "number",
                  "minimum": 1,
                  "maximum": 255
                },
                {
                  "type": "string",
                  "enum": [
                    "notLightLevel"
                  ],
                  "values": [
                    {
                      "value": "notLightLevel",
                      "descriptions": {
                        "ja": "機能を搭載していない場合",
                        "en": "When the function is not implemented."
                      },
                      "edt": "0x00"
                    }
                  ]
                }
              ]
            },
            "color": {
              "descriptions": {
                "ja": "2Byte目:光色",
                "en": "Byte 2: light color"
              },
              "oneOf": [
                {
                  "type": "number",
                  "minimum": 1,
                  "maximum": 255
                },
                {
                  "type": "string",
                  "enum": [
                    "notColor"
                  ],
                  "values": [
                    {
                      "value": "notColor",
                      "descriptions": {
                        "ja": "機能を搭載していない場合",
                        "en": "When the function is not implemented."
                      },
                      "edt": "0x00"
                    }
                  ]
                }
              ]
            }
          }
        }
      },
```


©2018-2022 ECHONET Consortium

```
    "maximumSettableLevelForNightLighting": {
      "epc": "0xB5",
      "descriptions": {
        "ja": "常夜灯設定可能レベル最大値",
        "en": "Maximum value of settable level for night lighting"
      },
      "writable": false,
      "observable": false,
      "schema": {
        "type": "object",
        "properties": {
          "lightLevel": {
            "descriptions": {
              "ja": "1Byte目:照明の明るさ",
              "en": "Byte 1: light level"
            },
            "oneOf": [
              {
                "type": "number",
                "minimum": 1,
                "maximum": 255
              },
              {
                "type": "string",
                "enum": [
                  "notLightLevel"
                ],
                "values": [
                  {
                    "value": "notLightLevel",
                    "descriptions": {
                      "ja": "機能を搭載していない場合",
                      "en": "When the function is not implemented"
                    },
                    "edt": "0x00"
                  }
                ]
              }
            ]
          },
          "color": {
            "descriptions": {
              "ja": "2Byte目:光色",
              "en": "Byte 2: light color"
            },
            "oneOf": [
              {
                "type": "number",
                "minimum": 1,
                "maximum": 255
              },
              {
                "type": "string",
                "enum": [
                  "notColor"
                ],
                "values": [
                  {
                    "value": "notColor",
                    "descriptions": {
                      "ja": "機能を搭載していない場合",
```


©2018-2022 ECHONET Consortium

```
                        "en": "When the function is not implemented."
                      },
                      "edt": "0x00"
                    }
                  ]
                }
              ]
            }
          }
        }
      },
      "operationMode": {
        "epc": "0xB6",
        "descriptions": {
          "ja": "点灯モード設定",
          "en": "Lighting mode setting"
        },
        "writable": true,
        "observable": false,
        "schema": {
          "type": "string",
          "enum": [
            "auto",
            "normal",
            "night",
            "color"
          ],
          "values": [
            {
              "value": "auto",
              "descriptions": {
                "ja": "自動",
                "en": "Auto"
              },
              "edt": "0x41"
            },
            {
              "value": "normal",
              "descriptions": {
                "ja": "通常灯",
                "en": "Main lighting"
              },
              "edt": "0x42"
            },
            {
              "value": "night",
              "descriptions": {
                "ja": "常夜灯",
                "en": "Night lighting"
              },
              "edt": "0x43"
            },
            {
              "value": "color",
              "descriptions": {
                "ja": "カラー灯",
                "en": "Color lighting"
              },
              "edt": "0x45"
            }
          ]
```


©2018-2022 ECHONET Consortium

```
      }
    },
    "lightLevelForMainLighting": {
      "epc": "0xB7",
      "descriptions": {
        "ja": "通常灯モード時照明の明るさ設定",
        "en": "Light level setting for main lighting"
      },
      "writable": true,
      "observable": false,
      "schema": {
        "type": "number",
        "unit": "%",
        "minimum": 0,
        "maximum": 100
      }
    },
    "lightLevelStepForMainLighting": {
      "epc": "0xB8",
      "descriptions": {
        "ja": "通常灯モード時照明の明るさ段数設定",
        "en": "Light level step setting for main lighting"
      },
      "writable": true,
      "observable": false,
      "schema": {
        "type": "string"
      },
      "note": {
        "ja": "0x01～設定可能照明の明るさ最大値(暗～明)",
        "en": "Light level step setting for night lighting (dark to bright)"
      }
    },
    "lightLevelForNightLighting": {
      "epc": "0xB9",
      "descriptions": {
        "ja": "常夜灯モード時照明の明るさ設定",
        "en": "Light level setting for night lighting"
      },
      "writable": true,
      "observable": false,
      "schema": {
        "type": "number",
        "unit": "%",
        "minimum": 0,
        "maximum": 100
      },
      "note": {
        "ja": "0x00-0x64",
        "en": "0x00-0x64"
      }
    },
    "lightLevelStepForNightLighting": {
      "epc": "0xBA",
      "descriptions": {
        "ja": "常夜灯モード時照明の明るさ段数設定",
        "en": "Light level step setting for night lighting"
      },
      "writable": true,
      "observable": false,
      "schema": {
```


©2018-2022 ECHONET Consortium

```
          "type": "string"
        },
        "note": {
          "ja": "0x01～設定可能照明の明るさ最大値(暗～明)",
          "en": "0x01 to the maximum value of settable light level (dark to bright)"
        }
      },
      "lightColorForMainLighting": {
        "epc": "0xBB",
        "descriptions": {
          "ja": "通常灯モード時光色設定",
          "en": "Light color setting for main lighting"
        },
        "writable": true,
        "observable": false,
        "schema": {
          "type": "string",
          "enum": [
            "incandescent",
            "white",
            "daylightWhite",
            "daylightColor",
            "other"
          ],
          "values": [
            {
              "value": "incandescent",
              "descriptions": {
                "ja": "電球色",
                "en": "Incandescent lamp color"
              },
              "edt": "0x41"
            },
            {
              "value": "white",
              "descriptions": {
                "ja": "白色",
                "en": "White"
              },
              "edt": "0x42"
            },
            {
              "value": "daylightWhite",
              "descriptions": {
                "ja": "昼白色",
                "en": "Daylight white"
              },
              "edt": "0x43"
            },
            {
              "value": "daylightColor",
              "descriptions": {
                "ja": "昼光色",
                "en": "Daylight color"
              },
              "edt": "0x44"
            },
            {
              "value": "other",
              "descriptions": {
                "ja": "その他",
```


©2018-2022 ECHONET Consortium

```
                "en": "Other"
              },
              "edt": "0x40"
            }
          ]
        }
      },
      "lightColorLevelStepForMainLighting": {
        "epc": "0xBC",
        "descriptions": {
          "ja": "通常灯モード時光色レベル段数設定",
          "en": "Light color level step setting for main lighting"
        },
        "writable": true,
        "observable": false,
        "schema": {
          "type": "string"
        },
        "note": {
          "ja": "0x01～設定可能光色レベル最大値(電球色～白色)",
          "en": "0x01 to the maximum value of settable light color level (incandescent lamp
color to white)"
        }
      },
      "lightColorLevelForNightLighting": {
        "epc": "0xBD",
        "descriptions": {
          "ja": "常夜灯モード時光色設定",
          "en": "Light color setting for night lighting"
        },
        "writable": true,
        "observable": false,
        "schema": {
          "type": "string",
          "enum": [
            "incandescent",
            "white",
            "daylightWhite",
            "daylightColor",
            "other"
          ],
          "values": [
            {
              "value": "incandescent",
              "descriptions": {
                "ja": "電球色",
                "en": "Incandescent lamp color"
              },
              "edt": "0x41"
            },
            {
              "value": "white",
              "descriptions": {
                "ja": "白色",
                "en": "White"
              },
              "edt": "0x42"
            },
            {
              "value": "daylightWhite",
              "descriptions": {
```


©2018-2022 ECHONET Consortium

```
                "ja": "昼白色",
                "en": "Daylight white"
              },
              "edt": "0x43"
            },
            {
              "value": "daylightColor",
              "descriptions": {
                "ja": "昼光色",
                "en": "Daylight color"
              },
              "edt": "0x44"
            },
            {
              "value": "other",
              "descriptions": {
                "ja": "その他",
                "en": "Other"
              },
              "edt": "0x40"
            }
          ]
        }
      },
      "lightColorLevelStepForNightLighting": {
        "epc": "0xBE",
        "descriptions": {
          "ja": "常夜灯モード時光色レベル段数設定",
          "en": "Light color level step setting for night lighting"
        },
        "writable": true,
        "observable": false,
        "schema": {
          "type": "string"
        },
        "note": {
          "ja": "0x01～設定可能光色レベル最大値(電球色～白色)",
          "en": "0x01 to the maximum value of settable light color level (incandescent lamp
color to white)"
        }
      },
      "autoMode": {
        "epc": "0xBF",
        "descriptions": {
          "ja": "自動モード時点灯モード状態",
          "en": "Lighting mode status in auto mode"
        },
        "writable": false,
        "observable": false,
        "schema": {
          "type": "string",
          "enum": [
            "normal",
            "night",
            "off",
            "color"
          ],
          "values": [
            {
              "value": "normal",
              "descriptions": {
```


©2018-2022 ECHONET Consortium

```
                "ja": "通常灯",
                "en": "Main lighting"
              },
              "edt": "0x42"
            },
            {
              "value": "night",
              "descriptions": {
                "ja": "常夜灯",
                "en": "Night lighting"
              },
              "edt": "0x43"
            },
            {
              "value": "off",
              "descriptions": {
                "ja": "消灯",
                "en": "Off"
              },
              "edt": "0x44"
            },
            {
              "value": "color",
              "descriptions": {
                "ja": "カラー灯",
                "en": "Color lighting"
              },
              "edt": "0x45"
            }
          ]
        }
      },
      "rgb": {
        "epc": "0xC0",
        "descriptions": {
          "ja": "カラー灯モード時RGB設定",
          "en": "RGB setting for color lighting"
        },
        "writable": true,
        "observable": false,
        "schema": {
          "type": "object",
          "properties": {
            "red": {
              "descriptions": {
                "ja": "1Byte目:R",
                "en": "Byte 1: R"
              },
              "type": "number",
              "minimum": 0,
              "maximum": 255,
              "multipleOf": 1
            },
            "green": {
              "descriptions": {
                "ja": "2Byte目:G",
                "en": "Byte 2: G"
              },
              "type": "number",
              "minimum": 0,
              "maximum": 255,
```


©2018-2022 ECHONET Consortium

```
              "multipleOf": 1
            },
            "blue": {
              "descriptions": {
                "ja": "3Byte目:B",
                "en": "Byte 3: B"
              },
              "type": "number",
              "minimum": 0,
              "maximum": 255,
              "multipleOf": 1
            }
          }
        }
      }
    }
  }
```


©2018-2022 ECHONET Consortium

Mono functional lighting: monoFunctionalLighting: 0x0291

Back to the List of Devices

Properties

Property Resource Name	Access Method	Data Type	EPC (EL)	Property name (EL)	Note
lightLevel	GET, PUT	number	0xB0	Light level Setting	

Device Description

```
{
  "deviceType": "monoFunctionalLighting",
  "metaData": {
    "version": "1.4.0"
  },
  "eoj": "0x0291",
  "descriptions": {
    "ja": "単機能照明",
    "en": "Mono functional lighting"
  },
  "properties": {
    "lightLevel": {
      "epc": "0xB0",
      "descriptions": {
        "ja": "照明の明るさ設定",
        "en": "Light level Setting"
      },
      "writable": true,
      "observable": false,
      "schema": {
        "type": "number",
        "unit": "%",
        "minimum": 0,
        "maximum": 100
      }
    }
  }
}
```


©2018-2022 ECHONET Consortium

EV Charger: evCharger: 0x02A1

Back to the List of Devices

Note to Server:

It is necessary to set "vehicle connection confirmation (EPC=0xCD)" before getting ECHONET Lite property "vehicle connection and chargeable status (EPC=0xC7)" with ECHONET Lite. When the server receives "GET: chargeStatus" with the ECHONET Lite Web API, the server gets "vehicle connection and chargeable status" after setting "vehicle connection confirmation" with ECHONET Lite.

Properties

Property Resource Name	Access Method	Data Type	EPC (EL)	Property name (EL)	Note
ratedChargeElectricPower	GET	number	0xC5	Rated charge capacity	
chargeStatus	GET	string	0xC7	Vehicle connection and chargeable status	
minimumAndMaximumChargingElectricPower	GET	object	0xC8	Minimum/maximum charging electric energy	
minimumAndMaximumChargingCurrent	GET	object	0xCA	Minimum/maximum charging electric current	
equipmentType	GET	string	0xCC	Charger type	
chargeableCapacity	GET	number	0xCE	Chargeable capacity of vehicle mounted battery	
remainingChargeableCapacity	GET	number	0xCF	Remaining chargeable capacity of vehicle mounted battery	
usedCapacity1	GET	number	0xD0	Used capacity of vehicle mounted battery 1	
ratedVoltage	GET	number	0xD2	Rated voltage	
instantaneousElectricPower	GET	number	0xD3	Measured instantaneous charging electric energy	
cumulativeChargingElectricEnergy	GET	number	0xD8	Measured cumulative amount of charging electric energy	
operationMode	GET, PUT	string	0xDA	Operation mode setting	

©2018-2022 ECHONET Consortium

Property Resource Name	Access Method	Data Type	EPC (EL)	Property name (EL)	Note
remainingCapacity1	GET	number	0xE2	Remaining stored electricity of vehicle mounted battery1	
remainingCapacity3	GET	number	0xE4	Remaining stored electricity of vehicle mounted battery3	
vehicleId	GET	string	0xE6	Vehicle ID	
targetChargingElectricEnergy	GET, PUT	number	0xE7	Charging amount setting	
chargingElectricPower	GET, PUT	number	0xEB	Charging electric energy setting	
chargingCurrent	GET, PUT	number	0xED	Charging current setting	

Actions

Property Resource Name	Access Method	EPC (EL)	Property name (EL)	Note
resetCumulativeChargingElectricEnergy	POST	0xD9	Cumulative amount of charging electric energy reset setting	

Device Description

```
{
  "deviceType": "evCharger",
  "metaData": {
    "version": "1.3.0"
  },
  "eoj": "0x02A1",
  "descriptions": {
    "ja": "電気自動車充電器",
    "en": "EV Charger"
  },
  "properties": {
    "ratedChargeElectricPower": {
      "epc": "0xC5",
      "descriptions": {
        "ja": "定格充電能力",
        "en": "Rated charge capacity"
      },
      "writable": false,
      "observable": false,
      "schema": {
        "type": "number",
        "unit": "W",
```


©2018-2022 ECHONET Consortium

```
          "minimum": 0,
          "maximum": 999999999
        }
      },
      "chargeStatus": {
        "epc": "0xC7",
        "epcAtomic": "0xCD",
        "descriptions": {
          "ja": "車両接続･充電可否状態",
          "en": "Vehicle connection and chargeable status"
        },
        "writable": false,
        "observable": true,
        "schema": {
          "type": "string",
          "enum": [
            "undefined",
            "notConnected",
            "notChargeable",
            "chargeable",
            "unknown"
          ],
          "values": [
            {
              "value": "undefined",
              "descriptions": {
                "ja": "不定",
                "en": "Undefined"
              },
              "edt": "0xFF"
            },
            {
              "value": "notConnected",
              "descriptions": {
                "ja": "車両未接続",
                "en": "Not connected"
              },
              "edt": "0x30"
            },
            {
              "value": "notChargeable",
              "descriptions": {
                "ja": "車両接続･充電不可",
                "en": "Not chargeable"
              },
              "edt": "0x40"
            },
            {
              "value": "chargeable",
              "descriptions": {
                "ja": "車両接続･充電可",
                "en": "Chargeable"
              },
              "edt": "0x41"
            },
            {
              "value": "unknown",
              "descriptions": {
                "ja": "車両接続･充電可否不明",
                "en": "Unknown"
              },
```


©2018-2022 ECHONET Consortium

```
                "edt": "0x44"
              }
            ]
          },
          "note": {
            "ja": "Atomic operation with EPC=0xCD",
            "en": "Atomic operation with EPC=0xCD"
          }
        },
        "minimumAndMaximumChargingElectricPower": {
          "epc": "0xC8",
          "descriptions": {
            "ja": "最小最大充電電力値",
            "en": "Minimum/maximum charging electric energy"
          },
          "writable": false,
          "observable": false,
          "schema": {
            "type": "object",
            "properties": {
              "minimumElectricPower": {
                "descriptions": {
                  "ja": "最小充電電力値",
                  "en": "Minimum charging electric energy"
                },
                "type": "number",
                "unit": "W",
                "minimum": 0,
                "maximum": 999999999
              },
              "maximumElectricPower": {
                "descriptions": {
                  "ja": "最大充電電力値",
                  "en": "Maximum charging electric energy"
                },
                "type": "number",
                "unit": "W",
                "minimum": 0,
                "maximum": 999999999
              }
            }
          }
        },
        "minimumAndMaximumChargingCurrent": {
          "epc": "0xCA",
          "descriptions": {
            "ja": "最小最大充電電流値",
            "en": "Minimum/maximum charging electric current"
          },
          "writable": false,
          "observable": false,
          "schema": {
            "type": "object",
            "properties": {
              "minimumCurrent": {
                "descriptions": {
                  "ja": "最小充電電流値",
                  "en": "Minimum charging current"
                },
                "type": "number",
                "unit": "A",
```


©2018-2022 ECHONET Consortium

```
            "minimum": 0,
            "maximum": 3276.6,
            "multipleOf": 0.1
          },
          "maximumCurrent": {
            "descriptions": {
              "ja": "最大充電電流値",
              "en": "Maximum charging current"
            },
            "type": "number",
            "unit": "A",
            "minimum": 0,
            "maximum": 3276.6,
            "multipleOf": 0.1
          }
        }
      }
    },
    "equipmentType": {
      "epc": "0xCC",
      "descriptions": {
        "ja": "充電器タイプ",
        "en": "Charger type"
      },
      "writable": false,
      "observable": false,
      "schema": {
        "type": "string",
        "enum": [
          "ac_cplt",
          "ac_hlc_charge",
          "dc_aa_charge",
          "dc_bb_charge",
          "dc_ee_charge",
          "dc_ff_charge"
        ],
        "values": [
          {
            "value": "ac_cplt",
            "descriptions": {
              "ja": "AC_CPLT",
              "en": "AC_CPLT"
            },
            "edt": "0x11"
          },
          {
            "value": "ac_hlc_charge",
            "descriptions": {
              "ja": "AC_HLC (充電のみ)",
              "en": "AC_HLC_Charge"
            },
            "edt": "0x12"
          },
          {
            "value": "dc_aa_charge",
            "descriptions": {
              "ja": "DCタイプ_AA (充電のみ)",
              "en": "DC_AA_Charge"
            },
            "edt": "0x21"
          },
```


©2018-2022 ECHONET Consortium

```
            {
              "value": "dc_bb_charge",
              "descriptions": {
                "ja": "DCタイプ_BB (充電のみ)",
                "en": "DC_BB_Charge"
              },
              "edt": "0x31"
            },
            {
              "value": "dc_ee_charge",
              "descriptions": {
                "ja": "DCタイプ_EE (充電のみ)",
                "en": "DC_EE_Charge"
              },
              "edt": "0x41"
            },
            {
              "value": "dc_ff_charge",
              "descriptions": {
                "ja": "DCタイプ_FF (充電のみ)",
                "en": "DC_FF_Charge"
              },
              "edt": "0x51"
            }
          ]
        }
      },
      "chargeableCapacity": {
        "epc": "0xCE",
        "descriptions": {
          "ja": "車載電池の充電可能容量値",
          "en": "Chargeable capacity of vehicle mounted battery"
        },
        "writable": false,
        "observable": false,
        "schema": {
          "type": "number",
          "unit": "Wh",
          "minimum": 0,
          "maximum": 999999999
        }
      },
      "remainingChargeableCapacity": {
        "epc": "0xCF",
        "descriptions": {
          "ja": "車載電池の充電可能残容量値",
          "en": "Remaining chargeable capacity of vehicle mounted battery"
        },
        "writable": false,
        "observable": false,
        "schema": {
          "type": "number",
          "unit": "Wh",
          "minimum": 0,
          "maximum": 999999999
        }
      },
      "usedCapacity1": {
        "epc": "0xD0",
        "descriptions": {
          "ja": "車載電池の使用容量値1",
```


©2018-2022 ECHONET Consortium

```
          "en": "Used capacity of vehicle mounted battery 1"
        },
        "writable": false,
        "observable": false,
        "schema": {
          "type": "number",
          "unit": "Wh",
          "minimum": 0,
          "maximum": 999999999
        }
      },
      "ratedVoltage": {
        "epc": "0xD2",
        "descriptions": {
          "ja": "定格電圧",
          "en": "Rated voltage"
        },
        "writable": false,
        "observable": false,
        "schema": {
          "type": "number",
          "unit": "V",
          "minimum": 0,
          "maximum": 32766
        }
      },
      "instantaneousElectricPower": {
        "epc": "0xD3",
        "descriptions": {
          "ja": "瞬時充電電力計測値",
          "en": "Measured instantaneous charging electric energy"
        },
        "writable": false,
        "observable": false,
        "schema": {
          "type": "number",
          "unit": "W",
          "minimum": 0,
          "maximum": 999999999
        }
      },
      "cumulativeChargingElectricEnergy": {
        "epc": "0xD8",
        "descriptions": {
          "ja": "積算充電電力量計測値",
          "en": "Measured cumulative amount of charging electric energy"
        },
        "writable": false,
        "observable": false,
        "schema": {
          "type": "number",
          "unit": "kWh",
          "minimum": 0,
          "maximum": 999999.999,
          "multipleOf": 0.001
        }
      },
      "operationMode": {
        "epc": "0xDA",
        "descriptions": {
          "ja": "運転モード設定",
```


©2018-2022 ECHONET Consortium

```
          "en": "Operation mode setting"
        },
        "writable": true,
        "observable": true,
        "schema": {
          "type": "string",
          "enum": [
            "charge",
            "standby",
            "idle",
            "other"
          ],
          "values": [
            {
              "value": "charge",
              "descriptions": {
                "ja": "充電",
                "en": "Charge"
              },
              "edt": "0x42"
            },
            {
              "value": "standby",
              "descriptions": {
                "ja": "待機",
                "en": "Standby"
              },
              "edt": "0x44"
            },
            {
              "value": "idle",
              "descriptions": {
                "ja": "停止",
                "en": "Idle"
              },
              "edt": "0x47"
            },
            {
              "value": "other",
              "descriptions": {
                "ja": "その他",
                "en": "Other"
              },
              "edt": "0x40"
            }
          ]
        }
      },
      "remainingCapacity1": {
        "epc": "0xE2",
        "descriptions": {
          "ja": "車載電池の電池残容量1",
          "en": "Remaining stored electricity of vehicle mounted battery1"
        },
        "writable": false,
        "observable": false,
        "schema": {
          "type": "number",
          "unit": "Wh",
          "minimum": 0,
          "maximum": 999999999
```


©2018-2022 ECHONET Consortium

```
      }
    },
    "remainingCapacity3": {
      "epc": "0xE4",
      "descriptions": {
        "ja": "車載電池の電池残容量3",
        "en": "Remaining stored electricity of vehicle mounted battery3"
      },
      "writable": false,
      "observable": false,
      "schema": {
        "type": "number",
        "unit": "%",
        "minimum": 0,
        "maximum": 100
      }
    },
    "vehicleId": {
      "epc": "0xE6",
      "descriptions": {
        "ja": "車両ID",
        "en": "Vehicle ID"
      },
      "writable": false,
      "observable": false,
      "schema": {
        "type": "string"
      }
    },
    "targetChargingElectricEnergy": {
      "epc": "0xE7",
      "descriptions": {
        "ja": "充電量設定値",
        "en": "Charging amount setting"
      },
      "writable": true,
      "observable": false,
      "schema": {
        "type": "number",
        "unit": "Wh",
        "minimum": 0,
        "maximum": 999999999
      }
    },
    "chargingElectricPower": {
      "epc": "0xEB",
      "descriptions": {
        "ja": "充電電力設定値",
        "en": "Charging electric energy setting"
      },
      "writable": true,
      "observable": false,
      "schema": {
        "type": "number",
        "unit": "W",
        "minimum": 0,
        "maximum": 999999999
      }
    },
    "chargingCurrent": {
      "epc": "0xED",
```


©2018-2022 ECHONET Consortium

```
        "descriptions": {
          "ja": "充電電流設定値",
          "en": "Charging current setting"
        },
        "writable": true,
        "observable": false,
        "schema": {
          "type": "number",
          "unit": "A",
          "minimum": 0,
          "maximum": 6553.3,
          "multipleOf": 0.1
        }
      }
    },
    "actions": {
      "resetCumulativeChargingElectricEnergy": {
        "epc": "0xD9",
        "descriptions": {
          "ja": "積算充電電力量リセット設定",
          "en": "Cumulative amount of charging electric energy reset setting"
        },
        "schema": {},
        "note": {
          "ja": "ECHONET LiteではSet only property",
          "en": "Access rule of the corresponding ECHONET Lite property is Set only."
        }
      }
    }
  }
```


©2018-2022 ECHONET Consortium

Lighting system: lightingSystem: 0x02A3

Back to the List of Devices

Properties

Property Resource Name	Access Method	Data Type	EPC (EL)	Property name (EL)	Note
lightLevel	GET, PUT	number	0xB0	Light level setting	
sceneId	GET, PUT	number, string	0xC0	Scene control setting	
maximumNumberOfSceneId	GET	number	0xC1	Number that can assign scene control setting	

Device Description

```
{
  "deviceType": "lightingSystem",
  "metaData": {
    "version": "1.4.1"
  },
  "eoj": "0x02A3",
  "descriptions": {
    "ja": "照明システム",
    "en": "Lighting system"
  },
  "properties": {
    "lightLevel": {
      "epc": "0xB0",
      "descriptions": {
        "ja": "照明の明るさ設定",
        "en": "Light level setting"
      },
      "writable": true,
      "observable": false,
      "schema": {
        "type": "number",
        "unit": "%",
        "minimum": 0,
        "maximum": 100
      }
    },
    "sceneId": {
      "epc": "0xC0",
      "descriptions": {
        "ja": "シーン制御設定",
        "en": "Scene control setting"
      },
      "writable": true,
      "observable": false,
      "schema": {
        "oneOf": [
          {
            "type": "number",
```


©2018-2022 ECHONET Consortium

```
              "minimum": 1,
              "maximum": 253
            },
            {
              "type": "string",
              "enum": [
                "noSetting"
              ],
              "values": [
                {
                  "value": "noSetting",
                  "descriptions": {
                    "ja": "設定なし",
                    "en": "No setting"
                  },
                  "edt": "0x00"
                }
              ]
            }
          ]
        }
      },
      "maximumNumberOfSceneId": {
        "epc": "0xC1",
        "descriptions": {
          "ja": "シーン制御設定可能数",
          "en": "Number that can assign scene control setting"
        },
        "writable": false,
        "observable": false,
        "schema": {
          "type": "number",
          "minimum": 0,
          "maximum": 253
        }
      }
    }
  }
```


©2018-2022 ECHONET Consortium

Extended lighting system: enhancedLightingSystem: 0x02A4

Back to the List of Devices

Properties

Property Resource Name	Access Method	Data Type	EPC (EL)	Property name (EL)	Note
lightLevel	GET, PUT	number	0xB0	Light level setting	
sceneId	GET, PUT	number, string	0xC0	Scene control setting	
maximumNumberOfSceneId	GET	number	0xC1	Number that can assign scene control setting.	
powerConsumptionRateList	GET	array	0xC2	Power consumption rate list	
powerConsumptionAtFullLighting	GET	number	0xC3	Power consumption when fully lighted	
powerConsumptionWillBeSaved	GET	number	0xC4	Possible power savings	
powerConsumptionLimit	GET, PUT	number, string	0xC5	Power consumption limit setting	
automaticOperationControlling	GET, PUT	boolean	0xC6	Automatic operation controlling setting	
fadingControlChangeTime	GET, PUT	number	0xC7	Fading control change time setting	

Device Description

```
{
  "deviceType": "enhancedLightingSystem",
  "metaData": {
    "version": "1.4.1"
  },
  "eoj": "0x02A4",
  "descriptions": {
    "ja": "拡張照明システム",
    "en": "Extended lighting system"
  },
  "properties": {
    "lightLevel": {
      "epc": "0xB0",
      "descriptions": {
        "ja": "照明の明るさ設定",
        "en": "Light level setting"
      },
      "writable": true,
      "observable": false,
      "schema": {
```


©2018-2022 ECHONET Consortium

```
          "type": "number",
          "unit": "%",
          "minimum": 0,
          "maximum": 100
        }
      },
      "sceneId": {
        "epc": "0xC0",
        "descriptions": {
          "ja": "シーン制御設定",
          "en": "Scene control setting"
        },
        "writable": true,
        "observable": false,
        "schema": {
          "oneOf": [
            {
              "type": "number",
              "minimum": 1,
              "maximum": 253
            },
            {
              "type": "string",
              "enum": [
                "noSetting"
              ],
              "values": [
                {
                  "value": "noSetting",
                  "descriptions": {
                    "ja": "設定なし",
                    "en": "No setting"
                  },
                  "edt": "0x00"
                }
              ]
            }
          ]
        },
        "note": {
          "ja": "最大値は maximumNumberOfSceneId の値",
          "en": "Maximum value is the value of maximumNumberOfSceneId."
        }
      },
      "maximumNumberOfSceneId": {
        "epc": "0xC1",
        "descriptions": {
          "ja": "シーン制御設定可能数",
          "en": "Number that can assign scene control setting."
        },
        "writable": false,
        "observable": false,
        "schema": {
          "type": "number",
          "minimum": 1,
          "maximum": 253
        }
      },
      "powerConsumptionRateList": {
        "epc": "0xC2",
        "descriptions": {
```


©2018-2022 ECHONET Consortium

```
          "ja": "電力消費率リスト",
          "en": "Power consumption rate list"
        },
        "writable": false,
        "observable": false,
        "schema": {
          "type": "array",
          "minItems": 1,
          "maxItems": 253,
          "items": {
            "oneOf": [
              {
                "type": "number",
                "unit": "%",
                "minimum": 0,
                "maximum": 100
              },
              {
                "type": "string",
                "enum": [
                  "unknown"
                ],
                "values": [
                  {
                    "value": "unknown",
                    "descriptions": {
                      "ja": "不明",
                      "en": "Unknown"
                    },
                    "edt": "0xFF"
                  }
                ]
              }
            ]
          }
        }
      },
      "powerConsumptionAtFullLighting": {
        "epc": "0xC3",
        "descriptions": {
          "ja": "全灯時消費電力",
          "en": "Power consumption when fully lighted"
        },
        "writable": false,
        "observable": false,
        "schema": {
          "type": "number",
          "unit": "W",
          "minimum": 0,
          "maximum": 65533
        }
      },
      "powerConsumptionWillBeSaved": {
        "epc": "0xC4",
        "descriptions": {
          "ja": "節電可能消費電力",
          "en": "Possible power savings"
        },
        "writable": false,
        "observable": false,
        "schema": {
```


©2018-2022 ECHONET Consortium

```
          "type": "number",
          "unit": "W",
          "minimum": 0,
          "maximum": 65533
        }
      },
      "powerConsumptionLimit": {
        "epc": "0xC5",
        "descriptions": {
          "ja": "消費電力制限設定",
          "en": "Power consumption limit setting"
        },
        "writable": true,
        "observable": false,
        "schema": {
          "oneOf": [
            {
              "type": "number",
              "unit": "W",
              "minimum": 0,
              "maximum": 65533
            },
            {
              "type": "string",
              "enum": [
                "cancel"
              ],
              "values": [
                {
                  "value": "cancel",
                  "descriptions": {
                    "ja": "電力制限解除",
                    "en": "Canceling power consumption restriction"
                  },
                  "edt": "0x0000"
                }
              ]
            }
          ]
        }
      },
      "automaticOperationControlling": {
        "epc": "0xC6",
        "descriptions": {
          "ja": "自動動作制御設定",
          "en": "Automatic operation controlling setting"
        },
        "writable": true,
        "observable": false,
        "schema": {
          "type": "boolean",
          "values": [
            {
              "value": true,
              "descriptions": {
                "ja": "ON",
                "en": "ON"
              },
              "edt": "0x30"
            },
            {
```


©2018-2022 ECHONET Consortium

```
              "value": false,
              "descriptions": {
                "ja": "OFF",
                "en": "OFF"
              },
              "edt": "0x31"
            }
          ]
        }
      },
      "fadingControlChangeTime": {
        "epc": "0xC7",
        "descriptions": {
          "ja": "フェード制御変化時間設定",
          "en": "Fading control change time setting"
        },
        "writable": true,
        "observable": false,
        "schema": {
          "type": "number",
          "unit": "second",
          "minimum": 0,
          "maximum": 3600
        }
      }
    }
  }
```


©2018-2022 ECHONET Consortium

Hybrid water heater: hybridWaterHeater: 0x02A6

Back to the List of Devices

Properties

Property Resource Name	Access Method	Data Type	EPC (EL)	Property name (EL)	Note
automaticWaterHeating	GET, PUT	string	0xB0	Automatic water heating setting	
waterHeatingStatus	GET	boolean	0xB2	Water heating status	
heaterStatus	GET	boolean	0xB3	Heater status	
hotWaterSupplyModeForAuxiliaryHeatSourceMachine	GET, PUT	boolean	0xB6	Hot water supply mode setting for auxiliary heat source machine	
heaterModeForAuxiliaryHeatSourceMachine	GET, PUT	boolean	0xB7	Heater mode setting for auxiliary heat source machine.	
linkageModeForSolarPowerGeneration	GET, PUT	string	0xB8	Linkage mode setting for solar power generation	
solarPowerGenerationsUtilizationTime	GET, PUT	object	0xB9	Solar power generations utilization time	
hotWaterSupplyStatus	GET	boolean	0xC3	Hot water supply status	
remainingWater	GET	number	0xE1	Measured amount of hot water remaining in tank	
tankCapacity	GET	number	0xE2	Tank capacity	

Device Description

©2018-2022 ECHONET Consortium

```
{
  "deviceType": "hybridWaterHeater",
  "metaData": {
    "version": "1.3.0"
  },
  "eoj": "0x02A6",
  "descriptions": {
    "ja": "ハイブリッド給湯機",
    "en": "Hybrid water heater"
  },
  "properties": {
    "automaticWaterHeating": {
      "epc": "0xB0",
      "descriptions": {
        "ja": "沸き上げ自動設定",
        "en": "Automatic water heating setting"
      },
      "writable": true,
      "observable": true,
      "schema": {
        "type": "string",
        "enum": [
          "auto",
          "manualNotHeating",
          "manualHeating"
        ],
        "values": [
          {
            "value": "auto",
            "descriptions": {
              "ja": "自動沸き上げ",
              "en": "Automatic water heating"
            },
            "edt": "0x41"
          },
          {
            "value": "manualNotHeating",
            "descriptions": {
              "ja": "手動沸き上げ停止",
              "en": "Water heating manual stop"
            },
            "edt": "0x43"
          },
          {
            "value": "manualHeating",
            "descriptions": {
              "ja": "手動沸き上げ",
              "en": "Manual water heating"
            },
            "edt": "0x42"
          }
        ]
      }
    },
    "waterHeatingStatus": {
      "epc": "0xB2",
      "descriptions": {
        "ja": "給湯沸き上げ中状態",
        "en": "Water heating status"
      },
```


©2018-2022 ECHONET Consortium

```
        "writable": false,
        "observable": true,
        "schema": {
          "type": "boolean",
          "values": [
            {
              "value": true,
              "descriptions": {
                "ja": "沸き上げ中",
                "en": "Water is heating."
              },
              "edt": "0x41"
            },
            {
              "value": false,
              "descriptions": {
                "ja": "非沸き上げ中",
                "en": "Water is not heating."
              },
              "edt": "0x42"
            }
          ]
        }
      },
      "heaterStatus": {
        "epc": "0xB3",
        "descriptions": {
          "ja": "暖房沸き上げ中状態",
          "en": "Heater status"
        },
        "writable": false,
        "observable": true,
        "schema": {
          "type": "boolean",
          "values": [
            {
              "value": true,
              "descriptions": {
                "ja": "沸き上げ中",
                "en": "Water is heating."
              },
              "edt": "0x41"
            },
            {
              "value": false,
              "descriptions": {
                "ja": "非沸き上げ中",
                "en": "Water is not heating."
              },
              "edt": "0x42"
            }
          ]
        }
      },
      "hotWaterSupplyModeForAuxiliaryHeatSourceMachine": {
        "epc": "0xB6",
        "descriptions": {
          "ja": "補助熱源機給湯モード設定",
          "en": "Hot water supply mode setting for auxiliary heat source machine"
        },
        "writable": true,
```


©2018-2022 ECHONET Consortium

```
        "observable": false,
        "schema": {
          "type": "boolean",
          "values": [
            {
              "value": true,
              "descriptions": {
                "ja": "設定する",
                "en": "Set"
              },
              "edt": "0x41"
            },
            {
              "value": false,
              "descriptions": {
                "ja": "設定しない",
                "en": "No setting"
              },
              "edt": "0x42"
            }
          ]
        }
      },
      "heaterModeForAuxiliaryHeatSourceMachine": {
        "epc": "0xB7",
        "descriptions": {
          "ja": "補助熱源機暖房モード設定",
          "en": "Heater mode setting for auxiliary heat source machine."
        },
        "writable": true,
        "observable": false,
        "schema": {
          "type": "boolean",
          "values": [
            {
              "value": true,
              "descriptions": {
                "ja": "設定する",
                "en": "Set"
              },
              "edt": "0x41"
            },
            {
              "value": false,
              "descriptions": {
                "ja": "設定しない",
                "en": "No setting"
              },
              "edt": "0x42"
            }
          ]
        }
      },
      "linkageModeForSolarPowerGeneration": {
        "epc": "0xB8",
        "descriptions": {
          "ja": "太陽光発電連携モード設定",
          "en": "Linkage mode setting for solar power generation"
        },
        "writable": true,
        "observable": true,
```


©2018-2022 ECHONET Consortium

```
        "schema": {
          "type": "string",
          "enum": [
            "modeOff",
            "householdConsumption",
            "prioritizingElectricitySales",
            "economicEfficiency"
          ],
          "values": [
            {
              "value": "modeOff",
              "descriptions": {
                "ja": "モード切",
                "en": "Mode off"
              },
              "edt": "0x41"
            },
            {
              "value": "householdConsumption",
              "descriptions": {
                "ja": "自家消費",
                "en": "Household consumption"
              },
              "edt": "0x42"
            },
            {
              "value": "prioritizingElectricitySales",
              "descriptions": {
                "ja": "売電優先",
                "en": "Prioritizing electricity sales"
              },
              "edt": "0x43"
            },
            {
              "value": "economicEfficiency",
              "descriptions": {
                "ja": "経済",
                "en": "Economic efficiency"
              },
              "edt": "0x44"
            }
          ]
        }
      },
      "solarPowerGenerationsUtilizationTime": {
        "epc": "0xB9",
        "descriptions": {
          "ja": "太陽光発電利用時間",
          "en": "Solar power generations utilization time"
        },
        "writable": true,
        "observable": false,
        "schema": {
          "type": "object",
          "properties": {
            "startTime": {
              "descriptions": {
                "ja": "開始時刻",
                "en": "Start time"
              },
              "type": "string",
```


©2018-2022 ECHONET Consortium

```
              "format": "time"
            },
            "endTime": {
              "descriptions": {
                "ja": "終了時刻",
                "en": "End time"
              },
              "type": "string",
              "format": "time"
            }
          }
        },
        "note": {
          "ja": "秒の指定は無視される",
          "en": "Number of seconds is ignored."
        }
      },
      "hotWaterSupplyStatus": {
        "epc": "0xC3",
        "descriptions": {
          "ja": "給湯中状態",
          "en": "Hot water supply status"
        },
        "writable": false,
        "observable": true,
        "schema": {
          "type": "boolean",
          "values": [
            {
              "value": true,
              "descriptions": {
                "ja": "給湯中",
                "en": "Supplying hot water"
              },
              "edt": "0x41"
            },
            {
              "value": false,
              "descriptions": {
                "ja": "非給湯中",
                "en": "Not supplying hot water"
              },
              "edt": "0x42"
            }
          ]
        }
      },
      "remainingWater": {
        "epc": "0xE1",
        "descriptions": {
          "ja": "残湯量計測値",
          "en": "Measured amount of hot water remaining in tank"
        },
        "writable": false,
        "observable": false,
        "schema": {
          "type": "number",
          "unit": "L",
          "minimum": 0,
          "maximum": 65533
        }
```


©2018-2022 ECHONET Consortium

```
      },
      "tankCapacity": {
        "epc": "0xE2",
        "descriptions": {
          "ja": "タンク容量値",
          "en": "Tank capacity"
        },
        "writable": false,
        "observable": false,
        "schema": {
          "type": "number",
          "unit": "L",
          "minimum": 0,
          "maximum": 65533
        }
      }
    }
  }
```


©2018-2022 ECHONET Consortium

Refrigerator: refrigerator: 0x03B7

Back to the List of Devices

Properties

Property Resource Name	Access Method	Data Type	EPC (EL)	Property name (EL)	Note
quickFreeze	GET, PUT	string	0xA0	Quick freeze function setting	
quickRefrigeration	GET, PUT	string	0xA1	Quick refrigeration function setting	
icemaker	GET, PUT	string	0xA4	Icemaker setting	
icemakerStatus	GET	string	0xA5	Icemaker operation status	
icemakerTankStatus	GET	string	0xA6	Icemaker tank status	
refrigeratorHumidification	GET, PUT	string	0xA8	Refrigerator compartment humidification function setting	
vegetableHumidification	GET, PUT	string	0xA9	Vegetable compartment humidification function setting	
deodorization	GET, PUT	string	0xAD	Deodorization function setting	
doorOpenCloseStatus	GET	string	0xB0	Door open/close status	
doorOpenWarning	GET	boolean	0xB1	Door open warning	
refrigeratorCompartmentDoorStatus	GET	string	0xB2	Refrigerator compartment door status	
freezerCompartmentDoorStatus	GET	string	0xB3	Freezer compartment door status	
iceCompartmentDoorStatus	GET	string	0xB4	Ice compartment door status	
vegetableCompartmentDoorStatus	GET	string	0xB5	Vegetable compartment door status	
multiModeCompartmentDoorStatus	GET	string	0xB6	Multi-refrigerating mode compartment door status	
measuredRefrigeratorTemperature	GET	number	0xD1	Measured refrigerator compartment temperature	

©2018-2022 ECHONET Consortium

Property Resource Name	Access Method	Data Type	EPC (EL)	Property name (EL)	Note
measuredFreezerTemperature	GET	number	0xD2	Measured freezer compartment temperature	
measuredIceTemperature	GET	number	0xD3	Measured subzero-fresh compartment temperature	
measuredVegetableTemperature	GET	number	0xD4	Measured vegetable compartment temperature	
measuredMultiModeTemperature	GET	number	0xD5	Measured multi-refrigerating mode compartment temperature	
compressorRotationSpeed	GET	object	0xD8	Compressor rotation speed	
electricCurrentConsumption	GET	number	0xDA	Measured electric current consumption	
ratedPowerConsumption	GET	number	0xDC	Rated power consumption	
maximumAllowableTemperatureLevel	GET	object	0xE0	Maximum allowable temperature setting level	
refrigeratorTemperature	GET, PUT	number	0xE2	Refrigerator compartment temperature setting	
freezerTemperature	GET, PUT	number	0xE3	Freezer compartment temperature setting	
iceTemperature	GET, PUT	number	0xE4	Ice compartment temperature setting	
vegetableTemperature	GET, PUT	number	0xE5	Vegetable compartment temperature setting	
multiModeTemperature	GET, PUT	number	0xE6	Multi-refrigerating mode compartment temperature setting	
refrigeratorTemperatureLevel	GET, PUT	number	0xE9	Refrigerator compartment temperature level setting	
freezerTemperatureLevel	GET, PUT	number	0xEA	Freezer compartment temperature level setting	
iceTemperatureLevel	GET, PUT	number	0xEB	Ice compartment temperature level setting	
vegetableTemperatureLevel	GET, PUT	number	0xEC	Vegetable compartment temperature level setting	

©2018-2022 ECHONET Consortium

Property Resource Name	Access Method	Data Type	EPC (EL)	Property name (EL)	Note
multiModeTemperatureLevel	GET, PUT	number	0xED	Multi-refrigerating mode compartment temperature level setting	

Device Description

```
{
  "deviceType": "refrigerator",
  "metaData": {
    "version": "1.4.0"
  },
  "eoj": "0x03B7",
  "descriptions": {
    "ja": "冷凍冷蔵庫",
    "en": "Refrigerator"
  },
  "properties": {
    "quickFreeze": {
      "epc": "0xA0",
      "descriptions": {
        "ja": "急速冷凍動作設定",
        "en": "Quick freeze function setting"
      },
      "writable": true,
      "observable": false,
      "schema": {
        "type": "string",
        "enum": [
          "normal",
          "quick",
          "standby"
        ],
        "values": [
          {
            "value": "normal",
            "descriptions": {
              "ja": "通常冷凍",
              "en": "Normal operation"
            },
            "edt": "0x41"
          },
          {
            "value": "quick",
            "descriptions": {
              "ja": "急速冷凍",
              "en": "Quick freeze"
            },
            "edt": "0x42"
          },
          {
            "value": "standby",
            "descriptions": {
              "ja": "急速冷凍待機",
              "en": "Standby for quick freezing"
            },
```


©2018-2022 ECHONET Consortium

```
              "edt": "0x43"
            }
          ]
        }
      },
      "quickRefrigeration": {
        "epc": "0xA1",
        "descriptions": {
          "ja": "急速冷蔵動作設定",
          "en": "Quick refrigeration function setting"
        },
        "writable": true,
        "observable": false,
        "schema": {
          "type": "string",
          "enum": [
            "normal",
            "quick",
            "standby"
          ],
          "values": [
            {
              "value": "normal",
              "descriptions": {
                "ja": "通常冷蔵",
                "en": "Normal operation"
              },
              "edt": "0x41"
            },
            {
              "value": "quick",
              "descriptions": {
                "ja": "急速冷蔵",
                "en": "Quick refrigeration"
              },
              "edt": "0x42"
            },
            {
              "value": "standby",
              "descriptions": {
                "ja": "急速冷蔵待機",
                "en": "Standby for quick refrigeration"
              },
              "edt": "0x43"
            }
          ]
        }
      },
      "icemaker": {
        "epc": "0xA4",
        "descriptions": {
          "ja": "製氷許可設定",
          "en": "Icemaker setting"
        },
        "writable": true,
        "observable": false,
        "schema": {
          "type": "string",
          "enum": [
            "enable",
            "disable",
```


©2018-2022 ECHONET Consortium

```
            "standby"
          ],
          "values": [
            {
              "value": "enable",
              "descriptions": {
                "ja": "製氷許可",
                "en": "Enable icemaker"
              },
              "edt": "0x41"
            },
            {
              "value": "disable",
              "descriptions": {
                "ja": "製氷禁止",
                "en": "Disable icemaker"
              },
              "edt": "0x42"
            },
            {
              "value": "standby",
              "descriptions": {
                "ja": "製氷一定時間禁止",
                "en": "Temporarily disable icemaker"
              },
              "edt": "0x43"
            }
          ]
        }
      },
      "icemakerStatus": {
        "epc": "0xA5",
        "descriptions": {
          "ja": "製氷動作状態",
          "en": "Icemaker operation status"
        },
        "writable": false,
        "observable": false,
        "schema": {
          "type": "string",
          "enum": [
            "running",
            "stopped"
          ],
          "values": [
            {
              "value": "running",
              "descriptions": {
                "ja": "運転中",
                "en": "Ice-making in progress"
              },
              "edt": "0x41"
            },
            {
              "value": "stopped",
              "descriptions": {
                "ja": "停止中",
                "en": "Ice-making stopped."
              },
              "edt": "0x42"
            }
```


©2018-2022 ECHONET Consortium

```
          ]
        }
      },
      "icemakerTankStatus": {
        "epc": "0xA6",
        "descriptions": {
          "ja": "製氷用給水タンク状態",
          "en": "Icemaker tank status"
        },
        "writable": false,
        "observable": false,
        "schema": {
          "type": "string",
          "enum": [
            "normal",
            "warning"
          ],
          "values": [
            {
              "value": "normal",
              "descriptions": {
                "ja": "タンク水あり",
                "en": "Icemaker tank contains water."
              },
              "edt": "0x41"
            },
            {
              "value": "warning",
              "descriptions": {
                "ja": "タンクなし or 水なし",
                "en": "There is no water left in the icemaker tank or the icemaker tank has not
been positioned correctly in the refrigerator."
              },
              "edt": "0x42"
            }
          ]
        }
      },
      "refrigeratorHumidification": {
        "epc": "0xA8",
        "descriptions": {
          "ja": "冷蔵室加湿動作設定",
          "en": "Refrigerator compartment humidification function setting"
        },
        "writable": true,
        "observable": false,
        "schema": {
          "type": "string",
          "enum": [
            "on",
            "off"
          ],
          "values": [
            {
              "value": "on",
              "descriptions": {
                "ja": "加湿ON",
                "en": "ON"
              },
              "edt": "0x41"
            },
```


©2018-2022 ECHONET Consortium

```
            {
              "value": "off",
              "descriptions": {
                "ja": "加湿OFF",
                "en": "OFF"
              },
              "edt": "0x42"
            }
          ]
        }
      },
      "vegetableHumidification": {
        "epc": "0xA9",
        "descriptions": {
          "ja": "野菜室加湿動作設定",
          "en": "Vegetable compartment humidification function setting"
        },
        "writable": true,
        "observable": false,
        "schema": {
          "type": "string",
          "enum": [
            "on",
            "off"
          ],
          "values": [
            {
              "value": "on",
              "descriptions": {
                "ja": "加湿ON",
                "en": "ON"
              },
              "edt": "0x41"
            },
            {
              "value": "off",
              "descriptions": {
                "ja": "加湿OFF",
                "en": "OFF"
              },
              "edt": "0x42"
            }
          ]
        }
      },
      "deodorization": {
        "epc": "0xAD",
        "descriptions": {
          "ja": "脱臭動作設定",
          "en": "Deodorization function setting"
        },
        "writable": true,
        "observable": false,
        "schema": {
          "type": "string",
          "enum": [
            "on",
            "off"
          ],
          "values": [
            {
```


©2018-2022 ECHONET Consortium

```
              "value": "on",
              "descriptions": {
                "ja": "脱臭ON",
                "en": "ON"
              },
              "edt": "0x41"
            },
            {
              "value": "off",
              "descriptions": {
                "ja": "脱臭OFF",
                "en": "OFF"
              },
              "edt": "0x42"
            }
          ]
        }
      },
      "doorOpenCloseStatus": {
        "epc": "0xB0",
        "descriptions": {
          "ja": "ドア開閉状態",
          "en": "Door open/close status"
        },
        "writable": false,
        "observable": false,
        "schema": {
          "type": "string",
          "enum": [
            "anyOpen",
            "allClose"
          ],
          "values": [
            {
              "value": "anyOpen",
              "descriptions": {
                "ja": "ドア開",
                "en": "Door open"
              },
              "edt": "0x41"
            },
            {
              "value": "allClose",
              "descriptions": {
                "ja": "ドア閉",
                "en": "Door close"
              },
              "edt": "0x42"
            }
          ]
        }
      },
      "doorOpenWarning": {
        "epc": "0xB1",
        "descriptions": {
          "ja": "ドア開放警告状態",
          "en": "Door open warning"
        },
        "writable": false,
        "observable": true,
        "schema": {
```


©2018-2022 ECHONET Consortium

```
          "type": "boolean",
          "values": [
            {
              "value": true,
              "descriptions": {
                "ja": "ドア開放警告有",
                "en": "Door open warning found"
              },
              "edt": "0x41"
            },
            {
              "value": false,
              "descriptions": {
                "ja": "ドア開放警告無",
                "en": "Door open warning not found"
              },
              "edt": "0x42"
            }
          ]
        }
      },
      "refrigeratorCompartmentDoorStatus": {
        "epc": "0xB2",
        "descriptions": {
          "ja": "冷蔵室ドア開閉状態",
          "en": "Refrigerator compartment door status"
        },
        "writable": false,
        "observable": false,
        "schema": {
          "type": "string",
          "enum": [
            "open",
            "close"
          ],
          "values": [
            {
              "value": "open",
              "descriptions": {
                "ja": "ドア開",
                "en": "Open"
              },
              "edt": "0x41"
            },
            {
              "value": "close",
              "descriptions": {
                "ja": "ドア閉",
                "en": "Closed"
              },
              "edt": "0x42"
            }
          ]
        }
      },
      "freezerCompartmentDoorStatus": {
        "epc": "0xB3",
        "descriptions": {
          "ja": "冷凍室ドア開閉状態",
          "en": "Freezer compartment door status"
        },
```


©2018-2022 ECHONET Consortium

```
        "writable": false,
        "observable": false,
        "schema": {
          "type": "string",
          "enum": [
            "open",
            "close"
          ],
          "values": [
            {
              "value": "open",
              "descriptions": {
                "ja": "ドア開",
                "en": "Open"
              },
              "edt": "0x41"
            },
            {
              "value": "close",
              "descriptions": {
                "ja": "ドア閉",
                "en": "Closed"
              },
              "edt": "0x42"
            }
          ]
        }
      },
      "iceCompartmentDoorStatus": {
        "epc": "0xB4",
        "descriptions": {
          "ja": "氷温室ドア開閉状態",
          "en": "Ice compartment door status"
        },
        "writable": false,
        "observable": false,
        "schema": {
          "type": "string",
          "enum": [
            "open",
            "close"
          ],
          "values": [
            {
              "value": "open",
              "descriptions": {
                "ja": "ドア開",
                "en": "Open"
              },
              "edt": "0x41"
            },
            {
              "value": "close",
              "descriptions": {
                "ja": "ドア閉",
                "en": "Closed"
              },
              "edt": "0x42"
            }
          ]
        }
```


©2018-2022 ECHONET Consortium

```
    },
    "vegetableCompartmentDoorStatus": {
      "epc": "0xB5",
      "descriptions": {
        "ja": "野菜室ドア開閉状態",
        "en": "Vegetable compartment door status"
      },
      "writable": false,
      "observable": false,
      "schema": {
        "type": "string",
        "enum": [
          "open",
          "close"
        ],
        "values": [
          {
            "value": "open",
            "descriptions": {
              "ja": "ドア開",
              "en": "Open"
            },
            "edt": "0x41"
          },
          {
            "value": "close",
            "descriptions": {
              "ja": "ドア閉",
              "en": "Closed"
            },
            "edt": "0x42"
          }
        ]
      }
    },
    "multiModeCompartmentDoorStatus": {
      "epc": "0xB6",
      "descriptions": {
        "ja": "切換室ドア開閉状態",
        "en": "Multi-refrigerating mode compartment door status"
      },
      "writable": false,
      "observable": false,
      "schema": {
        "type": "string",
        "enum": [
          "open",
          "close"
        ],
        "values": [
          {
            "value": "open",
            "descriptions": {
              "ja": "ドア開",
              "en": "Open"
            },
            "edt": "0x41"
          },
          {
            "value": "close",
            "descriptions": {
```


©2018-2022 ECHONET Consortium

```
                "ja": "ドア閉",
                "en": "Closed"
              },
              "edt": "0x42"
            }
          ]
        }
      },
      "measuredRefrigeratorTemperature": {
        "epc": "0xD1",
        "descriptions": {
          "ja": "冷蔵室温度計測値",
          "en": "Measured refrigerator compartment temperature"
        },
        "writable": false,
        "observable": false,
        "schema": {
          "type": "number",
          "unit": "Celsius",
          "minimum": -127,
          "maximum": 126
        }
      },
      "measuredFreezerTemperature": {
        "epc": "0xD2",
        "descriptions": {
          "ja": "冷凍室温度計測値",
          "en": "Measured freezer compartment temperature"
        },
        "writable": false,
        "observable": false,
        "schema": {
          "type": "number",
          "unit": "Celsius",
          "minimum": -127,
          "maximum": 126
        }
      },
      "measuredIceTemperature": {
        "epc": "0xD3",
        "descriptions": {
          "ja": "氷温室温度計測値",
          "en": "Measured subzero-fresh compartment temperature"
        },
        "writable": false,
        "observable": false,
        "schema": {
          "type": "number",
          "unit": "Celsius",
          "minimum": -127,
          "maximum": 126
        }
      },
      "measuredVegetableTemperature": {
        "epc": "0xD4",
        "descriptions": {
          "ja": "野菜室温度計測値",
          "en": "Measured vegetable compartment temperature"
        },
        "writable": false,
        "observable": false,
```


©2018-2022 ECHONET Consortium

```
          "schema": {
            "type": "number",
            "unit": "Celsius",
            "minimum": -127,
            "maximum": 126
          }
        },
        "measuredMultiModeTemperature": {
          "epc": "0xD5",
          "descriptions": {
            "ja": "切換室温度計測値",
            "en": "Measured multi-refrigerating mode compartment temperature"
          },
          "writable": false,
          "observable": false,
          "schema": {
            "type": "number",
            "unit": "Celsius",
            "minimum": -127,
            "maximum": 126
          }
        },
        "compressorRotationSpeed": {
          "epc": "0xD8",
          "descriptions": {
            "ja": "圧縮機回転数レベル",
            "en": "Compressor rotation speed"
          },
          "writable": false,
          "observable": false,
          "schema": {
            "type": "object",
            "properties": {
              "maximumRotationSpeed": {
                "descriptions": {
                  "ja": "最大回転数レベル",
                  "en": "Maximum rotation speed level"
                },
                "type": "number",
                "minimum": 1,
                "maximum": 255
              },
              "rotationSpeed": {
                "descriptions": {
                  "ja": "回転数レベル(0は停止を示す)",
                  "en": "Rotation speed level(Value 0 represents Stop)"
                },
                "type": "number",
                "minimum": 0,
                "maximum": 255
              }
            }
          }
        },
        "electricCurrentConsumption": {
          "epc": "0xDA",
          "descriptions": {
            "ja": "消費電流計測値",
            "en": "Measured electric current consumption"
          },
          "writable": false,
```


©2018-2022 ECHONET Consortium

```
        "observable": false,
        "schema": {
          "type": "number",
          "unit": "A",
          "minimum": 0,
          "maximum": 6553.3,
          "multipleOf": 0.1
        }
      },
      "ratedPowerConsumption": {
        "epc": "0xDC",
        "descriptions": {
          "ja": "定格消費電力値",
          "en": "Rated power consumption"
        },
        "writable": false,
        "observable": false,
        "schema": {
          "type": "number",
          "unit": "W",
          "minimum": 0,
          "maximum": 65533
        }
      },
      "maximumAllowableTemperatureLevel": {
        "epc": "0xE0",
        "descriptions": {
          "ja": "設定可能温度レベル最大値",
          "en": "Maximum allowable temperature setting level"
        },
        "writable": false,
        "observable": false,
        "schema": {
          "type": "object",
          "properties": {
            "refrigeratorCompartmentLevel": {
              "descriptions": {
                "ja": "冷蔵室",
                "en": "Refrigerator compartment"
              },
              "type": "number",
              "minimum": 0,
              "maximum": 255
            },
            "freezerCompartmentLevel": {
              "descriptions": {
                "ja": "冷凍室",
                "en": "Freezer compartment"
              },
              "type": "number",
              "minimum": 0,
              "maximum": 255
            },
            "iceCompartmentLevel": {
              "descriptions": {
                "ja": "氷温室",
                "en": "Subzero-fresh compartment"
              },
              "type": "number",
              "minimum": 0,
              "maximum": 255
```


©2018-2022 ECHONET Consortium

```
            },
            "vegetableCompartmentLevel": {
              "descriptions": {
                "ja": "野菜室",
                "en": "Vegetable compartment"
              },
              "type": "number",
              "minimum": 0,
              "maximum": 255
            },
            "multiModeCompartmentLevel": {
              "descriptions": {
                "ja": "切換室",
                "en": "Multi-refrigerating mode compartment"
              },
              "type": "number",
              "minimum": 0,
              "maximum": 255
            }
          }
        },
        "note": {
          "ja": "値0は室未搭載を表す",
          "en": "Value 0 represents no compartment."
        }
      },
      "refrigeratorTemperature": {
        "epc": "0xE2",
        "descriptions": {
          "ja": "冷蔵室温度設定値",
          "en": "Refrigerator compartment temperature setting"
        },
        "writable": true,
        "observable": false,
        "schema": {
          "type": "number",
          "unit": "Celsius",
          "minimum": -127,
          "maximum": 126
        }
      },
      "freezerTemperature": {
        "epc": "0xE3",
        "descriptions": {
          "ja": "冷凍室温度設定値",
          "en": "Freezer compartment temperature setting"
        },
        "writable": true,
        "observable": false,
        "schema": {
          "type": "number",
          "unit": "Celsius",
          "minimum": -127,
          "maximum": 126
        }
      },
      "iceTemperature": {
        "epc": "0xE4",
        "descriptions": {
          "ja": "氷温室温度設定値",
          "en": "Ice compartment temperature setting"
```


©2018-2022 ECHONET Consortium

```
        },
        "writable": true,
        "observable": false,
        "schema": {
          "type": "number",
          "unit": "Celsius",
          "minimum": -127,
          "maximum": 126
        }
      },
      "vegetableTemperature": {
        "epc": "0xE5",
        "descriptions": {
          "ja": "野菜室温度設定値",
          "en": "Vegetable compartment temperature setting"
        },
        "writable": true,
        "observable": false,
        "schema": {
          "type": "number",
          "unit": "Celsius",
          "minimum": -127,
          "maximum": 126
        }
      },
      "multiModeTemperature": {
        "epc": "0xE6",
        "descriptions": {
          "ja": "切換室温度設定値",
          "en": "Multi-refrigerating mode compartment temperature setting"
        },
        "writable": true,
        "observable": false,
        "schema": {
          "type": "number",
          "unit": "Celsius",
          "minimum": -127,
          "maximum": 126
        }
      },
      "refrigeratorTemperatureLevel": {
        "epc": "0xE9",
        "descriptions": {
          "ja": "冷蔵室温度レベル設定",
          "en": "Refrigerator compartment temperature level setting"
        },
        "writable": true,
        "observable": false,
        "schema": {
          "type": "number",
          "minimum": 1,
          "maximum": 255
        },
        "note": {
          "ja": "設定可能な温度レベルの最大値は'設定可能温度レベル最大値'で取得する",
          "en": "The maximum allowable temperature setting level shall be acquired with the
'maximum allowable temperature setting level' property."
        }
      },
      "freezerTemperatureLevel": {
        "epc": "0xEA",
```


©2018-2022 ECHONET Consortium

```
        "descriptions": {
          "ja": "冷凍室温度レベル設定",
          "en": "Freezer compartment temperature level setting"
        },
        "writable": true,
        "observable": false,
        "schema": {
          "type": "number",
          "minimum": 1,
          "maximum": 255
        },
        "note": {
          "ja": "設定可能な温度レベルの最大値は'設定可能温度レベル最大値'で取得する",
          "en": "The maximum allowable temperature setting level shall be acquired with the
'maximum allowable temperature setting level' property."
        }
      },
      "iceTemperatureLevel": {
        "epc": "0xEB",
        "descriptions": {
          "ja": "氷温室温度レベル設定",
          "en": "Ice compartment temperature level setting"
        },
        "writable": true,
        "observable": false,
        "schema": {
          "type": "number",
          "minimum": 1,
          "maximum": 255
        },
        "note": {
          "ja": "設定可能な温度レベルの最大値は'設定可能温度レベル最大値'で取得する",
          "en": "The maximum allowable temperature setting level shall be acquired with the
'maximum allowable temperature setting level' property."
        }
      },
      "vegetableTemperatureLevel": {
        "epc": "0xEC",
        "descriptions": {
          "ja": "野菜室温度レベル設定",
          "en": "Vegetable compartment temperature level setting"
        },
        "writable": true,
        "observable": false,
        "schema": {
          "type": "number",
          "minimum": 1,
          "maximum": 255
        },
        "note": {
          "ja": "設定可能な温度レベルの最大値は'設定可能温度レベル最大値'で取得する",
          "en": "The maximum allowable temperature setting level shall be acquired with the
'maximum allowable temperature setting level' property."
        }
      },
      "multiModeTemperatureLevel": {
        "epc": "0xED",
        "descriptions": {
          "ja": "切換室温度レベル設定",
          "en": "Multi-refrigerating mode compartment temperature level setting"
        },
```


©2018-2022 ECHONET Consortium

```
        "writable": true,
        "observable": false,
        "schema": {
          "type": "number",
          "minimum": 1,
          "maximum": 255
        },
        "note": {
          "ja": "設定可能な温度レベルの最大値は'設定可能温度レベル最大値'で取得する",
          "en": "The maximum allowable temperature setting level shall be acquired with the
'maximum allowable temperature setting level' property."
        }
      }
    }
  }
```


©2018-2022 ECHONET Consortium

Cooking heater: cookingHeater: 0x03B9

Back to the List of Devices

Properties

Property Resource Name	Access Method	Data Type	EPC (EL)	Property name (EL)	Note
relativeTimeOfOffTimer	GET, PUT	object	0x96	Relative time settings of off timers	
childLock	GET, PUT	boolean	0xA1	Child lock setting	
radiantHeaterLock	GET, PUT	boolean	0xA2	Radiant heater lock setting	
heatingStatus	GET	object	0xB1	Heating status	
heatingOperation	GET, PUT	object	0xB2	Heating setting	
heatingModesOfStoves	GET, PUT	object	0xE0	Heating modes of stoves	
heatingTemperature	GET, PUT	object	0xE3	Heating temperature setting	
heatingPower	GET, PUT	object	0xE7	Heating power setting	*1

Actions

Property Resource Name	Access Method	EPC (EL)	Property name (EL)	Note
allStop	POST	0xB3	All stop setting	

*1 Heating output setting of left cooking stove/ right cooking stove/ back cooking stove/ roaster shall be defined by 1 property with either electric energy/ level/status representation.

Device Description

```
{
  "deviceType": "cookingHeater",
  "metaData": {
    "version": "1.4.0"
  },
  "eoj": "0x03B9",
  "descriptions": {
    "ja": "クッキングヒータ",
    "en": "Cooking heater"
  },
  "properties": {
    "relativeTimeOfOffTimer": {
      "epc": "0x96",
      "descriptions": {
        "ja": "切タイマ相対時間設定値",
        "en": "Relative time settings of off timers"
      },
      "writable": true,
      "observable": false,
```


©2018-2022 ECHONET Consortium

```
        "schema": {
          "type": "object",
          "properties": {
            "leftStove": {
              "descriptions": {
                "ja": "左コンロ切タイマ時間",
                "en": "Relative time setting of the left stove off timer"
              },
              "oneOf": [
                {
                  "type": "string",
                  "format": "time"
                },
                {
                  "type": "string",
                  "enum": [
                    "noSetting"
                  ],
                  "values": [
                    {
                      "value": "noSetting",
                      "descriptions": {
                        "ja": "未設定（GET の場合）、設定なし（SET の場合）",
                        "en": "No setting"
                      },
                      "edt": "0xFFFFFF"
                    }
                  ]
                }
              ]
            },
            "rightStove": {
              "descriptions": {
                "ja": "右コンロ切タイマ時間",
                "en": "Relative time setting of the right stove off timer"
              },
              "oneOf": [
                {
                  "type": "string",
                  "format": "time"
                },
                {
                  "type": "string",
                  "enum": [
                    "noSetting"
                  ],
                  "values": [
                    {
                      "value": "noSetting",
                      "descriptions": {
                        "ja": "未設定（GET の場合）、設定なし（SET の場合）",
                        "en": "No setting"
                      },
                      "edt": "0xFFFFFF"
                    }
                  ]
                }
              ]
            },
            "farSideStove": {
              "descriptions": {
```


©2018-2022 ECHONET Consortium

```
                "ja": "奥コンロ切タイマ時間",
                "en": "Relative time setting of the far-side stove off timer"
              },
              "oneOf": [
                {
                  "type": "string",
                  "format": "time"
                },
                {
                  "type": "string",
                  "enum": [
                    "noSetting"
                  ],
                  "values": [
                    {
                      "value": "noSetting",
                      "descriptions": {
                        "ja": "未設定（GET の場合）、設定なし（SET の場合）",
                        "en": "No setting"
                      },
                      "edt": "0xFFFFFF"
                    }
                  ]
                }
              ]
            },
            "roaster": {
              "descriptions": {
                "ja": "ロースタ切タイマ時間",
                "en": "Relative time setting of the roaster off timer"
              },
              "oneOf": [
                {
                  "type": "string",
                  "format": "time"
                },
                {
                  "type": "string",
                  "enum": [
                    "noSetting"
                  ],
                  "values": [
                    {
                      "value": "noSetting",
                      "descriptions": {
                        "ja": "未設定（GET の場合）、設定なし（SET の場合）",
                        "en": "No setting"
                      },
                      "edt": "0xFFFFFF"
                    }
                  ]
                }
              ]
            }
          }
        }
      },
      "childLock": {
        "epc": "0xA1",
        "descriptions": {
          "ja": "チャイルドロック設定",
```


©2018-2022 ECHONET Consortium

```
          "en": "Child lock setting"
        },
        "writable": true,
        "observable": false,
        "schema": {
          "type": "boolean",
          "values": [
            {
              "value": true,
              "descriptions": {
                "ja": "チャイルドロックON",
                "en": "Child lock on"
              },
              "edt": "0x41"
            },
            {
              "value": false,
              "descriptions": {
                "ja": "チャイルドロックOFF",
                "en": "Child lock off"
              },
              "edt": "0x40"
            }
          ]
        }
      },
      "radiantHeaterLock": {
        "epc": "0xA2",
        "descriptions": {
          "ja": "ラジエントヒータロック設定",
          "en": "Radiant heater lock setting"
        },
        "writable": true,
        "observable": false,
        "schema": {
          "type": "boolean",
          "values": [
            {
              "value": true,
              "descriptions": {
                "ja": "ラジエントヒータロックON",
                "en": "Radiant heater lock on"
              },
              "edt": "0x41"
            },
            {
              "value": false,
              "descriptions": {
                "ja": "ラジエントヒータロックOFF",
                "en": "Radiant heater lock off"
              },
              "edt": "0x40"
            }
          ]
        }
      },
      "heatingStatus": {
        "epc": "0xB1",
        "descriptions": {
          "ja": "加熱状態",
          "en": "Heating status"
```


©2018-2022 ECHONET Consortium

```
        },
        "writable": false,
        "observable": false,
        "schema": {
          "type": "object",
          "properties": {
            "leftStove": {
              "descriptions": {
                "ja": "左コンロ加熱状態",
                "en": "Heating status of the left stove"
              },
              "type": "string",
              "enum": [
                "standingBy",
                "operating",
                "temporarilyStopped",
                "heatingProhibited",
                "unknown"
              ],
              "values": [
                {
                  "value": "standingBy",
                  "descriptions": {
                    "ja": "待機中",
                    "en": "Standing by"
                  },
                  "edt": "0x40"
                },
                {
                  "value": "operating",
                  "descriptions": {
                    "ja": "運転中",
                    "en": "Operating"
                  },
                  "edt": "0x41"
                },
                {
                  "value": "temporarilyStopped",
                  "descriptions": {
                    "ja": "一時停止中",
                    "en": "Temporarily stopped"
                  },
                  "edt": "0x42"
                },
                {
                  "value": "heatingProhibited",
                  "descriptions": {
                    "ja": "加熱禁止状態",
                    "en": "Heating prohibited"
                  },
                  "edt": "0x50"
                },
                {
                  "value": "unknown",
                  "descriptions": {
                    "ja": "不明",
                    "en": "Unknown"
                  },
                  "edt": "0xFF"
                }
              ]
```


©2018-2022 ECHONET Consortium

```
            },
            "rightStove": {
              "descriptions": {
                "ja": "右コンロ加熱状態",
                "en": "Heating status of the right stove"
              },
              "type": "string",
              "enum": [
                "standingBy",
                "operating",
                "temporarilyStopped",
                "heatingProhibited",
                "unknown"
              ],
              "values": [
                {
                  "value": "standingBy",
                  "descriptions": {
                    "ja": "待機中",
                    "en": "Standing by"
                  },
                  "edt": "0x40"
                },
                {
                  "value": "operating",
                  "descriptions": {
                    "ja": "運転中",
                    "en": "Operating"
                  },
                  "edt": "0x41"
                },
                {
                  "value": "temporarilyStopped",
                  "descriptions": {
                    "ja": "一時停止中",
                    "en": "Temporarily stopped"
                  },
                  "edt": "0x42"
                },
                {
                  "value": "heatingProhibited",
                  "descriptions": {
                    "ja": "加熱禁止状態",
                    "en": "Heating prohibited"
                  },
                  "edt": "0x50"
                },
                {
                  "value": "unknown",
                  "descriptions": {
                    "ja": "不明",
                    "en": "Unknown"
                  },
                  "edt": "0xFF"
                }
              ]
            },
            "farSideStove": {
              "descriptions": {
                "ja": "奥コンロ加熱状態",
                "en": "Heating status of the far-side stove"
```


©2018-2022 ECHONET Consortium

```
            },
            "type": "string",
            "enum": [
              "standingBy",
              "operating",
              "temporarilyStopped",
              "heatingProhibited",
              "unknown"
            ],
            "values": [
              {
                "value": "standingBy",
                "descriptions": {
                  "ja": "待機中",
                  "en": "Standing by"
                },
                "edt": "0x40"
              },
              {
                "value": "operating",
                "descriptions": {
                  "ja": "運転中",
                  "en": "Operating"
                },
                "edt": "0x41"
              },
              {
                "value": "temporarilyStopped",
                "descriptions": {
                  "ja": "一時停止中",
                  "en": "Temporarily stopped"
                },
                "edt": "0x42"
              },
              {
                "value": "heatingProhibited",
                "descriptions": {
                  "ja": "加熱禁止状態",
                  "en": "Heating prohibited"
                },
                "edt": "0x50"
              },
              {
                "value": "unknown",
                "descriptions": {
                  "ja": "不明",
                  "en": "Unknown"
                },
                "edt": "0xFF"
              }
            ]
          },
          "roaster": {
            "descriptions": {
              "ja": "ロースタ加熱状態",
              "en": "Heating status of the roaster"
            },
            "type": "string",
            "enum": [
              "standingBy",
              "operating",
```


©2018-2022 ECHONET Consortium

```
                "temporarilyStopped",
                "heatingProhibited",
                "unknown"
              ],
              "values": [
                {
                  "value": "standingBy",
                  "descriptions": {
                    "ja": "待機中",
                    "en": "Standing by"
                  },
                  "edt": "0x40"
                },
                {
                  "value": "operating",
                  "descriptions": {
                    "ja": "運転中",
                    "en": "Operating"
                  },
                  "edt": "0x41"
                },
                {
                  "value": "temporarilyStopped",
                  "descriptions": {
                    "ja": "一時停止中",
                    "en": "Temporarily stopped"
                  },
                  "edt": "0x42"
                },
                {
                  "value": "heatingProhibited",
                  "descriptions": {
                    "ja": "加熱禁止状態",
                    "en": "Heating prohibited"
                  },
                  "edt": "0x50"
                },
                {
                  "value": "unknown",
                  "descriptions": {
                    "ja": "不明",
                    "en": "Unknown"
                  },
                  "edt": "0xFF"
                }
              ]
            }
          }
        }
      },
      "heatingOperation": {
        "epc": "0xB2",
        "descriptions": {
          "ja": "加熱設定",
          "en": "Heating setting"
        },
        "writable": true,
        "observable": false,
        "schema": {
          "type": "object",
          "properties": {
```


©2018-2022 ECHONET Consortium

```
            "leftStove": {
              "descriptions": {
                "ja": "左コンロ設定",
                "en": "Left stove setting"
              },
              "type": "string",
              "enum": [
                "stopHeating",
                "startOrResumeHeating",
                "temporarilyStopHeating",
                "noSetting"
              ],
              "values": [
                {
                  "value": "stopHeating",
                  "descriptions": {
                    "ja": "加熱停止",
                    "en": "Stop heating"
                  },
                  "edt": "0x40"
                },
                {
                  "value": "startOrResumeHeating",
                  "descriptions": {
                    "ja": "加熱開始･再開",
                    "en": "Start/resume heating"
                  },
                  "edt": "0x41"
                },
                {
                  "value": "temporarilyStopHeating",
                  "descriptions": {
                    "ja": "加熱一時停止",
                    "en": "Temporarily stop heating"
                  },
                  "edt": "0x42"
                },
                {
                  "value": "noSetting",
                  "descriptions": {
                    "ja": "未設定（GET の場合）、設定なし（SET の場合）",
                    "en": "No setting"
                  },
                  "edt": "0xFF"
                }
              ]
            },
            "rightStove": {
              "descriptions": {
                "ja": "右コンロ設定",
                "en": "Right stove setting"
              },
              "type": "string",
              "enum": [
                "stopHeating",
                "startOrResumeHeating",
                "temporarilyStopHeating",
                "noSetting"
              ],
              "values": [
                {
```


©2018-2022 ECHONET Consortium

```
                "value": "stopHeating",
                "descriptions": {
                  "ja": "加熱停止",
                  "en": "Stop heating"
                },
                "edt": "0x40"
              },
              {
                "value": "startOrResumeHeating",
                "descriptions": {
                  "ja": "加熱開始･再開",
                  "en": "Start/resume heating"
                },
                "edt": "0x41"
              },
              {
                "value": "temporarilyStopHeating",
                "descriptions": {
                  "ja": "加熱一時停止",
                  "en": "Temporarily stop heating"
                },
                "edt": "0x42"
              },
              {
                "value": "noSetting",
                "descriptions": {
                  "ja": "未設定（GET の場合）、設定なし（SET の場合）",
                  "en": "No setting"
                },
                "edt": "0xFF"
              }
            ]
          },
          "farSideStove": {
            "descriptions": {
              "ja": "奥コンロ設定",
              "en": "Far-side stove setting"
            },
            "type": "string",
            "enum": [
              "stopHeating",
              "startOrResumeHeating",
              "temporarilyStopHeating",
              "noSetting"
            ],
            "values": [
              {
                "value": "stopHeating",
                "descriptions": {
                  "ja": "加熱停止",
                  "en": "Stop heating"
                },
                "edt": "0x40"
              },
              {
                "value": "startOrResumeHeating",
                "descriptions": {
                  "ja": "加熱開始･再開",
                  "en": "Start/resume heating"
                },
                "edt": "0x41"
```


©2018-2022 ECHONET Consortium

```
            },
            {
              "value": "temporarilyStopHeating",
              "descriptions": {
                "ja": "加熱一時停止",
                "en": "Temporarily stop heating"
              },
              "edt": "0x42"
            },
            {
              "value": "noSetting",
              "descriptions": {
                "ja": "未設定（GET の場合）、設定なし（SET の場合）",
                "en": "No setting"
              },
              "edt": "0xFF"
            }
          ]
        },
        "roaster": {
          "descriptions": {
            "ja": "ロースタ設定",
            "en": "Roaster setting"
          },
          "type": "string",
          "enum": [
            "stopHeating",
            "startOrResumeHeating",
            "temporarilyStopHeating",
            "noSetting"
          ],
          "values": [
            {
              "value": "stopHeating",
              "descriptions": {
                "ja": "加熱停止",
                "en": "Stop heating"
              },
              "edt": "0x40"
            },
            {
              "value": "startOrResumeHeating",
              "descriptions": {
                "ja": "加熱開始･再開",
                "en": "Start/resume heating"
              },
              "edt": "0x41"
            },
            {
              "value": "temporarilyStopHeating",
              "descriptions": {
                "ja": "加熱一時停止",
                "en": "Temporarily stop heating"
              },
              "edt": "0x42"
            },
            {
              "value": "noSetting",
              "descriptions": {
                "ja": "未設定（GET の場合）、設定なし（SET の場合）",
                "en": "No setting"
```


©2018-2022 ECHONET Consortium

```
                },
                "edt": "0xFF"
              }
            ]
          }
        }
      }
    },
    "heatingModesOfStoves": {
      "epc": "0xE0",
      "descriptions": {
        "ja": "コンロ加熱モード設定",
        "en": "Heating modes of stoves"
      },
      "writable": true,
      "observable": false,
      "schema": {
        "type": "object",
        "properties": {
          "leftStove": {
            "descriptions": {
              "ja": "左コンロ加熱モード",
              "en": "Heating mode of the left stove"
            },
            "type": "string",
            "enum": [
              "heatingPowerControl",
              "deepFrying",
              "waterHeating",
              "riceBoiling",
              "stirFrying",
              "noSetting"
            ],
            "values": [
              {
                "value": "heatingPowerControl",
                "descriptions": {
                  "ja": "加熱出力制御モード",
                  "en": "Heating power control mode"
                },
                "edt": "0x41"
              },
              {
                "value": "deepFrying",
                "descriptions": {
                  "ja": "天ぷら（揚げ物）",
                  "en": "Deep-frying mode (tempura, etc.)"
                },
                "edt": "0x42"
              },
              {
                "value": "waterHeating",
                "descriptions": {
                  "ja": "湯沸し",
                  "en": "Water heating mode"
                },
                "edt": "0x43"
              },
              {
                "value": "riceBoiling",
                "descriptions": {
```


©2018-2022 ECHONET Consortium

```
                "ja": "炊飯",
                "en": "Rice boiling mode"
              },
              "edt": "0x44"
            },
            {
              "value": "stirFrying",
              "descriptions": {
                "ja": "炒め物",
                "en": "Stir-frying mode"
              },
              "edt": "0x45"
            },
            {
              "value": "noSetting",
              "descriptions": {
                "ja": "未設定（GET の場合）、設定なし（SET の場合）",
                "en": "No setting"
              },
              "edt": "0xFF"
            }
          ]
        },
        "rightStove": {
          "descriptions": {
            "ja": "右コンロ加熱モード",
            "en": "Heating mode of the right stove"
          },
          "type": "string",
          "enum": [
            "heatingPowerControl",
            "deepFrying",
            "waterHeating",
            "riceBoiling",
            "stirFrying",
            "noSetting"
          ],
          "values": [
            {
              "value": "heatingPowerControl",
              "descriptions": {
                "ja": "加熱出力制御モード",
                "en": "Heating power control mode"
              },
              "edt": "0x41"
            },
            {
              "value": "deepFrying",
              "descriptions": {
                "ja": "天ぷら（揚げ物)",
                "en": "Deep-frying mode (tempura, etc.)"
              },
              "edt": "0x42"
            },
            {
              "value": "waterHeating",
              "descriptions": {
                "ja": "湯沸し",
                "en": "Water heating mode"
              },
              "edt": "0x43"
```


©2018-2022 ECHONET Consortium

```
            },
            {
              "value": "riceBoiling",
              "descriptions": {
                "ja": "炊飯",
                "en": "Rice boiling mode"
              },
              "edt": "0x44"
            },
            {
              "value": "stirFrying",
              "descriptions": {
                "ja": "炒め物",
                "en": "Stir-frying mode"
              },
              "edt": "0x45"
            },
            {
              "value": "noSetting",
              "descriptions": {
                "ja": "未設定（GET の場合）、設定なし（SET の場合）",
                "en": "No setting"
              },
              "edt": "0xFF"
            }
          ]
        },
        "farSideStove": {
          "descriptions": {
            "ja": "奥コンロ加熱モード",
            "en": "Heating mode of the far-side stove"
          },
          "type": "string",
          "enum": [
            "heatingPowerControl",
            "deepFrying",
            "waterHeating",
            "riceBoiling",
            "stirFrying",
            "noSetting"
          ],
          "values": [
            {
              "value": "heatingPowerControl",
              "descriptions": {
                "ja": "加熱出力制御モード",
                "en": "Heating power control mode"
              },
              "edt": "0x41"
            },
            {
              "value": "deepFrying",
              "descriptions": {
                "ja": "天ぷら（揚げ物）",
                "en": "Deep-frying mode (tempura, etc.)"
              },
              "edt": "0x42"
            },
            {
              "value": "waterHeating",
              "descriptions": {
```


©2018-2022 ECHONET Consortium

```
                "ja": "湯沸し",
                "en": "Water heating mode"
              },
              "edt": "0x43"
            },
            {
              "value": "riceBoiling",
              "descriptions": {
                "ja": "炊飯",
                "en": "Rice boiling mode"
              },
              "edt": "0x44"
            },
            {
              "value": "stirFrying",
              "descriptions": {
                "ja": "炒め物",
                "en": "Stir-frying mode"
              },
              "edt": "0x45"
            },
            {
              "value": "noSetting",
              "descriptions": {
                "ja": "未設定（GET の場合）、設定なし（SET の場合）",
                "en": "No setting"
              },
              "edt": "0xFF"
            }
          ]
        }
      }
    }
  },
  "heatingTemperature": {
    "epc": "0xE3",
    "descriptions": {
      "ja": "加熱温度設定値",
      "en": "Heating temperature setting"
    },
    "writable": true,
    "observable": false,
    "schema": {
      "type": "object",
      "properties": {
        "leftStove": {
          "descriptions": {
            "ja": "左コンロ設定温度",
            "en": "Left stove temperature setting"
          },
          "oneOf": [
            {
              "type": "number",
              "unit": "Celsius",
              "minimum": 50,
              "maximum": 250
            },
            {
              "type": "string",
              "enum": [
                "noSetting"
```


©2018-2022 ECHONET Consortium

```
                ],
                "values": [
                  {
                    "value": "noSetting",
                    "descriptions": {
                      "ja": "未設定（GET の場合）、設定なし（SET の場合）",
                      "en": "No setting"
                    },
                    "edt": "0xFF"
                  }
                ]
              }
            ]
          },
          "rightStove": {
            "descriptions": {
              "ja": "右コンロ設定温度",
              "en": "Right stove temperature setting"
            },
            "oneOf": [
              {
                "type": "number",
                "unit": "Celsius",
                "minimum": 50,
                "maximum": 250
              },
              {
                "type": "string",
                "enum": [
                  "noSetting"
                ],
                "values": [
                  {
                    "value": "noSetting",
                    "descriptions": {
                      "ja": "未設定（GET の場合）、設定なし（SET の場合）",
                      "en": "No setting"
                    },
                    "edt": "0xFF"
                  }
                ]
              }
            ]
          },
          "farSideStove": {
            "descriptions": {
              "ja": "奥コンロ設定温度",
              "en": "Far-side stove temperature setting"
            },
            "oneOf": [
              {
                "type": "number",
                "unit": "Celsius",
                "minimum": 50,
                "maximum": 250
              },
              {
                "type": "string",
                "enum": [
                  "noSetting"
                ],
```


©2018-2022 ECHONET Consortium

```
                "values": [
                  {
                    "value": "noSetting",
                    "descriptions": {
                      "ja": "未設定（GET の場合）、設定なし（SET の場合）",
                      "en": "No setting"
                    },
                    "edt": "0xFF"
                  }
                ]
              }
            ]
          }
        }
      }
    },
    "heatingPower": {
      "epc": "0xE7",
      "descriptions": {
        "ja": "加熱出力設定",
        "en": "Heating power setting"
      },
      "writable": true,
      "observable": false,
      "schema": {
        "type": "object",
        "properties": {
          "leftStove": {
            "descriptions": {
              "ja": "左コンロ加熱出力",
              "en": "Heating power of the left stove"
            },
            "oneOf": [
              {
                "type": "object",
                "properties": {
                  "wattage": {
                    "descriptions": {
                      "ja": "出力設定形式",
                      "en": "Output wattage"
                    },
                    "type": "number",
                    "unit": "W",
                    "minimum": 0,
                    "maximum": 1000
                  }
                },
                "additionalProperties": false
              },
              {
                "type": "object",
                "properties": {
                  "level": {
                    "descriptions": {
                      "ja": "レベル設定形式",
                      "en": "Level"
                    },
                    "type": "number",
                    "minimum": 0,
                    "maximum": 16,
                    "multipleOf": 1
```


©2018-2022 ECHONET Consortium

```
                }
              },
              "additionalProperties": false
            },
            {
              "type": "object",
              "properties": {
                "stateOfFlame": {
                  "descriptions": {
                    "ja": "状態表現形式",
                    "en": "The state of flame"
                  },
                  "type": "string",
                  "enum": [
                    "veryLowFlame",
                    "lowFlame",
                    "mediumFlame",
                    "highFlame",
                    "highPower",
                    "noSetting"
                  ],
                  "values": [
                    {
                      "value": "veryLowFlame",
                      "descriptions": {
                        "ja": "とろ火",
                        "en": "Very low flame"
                      },
                      "edt": "0x4002"
                    },
                    {
                      "value": "lowFlame",
                      "descriptions": {
                        "ja": "弱火",
                        "en": "Low flame"
                      },
                      "edt": "0x4004"
                    },
                    {
                      "value": "mediumFlame",
                      "descriptions": {
                        "ja": "中火",
                        "en": "Medium flame"
                      },
                      "edt": "0x4006"
                    },
                    {
                      "value": "highFlame",
                      "descriptions": {
                        "ja": "強火",
                        "en": "High flame"
                      },
                      "edt": "0x4008"
                    },
                    {
                      "value": "highPower",
                      "descriptions": {
                        "ja": "ハイパワー",
                        "en": "High power"
                      },
                      "edt": "0x400A"
```


©2018-2022 ECHONET Consortium

```
                    },
                    {
                      "value": "noSetting",
                      "descriptions": {
                        "ja": "未設定（GET の場合）、設定なし（SET の場合）",
                        "en": "No setting"
                      },
                      "edt": "0xFFFF"
                    }
                  ]
                }
              },
              "additionalProperties": false
            }
          ]
        },
        "rightStove": {
          "descriptions": {
            "ja": "右コンロ加熱出力",
            "en": "Heating power of the right stove"
          },
          "oneOf": [
            {
              "type": "object",
              "properties": {
                "wattage": {
                  "descriptions": {
                    "ja": "出力設定形式",
                    "en": "Output wattage"
                  },
                  "type": "number",
                  "unit": "W",
                  "minimum": 0,
                  "maximum": 1000
                }
              },
              "additionalProperties": false
            },
            {
              "type": "object",
              "properties": {
                "level": {
                  "descriptions": {
                    "ja": "レベル設定形式",
                    "en": "Level"
                  },
                  "type": "number",
                  "minimum": 0,
                  "maximum": 16,
                  "multipleOf": 1
                }
              },
              "additionalProperties": false
            },
            {
              "type": "object",
              "properties": {
                "stateOfFlame": {
                  "descriptions": {
                    "ja": "状態表現形式",
                    "en": "The state of flame"
```


©2018-2022 ECHONET Consortium

```
                    },
                    "type": "string",
                    "enum": [
                      "veryLowFlame",
                      "lowFlame",
                      "mediumFlame",
                      "highFlame",
                      "highPower",
                      "noSetting"
                    ],
                    "values": [
                      {
                        "value": "veryLowFlame",
                        "descriptions": {
                          "ja": "とろ火",
                          "en": "Very low flame"
                        },
                        "edt": "0x4002"
                      },
                      {
                        "value": "lowFlame",
                        "descriptions": {
                          "ja": "弱火",
                          "en": "Low flame"
                        },
                        "edt": "0x4004"
                      },
                      {
                        "value": "mediumFlame",
                        "descriptions": {
                          "ja": "中火",
                          "en": "Medium flame"
                        },
                        "edt": "0x4006"
                      },
                      {
                        "value": "highFlame",
                        "descriptions": {
                          "ja": "強火",
                          "en": "High flame"
                        },
                        "edt": "0x4008"
                      },
                      {
                        "value": "highPower",
                        "descriptions": {
                          "ja": "ハイパワー",
                          "en": "High power"
                        },
                        "edt": "0x400A"
                      },
                      {
                        "value": "noSetting",
                        "descriptions": {
                          "ja": "未設定（GET の場合）、設定なし（SET の場合）",
                          "en": "No setting"
                        },
                        "edt": "0xFFFF"
                      }
                    ]
                  }
```


©2018-2022 ECHONET Consortium

```
                    },
                    "additionalProperties": false
                  }
                ]
              },
              "farSideStove": {
                "descriptions": {
                  "ja": "奥コンロ加熱出力",
                  "en": "Heating power of the far-side stove"
                },
                "oneOf": [
                  {
                    "type": "object",
                    "properties": {
                      "wattage": {
                        "descriptions": {
                          "ja": "出力設定形式",
                          "en": "Output wattage"
                        },
                        "type": "number",
                        "unit": "W",
                        "minimum": 0,
                        "maximum": 1000
                      }
                    },
                    "additionalProperties": false
                  },
                  {
                    "type": "object",
                    "properties": {
                      "level": {
                        "descriptions": {
                          "ja": "レベル設定形式",
                          "en": "Level"
                        },
                        "type": "number",
                        "minimum": 0,
                        "maximum": 16,
                        "multipleOf": 1
                      }
                    },
                    "additionalProperties": false
                  },
                  {
                    "type": "object",
                    "properties": {
                      "stateOfFlame": {
                        "descriptions": {
                          "ja": "状態表現形式",
                          "en": "The state of flame"
                        },
                        "type": "string",
                        "enum": [
                          "veryLowFlame",
                          "lowFlame",
                          "mediumFlame",
                          "highFlame",
                          "highPower",
                          "noSetting"
                        ],
                        "values": [
```


©2018-2022 ECHONET Consortium

```
                    {
                      "value": "veryLowFlame",
                      "descriptions": {
                        "ja": "とろ火",
                        "en": "Very low flame"
                      },
                      "edt": "0x4002"
                    },
                    {
                      "value": "lowFlame",
                      "descriptions": {
                        "ja": "弱火",
                        "en": "Low flame"
                      },
                      "edt": "0x4004"
                    },
                    {
                      "value": "mediumFlame",
                      "descriptions": {
                        "ja": "中火",
                        "en": "Medium flame"
                      },
                      "edt": "0x4006"
                    },
                    {
                      "value": "highFlame",
                      "descriptions": {
                        "ja": "強火",
                        "en": "High flame"
                      },
                      "edt": "0x4008"
                    },
                    {
                      "value": "highPower",
                      "descriptions": {
                        "ja": "ハイパワー",
                        "en": "High power"
                      },
                      "edt": "0x400A"
                    },
                    {
                      "value": "noSetting",
                      "descriptions": {
                        "ja": "未設定（GET の場合）、設定なし（SET の場合）",
                        "en": "No setting"
                      },
                      "edt": "0xFFFF"
                    }
                  ]
                }
              },
              "additionalProperties": false
            }
          ]
        },
        "roaster": {
          "descriptions": {
            "ja": "ロースタ加熱出力",
            "en": "Heating power of the roaster"
          },
          "oneOf": [
```


©2018-2022 ECHONET Consortium

```
                {
                  "type": "object",
                  "properties": {
                    "wattage": {
                      "descriptions": {
                        "ja": "出力設定形式",
                        "en": "Output wattage"
                      },
                      "type": "number",
                      "unit": "W",
                      "minimum": 0,
                      "maximum": 1000
                    }
                  },
                  "additionalProperties": false
                },
                {
                  "type": "object",
                  "properties": {
                    "level": {
                      "descriptions": {
                        "ja": "レベル設定形式",
                        "en": "Level"
                      },
                      "type": "number",
                      "minimum": 0,
                      "maximum": 16,
                      "multipleOf": 1
                    }
                  },
                  "additionalProperties": false
                },
                {
                  "type": "object",
                  "properties": {
                    "stateOfFlame": {
                      "descriptions": {
                        "ja": "状態表現形式",
                        "en": "The state of flame"
                      },
                      "type": "string",
                      "enum": [
                        "veryLowFlame",
                        "lowFlame",
                        "mediumFlame",
                        "highFlame",
                        "highPower",
                        "noSetting"
                      ],
                      "values": [
                        {
                          "value": "veryLowFlame",
                          "descriptions": {
                            "ja": "とろ火",
                            "en": "Very low flame"
                          },
                          "edt": "0x4002"
                        },
                        {
                          "value": "lowFlame",
                          "descriptions": {
```


©2018-2022 ECHONET Consortium

```
                          "ja": "弱火",
                          "en": "Low flame"
                        },
                        "edt": "0x4004"
                      },
                      {
                        "value": "mediumFlame",
                        "descriptions": {
                          "ja": "中火",
                          "en": "Medium flame"
                        },
                        "edt": "0x4006"
                      },
                      {
                        "value": "highFlame",
                        "descriptions": {
                          "ja": "強火",
                          "en": "High flame"
                        },
                        "edt": "0x4008"
                      },
                      {
                        "value": "highPower",
                        "descriptions": {
                          "ja": "ハイパワー",
                          "en": "High power"
                        },
                        "edt": "0x400A"
                      },
                      {
                        "value": "noSetting",
                        "descriptions": {
                          "ja": "未設定（GET の場合）、設定なし（SET の場合）",
                          "en": "No setting"
                        },
                        "edt": "0xFFFF"
                      }
                    ]
                  }
                },
                "additionalProperties": false
              }
            ]
          }
        }
      }
    }
  },
  "actions": {
    "allStop": {
      "epc": "0xB3",
      "descriptions": {
        "ja": "一括停止設定",
        "en": "All stop setting"
      },
      "schema": {},
      "note": {
        "ja": "ECHONET LiteではSet only property",
        "en": "Access rule of the corresponding ECHONET Lite property is set only."
      }
    }
```


©2018-2022 ECHONET Consortium

```
    }
  }
```


©2018-2022 ECHONET Consortium

Rice cooker: riceCooker: 0x03BB

Back to the List of Devices

Properties

Property Resource Name	Access Method	Data Type	EPC (EL)	Property name (EL)	Note
reservation	GET, PUT	string	0x90	Rice cooking reservation setting	
reservationTime	GET, PUT	string	0x91	Rice cooking reservation time setting	
reservationRelativeTime	GET, PUT	string	0x92	Rice cooking reservation relative time setting	
coverStatus	GET	string	0xB0	Cover closure status	
cookingStatus	GET	string	0xB1	Rice cooking status	
cookingControl	GET, PUT	string	0xB2	Rice cooking control setting	
warmerOperation	GET, PUT	boolean	0xE1	Warmer setting	
innerPotRemoved	GET	boolean	0xE5	Inner pot removal status	
coverRemoved	GET	boolean	0xE6	Cover removal status	

Device Description

```
{
  "deviceType": "riceCooker",
  "metaData": {
    "version": "1.3.0"
  },
  "eoj": "0x03BB",
  "descriptions": {
    "ja": "炊飯器",
    "en": "Rice cooker"
  },
  "properties": {
    "reservation": {
      "epc": "0x90",
      "descriptions": {
        "ja": "炊飯予約設定",
        "en": "Rice cooking reservation setting"
      },
      "writable": true,
      "observable": false,
      "schema": {
        "type": "string",
        "enum": [
          "on",
          "off"
        ],
        "values": [
```


©2018-2022 ECHONET Consortium

```
            {
              "value": "on",
              "descriptions": {
                "ja": "予約有",
                "en": "Reservation on"
              },
              "edt": "0x41"
            },
            {
              "value": "off",
              "descriptions": {
                "ja": "予約無",
                "en": "Reservation off"
              },
              "edt": "0x42"
            }
          ]
        },
        "note": {
          "ja": "炊飯器用にプロパティ名を定義",
          "en": "This property is named for rice cooker."
        }
      },
      "reservationTime": {
        "epc": "0x91",
        "descriptions": {
          "ja": "炊飯予約設定時刻設定値",
          "en": "Rice cooking reservation time setting"
        },
        "writable": true,
        "observable": false,
        "schema": {
          "type": "string",
          "format": "time"
        },
        "note": {
          "ja": "炊飯器用にプロパティ名を定義、秒の指定は無視される",
          "en": "This property is named for rice cooker. Number of seconds is ignored."
        }
      },
      "reservationRelativeTime": {
        "epc": "0x92",
        "descriptions": {
          "ja": "炊飯予約設定相対時間設定値",
          "en": "Rice cooking reservation relative time setting"
        },
        "writable": true,
        "observable": false,
        "schema": {
          "type": "string",
          "format": "time"
        },
        "note": {
          "ja": "炊飯器用にプロパティ名を定義、秒の指定は無視される",
          "en": "This property is named for rice cooker. Number of seconds is ignored."
        }
      },
      "coverStatus": {
        "epc": "0xB0",
        "descriptions": {
          "ja": "蓋開閉状態",
```


©2018-2022 ECHONET Consortium

```
          "en": "Cover closure status"
        },
        "writable": false,
        "observable": false,
        "schema": {
          "type": "string",
          "enum": [
            "open",
            "close"
          ],
          "values": [
            {
              "value": "open",
              "descriptions": {
                "ja": "蓋開",
                "en": "Cover open"
              },
              "edt": "0x41"
            },
            {
              "value": "close",
              "descriptions": {
                "ja": "蓋閉",
                "en": "Cover close"
              },
              "edt": "0x42"
            }
          ]
        }
      },
      "cookingStatus": {
        "epc": "0xB1",
        "descriptions": {
          "ja": "炊飯状態",
          "en": "Rice cooking status"
        },
        "writable": false,
        "observable": false,
        "schema": {
          "type": "string",
          "enum": [
            "stop",
            "preheating",
            "cooking",
            "steaming",
            "completion"
          ],
          "values": [
            {
              "value": "stop",
              "descriptions": {
                "ja": "停止",
                "en": "Stop"
              },
              "edt": "0x41"
            },
            {
              "value": "preheating",
              "descriptions": {
                "ja": "予熱",
                "en": "Preheating"
```


©2018-2022 ECHONET Consortium

```
            },
            "edt": "0x42"
          },
          {
            "value": "cooking",
            "descriptions": {
              "ja": "炊飯",
              "en": "Rice cooking"
            },
            "edt": "0x43"
          },
          {
            "value": "steaming",
            "descriptions": {
              "ja": "蒸らし",
              "en": "Steaming"
            },
            "edt": "0x44"
          },
          {
            "value": "completion",
            "descriptions": {
              "ja": "炊飯完了",
              "en": "Rice cooking completion"
            },
            "edt": "0x45"
          }
        ]
      }
    },
    "cookingControl": {
      "epc": "0xB2",
      "descriptions": {
        "ja": "炊飯制御設定",
        "en": "Rice cooking control setting"
      },
      "writable": true,
      "observable": false,
      "schema": {
        "type": "string",
        "enum": [
          "running",
          "suspension"
        ],
        "values": [
          {
            "value": "running",
            "descriptions": {
              "ja": "炊飯開始･炊飯再開",
              "en": "Rice cooking start/restart"
            },
            "edt": "0x41"
          },
          {
            "value": "suspension",
            "descriptions": {
              "ja": "炊飯一時停止",
              "en": "Rice cooking suspension"
            },
            "edt": "0x42"
          }
```


©2018-2022 ECHONET Consortium

```
          ]
        }
      },
      "warmerOperation": {
        "epc": "0xE1",
        "descriptions": {
          "ja": "保温設定",
          "en": "Warmer setting"
        },
        "writable": true,
        "observable": false,
        "schema": {
          "type": "boolean",
          "values": [
            {
              "value": true,
              "descriptions": {
                "ja": "保温有",
                "en": "Warmer enabled"
              },
              "edt": "0x41"
            },
            {
              "value": false,
              "descriptions": {
                "ja": "保温無",
                "en": "Warmer disabled"
              },
              "edt": "0x42"
            }
          ]
        }
      },
      "innerPotRemoved": {
        "epc": "0xE5",
        "descriptions": {
          "ja": "内なべ取り外し状態",
          "en": "Inner pot removal status"
        },
        "writable": false,
        "observable": false,
        "schema": {
          "type": "boolean",
          "values": [
            {
              "value": true,
              "descriptions": {
                "ja": "取り外し有",
                "en": "Removed"
              },
              "edt": "0x41"
            },
            {
              "value": false,
              "descriptions": {
                "ja": "取り外し無",
                "en": "Not removed"
              },
              "edt": "0x42"
            }
          ]
```


©2018-2022 ECHONET Consortium

```
        }
      },
      "coverRemoved": {
        "epc": "0xE6",
        "descriptions": {
          "ja": "蓋取り外し状態",
          "en": "Cover removal status"
        },
        "writable": false,
        "observable": false,
        "schema": {
          "type": "boolean",
          "values": [
            {
              "value": true,
              "descriptions": {
                "ja": "取り外し有",
                "en": "Removed"
              },
              "edt": "0x41"
            },
            {
              "value": false,
              "descriptions": {
                "ja": "取り外し無",
                "en": "Not removed"
              },
              "edt": "0x42"
            }
          ]
        }
      }
    }
  }
```


©2018-2022 ECHONET Consortium

Commercial showcase: commercialShowcase: 0x03CE

Back to the List of Devices

Properties

Property Resource Name	Access Method	Data Type	EPC (EL)	Property name (EL)	Note
operationMode	GET, PUT	string	0xB0	Operation mode setting	
dischargeTemperature	GET	number	0xBD	Used to acquire measurements of discharge temperature.	
groupInformation	GET, PUT	number, string	0xCA	Group information	
showcaseType	GET	string	0xD0	This property indicates the type of the showcase.	
doorType	GET	string	0xD1	This property indicates the type of the showcase door.	
refrigeratorType	GET	string	0xD2	This property indicates refrigerator type, such as built-in or separate.	
shapeType	GET	string	0xD3	This property indicates the shape of the showcase.	
purposeType	GET	string	0xD4	This property indicates the purpose of the showcase, either refrigeration or freezing.	
internalLightingOperationStatus	GET, PUT	boolean	0xE0	Indicates on/off status of lighting installed inside the showcase.	
externalLightingOperationStatus	GET, PUT	boolean	0xE1	Indicates ON/OFF status of lighting installed outside the showcase.	
compressorOperationStatus	GET, PUT	boolean	0xE2	Indicates on/off status of compressor when showcase and compressor are a single unit.	

©2018-2022 ECHONET Consortium

Property Resource Name	Access Method	Data Type	EPC (EL)	Property name (EL)	Note
internalTemperature	GET	number	0xE3	Used to acquire internal temperature measurements inside the showcase.	
ratedElectricPowerForFreezing	GET	number	0xE4	Indicates rated power consumption necessary when showcase is cooling.	
ratedElectricPowerForDefrostingHeater	GET	number	0xE5	Indicates rated power consumption when heater is operating during showcase defrosting.	
ratedElectricPowerForFanMotor	GET	number	0xE6	Indicates rated power consumption when showcase is operating fan motor.	
heaterOperationStatus	GET	boolean	0xE7	Indicates on/off status of showcases with heater for hot function.	
insideLightingType	GET	string	0xEB	Indicates type of lighting installed inside the showcase.	
outsideLightingType	GET	string	0xEC	Indicates type of lighting installed outside the showcase.	
targetInsideBrightness	GET, PUT	number	0xED	Indicates lighting level in % installed inside of the showcase.	
targetOutsideBrightness	GET, PUT	number	0xEE	Indicates lighting level in % installed outside of the showcase.	
targetInsideTemperature	GET, PUT	number	0xEF	Set temperature setting of inside the case and acquire the current setting.	
groupDeviceList	GET	array	-	List of devices in group	*1

*1 Group information "groupDeviceList" describes the Ids of devices managed by Web API devices and their "deviceType".

©2018-2022 ECHONET Consortium

Device Description


```
{
  "deviceType": "commercialShowcase",
  "metaData": {
    "version": "1.4.0"
  },
  "eoj": "0x03CE",
  "descriptions": {
    "ja": "業務用ショーケース",
    "en": "Commercial showcase"
  },
  "properties": {
    "operationMode": {
      "epc": "0xB0",
      "descriptions": {
        "ja": "運転モード設定",
        "en": "Operation mode setting"
      },
      "writable": true,
      "observable": true,
      "schema": {
        "type": "string",
        "enum": [
          "cooling",
          "nonCooling",
          "defrosting",
          "other"
        ],
        "values": [
          {
            "value": "cooling",
            "descriptions": {
              "ja": "冷却",
              "en": "Cooling"
            },
            "edt": "0x41"
          },
          {
            "value": "nonCooling",
            "descriptions": {
              "ja": "非冷",
              "en": "Non-cooling"
            },
            "edt": "0x42"
          },
          {
            "value": "defrosting",
            "descriptions": {
              "ja": "霜取り",
              "en": "Defrosting"
            },
            "edt": "0x43"
          },
          {
            "value": "other",
            "descriptions": {
              "ja": "その他",
              "en": "Others"
            },
```


©2018-2022 ECHONET Consortium

```
                "edt": "0x40"
              }
            ]
          }
        },
        "dischargeTemperature": {
          "epc": "0xBD",
          "descriptions": {
            "ja": "吐出温度計測値",
            "en": "Used to acquire measurements of discharge temperature."
          },
          "writable": false,
          "observable": false,
          "schema": {
            "type": "number",
            "unit": "Celsius",
            "minimum": -127,
            "maximum": 125,
            "multipleOf": 1
          }
        },
        "groupInformation": {
          "epc": "0xCA",
          "descriptions": {
            "ja": "グループ情報",
            "en": "Group information"
          },
          "writable": true,
          "observable": false,
          "schema": {
            "oneOf": [
              {
                "type": "number",
                "minimum": 1,
                "maximum": 253
              },
              {
                "type": "string",
                "enum": [
                  "none"
                ],
                "values": [
                  {
                    "value": "none",
                    "descriptions": {
                      "ja": "設定なし",
                      "en": "None"
                    },
                    "edt": "0x00"
                  }
                ]
              }
            ]
          }
        },
        "showcaseType": {
          "epc": "0xD0",
          "descriptions": {
            "ja": "ショーケースタイプ情報",
            "en": "This property indicates the type of the showcase."
          },
```


©2018-2022 ECHONET Consortium

```
        "writable": false,
        "observable": false,
        "schema": {
          "type": "string",
          "enum": [
            "nonFluorocarbonInverter",
            "inverter",
            "other"
          ],
          "values": [
            {
              "value": "nonFluorocarbonInverter",
              "descriptions": {
                "ja": "ノンフロンインバータ (CO2)",
                "en": "Non-fluorocarbon inverter (CO2)"
              },
              "edt": "0x41"
            },
            {
              "value": "inverter",
              "descriptions": {
                "ja": "インバータ",
                "en": "Inverter"
              },
              "edt": "0x42"
            },
            {
              "value": "other",
              "descriptions": {
                "ja": "その他",
                "en": "Other"
              },
              "edt": "0x40"
            }
          ]
        }
      },
      "doorType": {
        "epc": "0xD1",
        "descriptions": {
          "ja": "ドアタイプ情報",
          "en": "This property indicates the type of the showcase door."
        },
        "writable": false,
        "observable": false,
        "schema": {
          "type": "string",
          "enum": [
            "open",
            "closed"
          ],
          "values": [
            {
              "value": "open",
              "descriptions": {
                "ja": "オープン",
                "en": "Open"
              },
              "edt": "0x41"
            },
            {
```


©2018-2022 ECHONET Consortium

```
              "value": "closed",
              "descriptions": {
                "ja": "クローズ",
                "en": "Closed"
              },
              "edt": "0x42"
            }
          ]
        }
      },
      "refrigeratorType": {
        "epc": "0xD2",
        "descriptions": {
          "ja": "冷凍機内蔵型か冷凍機別置型かを示すショーケース構成情報",
          "en": "This property indicates refrigerator type, such as built-in or separate."
        },
        "writable": false,
        "observable": false,
        "schema": {
          "type": "string",
          "enum": [
            "separate",
            "builtIn"
          ],
          "values": [
            {
              "value": "separate",
              "descriptions": {
                "ja": "別置型",
                "en": "Separate type"
              },
              "edt": "0x41"
            },
            {
              "value": "builtIn",
              "descriptions": {
                "ja": "内蔵型",
                "en": "Built-in type"
              },
              "edt": "0x42"
            }
          ]
        }
      },
      "shapeType": {
        "epc": "0xD3",
        "descriptions": {
          "ja": "ショーケース形状情報",
          "en": "This property indicates the shape of the showcase."
        },
        "writable": false,
        "observable": false,
        "schema": {
          "type": "string",
          "enum": [
            "box",
            "desktop",
            "tripleGlass",
            "quadrupleQuintupleGlass",
            "reachIn",
            "glassTop",
```


©2018-2022 ECHONET Consortium

```
            "multistageOpenAndCeilingBlowoff",
            "multistageOpenAndBacksideBlowoff",
            "flat",
            "walkIn",
            "other"
          ],
          "values": [
            {
              "value": "box",
              "descriptions": {
                "ja": "箱形",
                "en": "Box type"
              },
              "edt": "0x41"
            },
            {
              "value": "desktop",
              "descriptions": {
                "ja": "卓上形",
                "en": "Desktop type"
              },
              "edt": "0x42"
            },
            {
              "value": "tripleGlass",
              "descriptions": {
                "ja": "三面ガラス式",
                "en": "Triple glass type"
              },
              "edt": "0x43"
            },
            {
              "value": "quadrupleQuintupleGlass",
              "descriptions": {
                "ja": "四面（五面）ガラス式",
                "en": "Quadruple (quintuple) glass type"
              },
              "edt": "0x44"
            },
            {
              "value": "reachIn",
              "descriptions": {
                "ja": "リーチイン",
                "en": "Reach-in type"
              },
              "edt": "0x45"
            },
            {
              "value": "glassTop",
              "descriptions": {
                "ja": "ガラストップ",
                "en": "Glass top type"
              },
              "edt": "0x46"
            },
            {
              "value": "multistageOpenAndCeilingBlowoff",
              "descriptions": {
                "ja": "多段形オープン（天井吹出形）",
                "en": "Multistage open (ceiling blowoff type)"
              },
```


©2018-2022 ECHONET Consortium

```
              "edt": "0x47"
            },
            {
              "value": "multistageOpenAndBacksideBlowoff",
              "descriptions": {
                "ja": "多段形オープン (背面吹出形)",
                "en": "Multistage open (backside blowoff type)"
              },
              "edt": "0x48"
            },
            {
              "value": "flat",
              "descriptions": {
                "ja": "平形",
                "en": "Flat type"
              },
              "edt": "0x49"
            },
            {
              "value": "walkIn",
              "descriptions": {
                "ja": "ウォークイン",
                "en": "Walk-in type"
              },
              "edt": "0x4A"
            },
            {
              "value": "other",
              "descriptions": {
                "ja": "その他",
                "en": "Other"
              },
              "edt": "0x40"
            }
          ]
        }
      },
      "purposeType": {
        "epc": "0xD4",
        "descriptions": {
          "ja": "冷蔵用途か冷凍用途かを示す庫内温度帯情報",
          "en": "This property indicates the purpose of the showcase, either refrigeration or
freezing."
        },
        "writable": false,
        "observable": false,
        "schema": {
          "type": "string",
          "enum": [
            "refrigeration",
            "freezing"
          ],
          "values": [
            {
              "value": "refrigeration",
              "descriptions": {
                "ja": "冷蔵",
                "en": "Refrigeration"
              },
              "edt": "0x41"
            },
```


©2018-2022 ECHONET Consortium

```
            {
              "value": "freezing",
              "descriptions": {
                "ja": "冷凍",
                "en": "Freezing"
              },
              "edt": "0x42"
            }
          ]
        }
      },
      "internalLightingOperationStatus": {
        "epc": "0xE0",
        "descriptions": {
          "ja": "庫内照明動作状態",
          "en": "Indicates on/off status of lighting installed inside the showcase."
        },
        "writable": true,
        "observable": true,
        "schema": {
          "type": "boolean",
          "values": [
            {
              "value": true,
              "descriptions": {
                "ja": "ON",
                "en": "On"
              },
              "edt": "0x30"
            },
            {
              "value": false,
              "descriptions": {
                "ja": "OFF",
                "en": "Off"
              },
              "edt": "0x31"
            }
          ]
        }
      },
      "externalLightingOperationStatus": {
        "epc": "0xE1",
        "descriptions": {
          "ja": "庫外照明動作状態",
          "en": "Indicates ON/OFF status of lighting installed outside the showcase."
        },
        "writable": true,
        "observable": true,
        "schema": {
          "type": "boolean",
          "values": [
            {
              "value": true,
              "descriptions": {
                "ja": "ON",
                "en": "On"
              },
              "edt": "0x30"
            },
            {
```


©2018-2022 ECHONET Consortium

```
              "value": false,
              "descriptions": {
                "ja": "OFF",
                "en": "Off"
              },
              "edt": "0x31"
            }
          ]
        }
      },
      "compressorOperationStatus": {
        "epc": "0xE2",
        "descriptions": {
          "ja": "コンプレッサ動作状態",
          "en": "Indicates on/off status of compressor when showcase and compressor are a
single unit."
        },
        "writable": true,
        "observable": false,
        "schema": {
          "type": "boolean",
          "values": [
            {
              "value": true,
              "descriptions": {
                "ja": "ON",
                "en": "On"
              },
              "edt": "0x30"
            },
            {
              "value": false,
              "descriptions": {
                "ja": "OFF",
                "en": "Off"
              },
              "edt": "0x31"
            }
          ]
        }
      },
      "internalTemperature": {
        "epc": "0xE3",
        "descriptions": {
          "ja": "庫内温度計測値",
          "en": "Used to acquire internal temperature measurements inside the showcase."
        },
        "writable": false,
        "observable": false,
        "schema": {
          "type": "number",
          "unit": "Celsius",
          "minimum": -127,
          "maximum": 125,
          "multipleOf": 1
        }
      },
      "ratedElectricPowerForFreezing": {
        "epc": "0xE4",
        "descriptions": {
          "ja": "冷却時に要する定格消費電力 (冷凍能力値)",
```


©2018-2022 ECHONET Consortium

```
          "en": "Indicates rated power consumption necessary when showcase is cooling."
        },
        "writable": false,
        "observable": false,
        "schema": {
          "type": "number",
          "unit": "W",
          "minimum": 0,
          "maximum": 65533,
          "multipleOf": 1
        }
      },
      "ratedElectricPowerForDefrostingHeater": {
        "epc": "0xE5",
        "descriptions": {
          "ja": "霜取りヒータ稼働時の定格消費電力",
          "en": "Indicates rated power consumption when heater is operating during showcase
defrosting."
        },
        "writable": false,
        "observable": false,
        "schema": {
          "type": "number",
          "unit": "W",
          "minimum": 0,
          "maximum": 65533,
          "multipleOf": 1
        }
      },
      "ratedElectricPowerForFanMotor": {
        "epc": "0xE6",
        "descriptions": {
          "ja": "ファンモータ稼働時の定格消費電力",
          "en": "Indicates rated power consumption when showcase is operating fan motor."
        },
        "writable": false,
        "observable": false,
        "schema": {
          "type": "number",
          "unit": "W",
          "minimum": 0,
          "maximum": 65533,
          "multipleOf": 1
        }
      },
      "heaterOperationStatus": {
        "epc": "0xE7",
        "descriptions": {
          "ja": "ホット用ヒーター動作状態 (ヒーターモード)",
          "en": "Indicates on/off status of showcases with heater for hot function."
        },
        "writable": false,
        "observable": false,
        "schema": {
          "type": "boolean",
          "values": [
            {
              "value": true,
              "descriptions": {
                "ja": "ON",
                "en": "On"
```


©2018-2022 ECHONET Consortium

```
            },
            "edt": "0x30"
          },
          {
            "value": false,
            "descriptions": {
              "ja": "OFF",
              "en": "Off"
            },
            "edt": "0x31"
          }
        ]
      }
    },
    "insideLightingType": {
      "epc": "0xEB",
      "descriptions": {
        "ja": "庫内照明タイプ",
        "en": "Indicates type of lighting installed inside the showcase."
      },
      "writable": false,
      "observable": false,
      "schema": {
        "type": "string",
        "enum": [
          "fluorescent",
          "led",
          "noLighting",
          "other"
        ],
        "values": [
          {
            "value": "fluorescent",
            "descriptions": {
              "ja": "蛍光灯",
              "en": "Fluorescent light"
            },
            "edt": "0x41"
          },
          {
            "value": "led",
            "descriptions": {
              "ja": "LED",
              "en": "LED"
            },
            "edt": "0x42"
          },
          {
            "value": "noLighting",
            "descriptions": {
              "ja": "照明無し",
              "en": "No lighting"
            },
            "edt": "0x43"
          },
          {
            "value": "other",
            "descriptions": {
              "ja": "その他",
              "en": "Other"
            },
```


©2018-2022 ECHONET Consortium

```
            "edt": "0x40"
          }
        ]
      }
    },
    "outsideLightingType": {
      "epc": "0xEC",
      "descriptions": {
        "ja": "庫外照明タイプ",
        "en": "Indicates type of lighting installed outside the showcase."
      },
      "writable": false,
      "observable": false,
      "schema": {
        "type": "string",
        "enum": [
          "fluorescent",
          "led",
          "noLighting",
          "other"
        ],
        "values": [
          {
            "value": "fluorescent",
            "descriptions": {
              "ja": "蛍光灯",
              "en": "Fluorescent light"
            },
            "edt": "0x41"
          },
          {
            "value": "led",
            "descriptions": {
              "ja": "LED",
              "en": "LED"
            },
            "edt": "0x42"
          },
          {
            "value": "noLighting",
            "descriptions": {
              "ja": "照明無し",
              "en": "No lighting"
            },
            "edt": "0x43"
          },
          {
            "value": "other",
            "descriptions": {
              "ja": "その他",
              "en": "Other"
            },
            "edt": "0x40"
          }
        ]
      }
    },
    "targetInsideBrightness": {
      "epc": "0xED",
      "descriptions": {
        "ja": "庫内照明照度レベル設定",
```


©2018-2022 ECHONET Consortium

```
          "en": "Indicates lighting level in % installed inside of the showcase."
        },
        "writable": true,
        "observable": false,
        "schema": {
          "type": "number",
          "unit": "%",
          "minimum": 0,
          "maximum": 100
        }
      },
      "targetOutsideBrightness": {
        "epc": "0xEE",
        "descriptions": {
          "ja": "庫外照明照度レベル設定",
          "en": "Indicates lighting level in % installed outside of the showcase."
        },
        "writable": true,
        "observable": false,
        "schema": {
          "type": "number",
          "unit": "%",
          "minimum": 0,
          "maximum": 100,
          "multipleOf": 1
        }
      },
      "targetInsideTemperature": {
        "epc": "0xEF",
        "descriptions": {
          "ja": "庫内温度設定値",
          "en": "Set temperature setting of inside the case and acquire the current setting."
        },
        "writable": true,
        "observable": false,
        "schema": {
          "type": "number",
          "unit": "Celsius",
          "minimum": -127,
          "maximum": 126,
          "multipleOf": 1
        }
      },
      "groupDeviceList": {
        "descriptions": {
          "ja": "グループ内デバイスリスト",
          "en": "List of devices in group"
        },
        "writable": false,
        "observable": false,
        "schema": {
          "type": "array",
          "items": {
            "type": "object",
            "properties": {
              "deviceId": {
                "type": "string"
              },
              "deviceType": {
                "type": "string"
              }
```


©2018-2022 ECHONET Consortium

```
            }
          }
        },
        "note": {
          "ja": "WebAPIの'devices'で管理されている機器のIDおよびその'deviceType'を記述",
          "en": "Describe the ID of the device managed in 'devices' of WebAPI and its
'deviceType'."
        }
      }
    }
  }
```


©2018-2022 ECHONET Consortium

Washer and dryer: washerDryer: 0x03D3

Back to the List of Devices

Properties

Property Resource Name	Access Method	Data Type	EPC (EL)	Property name (EL)	Note
onTimerReservationStatus	GET, PUT	string	0x90	On timer reservation setting	
onTimerAbsolute	GET, PUT	string	0x91	On timer setting	
relativeTimeOfOnTimer	GET, PUT	number	0x92	Relative time-based on timer setting	
doorOpenStatus	GET	string	0xB0	Door/cover open/close status	
runningStatus	GET, PUT	string	0xB2	Washer and dryer setting	
washerDryerCycle1	GET, PUT	string	0xD0	Washer and dryer cycle setting 1	Not to use with washerDryerCycle2 and dryerCycle at the same time
washerDryerCycle2	GET, PUT	string	0xD1	Washer and dryer cycle setting 2	Use with dryerCycle at the same time. Not to use with washerDryerCycle1 at the same time
dryerCycle	GET, PUT	string	0xD2	Drying cycle setting	Use with washerDryerCycle2 at the same time. Not to use with washerDryerCycle1 at the same time
washerDryerCycleOptions1	GET	array	0xD3	Washer and dryer cycle option list 1	Use when washerDryerCycle1 is enabled
washerDryerCycleOptions2	GET	array	0xD4	Washer and dryer cycle option list 2	Use when washerDryerCycle2 is enabled

©2018-2022 ECHONET Consortium

Property Resource Name	Access Method	Data Type	EPC (EL)	Property name (EL)	Note
washerDryerCycleOptions3	GET	array	0xD5	Washer and dryer cycle option list 3	Use when dryerCycle is enabled
waterFlowRate	GET, PUT	object, object	0xD6	Water flow rate setting	
spinDryingRotationSpeed	GET, PUT	object, object	0xD7	Rotation speed for spin drying setting	
dryingDegree	GET, PUT	object, object	0xD8	Degree of drying setting	
washingTimeRemaining	GET	number, string	0xDB	Remaining washing time	
dryingTimeRemaining	GET	number, string	0xDC	Remaining drying time	
onTimerElapsed	GET	number	0xDF	Elapsed time on the ON timer	
presoakingTime	GET, PUT	object, object	0xE1	Presoaking time setting	
currentStage	GET	string	0xE2	Current stage of washer and dryer cycle	
waterVolumeByLiter	GET, PUT	object, object	0xE3	Water volume setting 1	
waterVolumeByStep	GET, PUT	object, object	0xE4	Water volume setting 2	
washingTime	GET, PUT	object, object	0xE5	Washing time setting	
rinsingCount	GET, PUT	number, string	0xE6	Number of times of rinsing setting	

©2018-2022 ECHONET Consortium

Property Resource Name	Access Method	Data Type	EPC (EL)	Property name (EL)	Note
rinsingProcess	GET, PUT	array	0xE7	Rinsing process setting	The number of array elements must be the same as the values of rinsingCount.
spinDryingTime	GET, PUT	object, object	0xE8	Spin drying time setting	
dryingTime	GET, PUT	object, object	0xE9	Drying time setting	
waterTemperature	GET, PUT	number, string	0xEA	Warm water setting	
bathtubWaterRecycle	GET, PUT	string	0xEB	Bathtub water recycle setting	
wrinklingMinimization	GET, PUT	string	0xEC	Wrinkling minimization setting	
washingDryingTimeRemaining	GET	number, string	0xED	Time remaining to complete washer and dryer cycle	
doorLockStatus	GET, PUT	boolean	0xEE	Door/cover lock setting	

Device Description

```
{
  "deviceType": "washerDryer",
  "metaData": {
    "version": "1.4.0"
  },
  "eoj": "0x03D3",
  "descriptions": {
    "ja": "洗濯乾燥機",
    "en": "Washer and dryer"
  },
  "properties": {
    "onTimerReservationStatus": {
      "epc": "0x90",
      "descriptions": {
        "ja": "ONタイマ予約設定",
        "en": "On timer reservation setting"
      },
      "writable": true,
```


©2018-2022 ECHONET Consortium

```
        "observable": false,
        "schema": {
          "type": "string",
          "enum": [
            "enable",
            "disable"
          ],
          "values": [
            {
              "value": "enable",
              "descriptions": {
                "ja": "予約入",
                "en": "Reservation on"
              },
              "edt": "0x41"
            },
            {
              "value": "disable",
              "descriptions": {
                "ja": "予約切",
                "en": "Reservation off"
              },
              "edt": "0x42"
            }
          ]
        }
      },
      "onTimerAbsolute": {
        "epc": "0x91",
        "descriptions": {
          "ja": "ONタイマ時刻設定値",
          "en": "On timer setting"
        },
        "writable": true,
        "observable": false,
        "schema": {
          "type": "string",
          "format": "time"
        },
        "note": {
          "ja": "秒の指定は無視される",
          "en": "Number of seconds is ignored."
        }
      },
      "relativeTimeOfOnTimer": {
        "epc": "0x92",
        "descriptions": {
          "ja": "ONタイマ相対時間設定値",
          "en": "Relative time-based on timer setting"
        },
        "writable": true,
        "observable": false,
        "schema": {
          "type": "number",
          "unit": "minute",
          "minimum": 0,
          "maximum": 15359,
          "multipleOf": 1
        }
      },
      "doorOpenStatus": {
```


©2018-2022 ECHONET Consortium

```
        "epc": "0xB0",
        "descriptions": {
          "ja": "扉･蓋開閉状態",
          "en": "Door/cover open/close status"
        },
        "writable": false,
        "observable": false,
        "schema": {
          "type": "string",
          "enum": [
            "open",
            "close"
          ],
          "values": [
            {
              "value": "open",
              "descriptions": {
                "ja": "扉･蓋開",
                "en": "Door/cover open"
              },
              "edt": "0x41"
            },
            {
              "value": "close",
              "descriptions": {
                "ja": "扉･蓋閉",
                "en": "Door/cover closed"
              },
              "edt": "0x42"
            }
          ]
        }
      },
      "runningStatus": {
        "epc": "0xB2",
        "descriptions": {
          "ja": "洗濯･乾燥設定",
          "en": "Washer and dryer setting"
        },
        "writable": true,
        "observable": false,
        "schema": {
          "type": "string",
          "enum": [
            "run",
            "pause",
            "stop"
          ],
          "values": [
            {
              "value": "run",
              "descriptions": {
                "ja": "洗濯乾燥開始･再開／洗濯乾燥運転中",
                "en": "Start/restart(ed) or in progress"
              },
              "edt": "0x41"
            },
            {
              "value": "pause",
              "descriptions": {
                "ja": "洗濯乾燥一時停止",
```


©2018-2022 ECHONET Consortium

```
                "en": "Suspend(ed)"
              },
              "edt": "0x42"
            },
            {
              "value": "stop",
              "descriptions": {
                "ja": "洗濯乾燥停止",
                "en": "Stop(ped)"
              },
              "edt": "0x43"
            }
          ]
        }
      },
      "washerDryerCycle1": {
        "epc": "0xD0",
        "descriptions": {
          "ja": "洗濯乾燥コース設定1",
          "en": "Washer and dryer cycle setting 1"
        },
        "writable": true,
        "observable": false,
        "schema": {
          "type": "string",
          "enum": [
            "washDryStandard",
            "washDrySilent",
            "washDryHeavilySoiled",
            "washDryHardToRemove",
            "washDryPresoaking",
            "washDryBlankets",
            "washDrySoft",
            "washDryDrymark",
            "washDryCleanRinsing",
            "washDryIroning",
            "washDryHangDrying",
            "washDryThick",
            "washDryDisinfection",
            "washDryOilStrains",
            "washDryMemory",
            "washDryDetergentSaving",
            "washDryLightlySoiled",
            "washDrySmallAmountQuick",
            "washStandard",
            "washSilent",
            "washHeavilySoiled",
            "washHardToRemove",
            "washPresoaking",
            "washBlankets",
            "washSoft",
            "washDrymark",
            "washCleanRinsing",
            "washDisinfection",
            "washOilStrains",
            "washMemory",
            "washDetergentSaving",
            "washLightlySoiled",
            "washSmallAmountQuick",
            "washTankCleaning",
            "dryStandard",
```


©2018-2022 ECHONET Consortium

```
            "dryBlankets",
            "drySoft",
            "dryDrymark",
            "dryIroning",
            "dryHangDrying",
            "dryThick",
            "dryDisinfection",
            "dryShrinkageMinimization",
            "dryFinishing",
            "dryStationaryDrying",
            "dryUserDefinedTime",
            "dryWarming",
            "dryTankDrying"
          ],
          "values": [
            {
              "value": "washDryStandard",
              "descriptions": {
                "ja": "＜洗濯乾燥コース＞標準",
                "en": "<Washing and drying course> Standard"
              },
              "edt": "0x21"
            },
            {
              "value": "washDrySilent",
              "descriptions": {
                "ja": "＜洗濯乾燥コース＞静音",
                "en": "<Washing and drying course> Silent"
              },
              "edt": "0x22"
            },
            {
              "value": "washDryHeavilySoiled",
              "descriptions": {
                "ja": "＜洗濯乾燥コース＞汚れ大",
                "en": "<Washing and drying course> Heavily soiled clothes"
              },
              "edt": "0x23"
            },
            {
              "value": "washDryHardToRemove",
              "descriptions": {
                "ja": "＜洗濯乾燥コース＞しつこい汚れ",
                "en": "<Washing and drying course> Hard-to-remove stains"
              },
              "edt": "0x24"
            },
            {
              "value": "washDryPresoaking",
              "descriptions": {
                "ja": "＜洗濯乾燥コース＞つけおき",
                "en": "<Washing and drying course> Presoaking"
              },
              "edt": "0x25"
            },
            {
              "value": "washDryBlankets",
              "descriptions": {
                "ja": "＜洗濯乾燥コース＞毛布",
                "en": "<Washing and drying course> Blankets"
              },
```


©2018-2022 ECHONET Consortium

```
            "edt": "0x26"
          },
          {
            "value": "washDrySoft",
            "descriptions": {
              "ja": "＜洗濯乾燥コース＞ソフト",
              "en": "<Washing and drying course> Soft"
            },
            "edt": "0x27"
          },
          {
            "value": "washDryDrymark",
            "descriptions": {
              "ja": "＜洗濯乾燥コース＞ドライ",
              "en": "<Washing and drying course> Dry"
            },
            "edt": "0x28"
          },
          {
            "value": "washDryCleanRinsing",
            "descriptions": {
              "ja": "＜洗濯乾燥コース＞清潔すすぎ",
              "en": "<Washing and drying course> Clean rinsing"
            },
            "edt": "0x29"
          },
          {
            "value": "washDryIroning",
            "descriptions": {
              "ja": "＜洗濯乾燥コース＞アイロン／Yシャツ",
              "en": "<Washing and drying course> Ironing/business shirts"
            },
            "edt": "0x2A"
          },
          {
            "value": "washDryHangDrying",
            "descriptions": {
              "ja": "＜洗濯乾燥コース＞吊り干し",
              "en": "<Washing and drying course> Hang drying"
            },
            "edt": "0x2B"
          },
          {
            "value": "washDryThick",
            "descriptions": {
              "ja": "＜洗濯乾燥コース＞厚物",
              "en": "<Washing and drying course> Thick clothes"
            },
            "edt": "0x2C"
          },
          {
            "value": "washDryDisinfection",
            "descriptions": {
              "ja": "＜洗濯乾燥コース＞除菌",
              "en": "<Washing and drying course> Disinfection"
            },
            "edt": "0x2D"
          },
          {
            "value": "washDryOilStrains",
            "descriptions": {
```


©2018-2022 ECHONET Consortium

```
                "ja": "＜洗濯乾燥コース＞油汚れ",
                "en": "<Washing and drying course> Oil stains"
              },
              "edt": "0x2E"
            },
            {
              "value": "washDryMemory",
              "descriptions": {
                "ja": "＜洗濯乾燥コース＞メモリー",
                "en": "<Washing and drying course> Memory"
              },
              "edt": "0x2F"
            },
            {
              "value": "washDryDetergentSaving",
              "descriptions": {
                "ja": "＜洗濯乾燥コース＞省洗剤",
                "en": "<Washing and drying course> Detergent saving"
              },
              "edt": "0x30"
            },
            {
              "value": "washDryLightlySoiled",
              "descriptions": {
                "ja": "＜洗濯乾燥コース＞汚れ小",
                "en": "<Washing and drying course> Lightly soiled clothes"
              },
              "edt": "0x31"
            },
            {
              "value": "washDrySmallAmountQuick",
              "descriptions": {
                "ja": "＜洗濯乾燥コース＞少量短時間",
                "en": "<Washing and drying course> Quick wash of small amount of laundry"
              },
              "edt": "0x32"
            },
            {
              "value": "washStandard",
              "descriptions": {
                "ja": "＜洗濯コース＞標準",
                "en": "<Washing course> Standard"
              },
              "edt": "0x61"
            },
            {
              "value": "washSilent",
              "descriptions": {
                "ja": "＜洗濯コース＞静音",
                "en": "<Washing course> Silent"
              },
              "edt": "0x62"
            },
            {
              "value": "washHeavilySoiled",
              "descriptions": {
                "ja": "＜洗濯コース＞汚れ大",
                "en": "<Washing course> Heavily soiled clothes"
              },
              "edt": "0x63"
            },
```


©2018-2022 ECHONET Consortium

```
            {
              "value": "washHardToRemove",
              "descriptions": {
                "ja": "＜洗濯コース＞しつこい汚れ",
                "en": "<Washing course> Hard-to-remove stains"
              },
              "edt": "0x64"
            },
            {
              "value": "washPresoaking",
              "descriptions": {
                "ja": "＜洗濯コース＞つけおき",
                "en": "<Washing course> Presoaking"
              },
              "edt": "0x65"
            },
            {
              "value": "washBlankets",
              "descriptions": {
                "ja": "＜洗濯コース＞毛布",
                "en": "<Washing course> Blankets"
              },
              "edt": "0x66"
            },
            {
              "value": "washSoft",
              "descriptions": {
                "ja": "＜洗濯コース＞ソフト",
                "en": "<Washing course> Soft"
              },
              "edt": "0x67"
            },
            {
              "value": "washDrymark",
              "descriptions": {
                "ja": "＜洗濯コース＞ドライ",
                "en": "<Washing course> Dry"
              },
              "edt": "0x68"
            },
            {
              "value": "washCleanRinsing",
              "descriptions": {
                "ja": "＜洗濯コース＞清潔すすぎ",
                "en": "<Washing course> Clean rinsing"
              },
              "edt": "0x69"
            },
            {
              "value": "washDisinfection",
              "descriptions": {
                "ja": "＜洗濯コース＞除菌",
                "en": "<Washing course> Disinfection"
              },
              "edt": "0x6A"
            },
            {
              "value": "washOilStrains",
              "descriptions": {
                "ja": "＜洗濯コース＞油汚れ",
                "en": "<Washing course> Oil stains"
```


©2018-2022 ECHONET Consortium

```
            },
            "edt": "0x6B"
          },
          {
            "value": "washMemory",
            "descriptions": {
              "ja": "＜洗濯コース＞メモリー",
              "en": "<Washing course> Memory"
            },
            "edt": "0x6C"
          },
          {
            "value": "washDetergentSaving",
            "descriptions": {
              "ja": "＜洗濯コース＞省洗剤",
              "en": "<Washing course> Detergent saving"
            },
            "edt": "0x6D"
          },
          {
            "value": "washLightlySoiled",
            "descriptions": {
              "ja": "＜洗濯コース＞汚れ小",
              "en": "<Washing course> Lightly soiled clothes"
            },
            "edt": "0x6E"
          },
          {
            "value": "washSmallAmountQuick",
            "descriptions": {
              "ja": "＜洗濯コース＞少量短時間",
              "en": "<Washing course> Quick wash of small amount of laundry"
            },
            "edt": "0x6F"
          },
          {
            "value": "washTankCleaning",
            "descriptions": {
              "ja": "＜洗濯コース＞槽洗浄",
              "en": "<Washing course> Tank cleaning"
            },
            "edt": "0x7F"
          },
          {
            "value": "dryStandard",
            "descriptions": {
              "ja": "＜乾燥コース＞標準",
              "en": "<Drying course> Standard"
            },
            "edt": "0xA1"
          },
          {
            "value": "dryBlankets",
            "descriptions": {
              "ja": "＜乾燥コース＞毛布",
              "en": "<Drying course> Blankets"
            },
            "edt": "0xA2"
          },
          {
            "value": "drySoft",
```


©2018-2022 ECHONET Consortium

```
            "descriptions": {
              "ja": "＜乾燥コース＞ソフト",
              "en": "<Drying course> Soft"
            },
            "edt": "0xA3"
          },
          {
            "value": "dryDrymark",
            "descriptions": {
              "ja": "＜乾燥コース＞ドライ",
              "en": "<Drying course> Dry"
            },
            "edt": "0xA4"
          },
          {
            "value": "dryIroning",
            "descriptions": {
              "ja": "＜乾燥コース＞アイロン／Yシャツ",
              "en": "<Drying course> Ironing/business shirts"
            },
            "edt": "0xA5"
          },
          {
            "value": "dryHangDrying",
            "descriptions": {
              "ja": "＜乾燥コース＞吊り干し",
              "en": "<Drying course> Hang drying"
            },
            "edt": "0xA6"
          },
          {
            "value": "dryThick",
            "descriptions": {
              "ja": "＜乾燥コース＞厚物",
              "en": "<Drying course> Thick clothes"
            },
            "edt": "0xA7"
          },
          {
            "value": "dryDisinfection",
            "descriptions": {
              "ja": "＜乾燥コース＞除菌",
              "en": "<Drying course> Disinfection"
            },
            "edt": "0xA8"
          },
          {
            "value": "dryShrinkageMinimization",
            "descriptions": {
              "ja": "＜乾燥コース＞縮み低減",
              "en": "<Drying course> Shrinkage minimization"
            },
            "edt": "0xA9"
          },
          {
            "value": "dryFinishing",
            "descriptions": {
              "ja": "＜乾燥コース＞仕上げ",
              "en": "<Drying course> Finishing"
            },
            "edt": "0xAA"
```


©2018-2022 ECHONET Consortium

```
            },
            {
              "value": "dryStationaryDrying",
              "descriptions": {
                "ja": "＜乾燥コース＞静止乾燥",
                "en": "<Drying course> Stationary drying"
              },
              "edt": "0xAB"
            },
            {
              "value": "dryUserDefinedTime",
              "descriptions": {
                "ja": "＜乾燥コース＞時間指定",
                "en": "<Drying course> User definition of drying time"
              },
              "edt": "0xAC"
            },
            {
              "value": "dryWarming",
              "descriptions": {
                "ja": "＜乾燥コース＞衣類あたため",
                "en": "<Drying course> Garment warming"
              },
              "edt": "0xAD"
            },
            {
              "value": "dryTankDrying",
              "descriptions": {
                "ja": "＜乾燥コース＞槽洗浄",
                "en": "<Drying course> Tank cleaning"
              },
              "edt": "0xBF"
            }
          ]
        }
      },
      "washerDryerCycle2": {
        "epc": "0xD1",
        "descriptions": {
          "ja": "洗濯乾燥コース設定2",
          "en": "Washer and dryer cycle setting 2"
        },
        "writable": true,
        "observable": false,
        "schema": {
          "type": "string",
          "enum": [
            "washDryNoWash",
            "washDryStandard",
            "washDrySilent",
            "washDryHeavilySoiled",
            "washDryHardToRemove",
            "washDryPresoaking",
            "washDryBlankets",
            "washDrySoft",
            "washDryDrymark",
            "washDryCleanRinsing",
            "washDryDisinfection",
            "washDryOilStrains",
            "washDryMemory",
            "washDryDetergentSaving",
```


©2018-2022 ECHONET Consortium

```
            "washDryLightlySoiled",
            "washDrySmallAmountQuick",
            "washDryTankCleaning"
          ],
          "values": [
            {
              "value": "washDryNoWash",
              "descriptions": {
                "ja": "洗濯なし",
                "en": "No washing"
              },
              "edt": "0x20"
            },
            {
              "value": "washDryStandard",
              "descriptions": {
                "ja": "標準",
                "en": "Standard"
              },
              "edt": "0x21"
            },
            {
              "value": "washDrySilent",
              "descriptions": {
                "ja": "静音",
                "en": "Silent"
              },
              "edt": "0x22"
            },
            {
              "value": "washDryHeavilySoiled",
              "descriptions": {
                "ja": "汚れ大",
                "en": "Heavily soiled clothes"
              },
              "edt": "0x23"
            },
            {
              "value": "washDryHardToRemove",
              "descriptions": {
                "ja": "しつこい汚れ",
                "en": "Hard-to-remove stains"
              },
              "edt": "0x24"
            },
            {
              "value": "washDryPresoaking",
              "descriptions": {
                "ja": "つけおき",
                "en": "Presoaking"
              },
              "edt": "0x25"
            },
            {
              "value": "washDryBlankets",
              "descriptions": {
                "ja": "毛布",
                "en": "Blankets"
              },
              "edt": "0x26"
            },
```


©2018-2022 ECHONET Consortium

```
            {
              "value": "washDrySoft",
              "descriptions": {
                "ja": "ソフト",
                "en": "Soft"
              },
              "edt": "0x27"
            },
            {
              "value": "washDryDrymark",
              "descriptions": {
                "ja": "ドライ",
                "en": "Dry"
              },
              "edt": "0x28"
            },
            {
              "value": "washDryCleanRinsing",
              "descriptions": {
                "ja": "清潔すすぎ",
                "en": "Clean rinsing"
              },
              "edt": "0x29"
            },
            {
              "value": "washDryDisinfection",
              "descriptions": {
                "ja": "除菌",
                "en": "Disinfection"
              },
              "edt": "0x2D"
            },
            {
              "value": "washDryOilStrains",
              "descriptions": {
                "ja": "油汚れ",
                "en": "Oil stains"
              },
              "edt": "0x2E"
            },
            {
              "value": "washDryMemory",
              "descriptions": {
                "ja": "メモリー",
                "en": "Memory"
              },
              "edt": "0x2F"
            },
            {
              "value": "washDryDetergentSaving",
              "descriptions": {
                "ja": "省洗剤",
                "en": "Detergent saving"
              },
              "edt": "0x30"
            },
            {
              "value": "washDryLightlySoiled",
              "descriptions": {
                "ja": "汚れ小",
                "en": "Lightly soiled clothes"
```


©2018-2022 ECHONET Consortium

```
            },
            "edt": "0x31"
          },
          {
            "value": "washDrySmallAmountQuick",
            "descriptions": {
              "ja": "少量短時間",
              "en": "Quick wash of small amount of laundry"
            },
            "edt": "0x32"
          },
          {
            "value": "washDryTankCleaning",
            "descriptions": {
              "ja": "槽洗浄",
              "en": "Tank cleaning"
            },
            "edt": "0x3F"
          }
        ]
      }
    },
    "dryerCycle": {
      "epc": "0xD2",
      "descriptions": {
        "ja": "乾燥方法設定",
        "en": "Drying cycle setting"
      },
      "writable": true,
      "observable": false,
      "schema": {
        "type": "string",
        "enum": [
          "dryNoDrying",
          "dryStandard",
          "dryBlankets",
          "drySoft",
          "dryDrymark",
          "dryIroning",
          "dryHangDrying",
          "dryThick",
          "dryDisinfection",
          "dryShrinkageMinimization",
          "dryFinishing",
          "dryStationaryDrying",
          "dryUserDefinedTime",
          "dryWarming",
          "dryHeaterCurrentLimit",
          "dryTankDrying"
        ],
        "values": [
          {
            "value": "dryNoDrying",
            "descriptions": {
              "ja": "乾燥なし",
              "en": "No drying"
            },
            "edt": "0xA0"
          },
          {
            "value": "dryStandard",
```


©2018-2022 ECHONET Consortium

```
            "descriptions": {
              "ja": "標準",
              "en": "Standard"
            },
            "edt": "0xA1"
          },
          {
            "value": "dryBlankets",
            "descriptions": {
              "ja": "毛布",
              "en": "Blankets"
            },
            "edt": "0xA2"
          },
          {
            "value": "drySoft",
            "descriptions": {
              "ja": "ソフト",
              "en": "Soft"
            },
            "edt": "0xA3"
          },
          {
            "value": "dryDrymark",
            "descriptions": {
              "ja": "ドライ",
              "en": "Dry"
            },
            "edt": "0xA4"
          },
          {
            "value": "dryIroning",
            "descriptions": {
              "ja": "アイロン／Yシャツ",
              "en": "Ironing/business shirts"
            },
            "edt": "0xA5"
          },
          {
            "value": "dryHangDrying",
            "descriptions": {
              "ja": "吊り干し",
              "en": "Hang drying"
            },
            "edt": "0xA6"
          },
          {
            "value": "dryThick",
            "descriptions": {
              "ja": "厚物",
              "en": "Thick clothes"
            },
            "edt": "0xA7"
          },
          {
            "value": "dryDisinfection",
            "descriptions": {
              "ja": "除菌",
              "en": "Disinfection"
            },
            "edt": "0xA8"
```


©2018-2022 ECHONET Consortium

```
            },
            {
              "value": "dryShrinkageMinimization",
              "descriptions": {
                "ja": "縮み低減",
                "en": "Shrinkage minimization"
              },
              "edt": "0xA9"
            },
            {
              "value": "dryFinishing",
              "descriptions": {
                "ja": "仕上げ",
                "en": "Finishing"
              },
              "edt": "0xAA"
            },
            {
              "value": "dryStationaryDrying",
              "descriptions": {
                "ja": "静止乾燥",
                "en": "Stationary drying"
              },
              "edt": "0xAB"
            },
            {
              "value": "dryUserDefinedTime",
              "descriptions": {
                "ja": "時間指定",
                "en": "User definition of drying time"
              },
              "edt": "0xAC"
            },
            {
              "value": "dryWarming",
              "descriptions": {
                "ja": "衣類あたため",
                "en": "Garment warming"
              },
              "edt": "0xAD"
            },
            {
              "value": "dryHeaterCurrentLimit",
              "descriptions": {
                "ja": "ヒータ入力制限",
                "en": "Heater current limit"
              },
              "edt": "0xAE"
            },
            {
              "value": "dryTankDrying",
              "descriptions": {
                "ja": "槽洗浄",
                "en": "Tank drying"
              },
              "edt": "0xBF"
            }
          ]
        }
      },
      "washerDryerCycleOptions1": {
```


©2018-2022 ECHONET Consortium

```
        "epc": "0xD3",
        "descriptions": {
          "ja": "設定可能コース情報1",
          "en": "Washer and dryer cycle option list 1"
        },
        "writable": false,
        "observable": false,
        "schema": {
          "type": "array",
          "items": {
            "type": "string",
            "enum": [
              "washDryStandard",
              "washDrySilent",
              "washDryHeavilySoiled",
              "washDryHardToRemove",
              "washDryPresoaking",
              "washDryBlankets",
              "washDrySoft",
              "washDryDrymark",
              "washDryCleanRinsing",
              "washDryIroning",
              "washDryHangDrying",
              "washDryThick",
              "washDryDisinfection",
              "washDryOilStrains",
              "washDryMemory",
              "washDryDetergentSaving",
              "washDryLightlySoiled",
              "washDrySmallAmountQuick",
              "washStandard",
              "washSilent",
              "washHeavilySoiled",
              "washHardToRemove",
              "washPresoaking",
              "washBlankets",
              "washSoft",
              "washDrymark",
              "washCleanRinsing",
              "washDisinfection",
              "washOilStrains",
              "washMemory",
              "washDetergentSaving",
              "washLightlySoiled",
              "washSmallAmountQuick",
              "washTankCleaning",
              "dryStandard",
              "dryBlankets",
              "drySoft",
              "dryDrymark",
              "dryIroning",
              "dryHangDrying",
              "dryThick",
              "dryDisinfection",
              "dryShrinkageMinimization",
              "dryFinishing",
              "dryStationaryDrying",
              "dryUserDefinedTime",
              "dryWarming",
              "dryTankDrying"
            ],
```


©2018-2022 ECHONET Consortium

```
            "values": [
              {
                "value": "washDryStandard",
                "descriptions": {
                  "ja": "＜洗濯乾燥コース＞標準",
                  "en": "<Washing and drying course> Standard"
                },
                "edt": "0x21"
              },
              {
                "value": "washDrySilent",
                "descriptions": {
                  "ja": "＜洗濯乾燥コース＞静音",
                  "en": "<Washing and drying course> Silent"
                },
                "edt": "0x22"
              },
              {
                "value": "washDryHeavilySoiled",
                "descriptions": {
                  "ja": "＜洗濯乾燥コース＞汚れ大",
                  "en": "<Washing and drying course> Heavily soiled"
                },
                "edt": "0x23"
              },
              {
                "value": "washDryHardToRemove",
                "descriptions": {
                  "ja": "＜洗濯乾燥コース＞しつこい汚れ",
                  "en": "<Washing and drying course> Hard-to-remove stains"
                },
                "edt": "0x24"
              },
              {
                "value": "washDryPresoaking",
                "descriptions": {
                  "ja": "＜洗濯乾燥コース＞つけおき",
                  "en": "<Washing and drying course> Presoaking"
                },
                "edt": "0x25"
              },
              {
                "value": "washDryBlankets",
                "descriptions": {
                  "ja": "＜洗濯乾燥コース＞毛布",
                  "en": "<Washing and drying course> Blankets"
                },
                "edt": "0x26"
              },
              {
                "value": "washDrySoft",
                "descriptions": {
                  "ja": "＜洗濯乾燥コース＞ソフト",
                  "en": "<Washing and drying course> Soft"
                },
                "edt": "0x27"
              },
              {
                "value": "washDryDrymark",
                "descriptions": {
                  "ja": "＜洗濯乾燥コース＞ドライ",
```


©2018-2022 ECHONET Consortium

```
          "en": "<Washing and drying course> Dry"
        },
        "edt": "0x28"
      },
      {
        "value": "washDryCleanRinsing",
        "descriptions": {
          "ja": "＜洗濯乾燥コース＞清潔すすぎ",
          "en": "<Washing and drying course> Clean rinsing"
        },
        "edt": "0x29"
      },
      {
        "value": "washDryIroning",
        "descriptions": {
          "ja": "＜洗濯乾燥コース＞アイロン／Y シャツ",
          "en": "<Washing and drying course> Ironing/business shirts"
        },
        "edt": "0x2A"
      },
      {
        "value": "washDryHangDrying",
        "descriptions": {
          "ja": "＜洗濯乾燥コース＞吊り干し",
          "en": "<Washing and drying course> Hang drying"
        },
        "edt": "0x2B"
      },
      {
        "value": "washDryThick",
        "descriptions": {
          "ja": "＜洗濯乾燥コース＞厚物",
          "en": "<Washing and drying course> Thick clothes"
        },
        "edt": "0x2C"
      },
      {
        "value": "washDryDisinfection",
        "descriptions": {
          "ja": "＜洗濯乾燥コース＞除菌",
          "en": "<Washing and drying course> Disinfection"
        },
        "edt": "0x2D"
      },
      {
        "value": "washDryOilStrains",
        "descriptions": {
          "ja": "＜洗濯乾燥コース＞油汚れ",
          "en": "<Washing and drying course> Oil stains"
        },
        "edt": "0x2E"
      },
      {
        "value": "washDryMemory",
        "descriptions": {
          "ja": "＜洗濯乾燥コース＞メモリー",
          "en": "<Washing and drying course> Memory"
        },
        "edt": "0x2F"
      },
      {
```


©2018-2022 ECHONET Consortium

```
                "value": "washDryDetergentSaving",
                "descriptions": {
                  "ja": "＜洗濯乾燥コース＞省洗剤",
                  "en": "<Washing and drying course> Detergent saving"
                },
                "edt": "0x30"
              },
              {
                "value": "washDryLightlySoiled",
                "descriptions": {
                  "ja": "＜洗濯乾燥コース＞汚れ少",
                  "en": "<Washing and drying course> Lightly soiled clothes"
                },
                "edt": "0x31"
              },
              {
                "value": "washDrySmallAmountQuick",
                "descriptions": {
                  "ja": "＜洗濯乾燥コース＞少量短時間",
                  "en": "<Washing and drying course> Quick wash of small amount of laundry"
                },
                "edt": "0x32"
              },
              {
                "value": "washStandard",
                "descriptions": {
                  "ja": "＜洗濯コース＞標準",
                  "en": "<Washing course> Standard"
                },
                "edt": "0x61"
              },
              {
                "value": "washSilent",
                "descriptions": {
                  "ja": "＜洗濯コース＞静音",
                  "en": "<Washing course> Silent"
                },
                "edt": "0x62"
              },
              {
                "value": "washHeavilySoiled",
                "descriptions": {
                  "ja": "＜洗濯コース＞汚れ大",
                  "en": "<Washing course> Heavily soiled clothes"
                },
                "edt": "0x63"
              },
              {
                "value": "washHardToRemove",
                "descriptions": {
                  "ja": "＜洗濯コース＞しつこい汚れ",
                  "en": "<Washing course> Hard-to-remove stains"
                },
                "edt": "0x64"
              },
              {
                "value": "washPresoaking",
                "descriptions": {
                  "ja": "＜洗濯コース＞つけおき",
                  "en": "<Washing course> Presoaking"
                },
```


©2018-2022 ECHONET Consortium

```
            "edt": "0x65"
          },
          {
            "value": "washBlankets",
            "descriptions": {
              "ja": "＜洗濯コース＞毛布",
              "en": "<Washing course> Blankets"
            },
            "edt": "0x66"
          },
          {
            "value": "washSoft",
            "descriptions": {
              "ja": "＜洗濯コース＞ソフト",
              "en": "<Washing course> Soft"
            },
            "edt": "0x67"
          },
          {
            "value": "washDrymark",
            "descriptions": {
              "ja": "＜洗濯コース＞ドライ",
              "en": "<Washing course> Dry"
            },
            "edt": "0x68"
          },
          {
            "value": "washCleanRinsing",
            "descriptions": {
              "ja": "＜洗濯コース＞清潔すすぎ",
              "en": "<Washing course> Clean rinsing"
            },
            "edt": "0x69"
          },
          {
            "value": "washDisinfection",
            "descriptions": {
              "ja": "＜洗濯コース＞除菌",
              "en": "<Washing course> Disinfection"
            },
            "edt": "0x6A"
          },
          {
            "value": "washOilStrains",
            "descriptions": {
              "ja": "＜洗濯コース＞油汚れ",
              "en": "<Washing course> Oil stains"
            },
            "edt": "0x6B"
          },
          {
            "value": "washMemory",
            "descriptions": {
              "ja": "＜洗濯コース＞メモリ",
              "en": "<Washing course> Memory"
            },
            "edt": "0x6C"
          },
          {
            "value": "washDetergentSaving",
            "descriptions": {
```


©2018-2022 ECHONET Consortium

```
        "ja": "＜洗濯コース＞省洗剤",
        "en": "<Washing course> Detergent saving"
      },
      "edt": "0x6D"
    },
    {
      "value": "washLightlySoiled",
      "descriptions": {
        "ja": "＜洗濯コース＞汚れ少",
        "en": "<Washing course> Lightly soiled clothes"
      },
      "edt": "0x6E"
    },
    {
      "value": "washSmallAmountQuick",
      "descriptions": {
        "ja": "＜洗濯コース＞少量短時間",
        "en": "<Washing course> Quick wash of small amount of laundry"
      },
      "edt": "0x6F"
    },
    {
      "value": "washTankCleaning",
      "descriptions": {
        "ja": "＜洗濯コース＞槽洗浄",
        "en": "<Washing course> Tank cleaning"
      },
      "edt": "0x7F"
    },
    {
      "value": "dryStandard",
      "descriptions": {
        "ja": "＜乾燥コース＞標準",
        "en": "<Drying course> Standard"
      },
      "edt": "0xA1"
    },
    {
      "value": "dryBlankets",
      "descriptions": {
        "ja": "＜乾燥コース＞毛布",
        "en": "<Drying course> Blankets"
      },
      "edt": "0xA2"
    },
    {
      "value": "drySoft",
      "descriptions": {
        "ja": "＜乾燥コース＞ソフト",
        "en": "<Drying course> Soft"
      },
      "edt": "0xA3"
    },
    {
      "value": "dryDrymark",
      "descriptions": {
        "ja": "＜乾燥コース＞ドライ",
        "en": "<Drying course> Dry"
      },
      "edt": "0xA4"
    },
```


©2018-2022 ECHONET Consortium

```
            {
              "value": "dryIroning",
              "descriptions": {
                "ja": "＜乾燥コース＞アイロン／Y シャツ",
                "en": "<Drying course> Ironing/business shirts"
              },
              "edt": "0xA5"
            },
            {
              "value": "dryHangDrying",
              "descriptions": {
                "ja": "＜乾燥コース＞吊り干し",
                "en": "<Drying course> Hang drying"
              },
              "edt": "0xA6"
            },
            {
              "value": "dryThick",
              "descriptions": {
                "ja": "＜乾燥コース＞厚物",
                "en": "<Drying course> Thick clothes"
              },
              "edt": "0xA7"
            },
            {
              "value": "dryDisinfection",
              "descriptions": {
                "ja": "＜乾燥コース＞除菌",
                "en": "<Drying course> Disinfection"
              },
              "edt": "0xA8"
            },
            {
              "value": "dryShrinkageMinimization",
              "descriptions": {
                "ja": "＜乾燥コース＞縮み低減",
                "en": "<Drying course> Shrinkage minimization"
              },
              "edt": "0xA9"
            },
            {
              "value": "dryFinishing",
              "descriptions": {
                "ja": "＜乾燥コース＞仕上げ",
                "en": "<Drying course> Finishing"
              },
              "edt": "0xAA"
            },
            {
              "value": "dryStationaryDrying",
              "descriptions": {
                "ja": "＜乾燥コース＞静止乾燥",
                "en": "<Drying course> Stationary drying"
              },
              "edt": "0xAB"
            },
            {
              "value": "dryUserDefinedTime",
              "descriptions": {
                "ja": "＜乾燥コース＞時間指定",
                "en": "<Drying course> User definition of drying time"
```


©2018-2022 ECHONET Consortium

```
                },
                "edt": "0xAC"
              },
              {
                "value": "dryWarming",
                "descriptions": {
                  "ja": "＜乾燥コース＞衣類あたため",
                  "en": "<Drying course> Garment warming"
                },
                "edt": "0xAD"
              },
              {
                "value": "dryTankDrying",
                "descriptions": {
                  "ja": "＜乾燥コース＞槽乾燥",
                  "en": "<Drying course> Tank drying"
                },
                "edt": "0xBF"
              }
            ]
          }
        }
      },
      "washerDryerCycleOptions2": {
        "epc": "0xD4",
        "descriptions": {
          "ja": "設定可能コース情報2",
          "en": "Washer and dryer cycle option list 2"
        },
        "writable": false,
        "observable": false,
        "schema": {
          "type": "array",
          "items": {
            "type": "string",
            "enum": [
              "washDryNoWash",
              "washDryStandard",
              "washDrySilent",
              "washDryHeavilySoiled",
              "washDryHardToRemove",
              "washDryPresoaking",
              "washDryBlankets",
              "washDrySoft",
              "washDryDrymark",
              "washDryCleanRinsing",
              "washDryDisinfection",
              "washDryOilStrains",
              "washDryMemory",
              "washDryDetergentSaving",
              "washDryLightlySoiled",
              "washDrySmallAmountQuick",
              "washDryTankCleaning"
            ],
            "values": [
              {
                "value": "washDryNoWash",
                "descriptions": {
                  "ja": "洗濯なし",
                  "en": "No washing"
                },
```


©2018-2022 ECHONET Consortium

```
                "edt": "0x20"
              },
              {
                "value": "washDryStandard",
                "descriptions": {
                  "ja": "標準",
                  "en": "Standard"
                },
                "edt": "0x21"
              },
              {
                "value": "washDrySilent",
                "descriptions": {
                  "ja": "静音",
                  "en": "Silent"
                },
                "edt": "0x22"
              },
              {
                "value": "washDryHeavilySoiled",
                "descriptions": {
                  "ja": "汚れ大",
                  "en": "Heavily soiled clothes"
                },
                "edt": "0x23"
              },
              {
                "value": "washDryHardToRemove",
                "descriptions": {
                  "ja": "しつこい汚れ",
                  "en": "Hard-to-remove stains"
                },
                "edt": "0x24"
              },
              {
                "value": "washDryPresoaking",
                "descriptions": {
                  "ja": "つけおき",
                  "en": "Presoaking"
                },
                "edt": "0x25"
              },
              {
                "value": "washDryBlankets",
                "descriptions": {
                  "ja": "毛布",
                  "en": "Blankets"
                },
                "edt": "0x26"
              },
              {
                "value": "washDrySoft",
                "descriptions": {
                  "ja": "ソフト",
                  "en": "Soft"
                },
                "edt": "0x27"
              },
              {
                "value": "washDryDrymark",
                "descriptions": {
```


©2018-2022 ECHONET Consortium

```
            "ja": "ドライ",
            "en": "Dry"
          },
          "edt": "0x28"
        },
        {
          "value": "washDryCleanRinsing",
          "descriptions": {
            "ja": "清潔すすぎ",
            "en": "Clean rinsing"
          },
          "edt": "0x29"
        },
        {
          "value": "washDryDisinfection",
          "descriptions": {
            "ja": "除菌",
            "en": "Disinfection"
          },
          "edt": "0x2D"
        },
        {
          "value": "washDryOilStrains",
          "descriptions": {
            "ja": "油汚れ",
            "en": "Oil stains"
          },
          "edt": "0x2E"
        },
        {
          "value": "washDryMemory",
          "descriptions": {
            "ja": "メモリー",
            "en": "Memory"
          },
          "edt": "0x2F"
        },
        {
          "value": "washDryDetergentSaving",
          "descriptions": {
            "ja": "省洗剤",
            "en": "Detergent saving"
          },
          "edt": "0x30"
        },
        {
          "value": "washDryLightlySoiled",
          "descriptions": {
            "ja": "汚れ少",
            "en": "Lightly soiled clothes"
          },
          "edt": "0x31"
        },
        {
          "value": "washDrySmallAmountQuick",
          "descriptions": {
            "ja": "少量短時間",
            "en": "Quick wash of small amount of laundry"
          },
          "edt": "0x32"
        },
```


©2018-2022 ECHONET Consortium

```
            {
              "value": "washDryTankCleaning",
              "descriptions": {
                "ja": "槽洗浄",
                "en": "Tank cleaning"
              },
              "edt": "0x3F"
            }
          ]
        }
      }
    },
    "washerDryerCycleOptions3": {
      "epc": "0xD5",
      "descriptions": {
        "ja": "設定可能コース情報3",
        "en": "Washer and dryer cycle option list 3"
      },
      "writable": false,
      "observable": false,
      "schema": {
        "type": "array",
        "items": {
          "type": "string",
          "enum": [
            "dryNoDrying",
            "dryStandard",
            "dryBlankets",
            "drySoft",
            "dryDrymark",
            "dryIroning",
            "dryHangDrying",
            "dryThick",
            "dryDisinfection",
            "dryShrinkageMinimization",
            "dryFinishing",
            "dryStationaryDrying",
            "dryUserDefinedTime",
            "dryWarming",
            "dryHeaterCurrentLimit",
            "dryTankDrying"
          ],
          "values": [
            {
              "value": "dryNoDrying",
              "descriptions": {
                "ja": "乾燥なし",
                "en": "No drying"
              },
              "edt": "0xA0"
            },
            {
              "value": "dryStandard",
              "descriptions": {
                "ja": "標準",
                "en": "Standard"
              },
              "edt": "0xA1"
            },
            {
              "value": "dryBlankets",
```


©2018-2022 ECHONET Consortium

```
                "descriptions": {
                  "ja": "毛布",
                  "en": "Blankets"
                },
                "edt": "0xA2"
              },
              {
                "value": "drySoft",
                "descriptions": {
                  "ja": "ソフト",
                  "en": "Soft"
                },
                "edt": "0xA3"
              },
              {
                "value": "dryDrymark",
                "descriptions": {
                  "ja": "ドライ",
                  "en": "Dry"
                },
                "edt": "0xA4"
              },
              {
                "value": "dryIroning",
                "descriptions": {
                  "ja": "アイロン／Y シャツ",
                  "en": "Ironing/business shirts"
                },
                "edt": "0xA5"
              },
              {
                "value": "dryHangDrying",
                "descriptions": {
                  "ja": "吊り干し",
                  "en": "Hang drying"
                },
                "edt": "0xA6"
              },
              {
                "value": "dryThick",
                "descriptions": {
                  "ja": "厚物",
                  "en": "Thick clothes"
                },
                "edt": "0xA7"
              },
              {
                "value": "dryDisinfection",
                "descriptions": {
                  "ja": "除菌",
                  "en": "Disinfection"
                },
                "edt": "0xA8"
              },
              {
                "value": "dryShrinkageMinimization",
                "descriptions": {
                  "ja": "縮み低減",
                  "en": "Shrinkage minimization"
                },
                "edt": "0xA9"
```


©2018-2022 ECHONET Consortium

```
            },
            {
              "value": "dryFinishing",
              "descriptions": {
                "ja": "仕上げ",
                "en": "Finishing"
              },
              "edt": "0xAA"
            },
            {
              "value": "dryStationaryDrying",
              "descriptions": {
                "ja": "静止乾燥",
                "en": "Stationary drying"
              },
              "edt": "0xAB"
            },
            {
              "value": "dryUserDefinedTime",
              "descriptions": {
                "ja": "時間指定",
                "en": "User definition of drying time"
              },
              "edt": "0xC"
            },
            {
              "value": "dryWarming",
              "descriptions": {
                "ja": "衣類あたため",
                "en": "Garment warming"
              },
              "edt": "0xAD"
            },
            {
              "value": "dryHeaterCurrentLimit",
              "descriptions": {
                "ja": "ヒータ入力制限",
                "en": "Heater current limit"
              },
              "edt": "0xAE"
            },
            {
              "value": "dryTankDrying",
              "descriptions": {
                "ja": "槽乾燥",
                "en": "Tank drying"
              },
              "edt": "0xBF"
            }
          ]
        }
      }
    },
    "waterFlowRate": {
      "epc": "0xD6",
      "descriptions": {
        "ja": "水流設定",
        "en": "Water flow rate setting"
      },
      "writable": true,
      "observable": false,
```


©2018-2022 ECHONET Consortium

```
        "schema": {
          "oneOf": [
            {
              "type": "object",
              "properties": {
                "absolute": {
                  "descriptions": {
                    "ja": "絶対値指定",
                    "en": "Absolute setting"
                  },
                  "type": "number",
                  "minimum": 1,
                  "maximum": 16,
                  "multipleOf": 1
                }
              }
            },
            {
              "type": "object",
              "properties": {
                "relative": {
                  "descriptions": {
                    "ja": "自動からの相対指定 (0は自動設定)",
                    "en": "Relative setting relative to the automatic setting (0 means
Automatic setting)"
                  },
                  "type": "number",
                  "minimum": -8,
                  "maximum": 8,
                  "multipleOf": 1
                }
              }
            }
          ]
        }
      },
      "spinDryingRotationSpeed": {
        "epc": "0xD7",
        "descriptions": {
          "ja": "脱水回転数設定値",
          "en": "Rotation speed for spin drying setting"
        },
        "writable": true,
        "observable": false,
        "schema": {
          "oneOf": [
            {
              "type": "object",
              "properties": {
                "absolute": {
                  "descriptions": {
                    "ja": "絶対値指定",
                    "en": "Absolute setting"
                  },
                  "type": "number",
                  "unit": "r/min",
                  "minimum": 0,
                  "maximum": 4095
                }
              }
            },
```


©2018-2022 ECHONET Consortium

```
            {
              "type": "object",
              "properties": {
                "relative": {
                  "descriptions": {
                    "ja": "自動からの相対指定 (0は自動設定)",
                    "en": "Relative setting relative to the automatic setting (0 means
Automatic setting)"
                  },
                  "type": "number",
                  "unit": "r/min",
                  "minimum": -2048,
                  "maximum": 2048
                }
              }
            }
          ]
        }
      },
      "dryingDegree": {
        "epc": "0xD8",
        "descriptions": {
          "ja": "乾燥度設定",
          "en": "Degree of drying setting"
        },
        "writable": true,
        "observable": false,
        "schema": {
          "oneOf": [
            {
              "type": "object",
              "properties": {
                "absolute": {
                  "descriptions": {
                    "ja": "絶対値指定",
                    "en": "Absolute setting"
                  },
                  "type": "number",
                  "minimum": 1,
                  "maximum": 16,
                  "multipleOf": 1
                }
              }
            },
            {
              "type": "object",
              "properties": {
                "relative": {
                  "descriptions": {
                    "ja": "自動からの相対指定 (0は自動設定)",
                    "en": "Relative setting relative to the automatic setting (0 means
Automatic setting)"
                  },
                  "type": "number",
                  "minimum": -8,
                  "maximum": 8,
                  "multipleOf": 1
                }
              }
            }
          ]
```


©2018-2022 ECHONET Consortium

```
      }
    },
    "washingTimeRemaining": {
      "epc": "0xDB",
      "descriptions": {
        "ja": "洗濯残り時間",
        "en": "Remaining washing time"
      },
      "writable": false,
      "observable": false,
      "schema": {
        "oneOf": [
          {
            "type": "number",
            "unit": "minute",
            "minimum": 0,
            "maximum": 15299
          },
          {
            "type": "string",
            "enum": [
              "unknown"
            ],
            "values": [
              {
                "value": "unknown",
                "descriptions": {
                  "ja": "残り時間不明",
                  "en": "Remaining time unknown"
                },
                "edt": "0xFF"
              }
            ]
          }
        ]
      }
    },
    "dryingTimeRemaining": {
      "epc": "0xDC",
      "descriptions": {
        "ja": "乾燥残り時間",
        "en": "Remaining drying time"
      },
      "writable": false,
      "observable": false,
      "schema": {
        "oneOf": [
          {
            "type": "number",
            "unit": "minute",
            "minimum": 0,
            "maximum": 15299
          },
          {
            "type": "string",
            "enum": [
              "unknown"
            ],
            "values": [
              {
                "value": "unknown",
```


©2018-2022 ECHONET Consortium

```
                  "descriptions": {
                    "ja": "残り時間不明",
                    "en": "Remaining time unknown"
                  },
                  "edt": "0xFF"
                }
              ]
            }
          ]
        }
      },
      "onTimerElapsed": {
        "epc": "0xDF",
        "descriptions": {
          "ja": "ONタイマ経過時間",
          "en": "Elapsed time on the ON timer"
        },
        "writable": false,
        "observable": false,
        "schema": {
          "type": "number",
          "unit": "minute",
          "minimum": 0,
          "maximum": 15359
        }
      },
      "presoakingTime": {
        "epc": "0xE1",
        "descriptions": {
          "ja": "つけおき行程時間設定値",
          "en": "Presoaking time setting"
        },
        "writable": true,
        "observable": false,
        "schema": {
          "oneOf": [
            {
              "type": "object",
              "properties": {
                "absolute": {
                  "descriptions": {
                    "ja": "絶対値指定",
                    "en": "Absolute setting"
                  },
                  "type": "number",
                  "unit": "minute",
                  "minimum": 0,
                  "maximum": 1439
                }
              }
            },
            {
              "type": "object",
              "properties": {
                "relative": {
                  "descriptions": {
                    "ja": "自動からの相対指定 (0は自動設定)",
                    "en": "Relative setting relative to the automatic setting (0 means
Automatic setting)"
                  },
                  "type": "number",
```


©2018-2022 ECHONET Consortium

```
                "unit": "minute",
                "minimum": -60,
                "maximum": 60
              }
            }
          }
        ]
      }
    },
    "currentStage": {
      "epc": "0xE2",
      "descriptions": {
        "ja": "洗濯乾燥遷移状態",
        "en": "Current stage of washer and dryer cycle"
      },
      "writable": false,
      "observable": false,
      "schema": {
        "type": "string",
        "enum": [
          "washing",
          "rinsing",
          "spinDrying",
          "suspended",
          "washingCompleted",
          "washingDryingCompleted",
          "drying",
          "wrinkleMinimizing",
          "dryingWrinkleMinimizingCompleted",
          "standby",
          "1stRinsing",
          "2ndRinsing",
          "3rdRinsing",
          "4thRinsing",
          "5thRinsing",
          "6thRinsing",
          "7thRinsing",
          "8thRinsing",
          "1stSpinDrying",
          "2ndSpinDrying",
          "3rdSpinDrying",
          "4thSpinDrying",
          "5thSpinDrying",
          "6thSpinDrying",
          "7thSpinDrying",
          "8thSpinDrying",
          "preheatSpinDrying"
        ],
        "values": [
          {
            "value": "washing",
            "descriptions": {
              "ja": "洗い",
              "en": "Washing"
            },
            "edt": "0x41"
          },
          {
            "value": "rinsing",
            "descriptions": {
              "ja": "すすぎ",
```


©2018-2022 ECHONET Consortium

```
            "en": "Rinsing"
          },
          "edt": "0x42"
        },
        {
          "value": "spinDrying",
          "descriptions": {
            "ja": "脱水",
            "en": "Spin drying"
          },
          "edt": "0x43"
        },
        {
          "value": "suspended",
          "descriptions": {
            "ja": "一時停止",
            "en": "Suspended"
          },
          "edt": "0x44"
        },
        {
          "value": "washingCompleted",
          "descriptions": {
            "ja": "洗濯完了",
            "en": "Washing completed"
          },
          "edt": "0x45"
        },
        {
          "value": "washingDryingCompleted",
          "descriptions": {
            "ja": "洗濯／乾燥（ソフトキープなし）完了",
            "en": "Washing/drying (without wrinkling minimization) completed"
          },
          "edt": "0x51"
        },
        {
          "value": "drying",
          "descriptions": {
            "ja": "乾燥",
            "en": "Drying"
          },
          "edt": "0x52"
        },
        {
          "value": "wrinkleMinimizing",
          "descriptions": {
            "ja": "ソフトキープ",
            "en": "Wrinkling minimization"
          },
          "edt": "0x53"
        },
        {
          "value": "dryingWrinkleMinimizingCompleted",
          "descriptions": {
            "ja": "乾燥（ソフトキープあり）完了",
            "en": "Drying (with wrinkling minimization) completed"
          },
          "edt": "0x54"
        },
        {
```


©2018-2022 ECHONET Consortium

```
            "value": "standby",
            "descriptions": {
              "ja": "運転前待機中",
              "en": "Standing by to start"
            },
            "edt": "0x61"
          },
          {
            "value": "1stRinsing",
            "descriptions": {
              "ja": "第1すすぎ",
              "en": "1st rinsing"
            },
            "edt": "0x71"
          },
          {
            "value": "2ndRinsing",
            "descriptions": {
              "ja": "第2すすぎ",
              "en": "2nd rinsing"
            },
            "edt": "0x72"
          },
          {
            "value": "3rdRinsing",
            "descriptions": {
              "ja": "第3すすぎ",
              "en": "3rd rinsing"
            },
            "edt": "0x73"
          },
          {
            "value": "4thRinsing",
            "descriptions": {
              "ja": "第4すすぎ",
              "en": "4th rinsing"
            },
            "edt": "0x74"
          },
          {
            "value": "5thRinsing",
            "descriptions": {
              "ja": "第5すすぎ",
              "en": "5th rinsing"
            },
            "edt": "0x75"
          },
          {
            "value": "6thRinsing",
            "descriptions": {
              "ja": "第6すすぎ",
              "en": "6th rinsing"
            },
            "edt": "0x76"
          },
          {
            "value": "7thRinsing",
            "descriptions": {
              "ja": "第7すすぎ",
              "en": "7th rinsing"
            },
```


©2018-2022 ECHONET Consortium

```
            "edt": "0x77"
          },
          {
            "value": "8thRinsing",
            "descriptions": {
              "ja": "第8すすぎ",
              "en": "8th rinsing"
            },
            "edt": "0x78"
          },
          {
            "value": "1stSpinDrying",
            "descriptions": {
              "ja": "第1脱水",
              "en": "1st spin drying"
            },
            "edt": "0x81"
          },
          {
            "value": "2ndSpinDrying",
            "descriptions": {
              "ja": "第2脱水",
              "en": "2nd spin drying"
            },
            "edt": "0x82"
          },
          {
            "value": "3rdSpinDrying",
            "descriptions": {
              "ja": "第3脱水",
              "en": "3rd spin drying"
            },
            "edt": "0x83"
          },
          {
            "value": "4thSpinDrying",
            "descriptions": {
              "ja": "第4脱水",
              "en": "4th spin drying"
            },
            "edt": "0x84"
          },
          {
            "value": "5thSpinDrying",
            "descriptions": {
              "ja": "第5脱水",
              "en": "5th spin drying"
            },
            "edt": "0x85"
          },
          {
            "value": "6thSpinDrying",
            "descriptions": {
              "ja": "第6脱水",
              "en": "6th spin drying"
            },
            "edt": "0x86"
          },
          {
            "value": "7thSpinDrying",
            "descriptions": {
```


©2018-2022 ECHONET Consortium

```
                "ja": "第7脱水",
                "en": "7th spin drying"
              },
              "edt": "0x87"
            },
            {
              "value": "8thSpinDrying",
              "descriptions": {
                "ja": "第8脱水",
                "en": "8th spin drying"
              },
              "edt": "0x88"
            },
            {
              "value": "preheatSpinDrying",
              "descriptions": {
                "ja": "プリヒート脱水",
                "en": "Preheat spin drying"
              },
              "edt": "0x91"
            }
          ]
        }
      },
      "waterVolumeByLiter": {
        "epc": "0xE3",
        "descriptions": {
          "ja": "水量設定1",
          "en": "Water volume setting 1"
        },
        "writable": true,
        "observable": false,
        "schema": {
          "oneOf": [
            {
              "type": "object",
              "properties": {
                "absolute": {
                  "descriptions": {
                    "ja": "絶対値指定",
                    "en": "Absolute setting"
                  },
                  "type": "number",
                  "unit": "liter",
                  "minimum": 0,
                  "maximum": 127
                }
              }
            },
            {
              "type": "object",
              "properties": {
                "relative": {
                  "descriptions": {
                    "ja": "自動からの相対指定 (0は自動設定)",
                    "en": "Relative setting relative to the automatic setting (0 means
Automatic setting)"
                  },
                  "type": "number",
                  "unit": "liter",
                  "minimum": -32,
```


©2018-2022 ECHONET Consortium

```
                "maximum": 32
              }
            }
          }
        ]
      },
      "note": {
        "ja": "0xA0 to 0xBF プラス相対指定、0xC0 to 0xDF マイナス相対指定",
        "en": "0xA0 to 0xBF Relative plus, 0xC0 to 0xDF Relative minus"
      }
    },
    "waterVolumeByStep": {
      "epc": "0xE4",
      "descriptions": {
        "ja": "水量設定2",
        "en": "Water volume setting 2"
      },
      "writable": true,
      "observable": false,
      "schema": {
        "oneOf": [
          {
            "type": "object",
            "properties": {
              "absolute": {
                "descriptions": {
                  "ja": "絶対値指定",
                  "en": "Absolute setting"
                },
                "type": "number",
                "minimum": 1,
                "maximum": 16,
                "multipleOf": 1
              }
            }
          },
          {
            "type": "object",
            "properties": {
              "relative": {
                "descriptions": {
                  "ja": "自動からの相対指定 (0は自動設定)",
                  "en": "Relative setting relative to the automatic setting (0 means
Automatic setting)"
                },
                "type": "number",
                "minimum": -8,
                "maximum": 8,
                "multipleOf": 1
              }
            }
          }
        ]
      }
    },
    "washingTime": {
      "epc": "0xE5",
      "descriptions": {
        "ja": "洗い時間設定値",
        "en": "Washing time setting"
      },
```


©2018-2022 ECHONET Consortium

```
        "writable": true,
        "observable": false,
        "schema": {
          "oneOf": [
            {
              "type": "object",
              "properties": {
                "absolute": {
                  "descriptions": {
                    "ja": "絶対値指定",
                    "en": "Absolute setting"
                  },
                  "type": "number",
                  "unit": "minute",
                  "minimum": 0,
                  "maximum": 1439
                }
              }
            },
            {
              "type": "object",
              "properties": {
                "relative": {
                  "descriptions": {
                    "ja": "自動からの相対指定 (0は自動設定)",
                    "en": "Relative setting relative to the automatic setting (0 means
Automatic setting)"
                  },
                  "type": "number",
                  "unit": "minute",
                  "minimum": -60,
                  "maximum": 60
                }
              }
            }
          ]
        }
      },
      "rinsingCount": {
        "epc": "0xE6",
        "descriptions": {
          "ja": "すすぎ回数設定値",
          "en": "Number of times of rinsing setting"
        },
        "writable": true,
        "observable": false,
        "schema": {
          "oneOf": [
            {
              "type": "number",
              "minimum": 0,
              "maximum": 8
            },
            {
              "type": "string",
              "enum": [
                "auto"
              ],
              "values": [
                {
                  "value": "auto",
```


©2018-2022 ECHONET Consortium

```
                "descriptions": {
                  "ja": "自動",
                  "en": "Automatic"
                },
                "edt": "0xFF"
              }
            ]
          }
        ]
      }
    },
    "rinsingProcess": {
      "epc": "0xE7",
      "descriptions": {
        "ja": "すすぎモード設定",
        "en": "Rinsing process setting"
      },
      "writable": true,
      "observable": false,
      "schema": {
        "type": "array",
        "minItems": 1,
        "maxItems": 8,
        "items": {
          "type": "string",
          "enum": [
            "auto",
            "withoutAdditionalWater",
            "withAdditionalWater",
            "shower"
          ],
          "values": [
            {
              "value": "auto",
              "descriptions": {
                "ja": "モード自動設定",
                "en": "Automatic mode"
              },
              "edt": "0x00"
            },
            {
              "value": "withoutAdditionalWater",
              "descriptions": {
                "ja": "溜めすすぎ",
                "en": "Rinsing without additional feeding of water from the tap"
              },
              "edt": "0x01"
            },
            {
              "value": "withAdditionalWater",
              "descriptions": {
                "ja": "流水すすぎ",
                "en": "Rinsing with additional feeding of water from the tap"
              },
              "edt": "0x02"
            },
            {
              "value": "shower",
              "descriptions": {
                "ja": "シャワーすすぎ",
                "en": "Shower rinsing"
```


©2018-2022 ECHONET Consortium

```
                },
                "edt": "0x03"
              }
            ]
          }
        }
      },
      "spinDryingTime": {
        "epc": "0xE8",
        "descriptions": {
          "ja": "脱水時間設定値",
          "en": "Spin drying time setting"
        },
        "writable": true,
        "observable": false,
        "schema": {
          "oneOf": [
            {
              "type": "object",
              "properties": {
                "absolute": {
                  "descriptions": {
                    "ja": "絶対値指定",
                    "en": "Absolute setting"
                  },
                  "type": "number",
                  "unit": "minute",
                  "minimum": 0,
                  "maximum": 59
                }
              }
            },
            {
              "type": "object",
              "properties": {
                "relative": {
                  "descriptions": {
                    "ja": "自動からの相対指定 (0は自動設定)",
                    "en": "Relative setting relative to the automatic setting (0 means
Automatic setting)"
                  },
                  "type": "number",
                  "unit": "minute",
                  "minimum": -32,
                  "maximum": 32
                }
              }
            }
          ]
        }
      },
      "dryingTime": {
        "epc": "0xE9",
        "descriptions": {
          "ja": "乾燥時間設定値",
          "en": "Drying time setting"
        },
        "writable": true,
        "observable": false,
        "schema": {
          "oneOf": [
```


©2018-2022 ECHONET Consortium

```
            {
              "type": "object",
              "properties": {
                "absolute": {
                  "descriptions": {
                    "ja": "絶対値指定",
                    "en": "Absolute setting"
                  },
                  "type": "number",
                  "unit": "minute",
                  "minimum": 0,
                  "maximum": 1439
                }
              }
            },
            {
              "type": "object",
              "properties": {
                "relative": {
                  "descriptions": {
                    "ja": "自動からの相対指定 (0は自動設定)",
                    "en": "Relative setting relative to the automatic setting (0 means
Automatic setting)"
                  },
                  "type": "number",
                  "unit": "minute",
                  "minimum": -60,
                  "maximum": 60
                }
              }
            }
          ]
        }
      },
      "waterTemperature": {
        "epc": "0xEA",
        "descriptions": {
          "ja": "洗い温水設定値",
          "en": "Warm water setting"
        },
        "writable": true,
        "observable": false,
        "schema": {
          "oneOf": [
            {
              "type": "number",
              "unit": "Celsius",
              "minimum": 0,
              "maximum": 100
            },
            {
              "type": "string",
              "enum": [
                "noWarmWater",
                "auto"
              ],
              "values": [
                {
                  "value": "noWarmWater",
                  "descriptions": {
                    "ja": "温水不使用",
```


©2018-2022 ECHONET Consortium

```
                "en": "Not to use warm water"
              },
              "edt": "0xFE"
            },
            {
              "value": "auto",
              "descriptions": {
                "ja": "温度自動設定",
                "en": "Automatic water temperature setting"
              },
              "edt": "0xFF"
            }
          ]
        }
      ]
    }
  },
  "bathtubWaterRecycle": {
    "epc": "0xEB",
    "descriptions": {
      "ja": "風呂水設定",
      "en": "Bathtub water recycle setting"
    },
    "writable": true,
    "observable": false,
    "schema": {
      "type": "string",
      "enum": [
        "none",
        "washing",
        "rinsingWithoutFinal",
        "rinsing",
        "washingRinsingWithoutFinal",
        "washingRinsing"
      ],
      "values": [
        {
          "value": "none",
          "descriptions": {
            "ja": "風呂水給水なし",
            "en": "Bathtub water not used"
          },
          "edt": "0x40"
        },
        {
          "value": "washing",
          "descriptions": {
            "ja": "洗いのみ",
            "en": "Washing only"
          },
          "edt": "0x41"
        },
        {
          "value": "rinsingWithoutFinal",
          "descriptions": {
            "ja": "すすぎのみ（除く最終すすぎ)",
            "en": "Rinsing only (excluding the final rinsing)"
          },
          "edt": "0x42"
        },
        {
```


©2018-2022 ECHONET Consortium

```
              "value": "rinsing",
              "descriptions": {
                "ja": "全すすぎ",
                "en": "All rinsing processes"
              },
              "edt": "0x43"
            },
            {
              "value": "washingRinsingWithoutFinal",
              "descriptions": {
                "ja": "洗い+すすぎ (除く最終すすぎ)",
                "en": "Washing + rinsing (excluding the final rinsing)"
              },
              "edt": "0x44"
            },
            {
              "value": "washingRinsing",
              "descriptions": {
                "ja": "洗い＋全すすぎ",
                "en": "Washing + all rinsing processes"
              },
              "edt": "0x45"
            }
          ]
        }
      },
      "wrinklingMinimization": {
        "epc": "0xEC",
        "descriptions": {
          "ja": "ソフトキープ設定",
          "en": "Wrinkling minimization setting"
        },
        "writable": true,
        "observable": false,
        "schema": {
          "type": "string",
          "enum": [
            "enable",
            "disable"
          ],
          "values": [
            {
              "value": "enable",
              "descriptions": {
                "ja": "ソフトキープ入り",
                "en": "Wrinkling minimization function on"
              },
              "edt": "0x41"
            },
            {
              "value": "disable",
              "descriptions": {
                "ja": "ソフトキープ切り",
                "en": "Wrinkling minimization function off"
              },
              "edt": "0x42"
            }
          ]
        }
      },
      "washingDryingTimeRemaining": {
```


©2018-2022 ECHONET Consortium

```
        "epc": "0xED",
        "descriptions": {
          "ja": "洗濯乾燥残り時間",
          "en": "Time remaining to complete washer and dryer cycle"
        },
        "writable": false,
        "observable": false,
        "schema": {
          "oneOf": [
            {
              "type": "number",
              "unit": "minute",
              "minimum": 0,
              "maximum": 15299
            },
            {
              "type": "string",
              "enum": [
                "unknown"
              ],
              "values": [
                {
                  "value": "unknown",
                  "descriptions": {
                    "ja": "残り時間不明",
                    "en": "Remaining time unknown"
                  },
                  "edt": "0xFF"
                }
              ]
            }
          ]
        }
      },
      "doorLockStatus": {
        "epc": "0xEE",
        "descriptions": {
          "ja": "運転中扉･蓋ロック設定",
          "en": "Door/cover lock setting"
        },
        "writable": true,
        "observable": false,
        "schema": {
          "type": "boolean",
          "values": [
            {
              "value": true,
              "descriptions": {
                "ja": "ロック",
                "en": "Locked"
              },
              "edt": "0x41"
            },
            {
              "value": false,
              "descriptions": {
                "ja": "アンロック",
                "en": "Unlocked"
              },
              "edt": "0x42"
            }
```


©2018-2022 ECHONET Consortium

```
          ]
        }
      }
    }
  }
```


©2018-2022 ECHONET Consortium

Commercial show case outdoor unit: commercialShowcaseOutdoorUnit: 0x03D4

Back to the List of Devices

Properties

Property Resource Name	Access Method	Data Type	EPC (EL)	Property name (EL)	Note
exceptionalStatus	GET	boolean	0xAA	Indicates that the showcase freezer is in an exceptional status.	
operationMode	GET, PUT	string	0xB0	Operation mode setting	
outdoorAirTemperature	GET	number	0xBE	Used to acquire measurements of outdoor air temperature.	
groupInformation	GET, PUT	number, string	0xCA	Group information	
compressorOperationStatus	GET, PUT	boolean	0xE2	Indicates compressor ON/OFF status.	
groupDeviceList	GET	array	-	List of devices in group	*1

*1 Group information "groupDeviceList" describes the Ids of devices managed by Web API devices and their "deviceType"

Device Description

```
{
  "deviceType": "commercialShowcaseOutdoorUnit",
  "metaData": {
    "version": "1.3.0"
  },
  "eoj": "0x03D4",
  "descriptions": {
    "ja": "業務用ショーケース向け室外機",
    "en": "Commercial show case outdoor unit"
  },
  "properties": {
    "exceptionalStatus": {
      "epc": "0xAA",
      "descriptions": {
        "ja": "特殊状態",
        "en": "Indicates that the showcase freezer is in an exceptional status."
      },
      "writable": false,
      "observable": false,
      "schema": {
        "type": "boolean",
        "values": [
          {
            "value": true,
            "descriptions": {
              "ja": "除霜状態",
              "en": "Defrosting status"
```


©2018-2022 ECHONET Consortium

```
            },
            "edt": "0x41"
          },
          {
            "value": false,
            "descriptions": {
              "ja": "通常状態",
              "en": "Normal status"
            },
            "edt": "0x40"
          }
        ]
      }
    },
    "operationMode": {
      "epc": "0xB0",
      "descriptions": {
        "ja": "運転モード設定",
        "en": "Operation mode setting"
      },
      "writable": true,
      "observable": true,
      "schema": {
        "type": "string",
        "enum": [
          "cooling",
          "nonCooling"
        ],
        "values": [
          {
            "value": "cooling",
            "descriptions": {
              "ja": "冷却",
              "en": "Cooling"
            },
            "edt": "0x41"
          },
          {
            "value": "nonCooling",
            "descriptions": {
              "ja": "非冷",
              "en": "Non-cooling"
            },
            "edt": "0x42"
          }
        ]
      }
    },
    "outdoorAirTemperature": {
      "epc": "0xBE",
      "descriptions": {
        "ja": "外気温度計測値",
        "en": "Used to acquire measurements of outdoor air temperature."
      },
      "writable": false,
      "observable": false,
      "schema": {
        "type": "number",
        "unit": "Celsius",
        "minimum": -127,
        "maximum": 125,
```


©2018-2022 ECHONET Consortium

```
          "multipleOf": 1
        }
      },
      "groupInformation": {
        "epc": "0xCA",
        "descriptions": {
          "ja": "グループ情報",
          "en": "Group information"
        },
        "writable": true,
        "observable": false,
        "schema": {
          "oneOf": [
            {
              "type": "number",
              "minimum": 1,
              "maximum": 253
            },
            {
              "type": "string",
              "enum": [
                "none"
              ],
              "values": [
                {
                  "value": "none",
                  "descriptions": {
                    "ja": "設定なし",
                    "en": "None"
                  },
                  "edt": "0x00"
                }
              ]
            }
          ]
        }
      },
      "compressorOperationStatus": {
        "epc": "0xE2",
        "descriptions": {
          "ja": "コンプレッサ動作状態",
          "en": "Indicates compressor ON/OFF status."
        },
        "writable": true,
        "observable": false,
        "schema": {
          "type": "boolean",
          "values": [
            {
              "value": true,
              "descriptions": {
                "ja": "ON",
                "en": "ON"
              },
              "edt": "0x30"
            },
            {
              "value": false,
              "descriptions": {
                "ja": "OFF",
                "en": "OFF"
```


©2018-2022 ECHONET Consortium

```
              },
              "edt": "0x31"
            }
          ]
        }
      },
      "groupDeviceList": {
        "descriptions": {
          "ja": "グループ内デバイスリスト",
          "en": "List of devices in group"
        },
        "writable": false,
        "observable": false,
        "schema": {
          "type": "array",
          "items": {
            "type": "object",
            "properties": {
              "deviceId": {
                "type": "string"
              },
              "deviceType": {
                "type": "string"
              }
            }
          }
        },
        "note": {
          "ja": "WebAPIの'devices'で管理されている機器のIDおよびその'deviceType'を記述",
          "en": "Describe the ID of the device managed in 'devices' of WebAPI and its
'deviceType'."
        }
      }
    }
  }
```


©2018-2022 ECHONET Consortium

Switch (supporting JEM-A/HA terminals): switch: 0x05FD

Back to the List of Devices

Properties

Property Resource Name	Access Method	Data Type	EPC (EL)	Property name (EL)	Note
connectedDevice	GET, PUT	string	0xE0	Connected device	

Device Description

```
{
  "deviceType": "switch",
  "metaData": {
    "version": "1.4.0"
  },
  "eoj": "0x05FD",
  "descriptions": {
    "ja": "スイッチ (JEM-A/HA端子対応)",
    "en": "Switch (supporting JEM-A/HA terminals)"
  },
  "properties": {
    "connectedDevice": {
      "epc": "0xE0",
      "descriptions": {
        "ja": "接続機器",
        "en": "Connected device"
      },
      "writable": true,
      "observable": false,
      "schema": {
        "type": "string"
      },
      "note": {
        "ja": "アスキーコードで保持 (12byte)",
        "en": "ASCII code (12byte)"
      }
    }
  }
}
```


©2018-2022 ECHONET Consortium

Controller: controller: 0x05FF

Back to the List of Devices

Note to Client:

The controller only supports mandatory properties of "APPENDIX Detailed Requirements for ECHONET Device objects".

Properties

Property Resource Name	Access Method	Data Type	EPC (EL)	Property name (EL)	Note
controllerId	GET	string	0xC0	Controller ID	
numberOfDevices	GET	number	0xC1	Number of devices controlled	
deviceList	GET	array	0xC2	List of device information	*1

*1 Represents values corresponding to EPC=0xC2, C3, C4, C6, and C7 as object arrays.

Device Description

```
{
  "deviceType": "controller",
  "metaData": {
    "version": "1.3.0"
  },
  "eoj": "0x05FF",
  "descriptions": {
    "ja": "コントローラ",
    "en": "Controller"
  },
  "properties": {
    "controllerId": {
      "epc": "0xC0",
      "descriptions": {
        "ja": "コントローラID",
        "en": "Controller ID"
      },
      "writable": false,
      "observable": false,
      "schema": {
        "type": "string"
      }
    },
    "numberOfDevices": {
      "epc": "0xC1",
      "descriptions": {
        "ja": "管理台数",
        "en": "Number of devices controlled"
      },
      "writable": false,
      "observable": false,
      "schema": {
```


©2018-2022 ECHONET Consortium

```
            "type": "number",
            "minimum": 0,
            "maximum": 65533
          }
        },
        "deviceList": {
          "epc": "0xC2",
          "descriptions": {
            "ja": "機器情報リスト",
            "en": "List of device information"
          },
          "writable": false,
          "observable": false,
          "schema": {
            "type": "array",
            "minItems": 0,
            "maxItems": 65533,
            "items": {
              "type": "object",
              "properties": {
                "deviceId": {
                  "type": "string"
                },
                "deviceType": {
                  "type": "string"
                },
                "connection": {
                  "type": "string",
                  "enum": [
                    "connected",
                    "disconnected",
                    "notRegistered",
                    "deleted"
                  ],
                  "values": [
                    {
                      "value": "connected",
                      "descriptions": {
                        "ja": "接続中",
                        "en": "Connected"
                      },
                      "edt": "0x41"
                    },
                    {
                      "value": "disconnected",
                      "descriptions": {
                        "ja": "離脱中",
                        "en": "Disconnected"
                      },
                      "edt": "0x42"
                    },
                    {
                      "value": "notRegistered",
                      "descriptions": {
                        "ja": "未登録",
                        "en": "Not registered"
                      },
                      "edt": "0x43"
                    },
                    {
                      "value": "deleted",
```


©2018-2022 ECHONET Consortium

```
                    "descriptions": {
                      "ja": "削除",
                      "en": "Deleted"
                    },
                    "edt": "0x44"
                  }
                ]
              },
              "manufactureCode": {
                "type": "string"
              }
            }
          }
        },
        "note": {
          "ja": "EPC=0xC2, C3, C4, C6, C7に対応した値をobjectのarrayで表現する",
          "en": "This property deals with info from 0xC2, C3, C4, C6 and 0xC7 altogether."
        }
      }
    }
  }
```


©2018-2022 ECHONET Consortium

Television: tv: 0x0602

Back to the List of Devices

Properties

Property Resource Name	Access Method	Data Type	EPC (EL)	Property name (EL)	Note
displayControlStatus	GET, PUT	string	0xB0	Display control setting	
stringSettingAcceptanceStatus	GET	string	0xB1	Character string setting acceptance status	
supportedCharacterCode	GET	object	0xB2	Supported character codes	
characterStringPresented	GET, PUT	object	0xB3	Character string to present to the user	
lengthOfStringAccepted	GET	object	0xB4	Length of character string accepted	

Device Description


```
{
  "deviceType": "tv",
  "metaData": {
    "version": "1.4.0"
  },
  "eoj": "0x0602",
  "descriptions": {
    "ja": "テレビ",
    "en": "Television"
  },
  "properties": {
    "displayControlStatus": {
      "epc": "0xB0",
      "descriptions": {
        "ja": "表示制御設定",
        "en": "Display control setting"
      },
      "writable": true,
      "observable": false,
      "schema": {
        "type": "string",
        "enum": [
          "enabled",
          "disabled"
        ],
        "values": [
          {
            "value": "enabled",
            "descriptions": {
              "ja": "表示",
              "en": "Displaying enabled"
            },
            "edt": "0x30"
```


©2018-2022 ECHONET Consortium

```
            },
            {
              "value": "disabled",
              "descriptions": {
                "ja": "非表示",
                "en": "Displaying disabled"
              },
              "edt": "0x31"
            }
          ]
        }
      },
      "stringSettingAcceptanceStatus": {
        "epc": "0xB1",
        "descriptions": {
          "ja": "文字列設定受付可能状態",
          "en": "Character string setting acceptance status"
        },
        "writable": false,
        "observable": true,
        "schema": {
          "type": "string",
          "enum": [
            "ready",
            "busy"
          ],
          "values": [
            {
              "value": "ready",
              "descriptions": {
                "ja": "Ready",
                "en": "Ready"
              },
              "edt": "0x30"
            },
            {
              "value": "busy",
              "descriptions": {
                "ja": "Busy",
                "en": "Busy"
              },
              "edt": "0x31"
            }
          ]
        },
        "note": {
          "ja": "快適支援サービスとセキュリティサービスに対応する場合、本プロパティの搭載は必須とする",
          "en": "In the case where a 'home amenity service' or a 'security service' is to be
supported, the implementation of this property is mandatory."
        }
      },
      "supportedCharacterCode": {
        "epc": "0xB2",
        "descriptions": {
          "ja": "表示可能文字コード",
          "en": "Supported character codes"
        },
        "writable": false,
        "observable": false,
        "schema": {
          "type": "object",
```


©2018-2022 ECHONET Consortium

```
            "properties": {
              "ansiX34Equipped": {
                "type": "boolean",
                "values": [
                  {
                    "value": false,
                    "descriptions": {
                      "ja": "非搭載",
                      "en": "Not implemented"
                    },
                    "edt": "0x00"
                  },
                  {
                    "value": true,
                    "descriptions": {
                      "ja": "搭載",
                      "en": "Implemented"
                    },
                    "edt": "0x01"
                  }
                ]
              },
              "shiftJisEquipped": {
                "type": "boolean",
                "values": [
                  {
                    "value": false,
                    "descriptions": {
                      "ja": "非搭載",
                      "en": "Not implemented"
                    },
                    "edt": "0x00"
                  },
                  {
                    "value": true,
                    "descriptions": {
                      "ja": "搭載",
                      "en": "Implemented"
                    },
                    "edt": "0x01"
                  }
                ]
              },
              "jisEquipped": {
                "type": "boolean",
                "values": [
                  {
                    "value": false,
                    "descriptions": {
                      "ja": "非搭載",
                      "en": "Not implemented"
                    },
                    "edt": "0x00"
                  },
                  {
                    "value": true,
                    "descriptions": {
                      "ja": "搭載",
                      "en": "Implemented"
                    },
                    "edt": "0x01"
```


©2018-2022 ECHONET Consortium

```
                }
              ]
            },
            "japaneseEucEquipped": {
              "type": "boolean",
              "values": [
                {
                  "value": false,
                  "descriptions": {
                    "ja": "非搭載",
                    "en": "Not implemented"
                  },
                  "edt": "0x00"
                },
                {
                  "value": true,
                  "descriptions": {
                    "ja": "搭載",
                    "en": "Implemented"
                  },
                  "edt": "0x01"
                }
              ]
            },
            "ucs4Equipped": {
              "type": "boolean",
              "values": [
                {
                  "value": false,
                  "descriptions": {
                    "ja": "非搭載",
                    "en": "Not implemented"
                  },
                  "edt": "0x00"
                },
                {
                  "value": true,
                  "descriptions": {
                    "ja": "搭載",
                    "en": "Implemented"
                  },
                  "edt": "0x01"
                }
              ]
            },
            "ucs2Equipped": {
              "type": "boolean",
              "values": [
                {
                  "value": false,
                  "descriptions": {
                    "ja": "非搭載",
                    "en": "Not implemented"
                  },
                  "edt": "0x00"
                },
                {
                  "value": true,
                  "descriptions": {
                    "ja": "搭載",
                    "en": "Implemented"
```


©2018-2022 ECHONET Consortium

```
                },
                "edt": "0x01"
              }
            ]
          },
          "latin1Equipped": {
            "type": "boolean",
            "values": [
              {
                "value": false,
                "descriptions": {
                  "ja": "非搭載",
                  "en": "Not implemented"
                },
                "edt": "0x00"
              },
              {
                "value": true,
                "descriptions": {
                  "ja": "搭載",
                  "en": "Implemented"
                },
                "edt": "0x01"
              }
            ]
          },
          "utf8Equipped": {
            "type": "boolean",
            "values": [
              {
                "value": false,
                "descriptions": {
                  "ja": "非搭載",
                  "en": "Not implemented"
                },
                "edt": "0x00"
              },
              {
                "value": true,
                "descriptions": {
                  "ja": "搭載",
                  "en": "Implemented"
                },
                "edt": "0x01"
              }
            ]
          }
        }
      },
      "note": {
        "ja": "快適支援サービスとセキュリティサービスに対応する場合、本プロパティの搭載は必須とする",
        "en": "In the case where a 'home amenity service' or a 'security service' is to be
supported, the implementation of this property is mandatory."
      }
    },
    "characterStringPresented": {
      "epc": "0xB3",
      "descriptions": {
        "ja": "伝達文字列設定",
        "en": "Character string to present to the user"
      },
```


©2018-2022 ECHONET Consortium

```
        "writable": true,
        "observable": false,
        "schema": {
          "type": "object",
          "properties": {
            "length": {
              "descriptions": {
                "ja": "伝達文字バイトコード列データ長の16 進換算値",
                "en": "Byte code sequence data length of the character string to present to the
user converted to the hexadecimal format"
              },
              "type": "number",
              "minimum": 0,
              "maximum": 244
            },
            "characterCode": {
              "descriptions": {
                "ja": "使用文字コード",
                "en": "Character code to use"
              },
              "type": "string",
              "enum": [
                "ansi_x3_4",
                "shift_jis",
                "jis",
                "japanese_euc",
                "ucs_4",
                "ucs_2",
                "latin_1",
                "utf_8"
              ],
              "values": [
                {
                  "value": "ansi_x3_4",
                  "descriptions": {
                    "ja": "ANSI X3.4",
                    "en": "ANSI X3.4"
                  },
                  "edt": "0x01"
                },
                {
                  "value": "shift_jis",
                  "descriptions": {
                    "ja": "Shift-JIS",
                    "en": "Shift-JIS"
                  },
                  "edt": "0x02"
                },
                {
                  "value": "jis",
                  "descriptions": {
                    "ja": "JIS",
                    "en": "JIS"
                  },
                  "edt": "0x03"
                },
                {
                  "value": "japanese_euc",
                  "descriptions": {
                    "ja": "日本語EUC",
                    "en": "Japanese EUC"
```


©2018-2022 ECHONET Consortium

```
                  },
                  "edt": "0x04"
                },
                {
                  "value": "ucs_4",
                  "descriptions": {
                    "ja": "UCS-4",
                    "en": "UCS-4"
                  },
                  "edt": "0x05"
                },
                {
                  "value": "ucs_2",
                  "descriptions": {
                    "ja": "UCS-2",
                    "en": "UCS-2"
                  },
                  "edt": "0x06"
                },
                {
                  "value": "latin_1",
                  "descriptions": {
                    "ja": "Latin-1",
                    "en": "Latin-1"
                  },
                  "edt": "0x07"
                },
                {
                  "value": "utf_8",
                  "descriptions": {
                    "ja": "UTF-8",
                    "en": "UTF-8"
                  },
                  "edt": "0x08"
                }
              ]
            },
            "characterString": {
              "descriptions": {
                "ja": "Max244Byte 分の伝達文字列バイトコード列",
                "en": "Byte code sequence of the character string to present to the user
(max.244 bytes)"
              },
              "type": "string"
            }
          }
        }
      },
      "lengthOfStringAccepted": {
        "epc": "0xB4",
        "descriptions": {
          "ja": "受付け伝達文字列長",
          "en": "Length of character string accepted"
        },
        "writable": false,
        "observable": false,
        "schema": {
          "type": "object",
          "properties": {
            "length": {
              "descriptions": {
```


©2018-2022 ECHONET Consortium

```
                "ja": "文字列の総バイト数",
                "en": "data size of the string"
              },
              "type": "number",
              "minimum": 0,
              "maximum": 244
            }
          }
        },
        "note": {
          "ja": "快適支援サービスとセキュリティサービスに対応する場合、本プロパティの搭載は必須とする",
          "en": "In the case where a 'home amenity service' or a 'security service' is to be
supported, the implementation of this property is mandatory."
        }
      }
    }
  }
```


©2018-2022 ECHONET Consortium