

ECHONET Lite Web API ガイドライン  
機器仕様部  
Version 1.3.0

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改定履歴

| 日付         | 版                   | 説明   |
|------------|---------------------|--|
| 2018/10/03 | Ver. 1.00           | 制定、一般公開  |
| 2019/8/21  | Ver. 1.1.0<br>draft | WG検討用  |
|            |                     | 本文フォント：MSゴシックへ変更   |
|            |                     | 表紙、目次、全体：空行指定方法変更、ヘッダライン追加などスタイル関連変更   |
|            |                     | 4.3の各項目：Propertiesなど、レベル下げ   |
|            |                     | 4.4：5章へ変更  |
|            |                     | 目次、1章、5章、機器毎：改ページ挿入  |
|            |                     | Common Items：誤記修正  |
|            |                     | 機器仕様：ECHONET Specification APPENDIX: ECHONET 機器オブジェクト詳細規定<br>Release K に対応   |
|            |                     | 家庭用エアコン、電気自動車充放電器、低圧スマート電力量メータ、電気自動車充電器、<br>拡張照明システム、コントローラ：修正   |
|            |                     | 電気温水器、住宅用太陽光発電：追記・修正   |
|            |                     | 換気扇、空気清浄器、業務用パッケージエアコン室内機、業務用パッケージエアコン室外<br>機、電動雨戸・シャッター、電気錠、浴室暖房乾燥機、床暖房、単機能照明、冷凍冷蔵<br>庫、クッキングヒータ、炊飯器、業務用ショーケース、業務用ショーケース向け室外機、<br>スイッチ：新規追加 |
|            |                     | List of Devices: last updated、Noteの列追加   |
|            |                     | 機器のDevice Description詳細全般：AIFプロパティの説明削除  |
|            |                     | バージョン番号：Ver. 1.1.0へ変更  |
|            |                     | 本書名称：「Appendix」を「ガイドライン（機器仕様部）」へ変更   |
| 2019/11/05 | Ver. 1.1.0          | 制定、一般公開  |
| 2020/02/14 | Ver. 1.1.1<br>draft | WG検討用  |
|            |                     | 電気温水器：surplusPowerPredictionの“note”位置修正  |
|            |                     | 冷蔵庫：maximumAllowableTemperatureLevelの“note”位置修正  |
|            |                     | 電動雨戸・シャッター：oneTimeClosingSpeedのEPCを“0xEE”から“0xEF”へ修正   |
|            |                     | 浴室暖房乾燥機：表にて、coolAirCircuration を coolAirCirculationへ修正   |
|            |                     | 住宅用太陽光発電：idNumberを削除   |
|            |                     | 高圧スマート電力量メータ：notesのja, en内容を一部修正   |
|            |                     | 5章 List of devicesのnote更新  |

| 日付         | 版                   | 説明  |
|------------|---------------------|---|
|            |                     | 3章 null型を追加   |
| 2020/03/27 | Ver. 1.1.1          | 制定、一般公開   |
| 2020/07/29 | Ver. 1.2.0<br>draft | WG検討用   |
|            |                     | Appendix Release M に対応  |
|            |                     | ハイブリッド給湯機、洗濯乾燥機：新規追加  |
|            |                     | 電気温水器：waterHeatingShiftTime1、waterHeatingShiftTime2修正   |
|            |                     | 瞬間式給湯器：targetSuppliedWaterTemperature、targetBathWaterTemperature追加  |
|            |                     | 浴室暖房乾燥機：operationSetting、onTimerReservation2修正  |
|            |                     | 住宅用太陽光発電：instantaneousElectricPowerGenerationの誤記訂正  |
|            |                     | 床暖房：maximumTargetTemperature2の追加  |
|            |                     | 蓄電池：chargingMethod、dischargingMethodならび関連プロパティ4種追加  |
|            |                     | 電気自動車充電器・充放電器：補足追記  |
|            |                     | 低圧スマート電力量メータ、高圧スマート電力量メータ：maximum、multipleOfについての説明追加   |
|            |                     | コントローラ：deviceListにおけるEPC(EL)部の誤記訂正（C5を削除）   |
|            |                     | Common Items：manufacturerにおけるdescriptions部の誤記訂正   |
|            |                     | 洗濯乾燥機：oneOf表記の統一  |
|            |                     | 全JSON部の整形   |
| 2020/09/25 | Ver. 1.2.0          | 制定、一般公開   |
| 2021/03/12 | Ver. 1.3.0<br>draft | WG検討用   |
|            |                     | （既製品登録のある機器に対象拡大）   |
|            |                     | 温度センサ、電力量センサ、電流値センサ、冷温水熱源機、電力量メータ、分電盤メータリング、空調換気扇、テレビ：新規追加  |
|            |                     | 全機器：オプションプロパティ含む全プロパティを考慮しプロパティ・リソースを定義（但しWeb API化により不要なものは除く）  |
|            |                     | 電動雨戸・シャッター、住宅用太陽光発電、業務用ショーケース、業務用ショーケース向け室外機、クッキングヒータ、床暖房、電気自動車充電器・充放電器、蓄電池、低圧スマート電力量メータ、高圧スマート電力量メータ、空気清浄器、業務用パッケージエアコン室外機、冷凍冷蔵庫、換気扇、電気温水器、拡張照明システム、ハイブリッド給湯機：プロパティ・リソース名/EDT値を一部追記・変更 |
|            |                     | 業務用パッケージエアコン室内機、家庭用エアコン、燃料電池、一般照明、瞬間式給湯器：プロパティ・リソース名/EDT値を一部追加  |
|            |                     | 全機器：properteis, actions内各リソースを（基本的に）EPC順にソーティング   |

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|------------|------------|--|
|            |            | 3.2 timeの表記例をRFC3339準拠の形式へ修正   |
|            |            | 3.3 multipleOf省略時に単位を1とする旨削除   |
|            |            | 低圧スマート電力量メータ、高圧スマート電力量メータ、分電盤メータリング：<br>querySchemaをurlParametersへ変更 |
| 2021/06/25 | Ver. 1.3.0 | 制定、一般公開  |

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  - 電動雨戸・シャッター:electricRainDoor:0x0263
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  - 浴室暖房乾燥機:bathroomHeaterDryer:0x0273
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## 1. 本書の概要

このドキュメントはECHONET Lite Web APIガイドライン（API仕様部）に基づき、各機器のDevice Descriptionを記述する。Device Descriptionは主にpropertyの記述で構成されている。各propertyが扱うデータの記述にはデータの値に関するものとデータの値の説明に関するものがある。JSON Schemaを利用して前者を記述する。後者はJSON Schemaにkeywordを追加してJSON Schemaのframework内に記述する。

## 2. 本書の構成

各propertyが扱うデータ型に関する定義を第3章に、Device Descriptionの記述に関わる方針や全機器で共通となるproperty定義を第4章に、各機器オブジェクトに関するDevice Description例を第5章に記述する。

## 3. Data Types

JSON Schemaに準拠し、必要に応じてkeywordを追加する。

### 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        |

上記の表の“extention”欄はextention keywordであるか否かを示す。

Example of Schema

```
{
  "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>  
    },  
    ...  
  ]  
}
```

stringが特定の値を意味する場合は keyword "format" で指定する。指定する値は"date-time", "date", "time"である。



取りうる値を列挙する場合は keyword “enum” を使う。  
enumの値を説明するkeyword “values” はbooleanで定義されたものと同じである。

| 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"
      }
    },
    {
      "value": "night",
      "descriptions": {
        "ja": "常夜灯",
        "en": "Night Lighting"
      }
    },
    {
      "value": "color",
      "descriptions": {
```

```

    "ja": "カラー灯",
    "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>
}

```

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

| Keyword    | Type   | Required | Extention | Description              |
|------------|--------|----------|-----------|--------------------------|
| maximum    | number | no       | no        | maximum value            |
| multipleOf | number | no       | no        | minimum step of the data |

Example of Schema

```
{
  "type": "number",
  "unit": "kWh",
  "minimum": 0,
  "maximum": 9999
}
```

Example of body data

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

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

### 3.4 null

Format

```
{
  "type": "null",
  "edt": <edt value>
}
```

| Keyword | Type   | Required | Extention | Description      |
|---------|--------|----------|-----------|------------------|
| edt     | string | no       | yes       | EDT value in HEX |

Example of Schema

```
{
  "type": "null",
  "edt": "0xFFFF"
}
```

### Example of body data

```
{
  "noSetting": null
}
```

## 3.5 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 |
| 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,
    ...
  ]
}
```

### 3.6 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)

```
{  
  "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": 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"  
      }  
    }  
  }  
}
```

Example of body data

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

### 3.7 Mixed type: oneOf

複数のData type objectからひとつを選ぶことができる場合

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"  
        }  
      ]  
    }  
  ]  
}
```

#### Example of body data

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

もしくは

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

## 4. Device Description

### 4.1 ネーミング指針

ECHONET Lite における機器オブジェクトのプロパティ名は機器固有の機能を表している。プロパティ名はそのままでは Web API のインタフェース名称として利用しづらいものも存在する。また、Web サービス・アプリ開発者であっても容易に利用できるように、ECHONET プロパティコード (EPC) の値 (例: 0x80) ではなく、operationStatus のような文字列を利用することが望ましい。

このようなプロパティを指定する文字列をここではプロパティ・リソース名と呼ぶ。プロパティ・リソース名は Web API の URI の一部となるため、わかりやすく簡潔な文字列であることが求められる。以下に、プロパティ・リソース名のネーミング指針について記述する。

1. ECHONET Lite のプロパティ名の英語名を lowerCamelCase としたものを出発点とする
2. method (GET, PUT) に続く名詞であることを意識する
3. 冗長さを省くために情報量の少ない単語を省略する  
例: measured, amount, value, setting
4. 意味を誤解される可能性がある場合は、必要に応じて修正する
5. 機器オブジェクト間で一貫性をもたせる
6. data type が boolean の場合、true に対応する status をプロパティ・リソース名とする
7. 設定値と測定値が別の EPC で定義されている場合、設定値を targetXXX とする  
例: エアコン

EPC=0xB3: 温度設定値, "Set temperature value" → targetTemperature  
EPC=0xBB: 室内温度計測値, "Measured value of room temperature" → roomTemperature  
(ちなみに、"Set temperature value" は「温度を設定する」というメソッドに誤解されかねない)

## 4.2 搭載プロパティ方針

Device Description にて提供される内容は、対象となる機器のプロパティマップに基づき用意されることを推奨とする。プロパティマップの取得手段は、事前に該当機器の仕様書を入手したり、実機器に搭載されるプロパティマップを ECHONET Lite コマンドを使用してコントローラ経由でサーバが入手するなどを想定する。入手したプロパティマップにて提供されるサービス (多くはプロパティコード EPC に対応) については、各機器に関する後述の Device Description 定義から該当するプロパティ・リソース名 (properties.name) が存在する場合には、これに従い提供可能とする。もしも該当するプロパティ・リソース名が存在しない場合は、同サービスを提供しない、もしくは、必要に応じて独自に定義した上で提供可能とする。独自に定義する名称は、ベンダ固有のサービス名称であることを判別できるように、サービス名の先頭に識別子となる接頭語 (prefix) を付加すること。独自に定義する別の手段として、「POST /<deviceId>/echoCommands」を用いることも可能とする (ガイドライン本文 5.5 参照)。

なお、機器のプロパティマップが入手できない場合は、後述の Device Description 定義をそのまま使用しても良い。サービサーのリクエストにて実機器が搭載しないサービスが呼び出された場合には、適切にエラーを応答するものとする。

| 機器PMでのサービス |   | 本書DDの定義 |   | 実際のDD提供     |
|------------|---|---------|---|-------------|
| 有          | x | 有       | = | DD定義に従う     |
| 有          | x | 無       | = | 無 or 独自定義可能 |
| 無          | x | 有/無     | = | 無           |

PM: プロパティマップ、DD: Device Description



各サービスにて扱う値域は、事前に実対象機器が搭載する値域（値の範囲や列挙値）を入手できる場合は、これを反映した上でDevice Descriptionのminimum, maximum, multipleOf, values, from, toなどの値へ反映可能とする。値域が不明な場合は、後述のDevice Descriptionの定義内容のまま使用し、実機器からの応答によって適切にリクエストにตอบสนองするものとする。

### 4.3 共通項目

全ての機器で共通なpropertyを記述する。operationStatus, faultStatusについては必須とする。共通項目で記述された内容を各デバイスでオーバーロードする場合は、その内容を各デバイス側で記述する。

#### Properties

| Property Resource Name                | Access Method | Data Type | EPC (EL) | プロパティ名称 (EL)  | Note |
|---------------------------------------|---------------|-----------|----------|---|------|
| operationStatus                       | GET, PUT      | boolean   | 0x80     | 動作状態<br>Operation status                              |      |
| installationLocation                  | GET, PUT      | string    | 0x81     | 設置場所<br>Installation location                         |      |
| protocol                              | GET           | object    | 0x82     | Protocol version情報<br>Protocol version information    |      |
| id                                    | GET           | string    | 0x83     | 識別番号<br>Identification number                         |      |
| instantaneousElectricPowerConsumption | GET           | number    | 0x84     | 瞬時消費電力計測値<br>Measured instantaneous power consumption |      |
| consumedCumulativeElectricEnergy      | GET           | number    | 0x85     | 積算消費電力計測値<br>Measured cumulative power consumption    |      |
| manufacturerFaultCode                 | GET           | string    | 0x86     | メーカー異常コード<br>Manufacturer's fault code                |      |
| currentLimit                          | GET, PUT      | number    | 0x87     | 電流制限設定<br>Current limit setting                       |      |
| faultStatus                           | GET           | boolean   | 0x88     | 異常発生状態<br>Fault status                                |      |
| faultDescription                      | GET           | string    | 0x89     | 異常内容<br>Fault description                             |      |
| manufacturer                          | GET           | object    | 0x8A     | メーカー<br>Manufacturer                                  |      |

| Property Resource Name | Access Method | Data Type | EPC (EL)                 | プロパティ名称 (EL)                             | Note |
|------------------------|---------------|-----------|--------------------------|--|------|
| businessFacilityCode   | GET           | string    | 0x8B                     | 事業場コード<br>Business facility code         |      |
| productCode            | GET           | string    | 0x8C                     | 商品コード<br>Product code                    |      |
| serialNumber           | GET           | string    | 0x8D                     | 製造番号<br>Serial number                    |      |
| productionDate         | GET           | string    | 0x8E                     | 製造年月日<br>Production date                 |      |
| powerSaving            | GET, PUT      | boolean   | 0x8F                     | 節電動作設定<br>Power-saving operation setting | *1   |
| currentDateAndTime     | GET, PUT      | string    | 0x98 (0x97との組だが、0x97は省略) | 現在日時<br>Current date and time            |      |
| powerLimit             | GET, PUT      | number    | 0x99                     | 電力制限設定<br>Power limit setting            |      |
| hourMeter              | GET           | object    | 0x9A                     | 積算運転時間<br>Cumulative operating time      |      |

\*1 エアコンでは必須

#### Installation locationの値について

設置場所はECHONET Liteでは必須プロパティであるが、本ガイドラインではオプション扱いとする。機器設置後に適切に値を設定されないケースやクラウド上で任意の設置場所名の指定を許可するケースに対応するため、任意の文字列 (string型) とする。

設置場所コードを使用する場合は、下記を参考にしても良い。また場所番号の使用は任意とするが、場所番号が0の場合は"livingRoom"または"livingRoom0"、1-7の場合は"livingRoom1"のように、場所番号を付与する (または省略する) 形式が考えられる。下記例では、英訳版「APPENDIX Detailed Requirements for ECHONET Device objects」より、Installation location typeから、冒頭は小文字、空白は省略して連結、「/」は「\_」に置き換えるというルールのもと、Installation location valueを生成している。

ECHONET Liteでは、設置場所を指定した機器の一括操作などが可能であるが、本ガイドラインでは対象外とする。

| Installation location value | Installation location type | 設置場所の種類 (EL) |
|-----------------------------|----------------------------|--------------|
| livingRoom                  | Living room                | 居間、リビング      |
| diningRoom                  | Dining room                | 食堂、ダイニング     |
| kitchen                     | Kitchen                    | 台所、キッチン      |

| Installation location value | Installation location type | 設置場所の種類 (EL) |
|-----------------------------|----------------------------|--------------|
| bathroom                    | Bathroom                   | 浴室、バス        |
| lavatory                    | Lavatory                   | トイレ          |
| washroom_changingRoom       | Washroom/changing room     | 洗面所、脱衣所      |
| passageway                  | Passageway                 | 廊下           |
| room                        | Room                       | 部屋           |
| stairway                    | Stairway                   | 階段           |
| frontDoor                   | Front door                 | 玄関           |
| storeroom                   | Storeroom                  | 納戸           |
| garden_perimeter            | Garden/perimeter           | 庭、外周         |
| garage                      | Garage                     | 車庫           |
| veranda_balcony             | Veranda/balcony            | ベランダ、バルコニー   |
| notSpecified                | not specified              | 設置場所未設定      |
| indefinite                  | indefinite                 | 設置場所未定       |

#### Device Description (Common Items)

```
{
  "deviceType": "common",
  "eoj": "0x00",
  "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"
      }
    ]
  },
  "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"
        }
      }
    }
  },
  "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",
      "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": "メーカー異常コード",
      "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,
            "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",
    "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 Opration"
          },
          "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"
    }
  },
  "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"
          },
          "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"
          }
        ]
      }
    }
  }
}

```



| 機器名              | Device Type                       | E0J    | last updated | Note |
|------------------|-----------------------------------|--------|--------------|------|
| 電気温水器            | electricWaterHeater               | 0x026B | V1.3.0       |      |
| 電気錠              | electricLock                      | 0x026F | V1.3.0       |      |
| 瞬間式給湯器           | instantaneousWaterHeater          | 0x0272 | V1.3.0       |      |
| 浴室暖房乾燥機          | bathroomHeaterDryer               | 0x0273 | V1.3.0       |      |
| 住宅用太陽光発電         | pvPowerGeneration                 | 0x0279 | V1.3.0       |      |
| 冷温水熱源機           | coldOrHotWaterHeatSourceEquipment | 0x027A | V1.3.0       | *1   |
| 床暖房              | floorHeater                       | 0x027B | V1.3.0       |      |
| 燃料電池             | fuelCell                          | 0x027C | V1.0.0       |      |
| 蓄電池              | storageBattery                    | 0x027D | V1.3.0       |      |
| 電気自動車充放電器        | evChargerDischarger               | 0x027E | V1.3.0       |      |
| 電力量メータ           | wattHourMeter                     | 0x0280 | v1.3.0       | *1   |
| 分電盤メータリング        | powerDistributionBoardMetering    | 0x0287 | V1.3.0       | *1   |
| 低圧スマート<br>電力量メータ | lvSmartElectricEnergyMeter        | 0x0288 | V1.3.0       |      |
| 高圧スマート<br>電力量メータ | hvSmartElectricEnergyMeter        | 0x028A | V1.3.0       |      |
| 一般照明             | generalLighting                   | 0x0290 | V1.3.0       |      |
| 単機能照明            | monoFunctionalLighting            | 0x0291 | V1.3.0       |      |
| 電気自動車充電器         | evCharger                         | 0x02A1 | V1.3.0       |      |
| 拡張照明システム         | enhancedLightingSystem            | 0x02A4 | V1.3.0       |      |
| ハイブリッド給湯機        | hybridWaterHeater                 | 0x02A6 | V1.3.0       |      |
| 冷凍冷蔵庫            | refrigerator                      | 0x03B7 | V1.3.0       |      |
| クッキングヒータ         | cookingHeater                     | 0x03B9 | V1.3.0       |      |
| 炊飯器              | riceCooker                        | 0x03BB | V1.3.0       |      |
| 業務用ショーケース        | commercialShowcase                | 0x03CE | V1.3.0       |      |
| 洗濯乾燥機            | washerDryer                       | 0x03D3 | V1.3.0       |      |
| 業務用ショーケース向け室外機   | commercialShowcaseOutdoorUnit     | 0x03D4 | V1.3.0       |      |
| スイッチ             | switch                            | 0x05FD | V1.3.0       |      |
| コントローラ           | controller                        | 0x05FF | V1.3.0       |      |
| テレビ              | tv                                | 0x0602 | V1.3.0       | *1   |

\*1 本バージョンにて追加

以降、各機器の詳細について記載する。なお、掲載は、前バージョン（新バージョンでの改定含む）、新バージョン（新規追加分）の順に記載する。

家庭用エアコン:homeAirConditioner:0x0130

Properties

| Property Resource Name           | Access Method | Data Type      | EPC (EL) | プロパティ名称 (EL)  | Note |
|----------------------------------|---------------|----------------|----------|---|------|
| onTimerReservation               | GET, PUT      | object         | 0x90     | ONタイマ予約設定<br>ON timer-based reservation setting           |      |
| timeOfOnTimer                    | GET, PUT      | string         | 0x91     | ONタイマ時刻設定値<br>ON timer setting (time)                     |      |
| relativeTimeOfOnTimer            | GET, PUT      | number         | 0x92     | ONタイマ相対時間設定値<br>ON timer setting (relative time)          |      |
| offTimerReservation              | GET, PUT      | object         | 0x94     | OFFタイマ予約設定<br>OFF timer-based reservation setting         |      |
| timeOfOffTimer                   | GET, PUT      | string         | 0x95     | OFFタイマ時刻設定値<br>OFF timer setting (time)                   |      |
| relativeTimeOfOffTimer           | GET, PUT      | number         | 0x96     | OFFタイマ相対時間設定値<br>OFF timer setting (relative time)        |      |
| airFlowLevel                     | GET, PUT      | number, string | 0xA0     | 風量設定<br>Air flow rate setting                             |      |
| automaticControlAirFlowDirection | GET, PUT      | string         | 0xA1     | 風向自動設定<br>Automatic control of air flow direction setting |      |
| automaticSwingAirFlow            | GET, PUT      | string         | 0xA3     | 風向スイング設定<br>Automatic swing of air flow setting           |      |
| airFlowDirectionVertical         | GET, PUT      | string         | 0xA4     | 風向上下設定<br>Air flow direction (vertical) setting           |      |
| airFlowDirectionHorizontal       | GET, PUT      | string         | 0xA5     | 風向左右設定<br>Air flow direction (horizontal) setting         |      |
| specialState                     | GET           | string         | 0xAA     | 特殊状態<br>Special state                                     |      |
| nonPriorityState                 | GET           | boolean        | 0xAB     | 非優先状態<br>Non-priority state                               |      |
| operationMode                    | GET, PUT      | string         | 0xB0     | 運転モード設定<br>Operation mode setting                         |      |

| Property Resource Name         | Access Method | Data Type      | EPC (EL) | プロパティ名称 (EL)  | Note |
|--------------------------------|---------------|----------------|----------|---|------|
| automaticTemperatureControl    | GET, PUT      | boolean        | 0xB1     | 温度自動設定<br>Automatic temperature control setting                       |      |
| highspeedOperation             | GET, PUT      | string         | 0xB2     | 急速動作モード設定<br>Normal/highspeed/silent operation setting                |      |
| targetTemperature              | GET, PUT      | number, string | 0xB3     | 温度設定値<br>Set temperature value  |      |
| relativeHumidityDehumidifying  | GET, PUT      | number         | 0xB4     | 除湿モード時相対湿度設定値<br>Set value of relative humidity in dehumidifying mode |      |
| targetTemperatureCooling       | GET, PUT      | number, string | 0xB5     | 冷房モード時温度設定値<br>Set temperature value in cooling mode                  |      |
| targetTemperatureHeating       | GET, PUT      | number, string | 0xB6     | 暖房モード時温度設定値<br>Set temperature value in heating mode                  |      |
| targetTemperatureDehumidifying | GET, PUT      | number, string | 0xB7     | 除湿モード時温度設定値<br>Set temperature value in dehumidifying mode            |      |
| ratedPowerConsumption          | GET           | object         | 0xB8     | 定格消費電力値<br>Rated power consumption                                    |      |
| currentConsumption             | GET           | number         | 0xB9     | 消費電流計測値<br>Measured value of current consumption                      |      |
| humidity                       | GET           | number, string | 0xBA     | 室内相対湿度計測値<br>Measured value of room relative humidity                 |      |
| roomTemperature                | GET           | number, string | 0xBB     | 室内温度計測値<br>Measured value of room temperature                         |      |
| temperatureUserRemoteControl   | GET           | number         | 0xBC     | ユーザリモコン温度設定値<br>Set temperature value of user remote control          |      |
| airFlowTemperature             | GET           | number, string | 0xBD     | 吹き出し温度計測値<br>Measured cooled air temperature                          |      |

| Property Resource Name    | Access Method | Data Type      | EPC (EL) | プロパティ名称 (EL)                                       | Note |
|---------------------------|---------------|----------------|----------|--|------|
| outdoorTemperature        | GET           | number, string | 0xBE     | 外気温度計測値<br>Measured outdoor air temperature        |      |
| relativeTemperature       | GET, PUT      | number, string | 0xBF     | 相対温度設定値<br>Relative temperature setting            |      |
| ventilationFunction       | GET, PUT      | string         | 0xC0     | 換気モード設定<br>Ventilation function setting            |      |
| humidifierFunction        | GET, PUT      | string         | 0xC1     | 加湿モード設定<br>Humidifier function setting             |      |
| ventilationAirFlowLevel   | GET, PUT      | number, string | 0xC2     | 換気風量設定<br>Ventilation air flow rate setting        |      |
| humidificationLevel       | GET, PUT      | number, string | 0xC4     | 加湿量設定<br>Degree of humidification setting          |      |
| airCleaningMethod         | GET           | object         | 0xC6     | 搭載空気清浄方法<br>Mounted air cleaning method            |      |
| airPurifierFunction       | GET, PUT      | object         | 0xC7     | 空気清浄機能モード設定<br>Air purifier function setting       |      |
| airRefreshMethod          | GET           | object         | 0xC8     | 搭載リフレッシュ方法<br>Mounted air refresh method           |      |
| airRefresherFunction      | GET, PUT      | object         | 0xC9     | リフレッシュ機能モード設定<br>Air refresher function setting    |      |
| selfCleaningMethod        | GET           | object         | 0xCA     | 搭載自己洗浄方法<br>Mounted self-cleaning method           |      |
| selfCleaningFunction      | GET, PUT      | object         | 0xCB     | 自己洗浄機能モード設定<br>Self-cleaning function setting      |      |
| specialFunction           | GET, PUT      | string         | 0xCC     | 特別運転モード設定<br>Special function setting              |      |
| componentsOperationStatus | GET           | object         | 0xCD     | 内部動作状態<br>Operation status of components           |      |
| thermostatOverride        | GET, PUT      | string         | 0xCE     | 強制サーモモード設定<br>Thermostat setting override function |      |
| airPurification           | GET, PUT      | string         | 0xCF     | 空気清浄モード設定<br>Air purification mode setting         |      |

## Actions

| Property   | Resource Name | Access Method | EPC(EL) | プロパティ名称(EL)   | Note |
|------------|---------------|---------------|---------|---------------|------|
| beepBuzzer |               | POST          | 0xD0    | ブザー<br>Buzzer |      |

## Device Description

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  "deviceType": "homeAirConditioner",
  "eoj": "0x0130",
  "descriptions": {
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    "en": "Home air conditioner"
  },
  "properties": {
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      "epc": "0x90",
      "descriptions": {
        "ja": "ONタイマ予約設定",
        "en": "ON timer-based reservation setting"
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      "writable": true,
      "observable": false,
      "schema": {
        "type": "object",
        "properties": {
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            "type": "boolean"
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          "relatimeTimeBased": {
            "type": "boolean"
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        }
      }
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    "timeOfOnTimer": {
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      "descriptions": {
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        "en": "ON timer setting (time)"
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        "en": "Number of seconds is ignored."
      }
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    "relativeTimeOfOnTimer": {
      "epc": "0x92",
      "descriptions": {
```



```

        "ja": "ONタイマ相対時間設定値",
        "en": "ON timer setting (relative time)"
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        "unit": "minute",
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"offTimerReservation": {
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    "descriptions": {
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        "en": "OFF timer-based reservation setting"
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    "writable": true,
    "observable": false,
    "schema": {
        "type": "object",
        "properties": {
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            },
            "relatimeTimeBased": {
                "type": "boolean"
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"timeOfOffTimer": {
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        "en": "Number of seconds is ignored."
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"relativeTimeOfOffTimer": {
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    "descriptions": {
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      "en": "Air flow rate setting"
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    "writable": true,
    "observable": true,
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          "minimum": 1,
          "maximum": 8,
          "multipleOf": 1
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        {
          "type": "string",
          "enum": [
            "auto"
          ],
          "values": [
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              "value": "auto",
              "descriptions": {
                "ja": "風量自動設定",
                "en": "Automatic air flow rate control function used."
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              "edt": "0x41"
            }
          ]
        }
      ]
    }
  }
],
"automaticControlAirFlowDirection": {
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  "descriptions": {
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    "en": "Automatic control of air flow direction setting"
  },
  "writable": true,
  "observable": false,
  "schema": {
    "type": "string",
    "enum": [

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        "auto",
        "nonAuto",
        "autoVertical",
        "autoHorizontal"
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    "values": [
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                "en": "Automatic"
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            "edt": "0x41"
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            "value": "nonAuto",
            "descriptions": {
                "ja": "非AUTO",
                "en": "Non-automatic"
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            "edt": "0x42"
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            "value": "autoVertical",
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                "en": "Automatic (vertical)"
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            "edt": "0x43"
        },
        {
            "value": "autoHorizontal",
            "descriptions": {
                "ja": "左右AUTO",
                "en": "Automatic (horizontal)"
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            "edt": "0x44"
        }
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}
],
"automaticSwingAirFlow": {
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    "descriptions": {
        "ja": "風向スイング設定",
        "en": "Automatic swing of air flow setting"
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    "writable": true,
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    "schema": {
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```

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          "en": "OFF"
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        "descriptions": {
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          "en": "Vertical"
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        "edt": "0x41"
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      {
        "value": "horizontal",
        "descriptions": {
          "ja": "左右",
          "en": "Horizontal"
        },
        "edt": "0x42"
      },
      {
        "value": "verticalAndHorizontal",
        "descriptions": {
          "ja": "上下左右",
          "en": "Vertical and Horizontal"
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        "edt": "0x43"
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  }
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"airFlowDirectionVertical": {
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  "descriptions": {
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    "en": "Air flow direction (vertical) setting"
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  "writable": true,
  "observable": false,
  "schema": {
    "type": "string",
    "enum": [
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      "lowermost",
      "central",
      "upperCenter",
      "lowerCenter"
    ]
  },
  "values": [
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```

```

        "value": "uppermost",
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            "ja": "上",
            "en": "Uppermost"
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            "en": "Lowermost"
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            "ja": "中央",
            "en": "Central"
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        "edt": "0x43"
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    {
        "value": "upperCenter",
        "descriptions": {
            "ja": "上中",
            "en": "Midpoint between uppermost and central"
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        "edt": "0x44"
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    {
        "value": "lowerCenter",
        "descriptions": {
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            "en": "Midpoint between lowermost and central"
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"airFlowDirectionHorizontal": {
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    "descriptions": {
        "ja": "風向左右設定",
        "en": "Air flow direction (horizontal) setting"
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    "observable": false,
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        "enum": [
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            "l_lc",
            "lc_c_rc",

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"l_lc_rc_r",
"r",
"rc",
"c",
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"c_rc",
"c_rc_r",
"lc",
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"lc_c",
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"l_lc_c_rc",
"l_lc_c_rc_r"
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    "descriptions": {
      "ja": "右中・右",
      "en": "Right center and Right"
    },
    "edt": "0x41"
  },
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    "descriptions": {
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      "en": "Left and Left center"
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    "value": "lc_c_rc",
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      "en": "Left center, Center and Right center"
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      "en": "Right"
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    "descriptions": {
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      "en": "Center and right"
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    "descriptions": {
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      "en": "Center and Right center"
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    "edt": "0x56"
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    "value": "c_rc_r",
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      "en": "Center, Right center and Right"
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    "edt": "0x57"
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      "en": "Left center"
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    "edt": "0x58"
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    "descriptions": {
      "ja": "左中・右",
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    "descriptions": {
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      "en": "Left center and Right center"
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    "edt": "0x5A"
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    "descriptions": {
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      "en": "Left center, Right center and Right"
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      "en": "Left center and Center"
    },
    "edt": "0x5C"
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    "descriptions": {
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      "en": "Left center, Center and Right"
    },
    "edt": "0x5D"
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    "descriptions": {
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      "en": "Left center, Center, Right center and Right"
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    "edt": "0x5F"
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      "en": "Left and Right"
    },
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  },
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    "descriptions": {
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      "en": "Left and Right center"
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    "edt": "0x62"
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  {
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    "descriptions": {
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      "en": "Left, Right center and Right"
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      "en": "Left and Center"
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      "en": "Left, Center and Right"
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    "edt": "0x65"
  },
  {
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      "en": "Left, Center and Right center"
    },
    "edt": "0x66"
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    "value": "l_c_rc_r",
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    },
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    "descriptions": {
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      "en": "Left, Left center and Right"
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    "edt": "0x69"
  },
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    "descriptions": {
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      "en": "Left, Left center and Right center"
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    "edt": "0x6A"
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    "edt": "0x6C"
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    "edt": "0x6E"
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    "value": "l_lc_c_rc_r",
    "descriptions": {
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      "en": "Left, Left center, Center, Right center and Right"
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      "descriptions": {
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        "preheating",
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    "values": [
      {
        "value": "normal",
        "descriptions": {
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          "en": "Normal operation"
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        "descriptions": {
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          "en": "Defrosting"
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          "en": "Preheating"
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"nonPriorityState": {
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  "descriptions": {

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                    "en": "Normal"
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                "value": true,
                "descriptions": {
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                    "en": "Non-priority"
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"operationMode": {
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    "descriptions": {
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        "en": "Operation mode setting"
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            "heating",
            "dehumidification",
            "circulation",
            "other"
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                    "ja": "自動",
                    "en": "Automatic"
                },
                "edt": "0x41"
            },
            {
                "value": "cooling",
            }
        ]
    }
}

```

```

        "descriptions": {
            "ja": "冷房",
            "en": "Cooling"
        },
        "edt": "0x42"
    },
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            "en": "Heating"
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            "en": "Dehumidification"
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        "value": "circulation",
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            "en": "Air circulation"
        },
        "edt": "0x45"
    },
    {
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        "descriptions": {
            "ja": "その他",
            "en": "Other"
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        "edt": "0x40"
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},
"automaticTemperatureControl": {
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    "descriptions": {
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        "en": "Automatic temperature control setting"
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    "writable": true,
    "observable": false,
    "schema": {
        "type": "boolean",
        "values": [
            {
                "value": true,
                "descriptions": {
                    "ja": "AUTO",

```

```
        "en": "Automatic"
      },
      "edt": "0x41"
    },
    {
      "value": false,
      "descriptions": {
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        "en": "Non-automatic"
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      "edt": "0x42"
    }
  ]
}
],
"highspeedOperation": {
  "epc": "0xB2",
  "descriptions": {
    "ja": "急速動作モード設定",
    "en": "Normal/highspeed/silent operation setting"
  },
  "writable": true,
  "observable": false,
  "schema": {
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        "descriptions": {
          "ja": "通常運転",
          "en": "Normal operation"
        },
        "edt": "0x41"
      },
      {
        "value": "highspeed",
        "descriptions": {
          "ja": "急速",
          "en": "High-speed operation"
        },
        "edt": "0x42"
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      {
        "value": "silent",
        "descriptions": {
          "ja": "静音",
          "en": "Silent operation"
        },
        "edt": "0x43"
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  }
}
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    }
  },
  "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
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          "enum": [
            "undefined"
          ],
          "values": [
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              "value": "undefined",
              "descriptions": {
                "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",
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        "en": "Set temperature value in cooling mode"
    },
    "writable": true,
    "observable": false,
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                "minimum": 0,
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                        "descriptions": {
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                            "en": "Undefined"
                        },
                        "edt": "0xFD"
                    }
                ]
            }
        ]
    }
},
"targetTemperatureHeating": {
    "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": {
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                "unit": "Celsius",
                "minimum": 0,
                "maximum": 50
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                "enum": [
                    "undefined"
                ],
                "values": [
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}
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"targetTemperatureDehumidifying": {
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    "descriptions": {
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        "en": "Set temperature value in dehumidifying mode"
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    "observable": false,
    "schema": {
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                "unit": "Celsius",
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                "maximum": 50
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            {
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                "enum": [
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                ],
                "values": [
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                            "en": "Undefined"
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            }
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},
"ratedPowerConsumption": {
    "epc": "0xB8",
    "descriptions": {
        "ja": "定格消費電力値",
        "en": "Rated power consumption"
    },
    "writable": false,
    "observable": false,
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        "properties": {

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        "en": "Cooling"
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          "unit": "W",
          "minimum": 0,
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          "enum": [
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          ],
          "values": [
            {
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              "descriptions": {
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                "en": "Unsupported"
              },
              "edt": "0xFFFE"
            }
          ]
        }
      ]
    },
    "heating": {
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        "en": "Heating"
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              "edt": "0xFFFE"
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}
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    ]
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]
},
"dehumidifying": {
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    "en": "Dehumidifying"
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        },
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    "en": "Circulation"
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},
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"currentConsumption": {
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  "descriptions": {
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    "en": "Measured value of current consumption"
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  "writable": false,
  "observable": false,
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    "unit": "A",
    "minimum": 0,
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"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": {
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        "unit": "%",
        "minimum": 0,
        "maximum": 100
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        "enum": [
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        "values": [
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            "descriptions": {
              "ja": "計測不能",
              "en": "Unmeasurable"
            },
            "edt": "0xFD"
          }
        ]
      }
    ]
  }
}

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        }
      ]
    }
  ]
},
"roomTemperature": {
  "epc": "0xBB",
  "descriptions": {
    "ja": "室内温度計測値",
    "en": "Measured value of room temperature"
  },
  "writable": false,
  "observable": false,
  "schema": {
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        "type": "number",
        "unit": "Celsius",
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        "maximum": 125
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        "enum": [
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            "descriptions": {
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              "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": {
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    "unit": "Celsius",
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    "maximum": 50
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    "airFlowTemperature": {
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      "descriptions": {
        "ja": "吹き出し温度計測値",
        "en": "Measured cooled air temperature"
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      "writable": false,
      "observable": false,
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            ]
          }
        ]
      }
    },
    "outdoorTemperature": {
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      "descriptions": {
        "ja": "外気温度計測値",
        "en": "Measured outdoor air temperature"
      },
      "writable": false,
      "observable": false,
      "schema": {
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            "type": "number",
            "unit": "Celsius",
            "minimum": -127,
            "maximum": 125
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          {
            "type": "string",
            "enum": [
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            ],
          }
        ]
      }
    }
  ],
}

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            "descriptions": {
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              "en": "Unmeasurable"
            },
            "edt": "0x7E"
          }
        ]
      }
    ]
  },
  "relativeTemperature": {
    "epc": "0xBF",
    "descriptions": {
      "ja": "相対温度設定値",
      "en": "Relative temperature setting"
    },
    "writable": true,
    "observable": false,
    "schema": {
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          "type": "number",
          "unit": "Celsius",
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          "maximum": 12.5,
          "multipleOf": 0.1
        },
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          "enum": [
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              "descriptions": {
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                "en": "Unmeasurable"
              },
              "edt": "0x7E"
            }
          ]
        }
      ]
    }
  },
  "ventilationFunction": {
    "epc": "0xC0",
    "descriptions": {
      "ja": "換気モード設定",
      "en": "Ventilation function setting"
    },
  },

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"writable": true,
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"schema": {
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  "enum": [
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    "off",
    "onIntake",
    "onOutletAndIntake"
  ],
  "values": [
    {
      "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",

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    "enum": [
      "on",
      "off"
    ],
    "values": [
      {
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        "descriptions": {
          "ja": "加湿ON",
          "en": "Humidifier function ON"
        },
        "edt": "0x41"
      },
      {
        "value": "off",
        "descriptions": {
          "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": [
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          "type": "number",
          "minimum": 1,
          "maximum": 8,
          "multipleOf": 1
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        {
          "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"
            }
          ]
        }
      ]
    }
  }
}
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    ]
  }
},
"humidificationLevel": {
  "epc": "0xC4",
  "descriptions": {
    "ja": "加湿量設定",
    "en": "Degree of humidification setting"
  },
  "writable": true,
  "observable": false,
  "schema": {
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        "type": "number",
        "minimum": 1,
        "maximum": 8,
        "multipleOf": 1
      },
      {
        "type": "string",
        "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": [
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            "ja": "非搭載",
            "en": "Not equipped"
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        {
          "value": true,
          "descriptions": {
            "ja": "搭載",
            "en": "Equipped"
          },
          "edt": "0x01"
        }
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    },
    "equippedClusterIon": {
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        "ja": "クラスタイオン方式搭載情報",
        "en": "Cluster ion"
      },
      "type": "boolean",
      "values": [
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          "descriptions": {
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            "en": "Not equipped"
          },
          "edt": "0x00"
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        {
          "value": true,
          "descriptions": {
            "ja": "搭載",
            "en": "Equipped"
          },
          "edt": "0x01"
        }
      ]
    }
  }
},
"airPurifierFunction": {
  "epc": "0x07",
  "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",

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  "properties": {
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      "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": [
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          "descriptions": {
            "ja": "OFF",
            "en": "OFF"
          },
          "edt": "0x00"
        },
        {
          "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"
          },
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      ],
      {
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          "en": "Automatic"
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      }
    ]
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      "en": "Cluster ion:Level"
    },
    "type": "number",
    "minimum": 1,
    "maximum": 8,
    "multipleOf": 1
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      "en": "Cluster ion:Mode"
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    "type": "string",
    "enum": [
      "off",
      "on"
    ],
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        "descriptions": {
          "ja": "OFF",
          "en": "OFF"
        },
        "edt": "0x00"
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        "descriptions": {
          "ja": "ON",
          "en": "ON"
        },
        "edt": "0x01"
      }
    ]
  },
  "autoOfClusterIon": {
    "descriptions": {
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      "en": "Cluster ion:Auto function"
    },
    "type": "boolean",
    "values": [
      {
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    },
    {
        "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": {
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                            "en": "Not equipped"
                        },
                        "edt": "0x00"
                    },
                    {
                        "value": true,
                        "descriptions": {
                            "ja": "搭載",
                            "en": "Equipped"
                        },
                        "edt": "0x01"
                    }
                ]
            }
        }
    }
},

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    "equippedClusterIon": {
      "descriptions": {
        "ja": "クラスタイオン方式搭載情報",
        "en": "Cluster ion"
      },
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      "values": [
        {
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          "descriptions": {
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            "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": {
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            "en": "Minus ion:Level"
          },
          "type": "number",
          "minimum": 1,
          "maximum": 8,
          "multipleOf": 1
        },
        "modeOfMinusIon": {
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            "en": "Minus ion:Mode"
          },
          "type": "string",
          "enum": [
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            "descriptions": {
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                "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"
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        {
            "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"
          },
          "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"
        }
      ]
    }
  }
}

```

```
    }
  },
  "selfCleaningMethod": {
    "epc": "OxCA",
    "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"
}
]
}
}
},
"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,
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        "properties": {
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                    "en": "Ozone cleaning:Level"
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                "minimum": 1,
                "maximum": 8,
                "multipleOf": 1
            },
            "modeOfOzone": {
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                    "en": "Ozone cleaning:Mode"
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                    "on"
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                        "descriptions": {
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                            "en": "OFF"
                        },
                        "edt": "0x00"
                    },
                    {
                        "value": "on",
                        "descriptions": {
                            "ja": "ON",
                            "en": "ON"
                        }
                    }
                ]
            }
        }
    }
}

```

```
        "edt": "0x01"
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    ]
  },
  "autoOfOzone": {
    "descriptions": {
      "ja": "オゾン洗浄方式：制御状態",
      "en": "Ozone cleaning: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"
      }
    ]
  },
  "levelOfDrying": {
    "descriptions": {
      "ja": "乾燥方式：制御レベル",
      "en": "Drying:Level"
    },
    "type": "number",
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    "maximum": 8,
    "multipleOf": 1
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  "modeOfDrying": {
    "descriptions": {
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      "en": "Drying:Mode"
    },
    "type": "string",
    "enum": [
      "off",
      "on"
    ],
    "values": [
      {
        "value": "off",
        "descriptions": {
          "ja": "OFF",
          "en": "OFF"
        }
      }
    ]
  }
}
```

```
    "edt": "0x00"
  },
  {
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      "ja": "ON",
      "en": "ON"
    },
    "edt": "0x01"
  }
]
},
"autoOfDrying": {
  "descriptions": {
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    "en": "Drying:Auto function"
  },
  "type": "boolean",
  "values": [
    {
      "value": false,
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        "en": "Non-automatic"
      },
      "edt": "0x00"
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    {
      "value": true,
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        "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",
      "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"
          },
          "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"
    },
    {
      "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,
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```
    "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": {},
        "note": {
          "ja": "ECHONET LiteではSet only property",
          "en": "Access rule of the corresponding ECHONET Lite property is Set only."
        }
      }
    }
  }
}
```

瞬間式給湯器: instantaneousWaterHeater:0x0272

Properties

| Property Resource Name          | Access Method | Data Type      | EPC (EL) | プロパティ名称 (EL)  | Note |
|---------------------------------|---------------|----------------|----------|---|------|
| onTimerReservation              | GET, PUT      | boolean        | 0x90     | 風呂自動ONタイマ予約設定<br>ON timer reservation setting                           |      |
| onTimerTime                     | GET, PUT      | string         | 0x91     | ONタイマ時刻設定値<br>ON timer setting  |      |
| onTimerRelativeTimeSettingValue | GET, PUT      | string         | 0x92     | 風呂自動ONタイマ相対時間設定値<br>Set value of ON timer relative time                 |      |
| hotWaterHeatingStatus           | GET           | boolean        | 0xD0     | 給湯器燃焼状態<br>Hot water heating status                                     |      |
| targetSuppliedWaterTemperature  | GET, PUT      | number         | 0xD1     | 給湯温度設定値<br>Set value of hot water temperature                           |      |
| hotWaterWarmerSetting           | GET, PUT      | boolean        | 0xD2     | 給湯保温設定<br>Hot water warmer setting                                      |      |
| bathWaterVolume4                | GET, PUT      | number         | 0xD4     | 風呂湯量設定4<br>Bath water volume setting 4                                  |      |
| maximumAllowableWaterVolume4    | GET           | number         | 0xD5     | 風呂湯量設定4 設定可能最大レベル<br>Bath water volume setting 4 Maximum settable level |      |
| volume                          | GET, PUT      | number         | 0xD6     | 音量設定値<br>Volume setting   |      |
| mute                            | GET, PUT      | boolean        | 0xD7     | ミュート設定<br>Mute setting  |      |
| tergetAutomaticOprationTime     | GET, PUT      | string, string | 0xDA     | 自動運転時間設定値<br>Duration of Automatic operation setting                    |      |
| remainingAutomaticOperationTime | GET           | string, string | 0xDB     | 自動運転残時間<br>Remaining Automatic operation time                           |      |

| Property Resource Name                  | Access Method | Data Type | EPC (EL) | プロパティ名称 (EL)   | Note |
|---|---------------|-----------|----------|--|------|
| targetBathWaterTemperature              | GET, PUT      | number    | 0xE1     | 風呂温度設定値<br>Set value of bath temperature                       |      |
| bathWaterHeatingStatus                  | GET           | boolean   | 0xE2     | 風呂給湯器燃焼状態<br>Bath water heater status                          |      |
| automaticBathOperation                  | GET, PUT      | boolean   | 0xE3     | 風呂自動モード設定<br>Bath Auto mode setting                            |      |
| targetBathAdditionalBoilupOperation     | GET, PUT      | boolean   | 0xE4     | 風呂追い炊き動作設定<br>Bath additional boil-up operation setting        |      |
| bathHotWaterAddition                    | GET, PUT      | boolean   | 0xE5     | 風呂足し湯動作設定<br>Bath hot water adding operation setting           |      |
| bathLukewarmWaterFunction               | GET, PUT      | boolean   | 0xE6     | 風呂ぬるめ動作設定<br>Bath water temperature lowering operation setting |      |
| bathWaterVolume1                        | GET, PUT      | number    | 0xE7     | 風呂湯量設定1<br>Bath hot water volume setting 1                     |      |
| bathWaterVolume2                        | GET, PUT      | number    | 0xE8     | 風呂湯量設定2<br>Bath hot water volume setting 2                     |      |
| bathroomPriority                        | GET           | boolean   | 0xE9     | 浴室優先設定<br>Bathroom priority setting                            |      |
| showerHotWaterSupplyStatus              | GET           | boolean   | 0xEA     | シャワー給湯状態<br>Shower hot water supply status                     |      |
| kitchenHotWaterSupplyStatus             | GET           | boolean   | 0xEB     | 台所給湯状態<br>Kitchen hot water supply status                      |      |
| hotWaterWarmerONTimerReservationSetting | GET, PUT      | boolean   | 0xEC     | 給湯保温ONタイマ予約設定<br>Hot water warmer ON timer reservation setting |      |
| targetHotWaterWarmerONTimerTime         | GET, PUT      | string    | 0xED     | 給湯保温ONタイマ時刻設定値<br>Set value of hot water warmer ON timer time  |      |

| Property Resource Name | Access Method | Data Type | EPC (EL) | プロパティ名称 (EL)                               | Note |
|------------------------|---------------|-----------|----------|--|------|
| bathWaterVolume3       | GET, PUT      | number    | 0xEE     | 風呂湯量設定3<br>Bath hot water volume setting 3 |      |
| bathOperationStatus    | GET           | string    | 0xEF     | 風呂動作状態監視<br>Bath operation status monitor  |      |

## Device Description

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{
  "deviceType": "instantaneousWaterHeater",
  "eoj": "0x0272",
  "descriptions": {
    "ja": "瞬間式給湯器",
    "en": "Instantaneous water heater"
  },
  "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",
    "en": "Hot water heating status"
  },
  "writable": false,
  "observable": false,
  "schema": {
    "type": "boolean",
    "values": [
      {
        "value": true,
        "descriptions": {
          "ja": "給湯器燃焼状態有",
          "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"
      },
      {
        "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,
    "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"
        }
      ]
    }
  }
]

```

```

    }
  },
  "targetAutomaticOperationTime": {
    "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"
  },
  "writable": false,
  "observable": false,
  "schema": {
    "oneOf": [
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        "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"
            },
            {
                "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"
      },
      {
        "value": false,
        "descriptions": {
          "ja": "追い焚き切",
          "en": "Additional boil-up OFF"
        },
        "edt": "0x42"
      }
    ]
  }
}
```

```
        "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,
```

```

        "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": {
          "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",
      "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",
        "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"  
  }  
]  
}  
}  
}
```



燃料電池: fuelCell: 0x027C

Properties

| Property Resource Name                 | Access Method | Data Type | EPC (EL) | プロパティ名称 (EL)   | Note |
|--|---------------|-----------|----------|--|------|
| waterTemperatureInWaterHeater          | GET           | number    | 0xC1     | 温水器湯温計測値<br>Measured temperature of water in water heater        |      |
| ratedElectricPowerOfGeneration         | GET           | number    | 0xC2     | 定格発電出力<br>Rated power generation output                          |      |
| heatCapacityOfStorageTank              | GET           | number    | 0xC3     | 貯湯槽熱量<br>Heating value of hot water storage tank                 |      |
| instantaneousElectricPowerOfGeneration | GET           | number    | 0xC4     | 瞬時発電電力計測値<br>Measured instantaneous power generation output      |      |
| cumulativeElectricEnergyOfGeneration   | GET           | number    | 0xC5     | 積算発電電力量計測値<br>Measured cumulative power generation output        |      |
| instantaneousGasConsumption            | GET           | number    | 0xC7     | 瞬時ガス消費量計測値<br>Measured instantaneous gas consumption             |      |
| cumulativeGasConsumption               | GET           | number    | 0xC8     | 積算ガス消費量計測値<br>Measured cumulative gas consumption                |      |
| powerGenerationSetting                 | GET, PUT      | string    | 0xCA     | 発電動作設定<br>Power generation setting                               |      |
| powerGenerationStatus                  | GET           | string    | 0xCB     | 発電動作状態<br>Power generation status                                |      |
| inHouseInstantaneousPowerConsumption   | GET           | number    | 0xCC     | 宅内瞬時消費電力計測値<br>Measured in-house instantaneous power consumption |      |
| inHouseCumulativePowerConsumption      | GET           | number    | 0xCD     | 宅内積算消費電力量計測値<br>Measured in-house cumulative power consumption   |      |
| powerSystemInterconnectionStatus       | GET           | string    | 0xD0     | 系統連系状態<br>System interconnected type                             |      |

| Property Resource Name    | Access Method | Data Type      | EPC (EL) | プロパティ名称 (EL)                                      | Note |
|---------------------------|---------------|----------------|----------|---|------|
| requestedTimeOfGeneration | GET, PUT      | object, string | 0xD1     | 発電要請時刻設定<br>Power generation request time setting |      |
| powerGenerationMode       | GET, PUT      | string         | 0xD2     | 指定発電状態<br>Designated power generation status      |      |
| remainingHotWaterAmount   | GET           | number         | 0xE1     | 残湯量計測値<br>Measured remaining hot water amount     |      |
| tankCapacity              | GET           | number         | 0xE2     | タンク容量値<br>Tank capacity                           |      |

### Actions

| Property Resource Name                 | Access Method | EPC (EL) | プロパティ名称 (EL)  | Note |
|--|---------------|----------|---|------|
| cumulativePowerGenerationOutputReset   | POST          | 0xC6     | 積算発電電力量リセット設定<br>Cumulative power generation output reset setting |      |
| cumulativeGasConsumptionReset          | POST          | 0xC9     | 積算ガス消費量リセット設定<br>Cumulative gas consumption reset setting         |      |
| inHouseCumulativePowerConsumptionReset | POST          | 0xCE     | 宅内積算消費電力量リセット設定<br>In-house cumulative power consumption reset    |      |

### Device Description

```
{
  "deviceType": "fuelCell",
  "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"
    },
    "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"
    },
    "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"
      }
    ]
  }
},
"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"
    }
]
},
"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
    }
},
"inHouseCumulativePowerConsumption": {
    "epc": "0xCD",
    "descriptions": {
        "ja": "宅内積算消費電力量計測値",
        "en": "Measured in-house cumulative power 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"
        },
        "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": {
            "type": "string",
            "format": "time"
          },
          "endTime": {
            "type": "string",
            "format": "time"
          }
        }
      },
      {
        "type": "string",
        "enum": [
          "undefined"
        ],
        "values": [
          {
            "value": "undefined",
            "descriptions": {
              "ja": "未設定",
              "en": "Undefined"
            },
            "edt": "0xFFFFFFFF"
          }
        ]
      }
    ]
  },
  "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"
  },
  "writable": false,
  "observable": false,
  "schema": {
    "type": "number",
    "unit": "L",
    "minimum": 0,
    "maximum": 65533
  }
}
},
"actions": {
  "cumulativePowerGenerationOutputReset": {
    "epc": "0xC6",
    "descriptions": {
      "ja": "積算発電電力量リセット設定",
      "en": "Cumulative power 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."
  }
},
"inHouseCumulativePowerConsumptionReset": {
  "epc": "0xCE",
  "descriptions": {
    "ja": "宅内積算消費電力量リセット設定",
    "en": "In-house cumulative power consumption reset"
  },
  "schema": {},
  "note": {
    "ja": "ECHONET LiteではSet only property",
    "en": "Access rule of the corresponding ECHONET Lite property is Set only."
  }
}
}
```

## 蓄電池: storageBattery:0x027D

Note to Client: chargingMethodプロパティは、operationModeプロパティに“charging”を設定した時の充電方式を示す。chargingMethodプロパティの値が、“designatedPower”の場合はchargingPowerプロパティ、“designatedCurrent”の場合はchargingCurrentプロパティの値が指定充電量を示す。また、chargingPowerプロパティを設定することでchargingMethodプロパティ値が“designatedPower”に、又はchargingCurrentプロパティを設定することでchargingMethodプロパティ値が“designatedCurrent”に変化する蓄電池があることに留意を要する。

dischargingMethodプロパティは、operationModeプロパティに“discharging”を設定した時の放電方式を示す。dischargingMethodプロパティの値が、“designatedPower”の場合はdischargingPowerプロパティ、“designatedCurrent”の場合はdischargingCurrentプロパティの値が指定放電量を示す。また、dischargingPowerプロパティを設定することでdischargingMethodプロパティ値が“designatedPower”に、又はdischargingCurrentプロパティを設定することでdischargingMethodプロパティ値が“designatedCurrent”に変化する蓄電池があることに留意を要する。

### Properties

| Property Resource Name         | Access Method | Data Type | EPC (EL) | プロパティ名称 (EL)                                       | Note |
|--------------------------------|---------------|-----------|----------|--|------|
| acEffectiveChargingCapacity    | GET           | number    | 0xA0     | AC実効容量 (充電)<br>AC effective capacity (charging)    |      |
| acEffectiveDischargingCapacity | GET           | number    | 0xA1     | AC実効容量 (放電)<br>AC effective capacity (discharging) |      |
| acChargeableCapacity           | GET           | number    | 0xA2     | AC充電可能容量<br>AC chargeable capacity                 |      |
| acDischargeableCapacity        | GET           | number    | 0xA3     | AC放電可能容量<br>AC dischargeable capacity              |      |
| acChargeableElectricEnergy     | GET           | number    | 0xA4     | AC充電可能量<br>AC chargeable electric energy           |      |
| acDischargeableElectricEnergy  | GET           | number    | 0xA5     | AC放電可能量<br>AC dischargeable electric energy        |      |
| acChargeUpperLimit             | GET,<br>PUT   | number    | 0xA6     | AC充電上限設定<br>AC charge upper limit setting          |      |
| acDischargeLowerLimit          | GET,<br>PUT   | number    | 0xA7     | AC放電下限設定<br>AC discharge lower limit setting       |      |

| Property Resource Name                    | Access Method | Data Type      | EPC (EL) | プロパティ名称 (EL)   | Note |
|---|---------------|----------------|----------|--|------|
| acCumulativeChargingElectricEnergy        | GET           | number         | 0xA8     | AC積算充電電力量計測値<br>AC measured cumulative charging electric energy    |      |
| acCumulativeDischargingElectricEnergy     | GET           | number         | 0xA9     | AC積算放電電力量計測値<br>AC measured cumulative discharging electric energy |      |
| acTargetChargingElectricEnergy            | GET, PUT      | number, string | 0xAA     | AC充電量設定値<br>AC charge amount setting value                         |      |
| acTargetDischargingElectricEnergy         | GET, PUT      | number, string | 0xAB     | AC放電量設定値<br>AC discharge amount setting value                      |      |
| chargingMethod                            | GET, PUT      | string         | 0xC1     | 充電方式<br>Charging method  |      |
| dischargingMethod                         | GET, PUT      | string         | 0xC2     | 放電方式<br>Discharging method   |      |
| acRatedElectricEnergy                     | GET           | number         | 0xC7     | AC定格電力量<br>AC rated electric energy                                |      |
| minimumAndMaximumChargingElectricPower    | GET           | object         | 0xC8     | 最小最大充電電力値<br>Minimum/maximum charging electric power               |      |
| minimumAndMaximumDischargingElectricPower | GET           | object         | 0xC9     | 最小最大放電電力値<br>Minimum/maximum discharging electric power            |      |
| minimumAndMaximumChargingCurrent          | GET           | object         | 0xCA     | 最小最大充電電流値<br>Minimum/maximum charging current                      |      |
| minimumAndMaximumDischargingCurrent       | GET           | object         | 0xCB     | 最小最大放電電流値<br>Minimum/maximum discharging current                   |      |

| Property Resource Name                           | Access Method | Data Type | EPC (EL) | プロパティ名称 (EL)  | Note |
|--|---------------|-----------|----------|---|------|
| reInterconnectionPermission                      | GET,<br>PUT   | string    | 0xCC     | 再連系許可設定<br>Re-interconnection permission setting                          |      |
| operationPermission                              | GET,<br>PUT   | string    | 0xCD     | 運転許可設定<br>Operation permission setting                                    |      |
| independentOperationPermission                   | GET,<br>PUT   | string    | 0xCE     | 自立運転許可設定<br>Independent operation permission setting                      |      |
| actualOperationMode                              | GET           | string    | 0xCF     | 運転動作状態<br>Working operation status  |      |
| ratedElectricEnergy                              | GET           | number    | 0xD0     | 定格電力量<br>Rated electric energy  |      |
| ratedCapacity                                    | GET           | number    | 0xD1     | 定格容量<br>Rated capacity  |      |
| ratedVoltage                                     | GET           | number    | 0xD2     | 定格電圧<br>Rated voltage   |      |
| instantaneousChargingAndDischargingElectricPower | GET           | number    | 0xD3     | 瞬時充放電電力計測値<br>Measured instantaneous charging/discharging electric energy |      |
| instantaneousChargingAndDischargingCurrent       | GET           | number    | 0xD4     | 瞬時充放電電流計測値<br>Measured instantaneous charging/discharging current         |      |
| instantaneousChargingAndDischargingVoltage       | GET           | number    | 0xD5     | 瞬時充放電電圧計測値<br>Measured instantaneous charging/discharging voltage         |      |
| cumulativeDischargingElectricEnergy              | GET           | number    | 0xD6     | 積算放電電力量計測値<br>Measured cumulative discharging electric energy             |      |

| Property Resource Name                           | Access Method | Data Type      | EPC (EL) | プロパティ名称 (EL)   | Note |
|--|---------------|----------------|----------|--|------|
| cumulativeChargingElectricEnergy                 | GET           | number         | 0xD8     | 積算充電電力量計測値<br>Measured cumulative charging electric energy                 |      |
| operationMode                                    | GET, PUT      | string         | 0xDA     | 運転モード設定<br>Operation mode setting  |      |
| powerSystemInterconnectionStatus                 | GET           | string         | 0xDB     | 系統連系状態<br>System-interconnected type                                       |      |
| minimumAndMaximumChargingPowerAtIndependent      | GET           | object         | 0xDC     | 最小最大充電電力値<br>(独立時)<br>Minimum/maximum charging power<br>(Independent)      |      |
| minimumAndMaximumDischargingPowerAtIndependent   | GET           | object         | 0xDD     | 最小最大放電電力値<br>(独立時)<br>Minimum/maximum discharging power<br>(Independent)   |      |
| minimumAndMaximumChargingCurrentAtIndependent    | GET           | object         | 0xDE     | 最小最大充電電流値<br>(独立時)<br>Minimum/maximum charging current<br>(Independent)    |      |
| minimumAndMaximumDischargingCurrentAtIndependent | GET           | object         | 0xDF     | 最小最大放電電流値<br>(独立時)<br>Minimum/maximum discharging current<br>(Independent) |      |
| chargingAndDischargingAmount1                    | GET, PUT      | number, number | 0xE0     | 充放電量設定値1<br>Charging/discharging amount setting 1                          |      |
| chargingAndDischargingAmount2                    | GET, PUT      | number, number | 0xE1     | 充放電量設定値2<br>Charging/discharging amount setting 2                          |      |
| remainingCapacity1                               | GET           | number         | 0xE2     | 蓄電残量1<br>Remaining stored electricity 1                                    |      |

| Property Resource Name    | Access Method | Data Type | EPC (EL) | プロパティ名称 (EL)                                   | Note |
|---------------------------|---------------|-----------|----------|--|------|
| remainingCapacity2        | GET           | number    | 0xE3     | 蓄電残量2<br>Remaining stored electricity 2        |      |
| remainingCapacity3        | GET           | number    | 0xE4     | 蓄電残量3<br>Remaining stored electricity 3        |      |
| batteryHealthState        | GET           | number    | 0xE5     | 劣化状態<br>Battery state of health                |      |
| batteryType               | GET           | string    | 0xE6     | 蓄電池タイプ<br>Battery type                         |      |
| chargingAmount1           | GET,<br>PUT   | number    | 0xE7     | 充電量設定値1<br>Charging amount setting 1           |      |
| dischargingAmount1        | GET,<br>PUT   | number    | 0xE8     | 放電量設定値1<br>Discharging amount setting 1        |      |
| chargingAmount2           | GET,<br>PUT   | number    | 0xE9     | 充電量設定値2<br>Charging amount setting 2           |      |
| dischargingAmount2        | GET,<br>PUT   | number    | 0xEA     | 放電量設定値2<br>Discharging amount setting 2        |      |
| chargingPower             | GET,<br>PUT   | number    | 0xEB     | 充電電力設定値<br>Charging electric energy setting    |      |
| dischargingPower          | GET,<br>PUT   | number    | 0xEC     | 放電電力設定値<br>Discharging electric energy setting |      |
| chargingCurrent           | GET,<br>PUT   | number    | 0xED     | 充電電流設定値<br>Charging current setting            |      |
| dischargingCurrent        | GET,<br>PUT   | number    | 0xEE     | 放電電流設定値<br>Discharging current setting         |      |
| ratedVoltageAtIndependent | GET           | number    | 0xEF     | 定格電圧 (独立時)<br>Rated voltage (Independent)      |      |

## Actions

| Property Resource Name                   | Access Method | EPC (EL) | プロパティ名称 (EL)   | Note |
|--|---------------|----------|--|------|
| resetCumulativeDischargingElectricEnergy | POST          | 0xD7     | 積算放電電力量リセット設定<br>Measured cumulative discharging electric energy reset setting |      |
| resetCumulativeChargingElectricEnergy    | POST          | 0xD9     | 積算充電電力量リセット設定<br>Measured cumulative charging electric energy reset setting    |      |

## Device Description

```
{
  "deviceType": "storageBattery",
  "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)",
        "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"  
  },  
  "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"
  },
  "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": [
                    "notSet"
                ],
                "values": [
                    {
                        "value": "notSet",
                        "descriptions": {
                            "ja": "未設定",
                            "en": "Not set"
                        },
                        "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
            }
        ]
    }
}

```

```

    },
    {
      "type": "string",
      "enum": [
        "notSet"
      ],
      "values": [
        {
          "value": "notSet",
          "descriptions": {
            "ja": "未設定",
            "en": "Not set"
          },
          "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"
  },
  {
    "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"
  },
  {
    "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"
      },
      "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,
        "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,  
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  "maxValue": {  
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      "en": "Maximum"  
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    "type": "number",  
    "unit": "A",  
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"reInterconnectionPermission": {  
  "epc": "0xCC",  
  "descriptions": {  
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    "en": "Re-interconnection permission setting"  
  },  
  "writable": true,  
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          "en": "Permitted"  
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          "en": "Prohibited"  
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        "edt": "0x42"  
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    ]  
  }  
}  
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  "descriptions": {  
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    "en": "Operation permission setting"
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        "descriptions": {
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          "en": "Permitted"
        },
        "edt": "0x41"
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          "en": "Prohibited"
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        "edt": "0x42"
      }
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  }
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"independentOperationPermission": {
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  "descriptions": {
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    "en": "Independent operation permission setting"
  },
  "writable": true,
  "observable": false,
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      "prohibited"
    ],
  },
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      "descriptions": {
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        "en": "Permitted"
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    {
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      "descriptions": {
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        "en": "Prohibited"
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}
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"actualOperationMode": {
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        "en": "Working operation status"
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    "writable": false,
    "observable": true,
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            "charging",
            "discharging",
            "standby",
            "test",
            "auto",
            "restart",
            "capacityRecalculation",
            "other"
        ],
        "values": [
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                "descriptions": {
                    "ja": "急速充電",
                    "en": "Rapid charging"
                },
                "edt": "0x41"
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            {
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                "descriptions": {
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                    "en": "Charging"
                },
                "edt": "0x42"
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                "descriptions": {
                    "ja": "放電",
                    "en": "Discharging"
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                "descriptions": {

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        "ja": "待機",
        "en": "Standby"
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    "edt": "0x44"
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    "descriptions": {
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        "en": "Test"
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    "edt": "0x45"
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    "value": "auto",
    "descriptions": {
        "ja": "自動",
        "en": "Automatic"
    },
    "edt": "0x46"
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{
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    "descriptions": {
        "ja": "再起動",
        "en": "Restart"
    },
    "edt": "0x48"
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    "value": "capacityRecalculation",
    "descriptions": {
        "ja": "実効容量再計算処理",
        "en": "Effective capacity recalculation processing"
    },
    "edt": "0x49"
},
{
    "value": "other",
    "descriptions": {
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        "en": "Other"
    },
    "edt": "0x40"
}
]
}
},
"ratedElectricEnergy": {
    "epc": "0xD0",
    "descriptions": {
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        "en": "Rated electric energy"
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},
"writable": false,
"observable": false,

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    "schema": {
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      "unit": "Wh",
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  "ratedCapacity": {
    "epc": "0xD1",
    "descriptions": {
      "ja": "定格容量",
      "en": "Rated capacity"
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      "unit": "Ah",
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  "ratedVoltage": {
    "epc": "0xD2",
    "descriptions": {
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      "en": "Rated voltage"
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    "observable": false,
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  "instantaneousChargingAndDischargingElectricPower": {
    "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",
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      "maximum": 999999999
    }
  },
  "instantaneousChargingAndDischargingCurrent": {
    "epc": "0xD4",
    "descriptions": {
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    "ja": "瞬時充放電電流計測値",  
    "en": "Measured instantaneous charging/discharging current"  
  },  
  "writable": false,  
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    "unit": "A",  
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    "maximum": 3276.6,  
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  }  
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"instantaneousChargingAndDischargingVoltage": {  
  "epc": "0xD5",  
  "descriptions": {  
    "ja": "瞬時充放電電圧計測値",  
    "en": "Measured instantaneous charging/discharging voltage"  
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  "observable": false,  
  "schema": {  
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    "unit": "V",  
    "minimum": -32767,  
    "maximum": 32766  
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"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": {  
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    "unit": "kWh",  
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    "multipleOf": 0.001  
  }  
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"cumulativeChargingElectricEnergy": {  
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  "descriptions": {  
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    "en": "Measured cumulative charging electric energy"  
  },  
  "writable": false,  
  "observable": false,  
  "schema": {  
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    "unit": "kWh",  
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    "multipleOf": 0.001  
  }  
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    "multipleOf": 0.001  
  }  
},  
"operationMode": {  
  "epc": "0xDA",  
  "descriptions": {  
    "ja": "運転モード設定",  
    "en": "Operation mode setting"  
  },  
  "writable": true,  
  "observable": true,  
  "schema": {  
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    "enum": [  
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      "charging",  
      "discharging",  
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      "test",  
      "auto",  
      "restart",  
      "capacityRecalculation",  
      "other"  
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        "value": "rapidCharging",  
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          "en": "Rapid charging"  
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        "edt": "0x41"  
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        "descriptions": {  
          "ja": "充電",  
          "en": "Charging"  
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        "edt": "0x42"  
      },  
      {  
        "value": "discharging",  
        "descriptions": {  
          "ja": "放電",  
          "en": "Discharging"  
        },  
        "edt": "0x43"  
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      {  
        "value": "standby",  
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      },  
    ]  
  }  
}
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      "en": "Test"
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  },
  {
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    "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"
  }
}

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    "observable": false,
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      "enum": [
        "reversePowerFlowAcceptable",
        "independent",
        "reversePowerFlowNotAcceptable"
      ]
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    ],
    "values": [
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        "value": "reversePowerFlowAcceptable",
        "descriptions": {
          "ja": "系統連系（逆潮流可）",
          "en": "System interconnection (reverse power flow acceptable)"
        }
      },
      {
        "value": "independent",
        "descriptions": {
          "ja": "独立",
          "en": "Independent type"
        }
      },
      {
        "value": "reversePowerFlowNotAcceptable",
        "descriptions": {
          "ja": "系統連系（逆潮流不可）",
          "en": "System-interconnected type (reverse power flow not acceptable)"
        }
      }
    ]
  ],
  "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,
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      "properties": {
        "minValue": {
          "descriptions": {
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            "en": "Minimum charging power"
          }
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        "type": "number",
        "unit": "W",

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        "minimum": 0,
        "maximum": 999999999
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    "maxValue": {
        "descriptions": {
            "ja": "最大充電電力値",
            "en": "Maximum charging power"
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        "type": "number",
        "unit": "W",
        "minimum": 0,
        "maximum": 999999999
    }
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},
"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": {
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                "descriptions": {
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                    "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)"
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  "properties": {
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        "en": "Minimum charging current"
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      "unit": "A",
      "minimum": 0,
      "maximum": 3276.6,
      "multipleOf": 0.1
    },
    "maxValue": {
      "descriptions": {
        "ja": "最大充電電流値",
        "en": "Maximum charging current"
      },
      "type": "number",
      "unit": "A",
      "minimum": 0,
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      "multipleOf": 0.1
    }
  }
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"minimumAndMaximumDischargingCurrentAtIndependent": {
  "epc": "0xDF",
  "descriptions": {
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    "en": "Minimum/maximum discharging current (Independent)"
  },
  "writable": false,
  "observable": false,
  "schema": {
    "type": "object",
    "properties": {
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        "descriptions": {
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          "en": "Minimum discharging current"
        },
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        "unit": "A",
        "minimum": 0,
        "maximum": 3276.6,
        "multipleOf": 0.1
      },
      "maxValue": {
        "descriptions": {
          "ja": "最大放電電流値",
          "en": "Maximum discharging current"
        }
      }
    }
  }
}
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    },
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    "unit": "A",
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}
},
"chargingAndDischargingAmount1": {
  "epc": "0xE0",
  "descriptions": {
    "ja": "充放電量設定値1",
    "en": "Charging/discharging amount setting 1"
  },
  "writable": true,
  "observable": false,
  "schema": {
    "oneOf": [
      {
        "descriptions": {
          "ja": "充電時 (プラス値)",
          "en": "During charging (positive value)"
        },
        "type": "number",
        "unit": "Wh",
        "minimum": 1,
        "maximum": 999999999
      },
      {
        "descriptions": {
          "ja": "放電時 (マイナス値)",
          "en": "During discharging (negative value)"
        },
        "type": "number",
        "unit": "Wh",
        "minimum": -999999999,
        "maximum": -1
      }
    ]
  }
}
},
"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": [
      {
        "descriptions": {
          "ja": "充電時 (プラス値)",
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    "en": "During charging (positive value)"
  },
  "type": "number",
  "unit": "Ah",
  "minimum": 0.1,
  "maximum": 3276.6,
  "multipleOf": 0.1
},
{
  "descriptions": {
    "ja": "放電時 (マイナス値)",
    "en": "During discharging (negative value)"
  },
  "type": "number",
  "unit": "Ah",
  "minimum": -3276.7,
  "maximum": -0.1,
  "multipleOf": 0.1
}
]
}
},
"remainingCapacity1": {
  "epc": "0xE2",
  "descriptions": {
    "ja": "蓄電残量1",
    "en": "Remaining stored electricity 1"
  },
  "writable": false,
  "observable": false,
  "schema": {
    "type": "number",
    "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": {
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    "ja": "蓄電残量3",
    "en": "Remaining stored electricity 3"
  },
  "writable": false,
  "observable": false,
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    "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",
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      "unknown",
      "lead",
      "ni_mh",
      "ni_cd",
      "lib",
      "zinc",
      "alkaline"
    ],
    "values": [
      {
        "value": "unknown",
        "descriptions": {
          "ja": "不明",
          "en": "Unknown"
        },
        "edt": "0x00"
      }
    ],
  }
}

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    "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": {
      "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"
  },
},
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    "writable": true,  
    "observable": false,  
    "schema": {  
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      "minimum": 0,  
      "maximum": 999999999  
    }  
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  "dischargingAmount1": {  
    "epc": "0xE8",  
    "descriptions": {  
      "ja": "放電量設定値1",  
      "en": "Discharging amount setting 1"  
    },  
    "writable": true,  
    "observable": false,  
    "schema": {  
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      "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,  
    "observable": false,  
    "schema": {  
      "type": "number",  
      "unit": "Ah",  
      "minimum": 0,  
      "maximum": 3276.6,  
      "multipleOf": 0.1  
    }  
  },  
}
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    "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": {
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        "en": "Discharging current setting"
      },
      "writable": true,
      "observable": false,
      "schema": {
        "type": "number",
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    "unit": "A",
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    "multipleOf": 0.1
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},
"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",
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    "maximum": 32766
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}
},
"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."
    }
  }
}
}
```

電気自動車充放電器:evChargerDischarger:0x027E

Note to Server: ECHONET LiteのProperty「車両接続・充放電可否状態 (EPC=0xC7)」は、ECHONET LiteでデータをGETする前に「車両接続確認 (EPC=0xCD)」をSETする必要がある。サーバがECHONET Lite Web APIでGET:chargeDischargeStatusを受信した場合、サーバはECHONET Liteで「車両接続確認」をSETしたのち「車両接続・充放電可否状態」をGETする。

Properties

| Property Resource Name                    | Access Method | Data Type | EPC (EL) | プロパティ名称 (EL)   | Note |
|---|---------------|-----------|----------|--|------|
| dischargeableCapacity1                    | GET           | number    | 0xC0     | 車載電池の放電可能容量値1<br>Dischargeable capacity of vehicle mounted battery 1           |      |
| dischargeableCapacity2                    | GET           | number    | 0xC1     | 車載電池の放電可能容量値2<br>Dischargeable capacity of vehicle mounted battery 2           |      |
| remainingDischargeableCapacity1           | GET           | number    | 0xC2     | 車載電池の放電可能残容量1<br>Remaining dischargeable capacity of vehicle mounted battery 1 |      |
| remainingDischargeableCapacity2           | GET           | number    | 0xC3     | 車載電池の放電可能残容量2<br>Remaining dischargeable capacity of vehicle mounted battery 2 |      |
| remainingDischargeableCapacity3           | GET           | number    | 0xC4     | 車載電池の放電可能残容量3<br>Remaining dischargeable capacity of vehicle mounted battery 3 |      |
| ratedChargeElectricPower                  | GET           | number    | 0xC5     | 定格充電能力<br>Rated charge capacity  |      |
| ratedDischargeElectricPower               | GET           | number    | 0xC6     | 定格放電能力<br>Rated discharge capacity   |      |
| chargeDischargeStatus                     | GET           | string    | 0xC7     | 車両接続・充放電可否状態<br>Vehicle connection and chargeable/dischargeable status         |      |
| minimumAndMaximumChargingElectricPower    | GET           | object    | 0xC8     | 最小最大充電電力値<br>Minimum/maximum charging electric energy                          |      |
| minimumAndMaximumDischargingElectricPower | GET           | object    | 0xC9     | 最小最大放電電力値<br>Minimum/maximum discharging electric energy                       |      |

| Property Resource Name              | Access Method | Data Type | EPC (EL) | プロパティ名称 (EL)  | Note |
|-------------------------------------|---------------|-----------|----------|---|------|
| minimumAndMaximumChargingCurrent    | GET           | object    | 0xCA     | 最小最大充電電流値<br>Minimum/maximum charging current                             |      |
| minimumAndMaximumDischargingCurrent | GET           | object    | 0xCB     | 最小最大放電電流値<br>Minimum/maximum discharging current                          |      |
| equipmentType                       | GET           | string    | 0xCC     | 充放電器タイプ<br>Charger/Discharger type  |      |
| chargeableCapacity                  | GET           | number    | 0xCE     | 車載電池の充電可能容量値<br>Chargeable capacity of vehicle mounted battery            |      |
| remainingChargeableCapacity         | GET           | number    | 0xCF     | 車載電池の充電可能残容量値<br>Remaining chargeable capacity of vehicle mounted battery |      |
| usedCapacity1                       | GET           | number    | 0xD0     | 車載電池の使用容量値1<br>Used capacity of vehicle mounted battery 1                 |      |
| usedCapacity2                       | GET           | number    | 0xD1     | 車載電池の使用容量値2<br>Used capacity of vehicle mounted battery 2                 |      |
| ratedVoltage                        | GET           | number    | 0xD2     | 定格電圧<br>Rated voltage   |      |
| instantaneousElectricPower          | GET           | number    | 0xD3     | 瞬時充放電電力計測値<br>Measured instantaneous charging/discharging electric energy |      |
| instantaneousCurrent                | GET           | number    | 0xD4     | 瞬時充放電電流計測値<br>Measured instantaneous charging/discharging current         |      |
| instantaneousVoltage                | GET           | number    | 0xD5     | 瞬時充放電電圧計測値<br>Measured instantaneous charging/discharging voltage         |      |
| cumulativeDischargingElectricEnergy | GET           | number    | 0xD6     | 積算放電電力量計測値<br>Measured cumulative amount of discharging electric energy   |      |

| Property Resource Name           | Access Method | Data Type | EPC (EL) | プロパティ名称 (EL)  | Note |
|----------------------------------|---------------|-----------|----------|---|------|
| cumulativeChargingElectricEnergy | GET           | number    | 0xD8     | 積算充電電力量計測値<br>Measured cumulative amount of charging electric energy    |      |
| operationMode                    | GET, PUT      | string    | 0xDA     | 運転モード設定<br>Operation mode setting                                       |      |
| powerSystemInterconnectionStatus | GET           | string    | 0xDB     | 系統連系状態<br>System interconnected type                                    |      |
| remainingCapacity1               | GET           | number    | 0xE2     | 車載電池の電池残容量1<br>Remaining stored electricity of vehicle mounted battery1 |      |
| remainingCapacity2               | GET           | number    | 0xE3     | 車載電池の電池残容量2<br>Remaining stored electricity of vehicle mounted battery2 |      |
| remainingCapacity3               | GET           | number    | 0xE4     | 車載電池の電池残容量3<br>Remaining stored electricity of vehicle mounted battery3 |      |
| vehicleId                        | GET           | string    | 0xE6     | 車両ID<br>Vehicle ID  |      |
| targetChargingElectricEnergy1    | GET, PUT      | number    | 0xE7     | 充電量設定値1<br>Charging amount setting 1                                    |      |
| targetChargingElectricEnergy2    | GET, PUT      | number    | 0xE9     | 充電量設定値2<br>Charging amount setting 2                                    |      |
| targetDischargingElectricEnergy  | GET, PUT      | number    | 0xEA     | 放電量設定値<br>Discharging electric energy setting                           |      |
| chargingElectricPower            | GET, PUT      | number    | 0xEB     | 充電電力設定値<br>Charging electric energy setting                             |      |
| dischargingElectricPower         | GET, PUT      | number    | 0xEC     | 放電電力設定値<br>Discharging electric energy setting                          |      |
| chargingCurrent                  | GET, PUT      | number    | 0xED     | 充電電流設定値<br>Charging current setting                                     |      |

| Property Resource Name             | Access Method | Data Type | EPC (EL) | プロパティ名称 (EL)                              | Note |
|------------------------------------|---------------|-----------|----------|---|------|
| dischargingCurrent                 | GET,<br>PUT   | number    | 0xEE     | 放電電流設定値<br>Discharging current setting    |      |
| ratedVoltageOfIndependentOperation | GET           | number    | 0xEF     | 定格電圧 (独立時)<br>Rated voltage (Independent) |      |

### Actions

| Property Resource Name                   | Access Method | EPC (EL) | プロパティ名称 (EL)  | Note |
|--|---------------|----------|---|------|
| resetCumulativeDischargingElectricEnergy | POST          | 0xD7     | 積算放電電力量リセット設定<br>Cumulative amount of discharging electric energy reset setting |      |
| resetCumulativeChargingElectricEnergy    | POST          | 0xD9     | 積算充電電力量リセット設定<br>Cumulative amount of charging electric energy reset setting    |      |

### Device Description

```
{
  "deviceType": "evChargerDischarger",
  "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,
    "schema": {
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      "unit": "Ah",
      "minimum": 0,
      "maximum": 3276.6,
      "multipleOf": 0.1
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  },
  "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"
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    "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": {
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      "minimum": 0,
      "maximum": 100
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  },
  "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": "0x05",
  "descriptions": {
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    "en": "Rated charge capacity"
  },
  "writable": false,
  "observable": false,
  "schema": {
    "type": "number",
    "unit": "W",
    "minimum": 0,
    "maximum": 999999999
  }
},
"ratedDischargeElectricPower": {
  "epc": "0x06",
  "descriptions": {
    "ja": "定格放電能力",
    "en": "Rated discharge capacity"
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  "writable": false,
  "observable": false,
  "schema": {
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    "unit": "W",
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    "maximum": 999999999
  }
},
"chargeDischargeStatus": {
  "epc": "0x07",
  "epcAtomic": "0xCD",
  "descriptions": {
    "ja": "車両接続・充放電可否状態",
    "en": "Vehicle connection and chargeable/dischargeable status"
  },
},

```



```

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    "connected",
    "chargeable",
    "dischargeable",
    "chargeableDischargeable",
    "unknown"
  ],
  "values": [
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      "descriptions": {
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        "en": "Undefined"
      },
      "edt": "0xFF"
    },
    {
      "value": "notConnected",
      "descriptions": {
        "ja": "車両未接続",
        "en": "Not Connected"
      },
      "edt": "0x30"
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    {
      "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": {
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        "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": {
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    "en": "Minimum/maximum charging electric energy"
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  "observable": false,
  "schema": {
    "type": "object",
    "properties": {
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        "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": {
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      "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
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  }
}
},
"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": {
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        "descriptions": {
          "ja": "最小充電電流値",
          "en": "Minimum charging current"
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        "type": "number",
        "unit": "A",
        "minimum": 0,
        "maximum": 3276.6,
        "multipleOf": 0.1
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      "maximumCurrent": {
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          "ja": "最大充電電流値",
          "en": "Maximum charging current"
        },

```

```
        "type": "number",
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    }
  },
  "minimumAndMaximumDischargingCurrent": {
    "epc": "0xCB",
    "descriptions": {
      "ja": "最小最大放電電流値",
      "en": "Minimum/maximum discharging current"
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    "writable": false,
    "observable": false,
    "schema": {
      "type": "object",
      "properties": {
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          "descriptions": {
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            "en": "Minimum discharging current"
          },
          "type": "number",
          "unit": "A",
          "minimum": 0,
          "maximum": 3276.6,
          "multipleOf": 0.1
        },
        "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"
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    "writable": false,
    "observable": false,
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      "type": "string",
      "enum": [
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    "dc_bb_charge",
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    "dc_bb_discharge",
    "dc_ee_charge",
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        "en": "AC_CPLT"
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      "edt": "0x11"
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      "descriptions": {
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        "en": "AC_HLC_Charge"
      },
      "edt": "0x12"
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      "descriptions": {
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        "en": "AC_HLC_ChargeDischarge"
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      "descriptions": {
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        "en": "DC_AA_Charge"
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    {
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      "descriptions": {
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        "en": "DC_AA_ChargeDischarge"
      },
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    }
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}
```

```
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    {  
      "value": "dc_aa_discharge",  
      "descriptions": {  
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        "en": "DC_AA_Discharge"  
      },  
      "edt": "0x23"  
    },  
    {  
      "value": "dc_bb_charge",  
      "descriptions": {  
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        "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"  
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    {  
      "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"  
    }  
  ],  
  "edt": "0x43"  
}
```

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    },
    {
      "value": "dc_ff_charge",
      "descriptions": {
        "ja": "DCタイプ_FF (充電のみ)",
        "en": "DC_FF_Charge"
      },
      "edt": "0x51"
    },
    {
      "value": "dc_ff_chargedDischarge",
      "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,
  "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": {
      "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",
  "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",
        "idle",
        "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": "idle",
            "descriptions": {
                "ja": "停止",
                "en": "Idle"
            },
            "edt": "0x47"
        },
        {
            "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,

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"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"
    }
  ]
},
"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."
    }
  },
  "vehicleId": {
    "epc": "0xE6",
    "descriptions": {
      "ja": "車両ID",
      "en": "Vehicle ID"
    },
    "writable": false,
    "observable": false,
    "schema": {
      "type": "string"
    }
  },
  "targetChargingElectricEnergy1": {
    "epc": "0xE7",
    "descriptions": {

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```
    "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
  },
  "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",
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        "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
    }
},
"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,

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```
    "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
    }
  }
},
"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."
    }
  }
}
}
```



## 低圧スマート電力量メータ:lvSmartElectricEnergyMeter:0x0288

Note to Server: 以下のECHONET LiteのPropertyは、ECHONET LiteでGETした値に係数 (EPC=0xD3) と積算電力量単位 (EPC=0xE1) を乗算することで実際の値となる。サーバ側でこれらの計算を行うこととする。したがってECHONET Lite Web APIでは取得した値をそのまま利用できる。また以下のECHONET LiteのPropertyで定義されるmaximumの値は、積算電力量有効桁数 (EPC=0xD7) から求めた値に係数 (EPC=0xD3) と積算電力量単位 (EPC=0xE1) を乗算した値となる。サーバ側でこれらの計算を行い設定することとする。同じく以下のECHONET LiteのPropertyで定義されるmultipleOfの値は、係数 (EPC=0xD3) と積算電力量単位 (EPC=0xE1) を乗算した値となる。サーバ側でこれらの計算を行い設定することとする。

- 積算電力量計測値 (正方向計測値)
- 積算電力量計測値履歴1 (正方向計測値)
- 積算電力量計測値 (逆方向計測値)
- 積算電力量計測値履歴1 (逆方向計測値)
- 定時積算電力量計測値 (正方向計測値)
- 定時積算電力量計測値 (逆方向計測値)
- 積算電力量計測値履歴2

例:

```

積算電力量計測値 (正方向計測値) (EPC=0xE0) : 0x00BC614E (12345678)
係数 (EPC=0xD3) : 0x0000000A (10倍)
積算電力量単位 (EPC=0xE1) : 0x03 (0.001kWh)
積算電力量有効桁数 (EPC=0xD7) : 0x08 (8桁=最大計測値99999999) の場合
  実際の積算電力量 12345678 × 10 × 0.001=123456.78 [kWh]
  maximumの値 99999999 × 10 × 0.001=999999.99
  multipleOfの値 10 × 0.001=0.01
    
```

以下のECHONET LiteのPropertyは、ECHONET LiteでデータをGETする前に「積算履歴収集日1 (EPC=0xE5)」をSETする必要がある。ECHONET Lite Web APIでは以下のPropertyをGET (REST) する際に「積算履歴収集日1」の値をQueryとして指定する。サーバはECHONET Liteで「積算履歴収集日1」をSETしたのち「積算電力量計測値履歴1」をGETする。なお、ECHONET Lite Web APIでqueryを付加しない場合は「積算履歴収集日1」=0として扱う。

- 積算電力量計測値履歴1 (正方向計測値)
- 積算電力量計測値履歴1 (逆方向計測値)

以下のECHONET LiteのPropertyは、ECHONET LiteでデータをGETする前に「積算履歴収集日2 (EPC=0xED)」をSETする必要がある。ECHONET Lite Web APIでは以下のPropertyをGET (REST) する際に「積算履歴収集日2」の値をQueryとして指定する。サーバはECHONET Liteで「積算履歴収集日2」をSETしたのち「積算電力量計測値履歴2」をGETする。

- 積算電力量計測値履歴2 (正方向、逆方向計測値)

### Properties

| Property Resource Name | Access Method | Data Type | EPC (EL) | プロパティ名称 (EL) | Note |
|------------------------|---------------|-----------|----------|--------------|------|
|------------------------|---------------|-----------|----------|--------------|------|

| Property Resource Name                       | Access Method | Data Type         | EPC (EL) | プロパティ名<br>称 (EL)  | Note |
|--|---------------|-------------------|----------|---|------|
| normalDirectionCumulativeElectricEnergy      | GET           | number,<br>string | 0xE0     | 積算電力量計測<br>値 (正方向計測<br>値)<br>Measured<br>cumulative<br>amount of<br>electric<br>energy (normal<br>direction)                                    |      |
| normalDirectionCumulativeElectricEnergyLog1  | GET           | object            | 0xE2     | 積算電力量計測<br>値履歴1 (正方<br>向計測値)<br>Historical<br>data of<br>measured<br>cumulative<br>amounts of<br>electric<br>energy 1<br>(normal<br>direction)  | *1   |
| reverseDirectionCumulativeElectricEnergy     | GET           | number,<br>string | 0xE3     | 積算電力量計測<br>値 (逆方向計測<br>値)<br>Measured<br>cumulative<br>amount of<br>electric<br>energy<br>(reverse<br>direction)                                |      |
| reverseDirectionCumulativeElectricEnergyLog1 | GET           | object            | 0xE4     | 積算電力量計測<br>値履歴1 (逆方<br>向計測値)<br>Historical<br>data of<br>measured<br>cumulative<br>amounts of<br>electric<br>energy 1<br>(reverse<br>direction) | *1   |

| Property Resource Name                              | Access Method | Data Type      | EPC (EL) | プロパティ名称 (EL)  | Note |
|---|---------------|----------------|----------|---|------|
| instantaneousElectricPower                          | GET           | number, string | 0xE7     | 瞬時電力計測値<br>Measured instantaneous electric energy   |      |
| instantaneousCurrent                                | GET           | object         | 0xE8     | 瞬時電流計測値<br>Measured instantaneous currents  |      |
| normalDirectionCumulativeElectricEnergyAtEvery30Min | GET           | object         | 0xEA     | 定時積算電力量計測値 (正方向計測値)<br>Cumulative amounts of electric energy measured at fixed time (normal direction)  |      |
| reverseDirectionCumulativeElectricEnergyEvery30Min  | GET           | object         | 0xEB     | 定時積算電力量計測値 (逆方向計測値)<br>Cumulative amounts of electric energy measured at fixed time (reverse direction) |      |

| Property Resource Name       | Access Method | Data Type | EPC (EL) | プロパティ名称 (EL)  | Note |
|------------------------------|---------------|-----------|----------|---|------|
| cumulativeElectricEnergyLog2 | GET           | object    | 0xEC     | 積算電力量計測値履歴2 (正方向、逆方向計測値)<br>Historical data of measured cumulative amounts of electric energy 2 (normal and reverse directions) | *1   |

\*1 queryあり

以下に示すDevice Description中のmaximumとmultipleOfの値は一例である。実際の値は、前述のNote to Serverを参考に設定すること。

#### Device Description

```
{
  "deviceType": "lvSmartElectricEnergyMeter",
  "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,
            "maximum": 999999.99,
            "multipleOf": 0.01,
            "coefficient": [
              "0xD3",
              "0xE1"
            ]
          }
        ]
      }
    }
  }
}
```

```
    },
    {
      "type": "string",
      "enum": [
        "noData"
      ],
      "values": [
        {
          "value": "noData",
          "descriptions": {
            "ja": "No data",
            "en": "No data"
          },
          "edt": "0xFFFFFFFF"
        }
      ]
    }
  ]
},
"note": {
  "ja": "EPC=0xD3, 0xE1の値を乗算済みの値",
  "en": "The value is multiplied 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"
        ],
        "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,
          "maximum": 999999.99,
          "multipleOf": 0.01,
          "coefficient": [
            "0xD3",
            "0xE1"
          ]
        },
        {
          "type": "string",
          "enum": [
            "noData"
          ],
          "values": [
            {
              "value": "noData",
              "descriptions": {

```

```

        "ja": "No data",
        "en": "No data"
    },
    "edt": "0xFFFFFFFF"
}
]
}
}
}
},
"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 multiplied by
EPC=0xD3 and 0xE1."
}
},
"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,
                "maximum": 999999.99,
                "multipleOf": 0.01,
                "coefficient": [
                    "0xD3",
                    "0xE1"
                ]
            },
            {
                "type": "string",
                "enum": [
                    "noData"
                ],
                "values": [
                    {
                        "value": "noData",
                        "descriptions": {
                            "ja": "No data",
                            "en": "No data"
                        },
                        "edt": "0xFFFFFFFF"
                    }
                ]
            }
        ]
    }
}
]

```

```

    },
    "note": {
      "ja": "EPC=0xD3, 0xE1の値を乗算済みの値",
      "en": "The value is multiplied 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
        },
        "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,
                "maximum": 999999.99,
                "multipleOf": 0.01,
                "coefficient": [
                    "0xD3",
                    "0xE1"
                ]
            },
            {
                "type": "string",
                "enum": [
                    "noData"
                ],
                "values": [
                    {
                        "value": "noData",
                        "descriptions": {
                            "ja": "No data",
                            "en": "No data"
                        },
                        "edt": "0xFFFFFFFF"
                    }
                ]
            }
        ]
    }
},
"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 multiplied by EPC=0xD3 and 0xE1."
}
],

```

```

    "instantaneousElectricPower": {
      "epc": "0xE7",
      "descriptions": {
        "ja": "瞬時電力計測値",
        "en": "Measured instantaneous 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": "No data",
                  "en": "No data"
                },
                "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",
                "minimum": -3276.7,

```

```
        "maximum": 3276.5,  
        "multipleOf": 0.1  
    },  
    {  
        "type": "string",  
        "enum": [  
            "noData"  
        ],  
        "values": [  
            {  
                "value": "noData",  
                "descriptions": {  
                    "ja": "No data",  
                    "en": "No data"  
                },  
                "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": "No data",  
                            "en": "No data"  
                        },  
                        "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,
          "maximum": 999999.99,
          "multipleOf": 0.01,
          "coefficient": [
            "0xD3",
            "0xE1"
          ]
        },
        {
          "type": "string",
          "enum": [
            "noData"
          ],
          "values": [
            {
              "value": "noData",
              "descriptions": {
                "ja": "No data",
                "en": "No data"
              },
              "edt": "0xFFFFFFFF"
            }
          ]
        }
      ]
    }
  }
},
"note": {

```

```

        "ja": "EPC=0xD3, 0xE1の値を乗算済みの値",
        "en": "The value is multiplied by the value of EPC=0xD3 and 0xE1."
    }
},
"reverseDirectionCumulativeElectricEnergyEvery30Min": {
    "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,
                        "maximum": 999999.99,
                        "multipleOf": 0.01,
                        "coefficient": [
                            "0xD3",
                            "0xE1"
                        ]
                    }
                ],
                {
                    "type": "string",
                    "enum": [
                        "noData"
                    ],
                    "values": [
                        {
                            "value": "noData",
                            "descriptions": {
                                "ja": "No data",
                                "en": "No data"
                            },
                            "edt": "0xFFFFFFFF"
                        }
                    ]
                }
            ]
        }
    }
}

```

```

    ]
  }
}
},
"note": {
  "ja": "EPC=0xD3, 0xE1の値を乗算済みの値",
  "en": "The value is multiplied 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",
    "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,
              "maximum": 999999.99,
              "multipleOf": 0.01,
              "coefficient": [
                "0xD3",
                "0xE1"
              ]
            },
            {
              "type": "string",
              "enum": [
                "noData"
              ],
              "values": [
                {
                  "value": "noData",
                  "descriptions": {
                    "ja": "No data",
                    "en": "No data"
                  },
                  "edt": "0xFFFFFFFF"
                }
              ]
            }
          ]
        }
      }
    }
  },
  "reverseDirectionElectricEnergy": {
    "oneOf": [
      {
        "type": "number",
        "unit": "kWh",
        "minimum": 0,
        "maximum": 999999.99,

```





## 高圧スマート電力量メータ: hvSmartElectricEnergyMeter: 0x028A

### Note to Server:

以下のECHONET LiteのPropertyは、ECHONET LiteでGETした値に係数 (EPC=0xD3) と係数の倍率 (EPC=0xD4) と積算有効電力量単位 (EPC=0xE6) を乗算することで実際の値となる。サーバ側でこれらの計算を行うこととする。したがってECHONET Lite Web APIでは取得した値をそのまま利用できる。

また以下のECHONET LiteのPropertyで定義されるmaximumの値は、積算有効電力量有効桁数 (EPC=0xE5) から求めた値に係数 (EPC=0xD3) と係数の倍率 (EPC=0xD4) と積算有効電力量単位 (EPC=0xE6) を乗算した値となる。サーバ側でこれらの計算を行い設定することとする。

同じく以下のECHONET LiteのPropertyで定義されるmultipleOfの値は、係数 (EPC=0xD3) と係数の倍率 (EPC=0xD4) と積算有効電力量単位 (EPC=0xE6) を乗算した値となる。サーバ側でこれらの計算を行い設定することとする。

- 積算有効電力量計測値
- 定時積算有効電力量計測値
- 力測積算有効電力量計測値
- 積算有効電力量計測値履歴

### 例:

|                        |   |
|------------------------|---|
| 積算有効電力量計測値 (EPC=0xE2)  | : 0x00BC614E (12345678)                                   |
| 係数 (EPC=0xD3)          | : 0x00000001 (1倍)   |
| 係数の倍率 (EPC=0xD4)       | : 0x00 (1倍)   |
| 積算有効電力量単位 (EPC=0xE6)   | : 0x01 (0.1kWh)   |
| 積算有効電力量有効桁数 (EPC=0xE5) | : 0x08 (8桁=最大計測値99999999) の場合                             |
| 実際の積算有効電力量             | $12345678 \times 1 \times 1 \times 0.1 = 1234567.8$ [kWh] |
| maximumの値              | $99999999 \times 1 \times 1 \times 0.1 = 9999999.9$       |
| multipleOfの値           | $1 \times 1 \times 0.1 = 0.1$                             |

以下のECHONET LiteのPropertyは、ECHONET LiteでGETした値に係数 (EPC=0xD3) と係数の倍率 (EPC=0xD4) と需要電力単位 (EPC=0xC5) を乗算することで実際の値となる。サーバ側でこれらの計算を行うこととする。したがってECHONET Lite Web APIでは取得した値をそのまま利用できる。

また以下のECHONET LiteのPropertyで定義されるmaximumの値は、需要電力有効桁数 (EPC=0xC4) から求めた値に係数 (EPC=0xD3) と係数の倍率 (EPC=0xD4) と需要電力単位 (EPC=0xC5) を乗算した値となる。サーバ側でこれらの計算を行い設定することとする。

同じく以下のECHONET LiteのPropertyで定義されるmultipleOfの値は、係数 (EPC=0xD3) と係数の倍率 (EPC=0xD4) と需要電力単位 (EPC=0xC5) を乗算した値となる。サーバ側でこれらの計算を行い設定することとする。

- 月間最大需要電力
- 定時需要電力 (30分平均電力)
- 需要電力計測値履歴

### 例:

|                     |  |
|---------------------|--|
| 月間最大需要電力 (EPC=0xC1) | : 0x00BC614E (12345678)                                  |
| 係数 (EPC=0xD3)       | : 0x00000001 (1倍)  |
| 係数の倍率 (EPC=0xD4)    | : 0x00 (1倍)  |
| 需要電力単位 (EPC=0xC5)   | : 0x01 (0.1kW)   |
| 需要電力有効桁数 (EPC=0xC4) | : 0x08 (8桁=最大計測値99999999) の場合                            |
| 実際の月間最大需要電力         | $12345678 \times 1 \times 1 \times 0.1 = 1234567.8$ [kW] |
| maximumの値           | $99999999 \times 1 \times 1 \times 0.1 = 9999999.9$      |
| multipleOfの値        | $1 \times 1 \times 0.1 = 0.1$                            |

以下のECHONET LiteのPropertyは、ECHONET LiteでGETした値に係数（EPC=0xD3）と係数の倍率（EPC=0xD4）と累積最大需要電力単位（EPC=0xC7）を乗算することで実際の値となる。サーバ側でこれらの計算を行うこととする。したがってECHONET Lite Web APIでは取得した値をそのまま利用できる。

また以下のECHONET LiteのPropertyで定義されるmaximumの値は、需要電力有効桁数（EPC=0xC4）から求めた値に係数（EPC=0xD3）と係数の倍率（EPC=0xD4）と累積最大需要電力単位（EPC=0xC7）を乗算した値となる。サーバ側でこれらの計算を行い設定することとする。

同じく以下のECHONET LiteのPropertyで定義されるmultipleOfの値は、係数（EPC=0xD3）と係数の倍率（EPC=0xD4）と累積最大需要電力単位（EPC=0xC7）を乗算した値となる。サーバ側でこれらの計算を行い設定することとする。

- 累積最大需要電力

例：

|                      |  |
|----------------------|--|
| 累積最大需要電力（EPC=0xC2）   | ： 0x00BC614E（12345678）                                   |
| 係数（EPC=0xD3）         | ： 0x00000001（1倍）   |
| 係数の倍率（EPC=0xD4）      | ： 0x00（1倍）   |
| 累積最大需要電力単位（EPC=0xC7） | ： 0x01（0.1kW）  |
| 需要電力有効桁数（EPC=0xC4）   | ： 0x08（8桁＝最大計測値99999999） の場合                             |
| 実際の累積最大需要電力          | $12345678 \times 1 \times 1 \times 0.1 = 1234567.8$ [kW] |
| maximumの値            | $99999999 \times 1 \times 1 \times 0.1 = 9999999.9$      |
| multipleOfの値         | $1 \times 1 \times 0.1 = 0.1$                            |

以下のECHONET LiteのPropertyは、ECHONET LiteでGETした値に係数（EPC=0xD3）と係数の倍率（EPC=0xD4）と力測積算無効電力量(遅れ)単位（EPC=0xCD）を乗算することで実際の値となる。サーバ側でこれらの計算を行うこととする。したがってECHONET Lite Web APIでは取得した値をそのまま利用できる。

また以下のECHONET LiteのPropertyで定義されるmaximumの値は、力測積算無効電力量(遅れ)有効桁数（EPC=0xCC）から求めた値に係数（EPC=0xD3）と係数の倍率（EPC=0xD4）と力測積算無効電力量(遅れ)単位（EPC=0xCD）を乗算した値となる。サーバ側でこれらの計算を行い設定することとする。

同じく以下のECHONET LiteのPropertyで定義されるmultipleOfの値は、係数（EPC=0xD3）と係数の倍率（EPC=0xD4）と力測積算無効電力量(遅れ)単位（EPC=0xCD）を乗算した値となる。サーバ側でこれらの計算を行い設定することとする。

- 力測積算無効電力量(遅れ)計測値
- 定時力測積算無効電力量(遅れ)計測値
- 力測積算無効電力量(遅れ)計測値履歴

例：

|                             |   |
|-----------------------------|---|
| 力測積算無効電力量(遅れ)計測値（EPC=0xCA）  | ： 0x00BC614E（12345678）                                      |
| 係数（EPC=0xD3）                | ： 0x00000001（1倍）  |
| 係数の倍率（EPC=0xD4）             | ： 0x00（1倍）  |
| 力測積算無効電力量(遅れ)単位（EPC=0xCD）   | ： 0x01（0.1kvarh）  |
| 力測積算無効電力量(遅れ)有効桁数（EPC=0xCC） | ： 0x08（8桁＝最大計測値99999999） の場合                                |
| 実際の力測積算無効電力量                | $12345678 \times 1 \times 1 \times 0.1 = 1234567.8$ [kvarh] |
| maximumの値                   | $99999999 \times 1 \times 1 \times 0.1 = 9999999.9$         |
| multipleOfの値                | $1 \times 1 \times 0.1 = 0.1$                               |

以下のECHONET LiteのPropertyは、ECHONET LiteでデータをGETする前に「積算履歴収集日（EPC=0xE1）」をSETする必要がある。ECHONET Lite Web APIでは以下のPropertyをGET (REST) する際に「積算履歴収集日」の値をqueryとして指定す

る。サーバはECHONET Liteで「積算履歴収集日」をSETしたのち「需要電力計測値履歴」または「積算有効電力量計測値履歴」をGETする。なお、ECHONET Lite Web APIでqueryを付加しない場合は「積算履歴収集日」=0として扱う。

- 需要電力計測値履歴
- 力測積算無効電力量(遅れ)計測値履歴
- 積算有効電力量計測値履歴

## Properties

| Property Resource Name                       | Access Method | Data Type      | EPC (EL) | プロパティ名称 (EL)  | Note |
|--|---------------|----------------|----------|---|------|
| monthlyMaximumElectricPowerDemand            | GET           | number, string | 0xC1     | 月間最大需要電力<br>Monthly maximum electric power demand   |      |
| cumulativeMaximumElectricPowerDemand         | GET           | number         | 0xC2     | 累積最大需要電力<br>Cumulative maximum electric power demand  |      |
| averageElectricPowerDemand                   | GET           | object         | 0xC3     | 定時需要電力 (30分平均電力)<br>Electric power demand at fixed time (30-minute average electric power)  |      |
| electricPowerDemandLog                       | GET           | object         | 0xC6     | 需要電力計測値履歴<br>Historical data of measured electric power demand  | *1   |
| cumulativeReactiveElectricEnergy             | GET           | object         | 0xCA     | 力測積算無効電力量(遅れ)計測値<br>Measurement data of reactive electric power consumption (lag) for power factor measurement                                      |      |
| cumulativeReactiveElectricEnergyAtEvery30Min | GET           | object         | 0xCB     | 定時力測積算無効電力量(遅れ)計測値<br>Measurement data of cumulative amount of reactive electric power consumption (lag) at fixed time for power factor measurement |      |

| Property Resource Name                       | Access Method | Data Type | EPC (EL) | プロパティ名称 (EL)   | Note |
|--|---------------|-----------|----------|--|------|
| cumulativeReactiveElectricEnergyLog          | GET           | object    | 0xCE     | 力測積算無効電力量<br>(遅れ)計測値履歴<br>Historical data of<br>measurement data of<br>cumulative amount of<br>reactive electric<br>power consumption<br>(lag) for power<br>factor measurement | *1   |
| fixedDate                                    | GET           | number    | 0xE0     | 確定日<br>Fixed date  |      |
| cumulativeActiveElectricEnergy               | GET           | object    | 0xE2     | 積算有効電力量計測値<br>Measured cumulative<br>amounts of active<br>electric energy  |      |
| cumulativeActiveElectricEnergyAtEvery30Min   | GET           | object    | 0xE3     | 定時積算有効電力量計<br>測値<br>Cumulative amounts of<br>active electric<br>energy at fixed time   |      |
| cumulativeActiveElectricEnergyForPowerFactor | GET           | object    | 0xE4     | 力測積算有効電力量計<br>測値<br>Measurement data of<br>cumulative amounts of<br>active electric<br>energy for power<br>factor measurement  |      |
| activeElectricEnergyLog                      | GET           | object    | 0xE7     | 積算有効電力量計測値<br>履歴<br>Historical data of<br>measured cumulative<br>amount of active<br>electric energy   | *1   |

\*1 queryあり

以下に示すDevice Description中のmaximumとmultipleOfの値は一例である。実際の値は、前述のNote to Serverを参考に設定すること。

#### Device Description

```
{
  "deviceType": "hvSmartElectricEnergyMeter",
  "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",
          "unit": "kW",
          "minimum": 0,
          "maximum": 9999999.9,
          "multipleOf": 0.1
        },
        {
          "type": "string",
          "enum": [
            "noData"
          ],
          "values": [
            {
              "value": "noData",
              "descriptions": {
                "ja": "No data",
                "en": "No data"
              },
              "edt": "0xFFFFFFFF"
            }
          ]
        }
      ]
    }
  },
  "note": {
    "ja": "EPC=0xC5, 0xD3, 0xD4 の値を乗算済みの値",
    "en": "The value is multiplied 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,
    "maximum": 9999999.9,
    "multipleOf": 0.1
  },
  "note": {
    "ja": "EPC=0xC7, 0xD3, 0xD4 の値を乗算済みの値",
    "en": "The value is multiplied 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",
        "format": "date-time"
      },
      "electricPower": {
        "descriptions": {
          "ja": "需要電力",
          "en": "Electric Power demand"
        },
        "oneOf": [
          {
            "type": "number",
            "unit": "kW",
            "minimum": 0,
            "maximum": 9999999.9,
            "multipleOf": 0.1
          },
          {
            "type": "string",
            "enum": [
              "noData"
            ],
            "values": [
              {
                "value": "noData",
                "descriptions": {
                  "ja": "No data",
                  "en": "No data"
                }
              }
            ],
            "edt": "0xFFFFFFFF"
          }
        ]
      }
    }
  }
}

```

```
    }
  ]
}
},
"note": {
  "ja": "EPC=0xC5, 0xD3, 0xD4 の値を乗算済みの値",
  "en": "The value is multiplied 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
    }
  },
  "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,
                "maximum": 9999999.9,
                "multipleOf": 0.1
            },
            {
                "type": "string",
                "enum": [
                    "noData"
                ],
                "values": [
                    {
                        "value": "noData",
                        "descriptions": {
                            "ja": "No data",
                            "en": "No data"
                        },
                        "edt": "0xFFFFFFFF"
                    }
                ]
            }
        ]
    }
}
]
}
}
],
"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 multiplied 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,
              "maximum": 9999999.9,
              "multipleOf": 0.1,
              "coefficient": [
                "0xCD",
                "0xD3",
                "0xD4"
              ]
            },
            {
              "type": "string",
              "enum": [
                "noData"
              ],
              "values": [
                {
                  "value": "noData",
                  "descriptions": {
                    "ja": "No data",
                    "en": "No data"
                  },
                  "edt": "0xFFFFFFFF"
                }
              ]
            }
          ]
        }
      }
    }
  }
}

```

```

    },
    "note": {
      "ja": "EPC=0xCD, 0xD3, 0xD4 の値を乗算済みの値",
      "en": "The value is multiplied 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,
          "maximum": 9999999.9,
          "multipleOf": 0.1,
          "coefficient": [
            "0xCD",
            "0xD3",
            "0xD4"
          ]
        },
        {
          "type": "string",
          "enum": [
            "noData"
          ],
          "values": [
            {
              "value": "noData",
              "descriptions": {
                "ja": "No data",
                "en": "No data"
              }
            }
          ]
        }
      ]
    }
  }
}

```

```

        "edt": "0xFFFFFFFF"
    }
  ]
}
},
"note": {
  "ja": "EPC=0xCD, 0xD3, 0xD4 の値を乗算済みの値",
  "en": "The value is multiplied 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": [
        {
          "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,
          "maximum": 9999999.9,
          "multipleOf": 0.1,
          "coefficient": [
            "0xCD",
            "0xD3",
            "0xD4"
          ]
        },
        {
          "type": "string",
          "enum": [
            "noData"
          ],
          "values": [
            {
              "value": "noData",
              "descriptions": {
                "ja": "No data",
                "en": "No data"
              },
              "edt": "0xFFFFFFFF"
            }
          ]
        }
      ]
    }
  ]
}

```

```
    }
  },
  "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 multiplied by the
value of EPC=0xCD, 0xD3 and 0xD4."
  }
},
"fixedDate": {
  "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,
            "maximum": 9999999.9,
            "multipleOf": 0.1,
            "coefficient": [
              "0xD3",
```

```

        "0xD4",
        "0xE6"
    ]
},
{
    "type": "string",
    "enum": [
        "noData"
    ],
    "values": [
        {
            "value": "noData",
            "descriptions": {
                "ja": "No data",
                "en": "No data"
            },
            "edt": "0xFFFFFFFF"
        }
    ]
}
]
}
}
},
"note": {
    "ja": "EPC=0xD3, 0xD4, 0xE6の値を乗算した値である",
    "en": "This value is multiplied 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,
        "maximum": 9999999.9,
        "multipleOf": 0.1,
        "coefficient": [
            "0xD3",
            "0xD4",
            "0xE6"
        ]
    },
    {
        "type": "string",
        "enum": [
            "noData"
        ],
        "values": [
            {
                "value": "noData",
                "descriptions": {
                    "ja": "No data",
                    "en": "No data"
                },
                "edt": "0xFFFFFFFF"
            }
        ]
    }
]
}
}
},
"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"
        },
    },
    "electricEnergy": {

```

```

    "descriptions": {
      "ja": "積算有効電力量",
      "en": "Cumulative amount of active electric energy"
    },
    "oneOf": [
      {
        "type": "number",
        "unit": "kWh",
        "minimum": 0,
        "maximum": 9999999.9,
        "multipleOf": 0.1,
        "coefficient": [
          "0xD3",
          "0xD4",
          "0xE6"
        ]
      },
      {
        "type": "string",
        "enum": [
          "noData"
        ],
        "values": [
          {
            "value": "noData",
            "descriptions": {
              "ja": "No data",
              "en": "No data"
            },
            "edt": "0xFFFFFFFF"
          }
        ]
      }
    ]
  },
  "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"
              },
              "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,  
    "maximum": 9999999.9,  
    "multipleOf": 0.1,  
    "coefficient": [  
      "0xD3",  
      "0xD4",  
      "0xE6"  
    ]  
  },  
  {  
    "type": "string",  
    "enum": [  
      "noData"  
    ],  
    "values": [  
      {  
        "value": "noData",  
        "descriptions": {  
          "ja": "No data",  
          "en": "No data"  
        },  
        "edt": "0xFFFFFFFF"  
      }  
    ]  
  }  
]  
}  
}  
}  
},  
"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 multiplied by the  
value of EPC=0xD3, 0xD4 and 0xE6."  
}  
}  
}
```

一般照明:generalLighting:0x0290

Properties

| Property Resource Name               | Access Method | Data Type | EPC (EL) | プロパティ名称 (EL)  | Note |
|--------------------------------------|---------------|-----------|----------|---|------|
| onTimerReservation                   | GET, PUT      | boolean   | 0x90     | ONタイマ予約設定<br>ON timer reservation setting                           |      |
| onTimerTime                          | GET, PUT      | string    | 0x91     | ONタイマ時刻設定値<br>ON timer setting                                      |      |
| offTimerReservation                  | GET, PUT      | boolean   | 0x94     | OFFタイマ予約設定<br>OFF timer reservation setting                         |      |
| timeOfOffTimer                       | GET, PUT      | string    | 0x95     | OFFタイマ時刻設定値<br>Time set by OFF timer                                |      |
| brightness                           | GET, PUT      | number    | 0xB0     | 照度レベル設定<br>Illuminance level  |      |
| lightColor                           | GET, PUT      | string    | 0xB1     | 光色設定<br>Light color setting   |      |
| brightnessLevelStep                  | GET, PUT      | string    | 0xB2     | 照度レベル段数設定<br>Brightness level step setting                          |      |
| lightColorLevelStep                  | GET, PUT      | string    | 0xB3     | 光色レベル段数設定<br>Light color step setting                               |      |
| maximumSpecifiableLevel              | GET           | object    | 0xB4     | 設定可能レベル最大値<br>Maximum specifiable values                            |      |
| maximumSettableLevelForNightLighting | GET           | object    | 0xB5     | 常夜灯設定可能レベル最大値<br>Maximum value of settable level for night lighting |      |
| operationMode                        | GET, PUT      | string    | 0xB6     | 点灯モード設定<br>Lighting mode setting                                    |      |
| brightnessLevelForMainLighting       | GET, PUT      | number    | 0xB7     | 通常灯モード時照度レベル設定<br>Brightness level setting for main lighting        |      |
| brightnessLevelStepForMainLighting   | GET, PUT      | string    | 0xB8     | 通常灯モード時照度レベル段数設定<br>Brightness level step setting for main lighting |      |

| Property Resource Name              | Access Method | Data Type | EPC (EL) | プロパティ名称 (EL) | Note  |
|-------------------------------------|---------------|-----------|----------|--------------|---|
| brightnessLevelForNightLighting     | GET, PUT      | number    | 0xB9     |              | 常夜灯モード時照度レベル設定<br>Brightness level setting for night lighting         |
| brightnessLevelStepForNightLighting | GET, PUT      | string    | 0xBB     |              | 通常灯モード時光色設定<br>Light color setting for main lighting                  |
| lightColorLevelStepForMainLighting  | GET, PUT      | string    | 0xBC     |              | 通常灯モード時光色レベル段数設定<br>Light color level step setting for main lighting  |
| lightColorLevelForNightLighting     | GET, PUT      | string    | 0xBD     |              | 常夜灯モード時光色設定<br>Light color setting for night lighting                 |
| lightColorLevelStepForNightLighting | GET, PUT      | string    | 0xBE     |              | 常夜灯モード時光色レベル段数設定<br>Light color level step setting for night lighting |
| autoMode                            | GET           | string    | 0xBF     |              | 自動モード時点灯モード状態<br>Lighting mode status in auto mode                    |
| rgb                                 | GET, PUT      | object    | 0xC0     |              | カラー灯モード時RGB設定<br>RGB setting for color lighting                       |

## Device Description

```
{
  "deviceType": "generalLighting",
  "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",
    "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"
  }
},
"brightness": {
  "epc": "0xB0",
  "descriptions": {
    "ja": "照度レベル設定",
    "en": "Illuminance level"
  },
  "writable": true,
  "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"
    ]
  },
  "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",
        "en": "Other"
    },
    "edt": "0x40"
}
]
}
},
"brightnessLevelStep": {
    "epc": "0xB2",
    "descriptions": {
        "ja": "照度レベル段数設定",
        "en": "Brightness level step setting"
    },
    "writable": true,
    "observable": false,
    "schema": {
        "type": "string"
    },
    "note": {
        "ja": "0x01～設定可能照度レベル最大値(暗～明)",
        "en": "From 0x01 to the maximum specifiable illuminance 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": {
          "brightness": {
            "descriptions": {
              "ja": "1Byte目:照度",
              "en": "Byte 1: illuminance"
            },
            "oneOf": [
              {
                "type": "number",
                "minimum": 1,
                "maximum": 255
              },
              {
                "type": "string",
                "enum": [
                  "notBrightness"
                ],
                "values": [
                  {
                    "value": "notBrightness",
                    "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"
        }
      ]
    ]
  }
}
}
}
},
"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": {
      "brightness": {
        "descriptions": {
          "ja": "1Byte目:照度",
          "en": "First byte: illuminance"
        },
      },
      "oneOf": [
        {
          "type": "number",
          "minimum": 1,
          "maximum": 255
        },
        {

```

```

        "type": "string",
        "enum": [
            "notBrightness"
        ],
        "values": [
            {
                "value": "notBrightness",
                "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": "Second byte: 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"
                }
            ]
        }
    ]
}
}
}
},
"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"
      }
    ]
  },
  "brightnessLevelForMainLighting": {
    "epc": "0xB7",
    "descriptions": {
      "ja": "通常灯モード時照度レベル設定",
      "en": "Brightness level setting for main lighting"
    },
    "writable": true,
    "observable": false,
    "schema": {
      "type": "number",
      "unit": "%",
    }
  }
}
```

```
    "minimum": 0,  
    "maximum": 100  
  }  
},  
"brightnessLevelStepForMainLighting": {  
  "epc": "0xB8",  
  "descriptions": {  
    "ja": "通常灯モード時照度レベル段数設定",  
    "en": "Brightness level step setting for main lighting"  
  },  
  "writable": true,  
  "observable": false,  
  "schema": {  
    "type": "string"  
  },  
  "note": {  
    "ja": "0x01~設定可能照度レベル最大値(暗~明)",  
    "en": "Brightness level step setting for night lighting (dark to bright)"  
  }  
},  
"brightnessLevelForNightLighting": {  
  "epc": "0xB9",  
  "descriptions": {  
    "ja": "常夜灯モード時照度レベル設定",  
    "en": "Brightness level setting for night lighting"  
  },  
  "writable": true,  
  "observable": false,  
  "schema": {  
    "type": "number",  
    "unit": "%",  
    "minimum": 0,  
    "maximum": 100  
  },  
  "note": {  
    "ja": "0x00-0x64",  
    "en": "0x00-0x64"  
  }  
},  
"brightnessLevelStepForNightLighting": {  
  "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",
          "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": {  
          "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": {
          "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,
        "multipleOf": 1
      },
      "blue": {
        "descriptions": {

```



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

電気自動車充電器:evCharger:0x02A1

Note to Server: ECHONET LiteのProperty「車両接続・充電可否状態 (EPC=0xC7)」は、ECHONET LiteでデータをGETする前に「車両接続確認 (EPC=0xCD)」をSETする必要がある。サーバがECHONET Lite Web APIでGET:chargeStatusを受信した場合、サーバはECHONET Liteで「車両接続確認」をSETしたのち「車両接続・充電可否状態」をGETする。

Properties

| Property Resource Name                 | Access Method | Data Type | EPC (EL) | プロパティ名称 (EL)  | Note |
|--|---------------|-----------|----------|---|------|
| ratedChargeElectricPower               | GET           | number    | 0xC5     | 定格充電能力<br>Rated charge capacity   |      |
| chargeStatus                           | GET           | string    | 0xC7     | 車両接続・充電可否状態<br>Vehicle connection and chargeable status                   |      |
| minimumAndMaximumChargingElectricPower | GET           | object    | 0xC8     | 最小最大充電電力値<br>Minimum/maximum charging electric energy                     |      |
| minimumAndMaximumChargingCurrent       | GET           | object    | 0xCA     | 最小最大充電電流値<br>Minimum/maximum charging electric current                    |      |
| equipmentType                          | GET           | string    | 0xCC     | 充電器タイプ<br>Charger type  |      |
| chargeableCapacity                     | GET           | number    | 0xCE     | 車載電池の充電可能容量値<br>Chargeable capacity of vehicle mounted battery            |      |
| remainingChargeableCapacity            | GET           | number    | 0xCF     | 車載電池の充電可能残容量値<br>Remaining chargeable capacity of vehicle mounted battery |      |
| usedCapacity1                          | GET           | number    | 0xD0     | 車載電池の使用容量値1<br>Used capacity of vehicle mounted battery 1                 |      |
| ratedVoltage                           | GET           | number    | 0xD2     | 定格電圧<br>Rated voltage   |      |
| instantaneousElectricPower             | GET           | number    | 0xD3     | 瞬時充電電力計測値<br>Measured instantaneous charging electric energy              |      |
| cumulativeChargingElectricEnergy       | GET           | number    | 0xD8     | 積算充電電力量計測値<br>Measured cumulative amount of charging electric energy      |      |
| operationMode                          | GET,<br>PUT   | string    | 0xDA     | 運転モード設定<br>Operation mode setting   |      |

| Property Resource Name       | Access Method | Data Type | EPC (EL) | プロパティ名称 (EL)  | Note |
|------------------------------|---------------|-----------|----------|---|------|
| remainingCapacity1           | GET           | number    | 0xE2     | 車載電池の電池残容量1<br>Remaining stored electricity of vehicle mounted battery1 |      |
| remainingCapacity3           | GET           | number    | 0xE4     | 車載電池の電池残容量3<br>Remaining stored electricity of vehicle mounted battery3 |      |
| vehicleId                    | GET           | string    | 0xE6     | 車両ID<br>Vehicle ID  |      |
| targetChargingElectricEnergy | GET, PUT      | number    | 0xE7     | 充電量設定値<br>Charging amount setting                                       |      |
| chargingElectricPower        | GET, PUT      | number    | 0xEB     | 充電電力設定値<br>Charging electric energy setting                             |      |
| chargingCurrent              | GET, PUT      | number    | 0xED     | 充電電流設定値<br>Charging current setting                                     |      |

#### Actions

| Property Resource Name                | Access Method | EPC (EL) | プロパティ名称 (EL)   | Note |
|---------------------------------------|---------------|----------|--|------|
| resetCumulativeChargingElectricEnergy | POST          | 0xD9     | 積算充電電力量リセット設定<br>Cumulative amount of charging electric energy reset setting |      |

#### Device Description

```
{
  "deviceType": "evCharger",
  "eoj": "0x02A1",
  "descriptions": {
    "ja": "電気自動車充電器",
    "en": "EV Charger"
  },
  "properties": {
    "ratedChargeElectricPower": {
      "epc": "0x05",
      "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
    }
},
"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"
      },
      "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",
      "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"
    },
    {
      "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",
    "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",
      "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
  }
},
"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",
    "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."  
  }  
}  
}
```

## 拡張照明システム: enhancedLightingSystem: 0x02A4

### Properties

| Property Resource Name         | Access Method | Data Type      | EPC (EL) | プロパティ名称 (EL)  | Note |
|--------------------------------|---------------|----------------|----------|---|------|
| brightness                     | GET, PUT      | number         | 0xB0     | 照度レベル設定<br>Illuminance level setting                        |      |
| sceneId                        | GET, PUT      | number, string | 0xC0     | シーン制御設定<br>Scene control setting                            |      |
| maximumNumberOfSceneId         | GET           | number         | 0xC1     | シーン制御設定可能数<br>Number that can assign scene control setting. |      |
| powerConsumptionRateList       | GET           | array          | 0xC2     | 電力消費率リスト<br>Power consumption rate list                     |      |
| powerConsumptionAtFullLighting | GET           | number         | 0xC3     | 全灯時消費電力<br>Power consumption when fully lighted             |      |
| powerConsumptionWillBeSaved    | GET           | number         | 0xC4     | 節電可能消費電力<br>Possible power savings                          |      |
| powerConsumptionLimit          | GET, PUT      | number, string | 0xC5     | 消費電力制限設定<br>Power consumption limit setting                 |      |
| automaticOperationControlling  | GET, PUT      | boolean        | 0xC6     | 自動動作制御設定<br>Automatic operation controlling setting         |      |
| fadingControlChangeTime        | GET, PUT      | number         | 0xC7     | フェード制御変化時間設定<br>Fading control change time setting          |      |

### Device Description

```
{
  "deviceType": "enhancedLightingSystem",
  "eoj": "0x02A4",
  "descriptions": {
    "ja": "拡張照明システム",
    "en": "Extended lighting system"
  },
  "properties": {
    "brightness": {
      "epc": "0xB0",
      "descriptions": {
        "ja": "照度レベル設定",
        "en": "Illuminance 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",
          "minimum": 1,
          "maximum": 253
        },
        {
          "type": "string",
          "enum": [
            "notSet"
          ],
          "values": [
            {
              "value": "notSet",
              "descriptions": {
                "ja": "未設定",
                "en": "Not set"
              },
              "edt": "0x00"
            }
          ]
        }
      ]
    }
  },
  "note": {
    "ja": "最大値はmaxNumberOfsceneControlの値",
    "en": "Maximum value is the value of maxNumberOfsceneControl."
  }
},
"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": {
```



```

        "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": {
        "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"
        },
        {
          "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
    }
  }
}
```

## コントローラ:controller:0x05FF

Note to Client: コントローラでは「APPENDIX ECHONET機器オブジェクト詳細規定」における必須プロパティにのみ対応している。

### Properties

| Property        | Resource Name | Access Method | Data Type | EPC (EL) | プロパティ名称 (EL)                          | Note |
|-----------------|---------------|---------------|-----------|----------|---------------------------------------|------|
| controllerId    |               | GET           | string    | 0xC0     | コントローラID<br>Controller ID             |      |
| numberOfDevices |               | GET           | number    | 0xC1     | 管理台数<br>Number of devices controlled  |      |
| deviceList      |               | GET           | array     | 0xC2     | 機器情報リスト<br>List of device information | *1   |

\*1 EPC=0xC2, C3, C4, C6, C7に対応した値をobjectのarrayで表現する

### Device Description

```
{
  "deviceType": "controller",
  "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": {
        "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",
        "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."
}
}
}
```

## 換気扇:ventilationFan:0x0133

### Properties

| Property Resource Name        | Access Method | Data Type         | EPC(EL) | プロパティ名称(EL) | Note                                   |
|-------------------------------|---------------|-------------------|---------|-------------|--|
| airFlowLevel                  | GET, PUT      | number,<br>string | 0xA0    | 換気風量設定      | Set value of ventilation air flow rate |
| automaticVentilationOperation | GET, PUT      | boolean           | 0xBF    | 換気自動設定      | Ventilation Auto setting               |

### Device Description

```
{
  "deviceType": "ventilationFan",
  "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"
              }
            ]
          }
        ]
      }
    }
  }
}
```

```
    }
  ]
}
},
"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"
      }
    ]
  }
}
}
}
```

## 空気清浄器:airCleaner:0x0135

### Properties

| Property Resource Name         | Access Method | Data Type         | EPC (EL) | プロパティ名称 (EL)                                       | Note |
|--------------------------------|---------------|-------------------|----------|--|------|
| airFlowLevel                   | GET, PUT      | number,<br>string | 0xA0     | 風量設定<br>Air flow rate setting                      |      |
| airPollutionDetection          | GET           | boolean           | 0xC0     | 空気汚れ検知状態<br>Air pollution detection status         |      |
| smokeDetection                 | GET           | boolean           | 0xC1     | 煙 (タバコ) 検知状態<br>Smoke (cigarette) detection status |      |
| opticalCatalystOperationStatus | GET, PUT      | boolean           | 0xC2     | 光触媒動作設定<br>Optical catalyst operation setting      |      |
| filterChangeNotice             | GET           | boolean           | 0xE1     | フィルタ交換通知状態<br>Filter change notice                 |      |

### Device Description

```
{
  "deviceType": "airCleaner",
  "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"
            ]
          }
        ]
      }
    }
  }
}
```

```

        ],
        "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."
  },
  "edt": "0x41"
},
{
  "value": false,
  "descriptions": {
    "ja": "煙 (タバコ) 検知無",
    "en": "Smoke (cigarette) detection status not found."
  },
  "edt": "0x42"
}
]
}
},
"opticalCatalystOperationStatus": {
  "epc": "0x02",
  "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"  
          },  
          "edt": "0x41"  
        },  
        {  
          "value": false,  
          "descriptions": {  
            "ja": "フィルタ交換時期通知無",  
            "en": "Not found"  
          },  
          "edt": "0x42"  
        }  
      ]  
    }  
  }  
}
```

業務用パッケージエアコン室内機（設備用を除く）:commercialAirConditionerIndoorUnit:0x0156

## Properties

| Property Resource Name       | Access Method | Data Type      | EPC (EL) | プロパティ名称 (EL)  | Note |
|------------------------------|---------------|----------------|----------|---|------|
| thermostatState              | GET           | boolean        | 0xAC     | サーモ状態<br>Thermostat state                                   |      |
| automaticOperationModeStatus | GET           | string         | 0xAE     | 自動運転時運転モード状態<br>Current function (automatic operation mode) |      |
| operationMode                | GET, PUT      | string         | 0xB0     | 運転モード設定<br>Operation mode setting                           |      |
| targetTemperature            | GET, PUT      | number         | 0xB3     | 温度設定値<br>Temperature setting                                |      |
| roomTemperature              | GET           | number, string | 0xBB     | 室内機温度計測値<br>Measured indoor unit temperature                |      |
| groupInformation             | GET           | number, string | 0xCA     | グループ情報<br>Group information                                 |      |
| powerConsumption             | GET           | string         | 0xDB     | 室内機消費電力範囲<br>Power consumption range for indoor units       |      |
| groupDeviceList              | GET           | array          | -        | グループ内デバイスリスト<br>List of devices in group                    | *1   |

\*1 グループ情報の "groupDeviceList" は、WebAPIのdevicesで管理されている機器のIdおよびその "deviceType" を記述

## Device Description

```
{
  "deviceType": "commercialAirConditionerIndoorUnit",
  "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,
    "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"
        },
        "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"
    },
    "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",
          "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": [
          "none"
        ],
        "values": [
          {
            "value": "none",
            "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",
      "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,
  "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'."
}
}
}
}

```

業務用パッケージエアコン室外機 (設備用を除く):commercialAirConditionerOutdoorUnit:0x0157

## Properties

| Property Resource Name            | Access Method | Data Type      | EPC(EL) | プロパティ名称(EL)  | Note |
|-----------------------------------|---------------|----------------|---------|--|------|
| specialState                      | GET           | boolean        | 0xAB    | 特殊状態<br>Special state  |      |
| ratedPowerConsumption             | GET           | object         | 0xB8    | 室外機定格消費電力値<br>Rated power consumption of outdoor unit                  |      |
| outdoorTemperature                | GET           | number, string | 0xBE    | 室外機温度計測値<br>Measured outdoor unit temperature                          |      |
| groupInformation                  | GET           | number, string | 0xCA    | グループ情報<br>Group information  |      |
| powerConsumption                  | GET           | number         | 0xDB    | 室外機消費電力計測値<br>Measured power consumption of outdoor unit               |      |
| powerConsumptionWillBeSaved       | GET           | number         | 0xDD    | 室外機節電可能消費電力<br>Possible power savings for outdoor units                |      |
| powerConsumptionLimit             | GET, PUT      | number, string | 0xDE    | 室外機消費電力制限設定<br>Settings restricting power consumption of outdoor units |      |
| restrictedMinimumPowerConsumption | GET           | number         | 0xDF    | 室外機抑制最低消費電力<br>Minimum power consumption for restricted outdoor unit   |      |
| groupDeviceList                   | GET           | array          | -       | グループ内デバイスリスト<br>List of devices in group                               | *1   |

\*1 グループ情報の "groupDeviceList" は、WebAPIのdevicesで管理されている機器のIdおよびその"deviceType"を記述

## Device Description

```
{
  "deviceType": "commercialAirConditionerOutdoorUnit",
  "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": {
```

```
    "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"
          },
          "edt": "0xFFFFFFFF"
        }
      ]
    }
  ],
  "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": "0xFFFFFFFF"
          }
        ]
      }
    ]
  }
},
"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"
    ],
    "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": [
          "none"
        ],
        "values": [
          {
            "value": "none",
            "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
    }
  },
  "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": {
      "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'."
  }
}
}
```

電動雨戸・シャッター:electricRainDoor:0x0263

Properties

| Property Name            | Resource | Access Method | Data Type | EPC (EL) | プロパティ名称 (EL) | Note   |
|--------------------------|----------|---------------|-----------|----------|--------------|--|
| faultDescription         |          | GET           | string    | 0x89     |              | 異常内容 (復帰可能な異常)<br>Fault description (Recoverable faults) |
| timerOperationMode       |          | GET, PUT      | boolean   | 0x90     |              | タイマ動作設定<br>Timer operation setting                       |
| openingSpeed             |          | GET, PUT      | string    | 0xD0     |              | 開速度設定<br>Opening speed setting                           |
| closingSpeed             |          | GET, PUT      | string    | 0xD1     |              | 閉速度設定<br>Closing speed setting                           |
| operationTime            |          | GET, PUT      | number    | 0xD2     |              | 動作時間設定値<br>Operation time                                |
| openCloseOperation       |          | GET, PUT      | string    | 0xE0     |              | 開閉動作設定<br>Open/close operation setting                   |
| degreeOfOpening          |          | GET, PUT      | number    | 0xE1     |              | 開度レベル設定<br>Degree-of-opening setting                     |
| blindAngle               |          | GET, PUT      | number    | 0xE2     |              | ブラインド角度設定値<br>Blind angle setting                        |
| openCloseSpeed           |          | GET, PUT      | string    | 0xE3     |              | 開閉速度設定<br>Opening/closing speed setting                  |
| electricLock             |          | GET, PUT      | boolean   | 0xE5     |              | 電気錠設定<br>Electric lock setting                           |
| remoteOperation          |          | GET           | boolean   | 0xE8     |              | 遠隔操作設定状態<br>Remote operation setting status              |
| selectiveDegreeOfOpening |          | GET, PUT      | string    | 0xE9     |              | 選択開度動作設定<br>Selective degree-of-opening setting          |
| openCloseStatus          |          | GET           | string    | 0xEA     |              | 開閉状態<br>Open/closed status                               |
| slitDegreeOfOpening      |          | GET, PUT      | number    | 0xED     |              | スリット開度設定<br>Slit degree-of-opening                       |
| oneTimeOpeningSpeed      |          | GET, PUT      | string    | 0xEE     |              | ワンタイム開速度設定<br>One-time opening speed setting             |
| oneTimeClosingSpeed      |          | GET, PUT      | string    | 0xEF     |              | ワンタイム閉速度設定<br>One-time closing speed setting             |



## Device Description

```
{
  "deviceType": "electricRainDoor",
  "eoj": "0x0263",
  "descriptions": {
    "ja": "電動雨戸・シャッター",
    "en": "Electrically operated rain sliding door/shutter"
  },
  "properties": {
    "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",
    "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"
    },
    {
      "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,
  "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": "%",
        "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"
      }
    ]
  },
  "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"
      }
    ]
  }
},
"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": {
    "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"
      },
      "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": {
            "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",  
      "en": "None"  
    },  
    "edt": "0x44"  
  }  
]  
}  
}
```

電気温水器:electricWaterHeater:0x026B

Properties

| Property Resource Name                  | Access Method | Data Type         | EPC (EL) | プロパティ名称 (EL)  | Note |
|---|---------------|-------------------|----------|---|------|
| onTimerReservation                      | GET,<br>PUT   | boolean           | 0x90     | ONタイマ予約設定<br>ON timer setting   |      |
| onTimerTime                             | GET,<br>PUT   | string            | 0x91     | ONタイマ時刻設定値<br>ON timer setting  |      |
| automaticWaterHeating                   | GET,<br>PUT   | string            | 0xB0     | 沸き上げ自動設定<br>Automatic water heating setting                                     |      |
| automaticWaterHeatingTemperatureControl | GET,<br>PUT   | boolean           | 0xB1     | 沸き上げ湯温自動設定<br>Automatic water temperature control setting                       |      |
| waterHeatingStatus                      | GET           | boolean           | 0xB2     | 沸き上げ中状態<br>Water heater status  |      |
| targetWaterHeatingTemperature           | GET,<br>PUT   | number,<br>string | 0xB3     | 沸き上げ湯温設定値<br>Water heating temperature setting                                  |      |
| heatingStopDays                         | GET,<br>PUT   | number,<br>string | 0xB4     | 手動沸き上げ停止日数設定値<br>Manual water heating stop days setting                         |      |
| relativeTimeHeatingOff                  | GET,<br>PUT   | string            | 0xB5     | 手動沸き上げOFFタイマ相対時間設定値<br>Relative time setting value for manual water heating OFF |      |
| tankOperationMode                       | GET,<br>PUT   | string            | 0xB6     | タンク運転モード設定<br>Tank operation mode setting                                       |      |
| daytimeReheatingPermission              | GET,<br>PUT   | boolean           | 0xC0     | 昼間沸き増し許可設定<br>Daytime reheating permission setting                              |      |
| tankWaterTemperature                    | GET           | number            | 0xC1     | 温水器湯温計測値<br>Measured temperature of water in water heater                       |      |
| alarmStatus                             | GET           | object            | 0xC2     | 警報発生状態<br>Alarm status  |      |

| Property Resource Name              | Access Method | Data Type         | EPC (EL) | プロパティ名称 (EL)  | Note |
|-------------------------------------|---------------|-------------------|----------|---|------|
| hotWaterSupplyStatus                | GET           | boolean           | 0xC3     | 給湯中状態<br>Hot water supply status  |      |
| relativeTimeKeepingTemperature      | GET,<br>PUT   | string            | 0xC4     | 風呂保温運転相対時間設定値<br>Relative time setting for keeping bath temperature                 |      |
| energyShiftParticipation            | GET,<br>PUT   | boolean           | 0xC7     | エネルギーシフト参加状態<br>Participation in energy shift                                       |      |
| standardTimeToStartHeating          | GET           | number            | 0xC8     | 沸き上げ開始基準時刻<br>Standard time to start heating  |      |
| numberOfEnergyShifts                | GET           | number            | 0xC9     | エネルギーシフト回数<br>Number of energy shifts   |      |
| waterHeatingShiftTime1              | GET,<br>PUT   | string,<br>string | 0xCA     | 昼間沸き上げシフト時刻1<br>Daytime heating shift time 1  |      |
| estimatedElectricEnergyAtShiftTime1 | GET           | object            | 0xCB     | 昼間沸き上げシフト時刻1での沸き上げ予測電力量<br>Expected electric energy at daytime heating shift time 1 |      |
| electricEnergyConsumptionRate1      | GET           | object            | 0xCC     | 時間あたり消費電力量1<br>Consumption of electric energy per hour 1                            |      |
| waterHeatingShiftTime2              | GET,<br>PUT   | string,<br>string | 0xCD     | 昼間沸き上げシフト時刻2<br>Daytime heating shift time 2  |      |
| estimatedElectricEnergyAtShiftTime2 | GET           | object            | 0xCE     | 昼間沸き上げシフト時刻2での沸き上げ予測電力量<br>Expected electric energy at daytime heating shift time 2 |      |
| electricEnergyConsumptionRate2      | GET           | object            | 0xCF     | 時間あたり消費電力量2<br>Consumption of electric energy per hour 2                            |      |
| targetSuppliedWaterTemperature      | GET,<br>PUT   | number            | 0xD1     | 給湯温度設定値<br>Temperature of supplied water setting                                    |      |

| Property Resource Name       | Access Method | Data Type | EPC (EL) | プロパティ名称 (EL)  | Note |
|------------------------------|---------------|-----------|----------|---|------|
| targetBathWaterTemperature   | GET,<br>PUT   | number    | 0xD3     | 風呂温度設定値<br>Bath water temperature setting                                     |      |
| bathWaterVolume4             | GET,<br>PUT   | number    | 0xD4     | 風呂湯量設定4<br>Bath water volume setting4   |      |
| maximumAllowableWaterVolume4 | GET           | number    | 0xD5     | 風呂湯量設定4設定可能最大レベル<br>Bath water volume setting4 maximum settable level         |      |
| volume                       | GET,<br>PUT   | number    | 0xD6     | 音量設定値<br>Volume setting   |      |
| mute                         | GET,<br>PUT   | boolean   | 0xD7     | ミュート設定<br>Mute setting  |      |
| remainingWaterVolume         | GET           | number    | 0xD8     | 給湯可能湯量値<br>Remaining hot water volume   |      |
| surplusPowerPrediction       | GET,<br>PUT   | object    | 0xD9     | 余剰電力量予測値<br>Surplus electric energy power prediction value                    |      |
| winterRatedPower             | GET           | number    | 0xDB     | 冬季H/Pユニット定格消費電力<br>Rated power consumption of H/P unit in wintertime          |      |
| betweenSeasonRatedPower      | GET           | number    | 0xDC     | 中間期H/Pユニット定格消費電力<br>Rated power consumption of H/P unit in in-between seasons |      |
| summerRatedPower             | GET           | number    | 0xDD     | 夏季H/Pユニット定格消費電力<br>Rated power consumption of H/P unit in summertime          |      |
| targetWaterHeatingVolume     | GET,<br>PUT   | number    | 0xE0     | 沸き上げ湯量設定値<br>Bath water volume setting  |      |
| remainingWater               | GET           | number    | 0xE1     | 残湯量計測値<br>Measured amount of water remaining in tank                          |      |

| Property Resource Name     | Access Method | Data Type | EPC (EL) | プロパティ名称 (EL)  | Note |
|----------------------------|---------------|-----------|----------|---|------|
| tankCapacity               | GET           | number    | 0xE2     | タンク容量値<br>Tank capacity   |      |
| automaticBathOperation     | GET,<br>PUT   | boolean   | 0xE3     | 風呂自動モード設定<br>Automatic Bath Water Heating Mode Setting                      |      |
| bathReheatingOperation     | GET,<br>PUT   | boolean   | 0xE4     | 手動風呂追い焚き動作設定<br>Manual bath reheating operation setting                     |      |
| bathHotWaterAddition       | GET,<br>PUT   | boolean   | 0xE5     | 手動風呂足し湯動作設定<br>Manual bath hot water addition function setting              |      |
| bathLukewarmWaterFunction  | GET,<br>PUT   | boolean   | 0xE6     | 手動風呂ぬるめ動作設定<br>Manual lukewarm water temperature lowering function setting. |      |
| bathWaterVolume1           | GET,<br>PUT   | number    | 0xE7     | 風呂湯量設定1<br>Bath water volume setting 1                                      |      |
| bathWaterVolume2           | GET,<br>PUT   | number    | 0xE8     | 風呂湯量設定2<br>Bath water volume setting 2                                      |      |
| bathroomPriority           | GET           | boolean   | 0xE9     | 浴室優先設定<br>Bathroom priority setting   |      |
| bathOperationStatusMonitor | GET           | string    | 0xEA     | 風呂動作状態監視<br>Bath Operation Status Monitor                                   |      |
| bathWaterVolume3           | GET,<br>PUT   | number    | 0xEE     | 風呂湯量設定3<br>Bath water volume setting 3                                      |      |

## Device Description

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{
  "deviceType": "electricWaterHeater",
  "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."
    }
  },
  "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"
      },
      {
        "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": [
          "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": [
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                "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",
      "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": [
        {
          "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"
    },
    {
      "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": {
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            "en": "Alarm"
        },
        "edt": "0x01"
    },
    {
        "value": true,
        "descriptions": {
            "ja": "正常",
            "en": "No Alarm"
        },
        "edt": "0x00"
    }
]
}
}
},
"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"
    },

```



```
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    "observable": false,
    "schema": {
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      "format": "time"
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  },
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    "en": "Number of seconds is ignored."
  }
},
"energyShiftParticipation": {
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  "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,
        "descriptions": {
          "ja": "参加",
          "en": "Participation"
        },
        "edt": "0x01"
      },
      {
        "value": false,
        "descriptions": {
          "ja": "不参加",
          "en": "Non Participation"
        },
        "edt": "0x00"
      }
    ]
  }
},
"standardTimeToStartHeating": {
  "epc": "0x08",
  "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"
  }
},
"numberOfEnergyShifts": {
  "epc": "0x09",
  "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": [
      {
        "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": {
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      "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(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"
        },
        "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": {
                "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"
                        },
                        "edt": "0x0A"
                    },
                    {
                        "value": "at1100",
                        "descriptions": {
                            "ja": "11時",
                            "en": "11:00"
                        },
                        "edt": "0x0B"
                    }
                ],
            }
        ],
    }
}

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```
    "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"
  }
]
},
{
  "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
      }
    }
  }
},
```



```
"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": {
  "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
    }
  },
  "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": {

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    "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": {
          "type": "number",
          "minimum": 1,
          "maximum": 12
        },
        "day": {
          "type": "number",
          "minimum": 1,
          "maximum": 31
        },
        "hour": {
          "type": "number",
          "minimum": 0,
          "maximum": 23
        },
        "surplusEnergyPredictionValue": {
          "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"
                  }
                ]
              }
            ]
          }
        }
      }
    }
  ]
}

```

```

    }
  },
  "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",

```

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    "descriptions": {
      "ja": "沸き上げ湯量設定値",
      "en": "Bath water volume setting"
    },
    "writable": true,
    "observable": false,
    "schema": {
      "type": "number",
      "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"
  }
]
},
"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": {
```

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    "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"
      }
    ]
  },
  "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": "足し湯",
            "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"
        }
      ]
    }
  },
  "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
    }
  },
  "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"
          },
          "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
    }
  }
}

```

```
}  
}  
}
```

電気錠:electricLock:0x026F

Properties

| Property Name       | Resource | Access Method | Data Type | EPC (EL) | プロパティ名称 (EL)                             | Note |
|---------------------|----------|---------------|-----------|----------|--|------|
| mainElectricLock    |          | GET, PUT      | boolean   | 0xE0     | 施錠設定1<br>Lock setting1                   |      |
| subElectricLock     |          | GET, PUT      | boolean   | 0xE1     | 施錠設定2<br>Lock setting 2                  |      |
| doorGuardLocked     |          | GET           | boolean   | 0xE2     | ドアガード施錠状態<br>Lock status of door guard   |      |
| doorOpened          |          | GET           | boolean   | 0xE3     | 扉開閉状態<br>Door open/close status          |      |
| occupant            |          | GET           | boolean   | 0xE4     | 在室・不在状態<br>Occupant/ non-occupant status |      |
| alarmStatus         |          | GET           | string    | 0xE5     | 警報状態<br>Alarm status                     |      |
| autoLockMode        |          | GET, PUT      | boolean   | 0xE6     | 自動施錠モード設定<br>Auto lock mode setting      |      |
| replaceBatteryLevel |          | GET, PUT      | boolean   | 0xE7     | 電池残量状態<br>Battery level                  |      |

Device Description

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

浴室暖房乾燥機:bathroomHeaterDryer:0x0273

Properties

| Property Resource Name | Access Method | Data Type      | EPC (EL) | プロパティ名称 (EL)   | Note |
|------------------------|---------------|----------------|----------|--|------|
| onTimerReservation1    | GET, PUT      | boolean        | 0x90     | ONタイマ予約設定1<br>On timer reservation setting 1         |      |
| timeOfOnTimer          | GET, PUT      | string         | 0x91     | ONタイマ時刻設定値<br>On timer setting value                 |      |
| timeOfOffTimer         | GET, PUT      | string         | 0x92     | ONタイマ相対時間設定値<br>On relative timer setting value      |      |
| offTimerReservation    | GET, PUT      | boolean        | 0x94     | OFFタイマ予約設定<br>Off timer reservation setting          |      |
| relativeTimeOfOnTimer  | GET, PUT      | string         | 0x95     | OFFタイマ時刻設定値<br>OFF timer setting value               |      |
| relativeTimeOfOffTimer | GET, PUT      | string         | 0x96     | OFFタイマ相対時間設定値<br>Off relative timer setting value    |      |
| operationSetting       | GET, PUT      | string         | 0xB0     | 運転設定<br>Operation setting                            |      |
| ventilationSetting     | GET, PUT      | number, string | 0xB1     | 換気運転設定<br>Ventilation operation setting              |      |
| bathroomPrewarming     | GET, PUT      | number, string | 0xB2     | 入浴前予備暖房運転設定<br>Bathroom prewarming operation setting |      |
| bathroomHeating        | GET, PUT      | number, string | 0xB3     | 入浴中暖房運転設定<br>Bathroom heating operation setting      |      |
| bathroomDrying         | GET, PUT      | number, string | 0xB4     | 乾燥運転設定<br>Bathroom drying operation setting          |      |
| coolAirCirculation     | GET, PUT      | number, string | 0xB5     | 涼風運転設定<br>Cool air circulation operation setting     |      |
| mistSauna              | GET, PUT      | number, string | 0xB6     | ミストサウナ運転設定<br>Mist sauna operation setting           |      |
| waterMist              | GET, PUT      | number, string | 0xB7     | 水ミスト運転設定<br>Water mist operation setting             |      |

| Property Resource Name     | Access Method | Data Type      | EPC (EL) | プロパティ名称 (EL)   | Note |
|----------------------------|---------------|----------------|----------|--|------|
| bathroomHumidity           | GET           | number         | 0xBA     | 浴室内相対湿度計測値<br>Measured value of bathroom relative humidity |      |
| bathroomTemperature        | GET           | number         | 0xBB     | 浴室内温度計測値<br>Measured value of bathroom temperature         |      |
| ventilationAirFlowLevel    | GET, PUT      | number, string | 0xC2     | 換気風量設定<br>Ventilation air flow rate setting                |      |
| filterCleaningReminderSign | GET, PUT      | boolean        | 0xCF     | フィルタサイン設定<br>Filter cleaning reminder sign setting         |      |
| humanBodyDetectionStatus   | GET           | boolean        | 0xE0     | 人体検知状態<br>Human body detection status                      |      |
| onTimerReservation2        | GET, PUT      | string         | 0xE1     | ONタイマ予約設定2<br>On timer reservation setting 2               |      |

## Device Description

```
{
  "deviceType": "bathroomHeaterDryer",
  "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": {
  "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"
        }
      ]
    }
  ],
  "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",
          "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"
}
]
}
},
"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
      },
      {
        "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"
                    },
                    {
                        "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"
    },
    "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"
                    ],
                    "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"
                    }
                ]
            }
        ]
    }
}
]

```

```

    }
  ]
}
},
"bathroomHumidity": {
  "epc": "0xBA",
  "descriptions": {
    "ja": "浴室内相对湿度計測値",
    "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",
        "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": {
      "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"
  },
  {
    "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"
  }
]
}
}
}
```



住宅用太陽光発電:pvPowerGeneration:0x0279

Properties

| Property Resource Name     | Access Method | Data Type         | EPC (EL) | プロパティ名称 (EL)  | Note |
|----------------------------|---------------|-------------------|----------|---|------|
| outputPowerControl1        | GET,<br>PUT   | number            | 0xA0     | 出力制御設定1<br>Output power control setting 1                                   |      |
| outputPowerControl2        | GET,<br>PUT   | number            | 0xA1     | 出力制御設定2<br>Output power control setting 2                                   |      |
| surplusPurchaseControl     | GET,<br>PUT   | boolean           | 0xA2     | 余剰買取制御機能設定<br>Function to control purchase surplus electricity setting      |      |
| outputPowerControlSchedule | GET           | object            | 0xB0     | 出力制御スケジュール<br>Output power controlling schedule                             |      |
| updateScheduleDateAndTime  | GET           | string,<br>string | 0xB1     | 次回アクセス日時<br>Next access date and time                                       |      |
| surplusPurchaseControlType | GET           | boolean           | 0xB2     | 余剰買取制御機能タイプ<br>Function to control the type of surplus electricity purchase |      |
| outputPowerChangeTime      | GET           | number            | 0xB3     | 出力変化時間設定値<br>Output power change time setting value                         |      |
| upperLimitClip             | GET           | number,<br>string | 0xB4     | 上限クリップ設定値<br>Upper limit clip setting value                                 |      |
| operatingPowerFactor       | GET           | number            | 0xC0     | 運転力率設定値<br>Operation power factor setting value                             |      |
| contractType               | GET,<br>PUT   | string            | 0xC1     | FIT契約タイプ<br>FIT contract type   |      |
| selfConsumptionType        | GET           | string            | 0xC2     | 自家消費タイプ<br>Self-consumption type  |      |
| approvedCapacity           | GET           | number,<br>string | 0xC3     | 設備認定容量<br>Capacity approved by equipment                                    |      |

| Property Resource Name                    | Access Method | Data Type      | EPC (EL) | プロパティ名称 (EL)  | Note |
|---|---------------|----------------|----------|---|------|
| conversionCoefficient                     | GET           | number         | 0xC4     | 換算係数<br>Conversion coefficient  |      |
| powerSystemInterconnectionStatus          | GET           | string         | 0xD0     | 系統連系状態<br>System-interconnected type                                    |      |
| outputPowerRestraintStatus                | GET           | string         | 0xD1     | 出力抑制状態<br>Output power restraint status                                 |      |
| instantaneousElectricPowerGeneration      | GET           | number         | 0xE0     | 瞬時発電電力計測値<br>Measured instantaneous amount of electricity generated     |      |
| cumulativeElectricEnergyOfGeneration      | GET           | number         | 0xE1     | 積算発電電力量計測値<br>Measured cumulative amount of electric energy generated   |      |
| cumulativeElectricEnergySold              | GET           | number         | 0xE3     | 積算売電電力量計測値<br>Measured cumulative amount of electric energy sold        |      |
| powerGenerationOutputLimit1               | GET, PUT      | number         | 0xE5     | 発電電力制限設定1<br>Power generation output limit setting 1                    |      |
| powerGenerationOutputLimit2               | GET, PUT      | number         | 0xE6     | 発電電力制限設定2<br>Power generation output limit setting 2                    |      |
| limitElectricEnergySold                   | GET, PUT      | number         | 0xE7     | 売電電力制限設定<br>Limit setting for the amount of electricity sold            |      |
| ratedElectricPowerOfgeneration            | GET, PUT      | number, string | 0xE8     | 定格発電電力値(系統連系時)<br>Rated power generation output (System-interconnected) |      |
| ratedElectricPowerOfgenerationIndependent | GET, PUT      | number         | 0xE9     | 定格発電電力値(独立時)<br>Rated power generation output (Independent)             |      |

## Actions

| Property Resource Name                    | Access Method | EPC (EL) | プロパティ名称 (EL)  | Note |
|---|---------------|----------|---|------|
| resetCumulativeElectricEnergyOfGeneration | POST          | 0xE2     | 積算発電電力量リセット設定<br>Resetting cumulative amount of electric energy generated |      |
| resetCumulativeElectricEnergySold         | POST          | 0xE4     | 積算売電電力量リセット設定<br>Resetting cumulative amount of electric energy sold      |      |

## Device Description

```
{
  "deviceType": "pvPowerGeneration",
  "eoj": "0x0279",
  "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"
            }
        ]
    }
},
"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": "minute",
    "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": [
            {
                "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"
              },
              "edt": "0xFFFFFFFFFFFF"
            }
          ]
        }
      ]
    }
  },
  "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": {
    "oneOf": [
      {
        "type": "number",
        "unit": "W",
        "minimum": 0,
        "maximum": 65533
      },
      {
        "type": "string",
        "enum": [
          "notSet"
        ],
        "values": [
          {
            "value": "notSet",
            "descriptions": {
              "ja": "未設定",
              "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": [
    {
      "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",
        "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": [
        "notSet"
      ],
      "values": [
        {
          "value": "notSet",
          "descriptions": {
            "ja": "未設定",
            "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
  }
},
"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,
```

```
"observable": false,
"schema": {
  "type": "string",
  "enum": [
    "outputControl",
    "exceptControl",
    "reasonUnknown",
    "notPowerRestraining",
    "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": "notPowerRestraining",
      "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,
    "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": "%",
      "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": [
            "notSet"
        ],
        "values": [
            {
                "value": "notSet",
                "descriptions": {
                    "ja": "未設定",
                    "en": "No setting"
                },
                "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."  
  }  
}  
}
```



床暖房:floorHeater:0x027B

Properties

| Property Resource Name    | Access Method | Data Type         | EPC (EL) | プロパティ名称 (EL)                                 | Note |
|---------------------------|---------------|-------------------|----------|--|------|
| onTimerReservation        | GET, PUT      | string            | 0x90     | ON タイマ予約設定<br>ON timer reservation setting   |      |
| timeOfOnTimer             | GET, PUT      | string            | 0x91     | ON タイマ時刻設定値<br>Time set by ON timer          |      |
| relativeTimeOfOnTimer     | GET, PUT      | string            | 0x92     | ON タイマ相対時間設定値<br>Relative ON timer setting   |      |
| offTimerReservation       | GET, PUT      | string            | 0x94     | OFF タイマ予約設定<br>OFF timer reservation setting |      |
| timeOfOffTimer            | GET, PUT      | string            | 0x95     | OFF タイマ時刻設定値<br>Time set by OFF timer        |      |
| relativeTimeOfOffTimer    | GET, PUT      | string            | 0x96     | OFF タイマ相対時間設定値<br>Relative OFF timer setting |      |
| maximumTargetTemperature2 | GET           | number            | 0xD1     | 温度設定2設定可能最大レベル<br>Maximum temperature level  |      |
| targetTemperature1        | GET, PUT      | number,<br>string | 0xE0     | 温度設定1<br>Set temperature value               |      |
| targetTemperature2        | GET, PUT      | number,<br>string | 0xE1     | 温度設定2<br>Set temperature level by 15 steps   |      |
| measuredRoomTemperature   | GET           | number,<br>string | 0xE2     | 室内温度計測値<br>Measured room temperature         |      |
| measuredFloorTemperature  | GET           | number,<br>string | 0xE3     | 床温度計測値<br>Measured floor temperature         |      |
| controllableZone          | GET, PUT      | array             | 0xE4     | ゾーン切替え設定<br>Zone change setting              |      |
| specialOperationMode      | GET, PUT      | string            | 0xE5     | 特殊運転設定<br>Special operation setting          |      |
| dailyTimer                | GET, PUT      | string            | 0xE6     | デイリータイマー設定<br>Daily timer setting            |      |
| workedDailyTimer1         | GET, PUT      | array             | 0xE7     | デイリータイマー1設定<br>Daily timer setting 1         | *1   |
| workedDailyTimer2         | GET, PUT      | array             | 0xE8     | デイリータイマー2設定<br>Daily timer setting 2         | *1   |

| Property Name          | Resource | Access Method | Data Type | EPC (EL) | プロパティ名称 (EL)                                     | Note |
|------------------------|----------|---------------|-----------|----------|--|------|
| ratedPowerConsumption  |          | GET           | number    | 0xE9     | 定格消費電力値<br>Rated power consumption               |      |
| powerMeasurementMethod |          | GET           | string    | 0xEA     | 消費電力計測方法<br>Power consumption measurement method |      |

\*1 デイリータイマー1設定、デイリータイマー2設定に関して、以下のような日またぎ指定を可能とするかどうかは実装依存とする。

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

## Device Description

```
{
  "deviceType": "floorHeater",
  "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",
  "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"
          },
          "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,
    "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"
            }
          ]
        }
      ]
    }
  ],
  "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": [
                    "undefine"
                ],
                "values": [
                    {
                        "value": "undefine",
                        "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": {
        "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": {
                "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",
          "note": {
            "ja": "開始分は0分もしくは30分",
            "en": "Time is fixed at 0 or 30 min."
          }
        },
        "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"
  },
  "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",
            "note": {
              "ja": "開始分は0分もしくは30分",
              "en": "Time is fixed at 0 or 30 min."
            }
          },
          "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",
        "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"
      }
    ]
  }
}
```

## 単機能照明:monoFunctionalLighting:0x0291

### Properties

| Property   | Resource Name | Access Method | Data Type | EPC (EL) | プロパティ名称 (EL)                         | Note |
|------------|---------------|---------------|-----------|----------|--------------------------------------|------|
| brightness |               | GET, PUT      | number    | 0xB0     | 照度レベル設定<br>Illuminance Level Setting |      |

### Device Description

```
{
  "deviceType": "monoFunctionalLighting",
  "eoj": "0x0291",
  "descriptions": {
    "ja": "単機能照明",
    "en": "Mono functional lighting"
  },
  "properties": {
    "brightness": {
      "epc": "0xB0",
      "descriptions": {
        "ja": "照度レベル設定",
        "en": "Illuminance Level Setting"
      },
      "writable": true,
      "observable": false,
      "schema": {
        "type": "number",
        "unit": "%",
        "minimum": 0,
        "maximum": 100
      }
    }
  }
}
```

冷凍冷蔵庫:refrigerator:0x03B7

Properties

| Property Resource Name            | Access Method | Data Type | EPC (EL) | プロパティ名称 (EL)  | Note |
|-----------------------------------|---------------|-----------|----------|---|------|
| quickFreeze                       | GET, PUT      | string    | 0xA0     | 急速冷凍動作設定<br>Quick freeze function setting                             |      |
| quickRefrigeration                | GET, PUT      | string    | 0xA1     | 急速冷蔵動作設定<br>Quick refrigeration function setting                      |      |
| icemaker                          | GET, PUT      | string    | 0xA4     | 製氷許可設定<br>Icemaker setting  |      |
| icemakerStatus                    | GET           | string    | 0xA5     | 製氷動作状態<br>Icemaker operation status                                   |      |
| icemakerTankStatus                | GET           | string    | 0xA6     | 製氷用給水タンク状態<br>Icemaker tank status                                    |      |
| refrigeratorHumidification        | GET, PUT      | string    | 0xA8     | 冷蔵庫加湿動作設定<br>Refrigerator compartment humidification function setting |      |
| vegetableHumidification           | GET, PUT      | string    | 0xA9     | 野菜室加湿動作設定<br>Vegetable compartment humidification function setting    |      |
| deodorization                     | GET, PUT      | string    | 0xAD     | 脱臭動作設定<br>Deodorization function setting                              |      |
| doorOpenCloseStatus               | GET           | string    | 0xB0     | ドア開閉状態<br>Door open/close status                                      |      |
| doorOpenWarning                   | GET           | boolean   | 0xB1     | ドア開放警告状態<br>Door open warning   |      |
| refrigeratorCompartmentDoorStatus | GET           | string    | 0xB2     | 冷蔵庫ドア開閉状態<br>Refrigerator compartment door status                     |      |
| freezerCompartmentDoorStatus      | GET           | string    | 0xB3     | 冷凍室ドア開閉状態<br>Freezer compartment door status                          |      |
| iceCompartmentDoorStatus          | GET           | string    | 0xB4     | 氷温室ドア開閉状態<br>Ice compartment door status                              |      |
| vegetableCompartmentDoorStatus    | GET           | string    | 0xB5     | 野菜室ドア開閉状態<br>Vegetable compartment door status                        |      |

| Property Resource Name           | Access Method | Data Type | EPC (EL) | プロパティ名称 (EL)  | Note |
|----------------------------------|---------------|-----------|----------|---|------|
| multiModeCompartmentDoorStatus   | GET           | string    | 0xB6     | 切換室 ドア開閉状態<br>Multi-refrigerating mode compartment door status        |      |
| measuredRefrigeratorTemperature  | GET           | number    | 0xD1     | 冷蔵室温度計測値<br>Measured refrigerator compartment temperature             |      |
| measuredFreezerTemperature       | GET           | number    | 0xD2     | 冷凍室温度計測値<br>Measured freezer compartment temperature                  |      |
| measuredIceTemperature           | GET           | number    | 0xD3     | 氷温室温度計測値<br>Measured subzero-fresh compartment temperature            |      |
| measuredVegetableTemperature     | GET           | number    | 0xD4     | 野菜室温度計測値<br>Measured vegetable compartment temperature                |      |
| measuredMultiModeTemperature     | GET           | number    | 0xD5     | 切換室温度計測値<br>Measured multi-refrigerating mode compartment temperature |      |
| compressorRotationSpeed          | GET           | object    | 0xD8     | 圧縮機回転数レベル<br>Compressor rotation speed                                |      |
| electricCurrentConsumption       | GET           | number    | 0xDA     | 消費電流計測値<br>Measured electric current consumption                      |      |
| ratedPowerConsumption            | GET           | number    | 0xDC     | 定格消費電力値<br>Rated power consumption                                    |      |
| maximumAllowableTemperatureLevel | GET           | object    | 0xE0     | 設定可能温度レベル最大値<br>Maximum allowable temperature setting level           |      |
| refrigeratorTemperature          | GET, PUT      | number    | 0xE2     | 冷蔵室温度設定値<br>Refrigerator compartment temperature setting              |      |
| freezerTemperature               | GET, PUT      | number    | 0xE3     | 冷凍室温度設定値<br>Freezer compartment temperature setting                   |      |
| iceTemperature                   | GET, PUT      | number    | 0xE4     | 氷温室温度設定値<br>Ice compartment temperature setting                       |      |

| Property Resource Name       | Access Method | Data Type | EPC (EL) | プロパティ名称 (EL)   | Note |
|------------------------------|---------------|-----------|----------|--|------|
| vegetableTemperature         | GET, PUT      | number    | 0xE5     | 野菜室温度設定値<br>Vegetable compartment temperature setting                        |      |
| multiModeTemperature         | GET, PUT      | number    | 0xE6     | 切換室温度設定値<br>Multi-refrigerating mode compartment temperature setting         |      |
| refrigeratorTemperatureLevel | GET, PUT      | number    | 0xE9     | 冷蔵室温度レベル設定<br>Refrigerator compartment temperature level setting             |      |
| freezerTemperatureLevel      | GET, PUT      | number    | 0xEA     | 冷凍室温度レベル設定<br>Freezer compartment temperature level setting                  |      |
| iceTemperatureLevel          | GET, PUT      | number    | 0xEB     | 氷温室温度レベル設定<br>Ice compartment temperature level setting                      |      |
| vegetableTemperatureLevel    | GET, PUT      | number    | 0xEC     | 野菜室温度レベル設定<br>Vegetable compartment temperature level setting                |      |
| multiModeTemperatureLevel    | GET, PUT      | number    | 0xED     | 切換室温度レベル設定<br>Multi-refrigerating mode compartment temperature level setting |      |

## Device Description

```
{
  "deviceType": "refrigerator",
  "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"
            },
            "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",
      "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": "製水動作状態",
    "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"
      }
    ]
  }
},
"icemakerTankStatus": {
  "epc": "0xA6",
  "descriptions": {
    "ja": "製水用給水タンク状態",
    "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"
    },
    {
      "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": [
      {
        "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": {
      "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": "冷蔵庫ドア開閉状態",
    "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"
  }
}
}

```

```

    },
    "writable": false,
    "observable": false,
    "schema": {
      "type": "string",
      "enum": [
        "open",
        "close"
      ]
    },
    "values": [
      {
        "value": "open",
        "descriptions": {
          "ja": "ドア開",
          "en": "Open"
        }
      },
      {
        "value": "close",
        "descriptions": {
          "ja": "ドア閉",
          "en": "Closed"
        }
      }
    ]
  }
},
"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"
      }
    },
    {
      "value": "close",
      "descriptions": {
        "ja": "ドア閉",

```



```

        "en": "Closed"
    },
    "edt": "0x42"
}
]
},
"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": "切换室ドア開閉状態",
        "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": {
      "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,
    "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"
          },
          "type": "number",
          "minimum": 1,

```

```
    "maximum": 255
  },
  "rotationSpeed": {
    "descriptions": {
      "ja": "回転数レベル",
      "en": "Rotation speed of the actual compressor"
    },
    "type": "number",
    "minimum": 0,
    "maximum": 255,
    "note": {
      "ja": "0は停止を示す",
      "en": "Value 0 represents Stop."
    }
  }
}
},
"electricCurrentConsumption": {
  "epc": "0xDA",
  "descriptions": {
    "ja": "消費電流計測値",
    "en": "Measured electric current consumption"
  },
  "writable": false,
  "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
    },
    "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": "冷蔵庫温度設定値",
    "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"
  },
  "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",
    "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"
      },
      "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."
      }
    }
  }
}
```



```
}  
  }  
    }
```

## クッキングヒータ:cookingHeater:0x03B9

### Properties

| Property Name          | Resource | Access Method | Data Type | EPC (EL) | プロパティ名称 (EL)  | Note |
|------------------------|----------|---------------|-----------|----------|---|------|
| relativeTimeOfOffTimer |          | GET, PUT      | object    | 0x96     | 切タイマ相対時間設定値<br>Relative time settings of off timers |      |
| childLock              |          | GET, PUT      | boolean   | 0xA1     | チャイルドロック設定<br>Child lock setting                    |      |
| radiantHeaterLock      |          | GET, PUT      | boolean   | 0xA2     | ラジエントヒータロック設定<br>Radiant heater lock setting        |      |
| heatingStatus          |          | GET           | object    | 0xB1     | 加熱状態<br>Heating status                              |      |
| heatingOperation       |          | GET, PUT      | object    | 0xB2     | 加熱設定<br>Heating setting                             |      |
| heatingModesOfStoves   |          | GET, PUT      | object    | 0xE0     | コンロ加熱モード設定<br>Heating modes of stoves               |      |
| heatingTemperature     |          | GET, PUT      | object    | 0xE3     | 加熱温度設定値<br>Heating temperature setting              |      |
| heatingPower           |          | GET, PUT      | object    | 0xE7     | 加熱出力設定<br>Heating power setting                     | *1   |

### Actions

| Property Name | Resource | Access Method | EPC (EL) | プロパティ名称 (EL)               | Note |
|---------------|----------|---------------|----------|----------------------------|------|
| allStop       |          | POST          | 0xB3     | 一括停止設定<br>All stop setting |      |

\*1 1 プロパティで、左コンロ/右コンロ/奥コンロ/ロースタの各加熱出力設定を、電力量/レベル/状態表現のいずれかで指定する。

### Device Description

```
{
  "deviceType": "cookingHeater",
  "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,
  "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": "設定なし",
                  "en": "No setting"
                },
                "edt": "0xFF"
              }
            ]
          }
        ]
      },
      "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": "設定なし",
```



```

        "en": "No setting"
      },
      "edt": "0xFF"
    ]
  ]
}
},
"childLock": {
  "epc": "0xA1",
  "descriptions": {
    "ja": "チャイルドロック設定",
    "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": "ラジエントヒーターロックOFF",
    "en": "Radiant heater lock off"
  },
  "edt": "0x40"
}
]
}
},
"heatingStatus": {
  "epc": "0xB1",
  "descriptions": {
    "ja": "加熱状態",
    "en": "Heating status"
  },
  "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"
}
],
"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"
        },
        "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",
    "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": {
        "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": "設定なし",
    "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": [
    {
      "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": "設定なし",  
        "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"  
    },  
    {  
      "value": "temporarilyStopHeating",  
      "descriptions": {  
        "ja": "加熱一時停止",  
        "en": "Temporarily stop heating"  
      }  
    }  
  ]  
}
```

```

    },
    "edt": "0x42"
  },
  {
    "value": "noSetting",
    "descriptions": {
      "ja": "設定なし",
      "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": "設定なし",
        "en": "No setting"
      },
    },
  ],

```

```

        "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": {
        "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": "設定なし",
        "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"
  },
  {
    "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": "設定なし",
      "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": {
    "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": "設定なし",
    "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"
          ],
          "values": [
            {
              "value": "noSetting",
              "descriptions": {
                "ja": "設定なし",
                "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": "設定なし",
                "en": "No setting"
              }
            }
          ]
        }
      ]
    }
  }
}
```



```

    "type": "object",
    "properties": {
      "oneOf": [
        {
          "wattage": {
            "descriptions": {
              "ja": "出力設定形式",
              "en": "Output wattage"
            },
            "type": "number",
            "unit": "W",
            "minimum": 0,
            "maximum": 10000
          }
        },
        {
          "level": {
            "descriptions": {
              "ja": "レベル設定形式",
              "en": "Level"
            },
            "type": "number",
            "minimum": 0,
            "maximum": 16,
            "multipleOf": 1
          }
        }
      ],
      {
        "stateOfFlame": {
          "descriptions": {
            "ja": "状態表現形式",
            "en": "The state of flame"
          },
          "type": "string",
          "enum": [
            "veryLowFlame",
            "lowFlame",
            "mediumFlame",
            "highFlame",
            "highPower"
          ],
          "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"
      }
    ]
  },
  {
    "noSetting": {
      "descriptions": {
        "ja": "未設定",
        "en": "No setting"
      },
      "type": "null",
      "edt": "0xFFFF"
    }
  }
]
},
"rightStove": {
  "descriptions": {
    "ja": "右コンロ加熱出力",
    "en": "Heating power of the right stove"
  },
  "type": "object",
  "properties": {
    "oneOf": [
      {
        "wattage": {
          "descriptions": {
            "ja": "出力設定形式",
            "en": "Output wattage"
          },

```

```
    "type": "number",
    "unit": "W",
    "minimum": 0,
    "maximum": 10000
  }
},
{
  "level": {
    "descriptions": {
      "ja": "レベル設定形式",
      "en": "Level"
    },
    "type": "number",
    "minimum": 0,
    "maximum": 16,
    "multipleOf": 1
  }
},
{
  "stateOfFlame": {
    "descriptions": {
      "ja": "状態表現形式",
      "en": "The state of flame"
    },
    "type": "string",
    "enum": [
      "veryLowFlame",
      "lowFlame",
      "mediumFlame",
      "highFlame",
      "highPower"
    ],
    "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"
    }
  ]
},
{
  "noSetting": {
    "descriptions": {
      "ja": "未設定",
      "en": "No setting"
    },
    "type": "null",
    "edt": "0xFFFF"
  }
}
],
},
"farSideStove": {
  "descriptions": {
    "ja": "奥コンロ加熱出力",
    "en": "Heating power of the far-side stove"
  },
  "type": "object",
  "properties": {
    "oneOf": [
      {
        "wattage": {
          "descriptions": {
            "ja": "出力設定形式",
            "en": "Output wattage"
          },
          "type": "number",
          "unit": "W",
          "minimum": 0,
          "maximum": 10000
        }
      },
      {
        "level": {
          "descriptions": {
```

```
    "ja": "レベル設定形式",  
    "en": "Level"  
  },  
  "type": "number",  
  "minimum": 0,  
  "maximum": 16,  
  "multipleOf": 1  
},  
{  
  "stateOfFlame": {  
    "descriptions": {  
      "ja": "状態表現形式",  
      "en": "The state of flame"  
    },  
    "type": "string",  
    "enum": [  
      "veryLowFlame",  
      "lowFlame",  
      "mediumFlame",  
      "highFlame",  
      "highPower"  
    ],  
    "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"
        }
      ]
    },
    {
      "noSetting": {
        "descriptions": {
          "ja": "未設定",
          "en": "No setting"
        },
        "type": "null",
        "edt": "0xFFFF"
      }
    }
  ]
},
"roaster": {
  "descriptions": {
    "ja": "ロースタ加熱出力",
    "en": "Heating power of the roaster"
  },
  "type": "object",
  "properties": {
    "oneOf": [
      {
        "wattage": {
          "descriptions": {
            "ja": "出力設定形式",
            "en": "Output wattage"
          },
          "type": "number",
          "unit": "W",
          "minimum": 0,
          "maximum": 10000
        }
      },
      {
        "level": {
          "descriptions": {
            "ja": "レベル設定形式",
            "en": "Level"
          },
          "type": "number",
          "minimum": 0,
          "maximum": 16,
          "multipleOf": 1
        }
      }
    ]
  }
},

```

```
{
  "stateOfFlame": {
    "descriptions": {
      "ja": "状態表現形式",
      "en": "The state of flame"
    },
    "type": "string",
    "enum": [
      "veryLowFlame",
      "lowFlame",
      "mediumFlame",
      "highFlame",
      "highPower"
    ],
    "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"
      }
    ]
  }
}
```

```
    }
  },
  {
    "noSetting": {
      "descriptions": {
        "ja": "未設定",
        "en": "No setting"
      },
      "type": "null",
      "edt": "0xFFFF"
    }
  }
]
}
}
}
}
},
"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."
    }
  }
}
}
```

炊飯器:riceCooker:0x03BB

Properties

| Property Name           | Resource | Access Method | Data Type | EPC (EL) | プロパティ名称 (EL)  | Note |
|-------------------------|----------|---------------|-----------|----------|---|------|
| reservation             |          | GET, PUT      | string    | 0x90     | 炊飯予約設定<br>Rice cooking reservation setting                      |      |
| reservationTime         |          | GET, PUT      | string    | 0x91     | 炊飯予約設定時刻設定値<br>Rice cooking reservation time setting            |      |
| reservationRelativeTime |          | GET, PUT      | string    | 0x92     | 炊飯予約設定相対時間設定値<br>Rice cooking reservation relative time setting |      |
| coverStatus             |          | GET           | string    | 0xB0     | 蓋開閉状態<br>Cover closure status                                   |      |
| cookingStatus           |          | GET           | string    | 0xB1     | 炊飯状態<br>Rice cooking status                                     |      |
| cookingControl          |          | GET, PUT      | string    | 0xB2     | 炊飯制御設定<br>Rice cooking control setting                          |      |
| warmerOperation         |          | GET, PUT      | boolean   | 0xE1     | 保温設定<br>Warmer setting  |      |
| innerPotRemoved         |          | GET           | boolean   | 0xE5     | 内なべ取り外し状態<br>Inner pot removal status                           |      |
| coverRemoved            |          | GET           | boolean   | 0xE6     | 蓋取り外し状態<br>Cover removal status                                 |      |

Device Description

```
{
  "deviceType": "riceCooker",
  "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": [
      {
        "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",
    "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"
      },
      "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"
            }
        ]
    },
    "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"
        }
      ]
    }
  ],
  "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"
        }
      ]
    }
  ]
}

```

```
}  
  }  
    }  
      }
```

業務用ショーケース:commercialShowcase:0x03CE

Properties

| Property Resource Name          | Access Method | Data Type         | EPC (EL) | プロパティ名称 (EL)   | Note |
|---------------------------------|---------------|-------------------|----------|--|------|
| operationMode                   | GET,<br>PUT   | string            | 0xB0     | 運転モード設定<br>Operation mode setting  |      |
| dischargeTemperature            | GET           | number            | 0xBD     | 吐出温度計測値<br>Used to acquire measurements of discharge temperature.  |      |
| groupInformation                | GET,<br>PUT   | number,<br>string | 0xCA     | グループ情報<br>Group information  |      |
| showcaseType                    | GET           | string            | 0xD0     | ショーケースタイプ情報<br>This property indicates the type of the showcase.   |      |
| doorType                        | GET           | string            | 0xD1     | ドアタイプ情報<br>This property indicates the type of the showcase door.  |      |
| refrigeratorType                | GET           | string            | 0xD2     | 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<br>This property indicates refrigerator type, such as built-in or separate.        |      |
| shapeType                       | GET           | string            | 0xD3     | ショーケース形状情報<br>This property indicates the shape of the showcase.   |      |
| purposeType                     | GET           | string            | 0xD4     | 冷蔵用途か冷凍用途かを示す庫内温度帯情報<br>This property indicates the purpose of the showcase, either refrigeration or freezing. |      |
| internalLightingOperationStatus | GET,<br>PUT   | boolean           | 0xE0     | 庫内照明動作状態<br>Indicates on/off status of lighting installed inside the showcase.                                 |      |
| externalLightingOperationStatus | GET,<br>PUT   | boolean           | 0xE1     | 庫外照明動作状態<br>Indicates ON/OFF status of lighting installed outside the showcase.                                |      |

| Property Resource Name                | Access Method | Data Type | EPC (EL) | プロパティ名称 (EL)           | Note   |
|---------------------------------------|---------------|-----------|----------|------------------------|--|
| compressorOperationStatus             | GET, PUT      | boolean   | 0xE2     | コンプレッサ動作状態             | Indicates on/off status of compressor when showcase and compressor are a single unit.  |
| internalTemperature                   | GET           | number    | 0xE3     | 庫内温度計測値                | Used to acquire internal temperature measurements inside the showcase.                 |
| ratedElectricPowerForFreezing         | GET           | number    | 0xE4     | 冷却時に要する定格消費電力 (冷凍能力値)  | Indicates rated power consumption necessary when showcase is cooling.                  |
| ratedElectricPowerForDefrostingHeater | GET           | number    | 0xE5     | 霜取りヒータ稼働時の定格消費電力       | Indicates rated power consumption when heater is operating during showcase defrosting. |
| ratedElectricPowerForFanMotor         | GET           | number    | 0xE6     | ファンモータ稼働時の定格消費電力       | Indicates rated power consumption when showcase is operating fan motor.                |
| heaterOperationStatus                 | GET           | boolean   | 0xE7     | ホット用ヒーター動作状態 (ヒーターモード) | Indicates on/off status of showcases with heater for hot function.                     |
| insideLightingType                    | GET           | string    | 0xEB     | 庫内照明タイプ                | Indicates type of lighting installed inside the showcase.                              |
| outsideLightingType                   | GET           | string    | 0xEC     | 庫外照明タイプ                | Indicates type of lighting installed outside the showcase.                             |

| Property Resource Name  | Access Method | Data Type | EPC (EL) | プロパティ名称 (EL)   | Note |
|-------------------------|---------------|-----------|----------|--|------|
| targetInsideBrightness  | GET,<br>PUT   | number    | 0xED     | 庫内照明照度レベル設定<br>Indicates lighting level in % installed inside of the showcase.         |      |
| targetOutsideBrightness | GET,<br>PUT   | number    | 0xEE     | 庫外照明照度レベル設定<br>Indicates lighting level in % installed outside of the showcase.        |      |
| targetInsideTemperature | GET,<br>PUT   | number    | 0xEF     | 庫内温度設定値<br>Set temperature setting of inside the case and acquire the current setting. |      |
| groupDeviceList         | GET           | array     | -        | グループ内デバイスリスト<br>List of devices in group   | *1   |

\*1 グループ情報の "groupDeviceList" は、WebAPIのdevicesで管理されている機器のIdおよびその"deviceType"を記述

#### Device Description

```
{
  "deviceType": "commercialShowcase",
  "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"
      },
      "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."
    },
    "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 (C02)",
          "en": "Non-fluorocarbon inverter (C02)"
        },
        "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"
      },
      {
        "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",
        "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)"
  },
  "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"
        },
        {
          "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"
      },
      {

```

```
        "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）",
        "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"
          },
          "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 lights"
        },
        "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"
}
]
}
},
"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",
    "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"
        }
      }
    }
  }
},
"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'."
}
}
}
```

業務用ショーケース向け室外機:commercialShowcaseOutdoorUnit:0x03D4

## Properties

| Property Name             | Resource | Access Method | Data Type      | EPC (EL) | プロパティ名称 (EL)   | Note |
|---------------------------|----------|---------------|----------------|----------|--|------|
| exceptionalStatus         |          | GET           | boolean        | 0xAA     | 特殊状態<br>Indicates that the showcase freezer is in an exceptional status. |      |
| operationMode             |          | GET, PUT      | string         | 0xB0     | 運転モード設定<br>Operation mode setting  |      |
| outdoorAirTemperature     |          | GET           | number         | 0xBE     | 外気温度計測値<br>Used to acquire measurements of outdoor air temperature.      |      |
| groupInformation          |          | GET, PUT      | number, string | 0xCA     | グループ情報<br>Group information  |      |
| compressorOperationStatus |          | GET, PUT      | boolean        | 0xE2     | コンプレッサ動作状態<br>Indicates compressor ON/OFF status.                        |      |
| groupDeviceList           |          | GET           | array          | -        | グループ内デバイスリスト<br>List of devices in group                                 | *1   |

\*1 グループ情報の "groupDeviceList" は、WebAPIのdevicesで管理されている機器のIdおよびその"deviceType"を記述

## Device Description

```
{
  "deviceType": "commercialShowcaseOutdoorUnit",
  "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"
            }
          }
        ]
      }
    }
  }
}
```

```

        },
        "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,
      "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"
    },
    "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'."
}
}
}
}

```

## スイッチ (JEMA/HA端子対応):switch:0x05FD

### Properties

| Property        | Resource Name | Access Method | Data Type | EPC (EL) | プロパティ名称 (EL)             | Note |
|-----------------|---------------|---------------|-----------|----------|--------------------------|------|
| connectedDevice |               | GET, PUT      | string    | 0xE0     | 接続機器<br>Connected device |      |

### Device Description

```
{
  "deviceType": "switch",
  "eoj": "0x05FD",
  "descriptions": {
    "ja": "スイッチ (JEMA/HA端子対応)",
    "en": "Switch"
  },
  "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)"
      }
    }
  }
}
```

ハイブリッド給湯機:hybridWaterHeater:0x02A6

Properties

| Property Resource Name                          | Access Method | Data Type | EPC (EL) | プロパティ名称 (EL)  | Note |
|---|---------------|-----------|----------|---|------|
| automaticWaterHeating                           | GET, PUT      | string    | 0xB0     | 沸き上げ自動設定<br>Automatic water heating setting                                     |      |
| waterHeatingStatus                              | GET           | boolean   | 0xB2     | 給湯沸き上げ中状態<br>Water heating status   |      |
| heaterStatus                                    | GET           | boolean   | 0xB3     | 暖房沸き上げ中状態<br>Heater status  |      |
| hotWaterSupplyModeForAuxiliaryHeatSourceMachine | GET, PUT      | boolean   | 0xB6     | 補助熱源機給湯モード設定<br>Hot water supply mode setting for auxiliary heat source machine |      |
| heaterModeForAuxiliaryHeatSourceMachine         | GET, PUT      | boolean   | 0xB7     | 補助熱源機暖房モード設定<br>Heater mode setting for auxiliary heat source machine.          |      |
| linkageModeForSolarPowerGeneration              | GET, PUT      | string    | 0xB8     | 太陽光発電連携モード設定<br>Linkage mode setting for solar power generation                 |      |
| solarPowerGenerationsUtilizationTime            | GET, PUT      | object    | 0xB9     | 太陽光発電利用時間<br>Solar power generations utilization time                           |      |
| hotWaterSupplyStatus                            | GET           | boolean   | 0xC3     | 給湯中状態<br>Hot water supply status  |      |
| remainingWater                                  | GET           | number    | 0xE1     | 残湯量計測値<br>Measured amount of hot water remaining in tank                        |      |
| tankCapacity                                    | GET           | number    | 0xE2     | タンク容量値<br>Tank capacity   |      |



## Device Description

```
{
  "deviceType": "hybridWaterHeater",
  "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"
    },
    "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,
    "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,
    "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",
          "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
    }
  },
  "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
    }
  }
}
}
```

洗濯乾燥機:washerDryer:0x03D3

Properties

| Property Resource Name   | Access Method | Data Type | EPC (EL) | プロパティ名称 (EL)   | Note   |
|--------------------------|---------------|-----------|----------|--|--|
| onTimerReservationStatus | GET, PUT      | string    | 0x90     | ONタイマ予約設定<br>On timer reservation setting            |  |
| onTimerAbsolute          | GET, PUT      | string    | 0x91     | ONタイマ時刻設定値<br>On timer setting                       |  |
| relativeTimeOfOnTimer    | GET, PUT      | number    | 0x92     | ONタイマ相対時間設定値<br>Relative time-based on timer setting |  |
| doorOpenStatus           | GET           | string    | 0xB0     | 扉・蓋開閉状態<br>Door/cover open/close status              |  |
| runningStatus            | GET, PUT      | string    | 0xB2     | 洗濯・乾燥設定<br>Washer and dryer setting                  |  |
| washerDryerCycle1        | GET, PUT      | string    | 0xD0     | 洗濯乾燥コース設定1<br>Washer and dryer cycle setting 1       | washerDryerCycle2およびdryerCycleと同時に使用しない              |
| washerDryerCycle2        | GET, PUT      | string    | 0xD1     | 洗濯乾燥コース設定2<br>Washer and dryer cycle setting 2       | dryerCycleと同時に使用する。washerDryerCycle1と同時に使用しない        |
| dryerCycle               | GET, PUT      | string    | 0xD2     | 乾燥方法設定<br>Drying cycle setting                       | washerDryerCycle2と同時に使用する。washerDryerCycle1と同時に使用しない |
| washerDryerCycleOptions1 | GET           | array     | 0xD3     | 設定可能コース情報1<br>Washer and dryer cycle option list 1   | washerDryerCycle1が有効な場合に使用する                         |

| Property Resource Name   | Access Method | Data Type         | EPC (EL) | プロパティ名称 (EL)  | Note                         |
|--------------------------|---------------|-------------------|----------|---|------------------------------|
| washerDryerCycleOptions2 | GET           | array             | 0xD4     | 設定可能コース情報2<br>Washer and dryer cycle option list 2  | washerDryerCycle2が有効な場合に使用する |
| washerDryerCycleOptions3 | GET           | array             | 0xD5     | 設定可能コース情報3<br>Washer and dryer cycle option list 3  | dryerCycleが有効な場合に使用する        |
| waterFlowRate            | GET,<br>PUT   | object,<br>object | 0xD6     | 水流設定<br>Water flow rate setting                     |                              |
| spinDryingRotationSpeed  | GET,<br>PUT   | object,<br>object | 0xD7     | 脱水回転数設定値<br>Rotation speed for spin drying setting  |                              |
| dryingDegree             | GET,<br>PUT   | object,<br>object | 0xD8     | 乾燥度設定<br>Degree of drying setting                   |                              |
| washingTimeRemaining     | GET           | number,<br>string | 0xDB     | 洗濯残り時間<br>Remaining washing time                    |                              |
| dryingTimeRemaining      | GET           | number,<br>string | 0xDC     | 乾燥残り時間<br>Remaining drying time                     |                              |
| onTimerElapsed           | GET           | number            | 0xDF     | ONタイマ経過時間<br>Elapsed time on the on timer           |                              |
| presoakingTime           | GET,<br>PUT   | object,<br>object | 0xE1     | つけおき行程時間設定値<br>Presoaking time setting              |                              |
| currentStage             | GET           | string            | 0xE2     | 洗濯乾燥遷移状態<br>Current stage of washer and dryer cycle |                              |
| waterVolumeByLiter       | GET,<br>PUT   | object,<br>object | 0xE3     | 水量設定1<br>Water volume setting 1                     |                              |



| Property Resource Name     | Access Method | Data Type         | EPC (EL) | プロパティ名称 (EL)  | Note                       |
|----------------------------|---------------|-------------------|----------|---|----------------------------|
| waterVolumeByStep          | GET,<br>PUT   | object,<br>object | 0xE4     | 水量設定2<br>Water volume setting 2                               |                            |
| washingTime                | GET,<br>PUT   | object,<br>object | 0xE5     | 洗い時間設定値<br>Washing time setting                               |                            |
| rinsingCount               | GET,<br>PUT   | number,<br>string | 0xE6     | すすぎ回数設定値<br>Number of times of rinsing setting                |                            |
| rinsingProcess             | GET,<br>PUT   | array             | 0xE7     | すすぎモード設定<br>Rinsing process setting                           | 配列要素数はrinsingCountの値と同じとする |
| spinDryingTime             | GET,<br>PUT   | object,<br>object | 0xE8     | 脱水時間設定値<br>Spin drying time setting                           |                            |
| dryingTime                 | GET,<br>PUT   | object,<br>object | 0xE9     | 乾燥時間設定値<br>Drying time setting                                |                            |
| waterTemperature           | GET,<br>PUT   | number,<br>string | 0xEA     | 洗い温水設定値<br>Warm water setting                                 |                            |
| bathtubWaterRecycle        | GET,<br>PUT   | string            | 0xEB     | 風呂水設定<br>Bathtub water recycle setting                        |                            |
| wrinklingMinimization      | GET,<br>PUT   | string            | 0xEC     | ソフトキープ設定<br>Wrinkling minimization setting                    |                            |
| washingDryingTimeRemaining | GET           | number,<br>string | 0xED     | 洗濯乾燥残り時間<br>Time remaining to complete washer and dryer cycle |                            |
| doorLockStatus             | GET,<br>PUT   | boolean           | 0xEE     | 運転中扉・蓋ロック設定<br>Door/cover lock setting                        |                            |

## Device Description

```

{
  "deviceType": "washerDryer",
  "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,
      "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": {
  "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",
          "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",
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    "washStandard",
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    "washHardToRemove",
    "washPresoaking",
    "washBlankets",
    "washSoft",
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    "washDisinfection",
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    "washSmallAmountQuick",
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    "en": "<Drying course> Garment warming"
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  "edt": "0xAD"
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  "edt": "0xBF"
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            "en": "Heater current limit"
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        "edt": "0xAE"
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                "washDryDrymark",
                "washDryCleanRinsing",
                "washDryIroning",
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    "en": "<Washing and drying course> Heavily soiled"
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  "edt": "0x23"
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  "value": "washDryHardToRemove",
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    "en": "<Washing and drying course> Hard-to-remove stains"
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  "edt": "0x25"
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  "value": "washDryBlankets",
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  "edt": "0x26"
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  "value": "washDrySoft",
  "descriptions": {
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    "en": "<Washing and drying course> Soft"
  },
  "edt": "0x27"
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{
  "value": "washDryDrymark",
  "descriptions": {
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    "en": "<Washing and drying course> Dry"
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  "edt": "0x28"
},
{
  "value": "washDryCleanRinsing",
  "descriptions": {
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    "en": "<Washing and drying course> Clean rinsing"
  },
  "edt": "0x29"
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  "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"
},
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  "value": "washDryHangDrying",
  "descriptions": {
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    "en": "<Washing and drying course> Hang drying"
  },
  "edt": "0x2B"
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{
  "value": "washDryThick",
  "descriptions": {
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    "en": "<Washing and drying course> Thick clothes"
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  "edt": "0x2C"
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{
  "value": "washDryDisinfection",
  "descriptions": {
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    "en": "<Washing and drying course> Disinfection"
  },
  "edt": "0x2D"
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    "ja": "<洗濯乾燥コース>油汚れ",
    "en": "<Washing and drying course> Oil stains"
  },
  "edt": "0x2E"
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  "value": "washDryMemory",
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  },
  "edt": "0x2F"
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  "value": "washDryDetergentSaving",
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    "en": "<Washing and drying course> Detergent saving"
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  "descriptions": {
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  "edt": "0x31"
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    "en": "<Washing and drying course> Quick wash of small amount of laundry"
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    "en": "<Washing course> Standard"
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    "en": "<Washing course> Hard-to-remove stains"
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  "edt": "0x64"
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    "en": "<Washing course> Presoaking"
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    "en": "<Washing course> Disinfection"
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  "edt": "0x6A"
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  "value": "washOilStrains",
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    "en": "<Washing course> Oil stains"
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    "en": "<Washing course> Memory"
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    "en": "<Washing course> Tank cleaning"
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    "en": "<Drying course> Standard"
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    "en": "<Drying course> Blankets"
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    "en": "<Drying course> Soft"
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  "edt": "0xA3"
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    "en": "<Drying course> Dry"
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  "descriptions": {
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  "descriptions": {
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    "en": "<Drying course> Hang drying"
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  "descriptions": {
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{
  "value": "dryDisinfection",
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    "en": "<Drying course> Disinfection"
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    "en": "<Drying course> Shrinkage minimization"
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      "en": "<Drying course> Stationary drying"
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    "edt": "0xAB"
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    "descriptions": {
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      "en": "<Drying course> User definition of drying time"
    },
    "edt": "0xAC"
  },
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      "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"
  }
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}
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    "en": "Washer and dryer cycle option list 2"
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        "washDrySilent",
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        "washDryHardToRemove",
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        "washDryBlankets",
      ]
    }
  }
}
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    "washDryCleanRinsing",
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    "washDryMemory",
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        "en": "Standard"
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        "en": "Silent"
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    {
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        "en": "Heavily soiled clothes"
      }
    },
    {
      "edt": "0x23"
    },
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        "en": "Hard-to-remove stains"
      }
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    "en": "Blankets"
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  "edt": "0x27"
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},
{
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    "en": "Clean rinsing"
  },
  "edt": "0x29"
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    "en": "Disinfection"
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    "en": "Oil stains"
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  "edt": "0x2E"
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  "edt": "0x2F"
},
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    "en": "Detergent saving"
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{
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    "en": "Lightly soiled clothes"
  },
  "edt": "0x31"
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{
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    "en": "Quick wash of small amount of laundry"
  },
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  "value": "washDryTankCleaning",
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  "edt": "0x3F"
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    "dryDisinfection",
    "dryShrinkageMinimization",
    "dryFinishing",
    "dryStationaryDrying",
    "dryUserDefinedTime",
    "dryWarming",
    "dryHeaterCurrentLimit",
    "dryTankDrying"
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      "descriptions": {
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        "en": "Standard"
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        "en": "Blankets"
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        "en": "Soft"
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      "en": "Thick clothes"
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        "descriptions": {
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            "en": "Garment warming"
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        "edt": "0xAD"
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            "en": "Heater current limit"
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        "edt": "0xAE"
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            "en": "Tank drying"
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        "edt": "0xBF"
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}

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    "en": "Remaining drying time"
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      "en": "Elapsed time on the on timer"
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      "minimum": 0,
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    "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",
          "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",
    "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"
},
{
  "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"
  },
  "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": {
    "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,
              "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"
  },
  "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",
              "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"
      }
    },
    {
      "value": "withoutAdditionalWater",
      "descriptions": {
        "ja": "溜めすぎ",
        "en": "Rinsing without additional feeding of water from the tap"
      }
    },
    {
      "value": "withAdditionalWater",
      "descriptions": {
        "ja": "流水すぎ",
        "en": "Rinsing with additional feeding of water from the tap"
      }
    },
    {
      "value": "shower",
      "descriptions": {
        "ja": "シャワーすぎ",
        "en": "Shower rinsing"
      }
    }
  ]
},
"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": [
                {
                    "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",
        "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"
},
{
    "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": "ソフトキーブ設定",
        "en": "Wrinkling minimization setting"
    },
    "writable": true,
    "observable": false,
    "schema": {
        "type": "string",
        "enum": [
            "enable",
            "disable"
        ],
        "values": [
            {
                "value": "enable",
                "descriptions": {
                    "ja": "ソフトキーブ入り",
                    "en": "Wrinkling minimization function on"
                },
                "edt": "0x41"
            },
            {

```

```

        "value": "disable",
        "descriptions": {
            "ja": "ソフトキーブ切り",
            "en": "Wrinkling minimization function off"
        },
        "edt": "0x42"
    }
]
},
"washingDryingTimeRemaining": {
    "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"
}
]
}
}
}
```

## 温度センサ:temperatureSensor:0x0011

### Properties

| Property | Resource Name | Access Method | Data Type | EPC (EL) | プロパティ名称 (EL)                        | Note |
|----------|---------------|---------------|-----------|----------|-------------------------------------|------|
| value    |               | GET           | number    | 0xE0     | 温度計測値<br>Measured temperature value |      |

### Device Description

```
{
  "deviceType": "temperatureSensor",
  "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
      }
    }
  }
}
```

## 電力量センサ:electricEnergySensor:0x0022

### Properties

| Property Name             | Resource | Access Method | Data Type | EPC (EL) | プロパティ名称 (EL)   | Note |
|---------------------------|----------|---------------|-----------|----------|--|------|
| cumulativeElectricEnergy  |          | GET           | number    | 0xE0     | 積算電力量計測値<br>Cumulative amounts of electric energy                      |      |
| mediumCapacitySensorValue |          | GET           | number    | 0xE1     | 中容量センサ瞬時電力値計測値<br>Medium-capacity sensor instantaneous electric energy |      |
| smallCapacitySensorValue  |          | GET           | number    | 0xE2     | 小容量センサ瞬時電力値計測値<br>Small-capacity sensor instantaneous electric energy  |      |
| largeCapacitySensorValue  |          | GET           | number    | 0xE3     | 大容量センサ瞬時電力値計測値<br>Large-capacity sensor instantaneous electric energy  |      |
| log                       |          | GET           | array     | 0xE4     | 積算電力量計測履歴情報<br>Cumulative amounts of electric energy measurement log   |      |
| effectiveVoltageValue     |          | GET           | number    | 0xE5     | 実効電圧値計測値<br>Effective voltage value                                    |      |

### Device Description

```
{
  "deviceType": "electricEnergySensor",
  "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",
      "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,
    "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": "0xFFFFFFFF"
            }
          ]
        }
      ]
    }
  },
  "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  
impleemented as a fixed value of the rated voltage of measurement."  
    }  
  }  
}
```



## 電流値センサ:currentSensor:0x0023

### Properties

| Property      | Resource Name | Access Method | Data Type | EPC (EL) | プロパティ名称 (EL)                              | Note |
|---------------|---------------|---------------|-----------|----------|---|------|
| unsignedValue |               | GET           | number    | 0xE0     | 電流値計測値1<br>Measured current value 1       |      |
| ratedVoltage  |               | GET           | number    | 0xE1     | 計測対象定格電圧値<br>Rated voltage to be measured |      |
| signedValue   |               | GET           | number    | 0xE2     | 電流値計測値2<br>Measured current value 2       |      |

### Device Description

```
{
  "deviceType": "currentSensor",
  "eoj": "0x0023",
  "descriptions": {
    "ja": "電流値センサ",
    "en": "Current value 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
      }
    },
    "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  
  }  
}  
}  
}
```

## 空調換気扇:airConditionerVentilationFan:0x0134

## Properties

| Property Resource Name | Access Method | Data Type      | EPC (EL) | プロパティ名称 (EL)  | Note |
|------------------------|---------------|----------------|----------|---|------|
| airFlowLevel           | GET, PUT      | number, string | 0xA0     | 換気風量設定<br>Set value of ventilation air flow rate          |      |
| ventilationMethod      | GET, PUT      | string         | 0xB1     | 換気方式設定<br>Ventilation method setting                      |      |
| ventilationMode        | GET, PUT      | string         | 0xB2     | 換気モード設定<br>Ventilation mode setting                       |      |
| highlowLevel           | GET, PUT      | number         | 0xB3     | 冷暖強弱設定<br>Cooling / heating high-low setting              |      |
| targetHumidity         | GET, PUT      | number         | 0xB4     | 室内相対湿度設定値<br>Set value of room relative humidity          |      |
| currentConsumption     | GET           | number         | 0xB9     | 消費電流計測値<br>Measured value of electric current consumption |      |
| humidity               | GET           | number         | 0xBA     | 室内相対湿度計測値<br>Measured value of room relative humidity     |      |
| outdoorTemperature     | GET           | number, string | 0xBE     | 外気温度計測値<br>Measured value of outdoor air temperature      |      |
| ventilationAuto        | GET, PUT      | boolean        | 0xBF     | 換気自動設定<br>Ventilation auto setting                        |      |
| co2Concentration       | GET           | number         | 0xC0     | CO2濃度計測値<br>Measured value of CO2 concentration           |      |
| smokeDetection         | GET           | boolean        | 0xC1     | 煙 (タバコ) 検知状態<br>Smoke (cigarette) detection status        |      |
| pollutionDetection     | GET           | boolean        | 0xC2     | 汚れ検知状態<br>Pollution detection status                      |      |
| outdoorHumidity        | GET           | number, string | 0xCA     | 外気相対湿度計測値<br>Measured value of outdoor relative humidity  |      |

| Property Resource Name       | Access Method | Data Type      | EPC (EL) | プロパティ名称 (EL)   | Note |
|------------------------------|---------------|----------------|----------|--|------|
| returnAirTemperature         | GET           | array          | 0xD0     | 還気温度計測値<br>Measured value of return air temperature              |      |
| returnAirHumidity            | GET           | array          | 0xD1     | 還気相对湿度計測値<br>Measured value of return relative humidity          |      |
| chargingAirTemperature       | GET           | number, string | 0xD2     | 給気温度計測値<br>Measured value of charging air temperature            |      |
| chargingAirHumidity          | GET           | number, string | 0xD3     | 給気相对湿度計測値<br>Measured value of charging relative humidity        |      |
| dischargingAirTemperature    | GET           | number, string | 0xD4     | 排気温度計測値<br>Measured value of discharging air temperature         |      |
| dischargingAirHumidity       | GET           | number, string | 0xD5     | 排気相对湿度計測値<br>Measured value of discharging air relative humidity |      |
| heatExchangerOperationStatus | GET, PUT      | boolean        | 0xE0     | 熱交換機動作設定<br>Heat exchanger operation setting                     |      |

## Device Description

```
{
  "deviceType": "airConditionerVentilationFan",
  "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"
            },
            "edt": "0x41"
          }
        ]
      }
    ]
  }
},
"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"
      },
      {
        "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"
      },
      "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",
  "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": "室内相对湿度計測値",
    "en": "Measured value of room relative humidity"
  },
  "writable": false,
  "observable": false,
  "schema": {
    "type": "number",
    "unit": "%",
    "minimum": 0,
    "maximum": 100
  }
},
"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",
        "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,
  "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"
          },
          "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
          },
          {
            "type": "string",

```

```
    "enum": [
      "unmeasurable"
    ],
    "values": [
      {
        "value": "unmeasurable",
        "descriptions": {
          "ja": "計測不能",
          "en": "Unmeasurable"
        },
        "edt": "0x7E"
      }
    ]
  }
]
}
},
"returnAirHumidity": {
  "epc": "0xD1",
  "descriptions": {
    "ja": "還気相对湿度計測値",
    "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": {
    "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": "給気相对湿度計測値",
      "en": "Measured value of charging relative humidity"
    },
    "writable": false,
    "observable": false,
    "schema": {
      "oneOf": [
        {
          "type": "number",
          "unit": "%",
          "minimum": 0,
          "maximum": 100
        },
        {
          "type": "string",
          "enum": [

```



```

    },
    "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"
            }
          ]
        }
      ]
    }
  ],
  "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"
        }
      ]
    }
  }
}

```

```
}  
  ]  
  }  
  }  
}
```



冷温水熱源機: coldOrHotWaterHeatSourceEquipment: 0x027A

Properties

| Property Resource Name           | Access Method | Data Type         | EPC (EL) | プロパティ名称 (EL)  | Note |
|----------------------------------|---------------|-------------------|----------|---|------|
| onTimerReservation               | GET,<br>PUT   | boolean           | 0x90     | ONタイマ予約設定<br>ON timer reservation setting   |      |
| timeOfOnTimer                    | GET,<br>PUT   | string            | 0x91     | ONタイマ時刻設定値<br>ON timer setting  |      |
| relativeTimeOfOnTimer            | GET,<br>PUT   | string            | 0x92     | ONタイマ相対時間設定値<br>Relative ON timer setting   |      |
| offTimerReservation              | GET,<br>PUT   | boolean           | 0x94     | OFFタイマ予約設定<br>OFF timer reservation setting   |      |
| timeOfOffTimer                   | GET,<br>PUT   | string            | 0x95     | OFFタイマ時刻設定値<br>Time set by OFF timer  |      |
| relativeTimeOfOffTimer           | GET,<br>PUT   | string            | 0x96     | OFFタイマ相対時間設定値<br>Relative OFF timer setting   |      |
| coldWaterTemperatue2MaximumLevel | GET,<br>PUT   | number            | 0xD1     | 冷水温設定2設定可能最大レベル<br>Cold water temperature setting<br>2 Maximum allowable setting<br>level |      |
| wormWaterTemperatue2MaximumLevel | GET,<br>PUT   | number            | 0xD2     | 温水温設定2設定可能最大レベル<br>Warm water temperature setting<br>2 Maximum allowable setting<br>level |      |
| operationMode                    | GET,<br>PUT   | string            | 0xE0     | 運転モード設定<br>Operation mode setting   |      |
| waterTemperature1                | GET,<br>PUT   | number,<br>string | 0xE1     | 水温設定1<br>Water temperature setting 1  |      |
| waterTemperature2                | GET,<br>PUT   | number,<br>string | 0xE2     | 水温設定2<br>Water temperature setting 2  |      |
| outwardWaterTemperatureExit      | GET           | number,<br>string | 0xE3     | 行き水温計測値 (出口水温)<br>Measured temperature of outward<br>water (Exit water Temperature)       |      |
| inwardWaterTemperatureEntrance   | GET           | number,<br>string | 0xE4     | 戻り水温計測値 (入口水温)<br>Measured temperature of inward<br>water (Entrance water<br>Temperature) |      |
| specialOperation                 | GET,<br>PUT   | string            | 0xE5     | 特殊運転設定<br>Special operation setting   |      |

| Property Resource Name            | Access Method | Data Type | EPC (EL) | プロパティ名称 (EL)                                     | Note |
|-----------------------------------|---------------|-----------|----------|--|------|
| dailyTimer                        | GET,<br>PUT   | string    | 0xE6     | デイリータイマー設定<br>Daily timer setting                |      |
| dailyTimer1                       | GET,<br>PUT   | array     | 0xE7     | デイリータイマー1設定<br>Daily timer setting 1             |      |
| dailyTimer2                       | GET,<br>PUT   | array     | 0xE8     | デイリータイマー2設定<br>Daily timer setting 2             |      |
| ratedPowerconsumption             | GET           | object    | 0xE9     | 定格消費電力値<br>Rated power consumption               |      |
| powerConsumptionMeasurementMethod | GET           | string    | 0xEA     | 消費電力計測方法<br>Power consumption measurement method |      |

## Device Description

```
{
  "deviceType": "coldOrHotWaterHeatSourceEquipment",
  "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",
              "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"
      }
    ]
  }
}
```

```

    }
  ]
}
},
"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"
  }
},
"coldWaterTemperature2MaximumLevel": {
  "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"
  }
},
"warmWaterTemperature2MaximumLevel": {
  "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
    },
    "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": [
                {
                    "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": "AUTO",
                            "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": {
    "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"
            }
        ]
    }
]
}
],
"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",
      "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",
              "note": {
                "ja": "開始分は0分もしくは30分",
                "en": "Time is fixed at 0 or 30 min."
              }
            },
            "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."
              }
            }
          }
        }
      },
      "note": {
        "ja": "24時間を30分単位で分割、全6バイトを割り当て、各bit 1:運転、0:停止",
        "en": "Set the time in the unit of 30 minutes, dividing 24 hours by 30 minutes and allocated 6 bytes. Each bit 1: worked 0: stopped."
      }
    },
    "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",
        "note": {
          "ja": "開始分は0分もしくは30分",
          "en": "Time is fixed at 0 or 30 min."
        }
      },
      "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."
        }
      }
    }
  }
},
"note": {
  "ja": "24時間を30分単位で分割、全6バイトを割り当て、各bit 1:運転、0:停止",
  "en": "Set the time in the unit of 30 minutes, dividing 24 hours by 30 minutes and allocated 6 bytes. Each bit 1: worked 0: stopped."
},
"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"
        }
      }
    }
  }
}

```

```

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

## 電力量メータ:wattHourMeter:0x0280

### Note to Server:

以下のECHONET LiteのPropertyは、ECHONET LiteでGETした値に積算電力量単位（EPC=0xE2）を乗算することで実際の値となる。サーバ側でこれらの計算を行うこととする。したがってECHONET Lite Web APIでは取得した値をそのまま利用できる。

また以下のECHONET LiteのPropertyで定義されるmaximumの値は、99999999と積算電力量単位（EPC=0xE2）を乗算した値となる。サーバ側でこれらの計算を行い設定することとする。同じく以下のECHONET LiteのPropertyで定義されるmultipleOfの値は、積算電力量単位（EPC=0xE2）の値となる。サーバ側でこれらの値を設定することとする。

- 積算電力量計測値
- 積算電力量計測値履歴1

### 例:

```
積算電力量計測値 (EPC=0xE0) : 0x00BC614E (12345678)
積算電力量単位 (EPC=0xE2) : 0x02 (0.01kWh) の場合
  実際の積算電力量 12345678 × 0.01=123456.78[kWh]
  maximumの値      99999999 × 0.01=999999.99
  multipleOfの値   0.01
```

### Properties

| Property Resource Name       | Access Method | Data Type | EPC (EL) | プロパティ名称 (EL)   | Note |
|------------------------------|---------------|-----------|----------|--|------|
| cumulativeElectricEnergy     | GET           | number    | 0xE0     | 積算電力量計測値<br>Cumulative amounts of electric energy measurement value    |      |
| cumulativeElectricEnergyLog1 | GET           | array     | 0xE3     | 積算電力量計測値履歴1<br>Cumulative amounts of electric energy measurement log 1 |      |

### Device Description

```
{
  "deviceType": "wattHourMeter",
  "eoj": "0x0280",
  "descriptions": {
    "ja": "電力量メータ",
    "en": "Watt-hour meter"
  },
  "properties": {
    "cumulativeElectricEnergy": {
      "epc": "0xE0",
      "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,
      "maximum": 999999.99,
      "multipleOf": 0.01,
      "coefficient": [
        "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,
            "maximum": 999999.99,
            "multipleOf": 0.01,
            "coefficient": [
              "0xE2"
            ]
          },
          {
            "type": "string",
            "enum": [
              "noData"
            ],
            "values": [
              {
                "value": "noData",
                "descriptions": {
                  "ja": "No data",
                  "en": "No data"
                },
                "edt": "0xFFFFFFFF"
              }
            ]
          }
        ]
      }
    }
  }
}

```

```
}  
}
```



## 分電盤メータリング:powerDistributionBoardMetering:0x0287

### Note to Server:

以下のECHONET LiteのPropertyは、ECHONET LiteでGETした値に積算電力量単位 (EPC=0xC2) を乗算することで実際の値となる。サーバ側でこれらの計算を行うこととする。したがってECHONET Lite Web APIでは取得した値をそのまま利用できる。

また以下のECHONET LiteのPropertyで定義されるmaximumの値は、99999999と積算電力量単位 (EPC=0xC2) を乗算した値となる。サーバ側でこれらの計算を行い設定することとする。同じく以下のECHONET LiteのPropertyで定義されるmultipleOfの値は、積算電力量単位 (EPC=0xC2) の値となる。サーバ側でこれらの値を設定することとする。

- 積算電力量計測値リスト (片方向)
- 積算電力量計測値リスト (双方向)
- 積算電力量計測値 (正方向)
- 積算電力量計測値 (逆方向)
- 積算電力量計測値履歴 (正方向)
- 積算電力量計測値履歴 (逆方向)
- 計測チャンネル1~32

### 例:

```
積算電力量計測値 (正方向) (EPC=0xC0) : 0x00BC614E (12345678)
積算電力量単位 (EPC=0xC2)           : 0x02 (0.01kWh)   の場合
  実際の積算電力量 12345678 × 0.01=123456.78[kWh]
  maximumの値      99999999 × 0.01=999999.99
  multipleOfの値   0.01
```

以下のECHONET LiteのPropertyは、ECHONET LiteでデータをGETする前に「積算履歴収集日 (EPC=0xC5)」をSETする必要がある。ECHONET Lite Web APIでは以下のPropertyをGET (REST) する際に「積算履歴収集日」の値をQueryとして指定する。サーバはECHONET Liteで「積算履歴収集日」をSETしたのち「積算電力量計測値履歴」をGETする。なお、ECHONET Lite Web APIでqueryを付加しない場合は「積算履歴収集日」=0として扱う。

- 積算電力量計測値履歴 (正方向)
- 積算電力量計測値履歴 (逆方向)

以下の計測値リストに記載されているECHONET LiteのPropertyは、ECHONET LiteでデータをGETする前に計測チャンネル範囲指定に記載されているPropertyをSETする必要がある。ECHONET Lite Web APIでは以下の計測値リスト記載のPropertyをGET (REST) する際に計測チャンネル範囲指定記載のPropertyの値をQueryとして指定する。サーバはECHONET Liteで計測チャンネル範囲指定記載のPropertyをSETしたのち計測値リスト記載のPropertyをGETする。

| 計測値リスト            | 計測チャンネル範囲指定            |
|-------------------|------------------------|
| 積算電力量計測値リスト (片方向) | 積算電力量計測チャンネル範囲指定 (片方向) |
| 瞬時電流計測値リスト (片方向)  | 瞬時電流計測チャンネル範囲指定 (片方向)  |
| 瞬時電力計測値リスト (片方向)  | 瞬時電力計測チャンネル範囲指定 (片方向)  |
| 積算電力量計測値リスト (双方向) | 積算電力量計測チャンネル範囲指定 (双方向) |
| 瞬時電流計測値リスト (双方向)  | 瞬時電流計測チャンネル範囲指定 (双方向)  |
| 瞬時電力計測値リスト (双方向)  | 瞬時電力計測チャンネル範囲指定 (双方向)  |

Properties

| Property Resource Name                | Access Method | Data Type         | EPC (EL) | プロパティ名称 (EL)   | Note |
|---------------------------------------|---------------|-------------------|----------|--|------|
| masterRatedCapacity                   | GET           | number            | 0xB0     | 主幹定格容量<br>Master rated capacity  |      |
| numberOfMeasurementChannelsSimplex    | GET           | number,<br>string | 0xB1     | 計測チャンネル数 (片方向)<br>Number of measurement channels (simplex)                                   |      |
| cumulativeElectricEnergyListSimplex   | GET           | object            | 0xB3     | 積算電力量計測値リスト (片方向)<br>Measured cumulative amount of electric power consumption list (simplex) | *1   |
| instantaneousCurrentListSimplex       | GET           | object            | 0xB5     | 瞬時電流計測値リスト (片方向)<br>Measured instantaneous current list (simplex)                            | *1   |
| instantaneousElectricPowerListSimplex | GET           | object            | 0xB7     | 瞬時電力計測値リスト (片方向)<br>Measured instantaneous power consumption list (simplex)                  | *1   |
| numberOfMeasurementChannelsDuplex     | GET           | number,<br>string | 0xB8     | 計測チャンネル数 (双方向)<br>Number of measurement channels (duplex)                                    |      |
| cumulativeElectricEnergyListDuplex    | GET           | object            | 0xBA     | 積算電力量計測値リスト (双方向)<br>Measured cumulative amount of electric power consumption list (duplex)  | *1   |
| instantaneousCurrentListDuplex        | GET           | object            | 0xBC     | 瞬時電流計測値リスト (双方向)<br>Measured instantaneous current list (duplex)                             | *1   |
| instantaneousElectricPowerListDuplex  | GET           | object            | 0xBE     | 瞬時電力計測値リスト (双方向)<br>Measured instantaneous power consumption list (duplex)                   | *1   |

| Property Resource Name                      | Access Method | Data Type      | EPC (EL) | プロパティ名称 (EL)  | Note |
|---|---------------|----------------|----------|---|------|
| normalDirectionCumulativeElectricEnergy     | GET           | number, string | 0xC0     | 積算電力量計測値 (正方向)<br>Measured cumulative amount of electric energy (normal direction)                        |      |
| reverseDirectionCumulativeElectricEnergy    | GET           | number, string | 0xC1     | 積算電力量計測値 (逆方向)<br>Measured cumulative amount of electric energy (reverse direction)                       |      |
| normalDirectionCumulativeElectricEnergyLog  | GET           | object         | 0xC3     | 積算電力量計測値履歴 (正方向)<br>Historical data of measured cumulative amounts of electric energy (normal direction)  | *1   |
| reverseDirectionCumulativeElectricEnergyLog | GET           | object         | 0xC4     | 積算電力量計測値履歴 (逆方向)<br>Historical data of measured cumulative amounts of electric energy (reverse direction) | *1   |
| instantaneousElectricPower                  | GET           | number, string | 0xC6     | 瞬時電力計測値<br>Measured instantaneous amount of electric energy   |      |
| instantaneousCurrent                        | GET           | object         | 0xC7     | 瞬時電流計測値<br>Measured instantaneous currents  |      |
| instantaneousVoltage                        | GET           | object         | 0xC8     | 瞬時電圧計測値<br>Measured instantaneous voltages  |      |
| measurementChannel1                         | GET           | object         | 0xD0     | 計測チャンネル1<br>Measurement channel 1   |      |
| measurementChannel2                         | GET           | object         | 0xD1     | 計測チャンネル2<br>Measurement channel 2   |      |

| Property Resource Name | Access Method | Data Type | EPC (EL) | プロパティ名称 (EL)                        | Note |
|------------------------|---------------|-----------|----------|-------------------------------------|------|
| measurementChannel3    | GET           | object    | 0xD2     | 計測チャンネル3<br>Measurement channel 3   |      |
| measurementChannel4    | GET           | object    | 0xD3     | 計測チャンネル4<br>Measurement channel 4   |      |
| measurementChannel5    | GET           | object    | 0xD4     | 計測チャンネル5<br>Measurement channel 5   |      |
| measurementChannel6    | GET           | object    | 0xD5     | 計測チャンネル6<br>Measurement channel 6   |      |
| measurementChannel7    | GET           | object    | 0xD6     | 計測チャンネル7<br>Measurement channel 7   |      |
| measurementChannel8    | GET           | object    | 0xD7     | 計測チャンネル8<br>Measurement channel 8   |      |
| measurementChannel9    | GET           | object    | 0xD8     | 計測チャンネル9<br>Measurement channel 9   |      |
| measurementChannel10   | GET           | object    | 0xD9     | 計測チャンネル10<br>Measurement channel 10 |      |
| measurementChannel11   | GET           | object    | 0xDA     | 計測チャンネル11<br>Measurement channel 11 |      |
| measurementChannel12   | GET           | object    | 0xDB     | 計測チャンネル12<br>Measurement channel 12 |      |
| measurementChannel13   | GET           | object    | 0xDC     | 計測チャンネル13<br>Measurement channel 13 |      |
| measurementChannel14   | GET           | object    | 0xDD     | 計測チャンネル14<br>Measurement channel 14 |      |
| measurementChannel15   | GET           | object    | 0xDE     | 計測チャンネル15<br>Measurement channel 15 |      |
| measurementChannel16   | GET           | object    | 0xDF     | 計測チャンネル16<br>Measurement channel 16 |      |
| measurementChannel17   | GET           | object    | 0xE0     | 計測チャンネル17<br>Measurement channel 17 |      |
| measurementChannel18   | GET           | object    | 0xE1     | 計測チャンネル18<br>Measurement channel 18 |      |
| measurementChannel19   | GET           | object    | 0xE2     | 計測チャンネル19<br>Measurement channel 19 |      |
| measurementChannel20   | GET           | object    | 0xE3     | 計測チャンネル20<br>Measurement channel 20 |      |

| Property Resource Name | Access Method | Data Type | EPC (EL) | プロパティ名称 (EL)                        | Note |
|------------------------|---------------|-----------|----------|-------------------------------------|------|
| measurementChannel21   | GET           | object    | 0xE4     | 計測チャンネル21<br>Measurement channel 21 |      |
| measurementChannel22   | GET           | object    | 0xE5     | 計測チャンネル22<br>Measurement channel 22 |      |
| measurementChannel23   | GET           | object    | 0xE6     | 計測チャンネル23<br>Measurement channel 23 |      |
| measurementChannel24   | GET           | object    | 0xE7     | 計測チャンネル24<br>Measurement channel 24 |      |
| measurementChannel25   | GET           | object    | 0xE8     | 計測チャンネル25<br>Measurement channel 25 |      |
| measurementChannel26   | GET           | object    | 0xE9     | 計測チャンネル26<br>Measurement channel 26 |      |
| measurementChannel27   | GET           | object    | 0xEA     | 計測チャンネル27<br>Measurement channel 27 |      |
| measurementChannel28   | GET           | object    | 0xEB     | 計測チャンネル28<br>Measurement channel 28 |      |
| measurementChannel29   | GET           | object    | 0xEC     | 計測チャンネル29<br>Measurement channel 29 |      |
| measurementChannel30   | GET           | object    | 0xED     | 計測チャンネル30<br>Measurement channel 30 |      |
| measurementChannel31   | GET           | object    | 0xEE     | 計測チャンネル31<br>Measurement channel 31 |      |
| measurementChannel32   | GET           | object    | 0xEF     | 計測チャンネル32<br>Measurement channel 32 |      |

\*1 queryあり

以下に示すDevice Description中のmaximumとmultipleOfの値は一例である。実際の値は、前述のNote to Serverを参考に設定すること。

#### Device Description

```
{
  "deviceType": "powerDistributionBoardMetering",
  "eoj": "0x0287",
  "descriptions": {
    "ja": "分電盤メータリング",
    "en": "Power distribution board"
  },
  "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"
          ],
          "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",
          "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": {
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      {
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        "unit": "kWh",
        "minimum": 0,
        "maximum": 999999.99,
        "multipleOf": 0.01,
        "coefficient": [
          "0xC2"
        ]
      },
      {
        "type": "string",
        "enum": [
          "noData"
        ],
        "values": [

```



```

        {
            "value": "noData",
            "descriptions": {
                "ja": "No data",
                "en": "No data"
            },
            "edt": "0xFFFFFFFF"
        }
    ]
}
]
}
}
}
},
"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": {
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                "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"
            ],
            "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"
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  "type": "array",
  "maxItems": 60,
  "items": {
    "type": "object",
    "properties": {
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            "type": "number",
            "unit": "A",
            "minimum": -3276.7,
            "maximum": 3276.5,
            "multipleOf": 0.1
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          {
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            "enum": [
              "noData"
            ],
            "values": [
              {
                "value": "noData",
                "descriptions": {
                  "ja": "No data",
                  "en": "No data"
                },
                "edt": "0x7FFE"
              }
            ]
          }
        ]
      }
    }
  },
  "tPhase": {
    "oneOf": [
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        "type": "number",
        "unit": "A",
        "minimum": -3276.7,
        "maximum": 3276.5,
        "multipleOf": 0.1
      },
      {
        "type": "string",
        "enum": [
          "noData"
        ],
        "values": [
          {
            "value": "noData",
            "descriptions": {
              "ja": "No data",
```

```
        "en": "No data"
      },
      "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"
        }
      }
    }
  }
}
```

```

    },
    "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": [
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          {
            "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"
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    "maxItems": 60,
    "items": {
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                "unit": "W",
                "minimum": -2147483647,
                "maximum": 2147483645
            },
            {
                "type": "string",
                "enum": [
                    "noData"
                ],
                "values": [
                    {
                        "value": "noData",
                        "descriptions": {
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                            "en": "No data"
                        },
                        "edt": "0x7FFFFFFE"
                    }
                ]
            }
        ]
    }
}
}
}
}
}
},
"numberOfMeasurementChannelsDuplex": {
    "epc": "0xB8",
    "descriptions": {
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        "en": "Number of measurement channels (duplex)"
    },
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    "observable": false,
    "schema": {
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            {
                "type": "number",
                "minimum": 1,
                "maximum": 252
            },
            {
                "type": "string",
                "enum": [
                    "undefined"
                ],
                "values": [

```

```

        {
            "value": "undefined",
            "descriptions": {
                "ja": "不明",
                "en": "Undefined"
            },
            "edt": "0xFD"
        }
    ]
}
],
},
"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": {
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            "edt": "0xFD"
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            "edt": "0xFD"
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      }
    ]
  },
  "electricEnergy": {
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    "en": "Measured cumulative amount of electric power consumption",
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            "multipleOf": 0.01,
            "coefficient": [
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            ]
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            "values": [
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  }
}
},
"instantaneousCurrentListDuplex": {
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  "epcAtomic": "0xBB",
  "descriptions": {
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    "en": "Measured instantaneous current list (duplex)"
  },
  "writable": false,
  "observable": false,
  "urlParameters": {
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        "en": "Acquisition start channel"
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        "minimum": 1,
        "maximum": 252
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      "required": true
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    "range": {
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        "en": "Range from the acquisition start channel"
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    "properties": {
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            "en": "Acquisition start channel"
        },
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            }
        ]
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}

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                    },
                    "edt": "0x7FFE"
                  }
                ]
              }
            ]
          }
        }
      },
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},
"instantaneousElectricPowerListDuplex": {
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    "epcAtomic": "0xBD",
    "descriptions": {
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        "en": "Measured instantaneous power consumption list (duplex)"
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    "observable": false,
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                "en": "Acquisition start channel"
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            "required": true
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            "values": [
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        }
    ]
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      "en": "Measured instantaneous power consumption"
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            }
          ]
        }
      ]
    }
  ],
},
"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)"
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  "writable": false,
  "observable": false,
  "schema": {
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        "unit": "kWh",
        "minimum": 0,
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        "coefficient": [
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        ]
      }
    ]
  },
},
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            "en": "No data"
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        }
      ]
    }
  ]
}
],
"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)"
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        ]
      }
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            "en": "No data"
          },
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    }
  ]
}
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    }
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    "descriptions": {
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      "en": "Historical data of measured cumulative amounts of electric energy (normal direction)"
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          "en": "Day for which the historical data of measured cumulative amounts of electric
energy is to be retrieved"
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          "minimum": 0,
          "maximum": 99
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        "required": false
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      "properties": {
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            "en": "Day for which the historical data of measured cumulative amounts of electric
energy is to be retrieved"
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              ],
              "values": [
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                  "descriptions": {
                    "ja": "初期値",
                    "en": "Default value"
                  }
                }
              ],
              "edt": "0x00FF"
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          ]
        }
      }
    }
  ]

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    }
  ]
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    "en": "The historical data of measured cumulative amounts of electric energy (8
digits)"
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        "multipleOf": 0.01,
        "coefficient": [
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        ]
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        ],
        "values": [
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              "en": "No data"
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        ]
      }
    ]
  }
}
]
}
},
"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 multiplied by
EPC=0xC2."
}
},
"reverseDirectionCumulativeElectricEnergyLog": {
  "epc": "0xC4",
  "epcAtomic": "0xC5",
  "descriptions": {
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```
    "en": "Historical data of measured cumulative amounts of electric energy (reverse direction)"
  },
  "writable": false,
  "observable": false,
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        "en": "Day for which the historical data of measured cumulative amounts of electric
energy is to be retrieved"
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energy is to be retrieved"
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            "values": [
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                "value": "defaultValue",
                "descriptions": {
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                  "en": "Default value"
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          }
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  },
  "electricEnergy": {
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      "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
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digits)"
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                "en": "No data"
              },
              "edt": "0xFFFFFFFF"
            }
          ]
        }
      ]
    }
  ],
  "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 multiplied by EPC=0xC2."
  },
  "instantaneousElectricPower": {
    "epc": "0xC6",
    "descriptions": {
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    "values": [
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    ]
  }
]
}
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  "descriptions": {
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    "en": "Measured instantaneous currents"
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  "observable": false,
  "schema": {
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          "en": "R phase"
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                }
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        }
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    "descriptions": {
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        "en": "Measured instantaneous voltages"
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    "descriptions": {
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        "properties": {
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                    "en": "Measured cumulative amount of electric power consumption"
                },
                "oneOf": [
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                        "type": "number",
                        "unit": "kWh",
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                        "coefficient": [
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                        ]
                    },
                    {
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                        "values": [

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        }
      ]
    }
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      "en": "Measured instantaneous current (R phase)"
    },
    "oneOf": [
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              "en": "No data"
            },
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          }
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      }
    ]
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      "en": "Measured instantaneous current (T phase)"
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        "unit": "A",
        "minimum": -3276.7,
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        "multipleOf": 0.1
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              "edt": "0x7FFE"
            }
          ]
        }
      ]
    }
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    "descriptions": {
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      "en": "Measurement channel 2"
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    "observable": false,
    "schema": {
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      "properties": {
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            "en": "Measured cumulative amount of electric power consumption"
          },
          "oneOf": [
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              "type": "number",
              "unit": "kWh",
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              "maximum": 999999.99,
              "multipleOf": 0.01,
              "coefficient": [
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              ]
            }
          ],
          {
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            "enum": [
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            "values": [
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          "en": "No data"
        },
        "edt": "0xFFFFFFFF"
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  }
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    "en": "Measured instantaneous current (R phase)"
  },
  "oneOf": [
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      "unit": "A",
      "minimum": -3276.7,
      "maximum": 3276.5,
      "multipleOf": 0.1
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  "epc": "0xE6",
  "descriptions": {
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    "en": "Measurement channel 23"
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          "en": "Measured cumulative amount of electric power consumption"
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          "unit": "kWh",
          "minimum": 0,

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            "edt": "0xFFFFFFFF"
        ]
    }
]
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        "en": "Measured instantaneous current (R phase)"
    },
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            "unit": "A",
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            "maximum": 3276.5,
            "multipleOf": 0.1
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                "descriptions": {
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          "en": "Measured cumulative amount of electric power consumption"
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  ]
}
},
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    ]
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  }
]
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      "maximum": 3276.5,
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    },
    {
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      ],
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          "descriptions": {
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          },
          "edt": "0x7FFE"
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    }
  ]
}
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        "multipleOf": 0.1
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        ],
        "values": [
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            "descriptions": {
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              "en": "No data"
            },
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      }
    ]
  }
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"measurementChannel26": {
  "epc": "0xE9",
  "descriptions": {
    "ja": "計測チャンネル26",
    "en": "Measurement channel 26"
  },
  "writable": false,
  "observable": false,
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        "descriptions": {
          "ja": "積算電力量計測値",
          "en": "Measured cumulative amount of electric power consumption"
        },
        "oneOf": [
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            "type": "number",
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            "minimum": 0,
            "maximum": 999999.99,
            "multipleOf": 0.01,
            "coefficient": [
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            ]
          }
        ],
      },
    }
  },
}

```



```

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                "en": "No data"
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            }
          ]
        }
      ]
    },
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        "en": "Measured instantaneous current (R phase)"
      },
      "oneOf": [
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    "descriptions": {
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        "en": "Measurement channel 27"
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    "writable": false,
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            ]
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          ]
        }
      ]
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          "unit": "A",

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    ]
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      "unit": "A",
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}
}
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"measurementChannel29": {
    "epc": "0xEC",
    "descriptions": {
        "ja": "計測チャンネル29",
        "en": "Measurement channel 29"
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    "writable": false,
    "observable": false,
    "schema": {
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        "properties": {
            "electricEnergy": {
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                    "ja": "積算電力量計測値",
                    "en": "Measured cumulative amount of electric power consumption"
                },
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                        "unit": "kWh",
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                        ]
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                ],
            },
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      "en": "Measured instantaneous current (R phase)"
    },
    "oneOf": [
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          }
        ]
      }
    ]
  },
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      "en": "Measured instantaneous current (T phase)"
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    "oneOf": [
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        "unit": "A",
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  "measurementChannel30": {
    "epc": "0xED",
    "descriptions": {
      "ja": "計測チャンネル30",
      "en": "Measurement channel 30"
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    "writable": false,
    "observable": false,
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      "properties": {
        "electricEnergy": {
          "descriptions": {
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            "en": "Measured cumulative amount of electric power consumption"
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              "unit": "kWh",
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              "multipleOf": 0.01,
              "coefficient": [
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              ]
            }
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            "unit": "A",
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            "maximum": 3276.5,
            "multipleOf": 0.1
        },
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            "enum": [
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            ],
            "values": [
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                        "en": "No data"
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                }
            ]
        }
    ]
},
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        "en": "Measured instantaneous current (T phase)"
    },
    "oneOf": [
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}
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"measurementChannel31": {
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  "descriptions": {
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    "en": "Measurement channel 31"
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  "writable": false,
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    "properties": {
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        "descriptions": {
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          "en": "Measured cumulative amount of electric power consumption"
        },
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            "unit": "kWh",
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            "multipleOf": 0.01,
            "coefficient": [
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```

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],
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      "multipleOf": 0.1
    },
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      "maximum": 3276.5,
      "multipleOf": 0.1
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```
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    }
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}
]
}
}
}
}
}
}
}
```

テレビ:tv:0x0602

### Properties

| Property Resource Name        | Access Method | Data Type | EPC (EL) | プロパティ名称 (EL)  | Note |
|-------------------------------|---------------|-----------|----------|---|------|
| displayControlStatus          | GET, PUT      | string    | 0xB0     | 表示制御設定<br>Display control setting                         |      |
| stringSettingAcceptanceStatus | GET           | string    | 0xB1     | 文字列設定受付可能状態<br>Character string setting acceptance status |      |
| supportedCharCode             | GET           | object    | 0xB2     | 表示可能文字コード<br>Supported character codes                    |      |
| characterStringPresented      | GET, PUT      | object    | 0xB3     | 伝達文字列設定<br>Character string to present to the user        |      |
| lengthOfStringAccepted        | GET           | object    | 0xB4     | 受け付け伝達文字列長<br>Length of character string accepted         |      |

### Device Description

```
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  "deviceType": "tv",
  "eoj": "0x0602",
  "descriptions": {
    "ja": "テレビ",
    "en": "Television"
  },
  "properties": {
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      "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": [
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            "value": "enabled",
            "descriptions": {
              "ja": "表示",
              "en": "Displaying enabled"
            }
          }
        ]
      }
    }
  }
}
```

```
    },
    "edt": "0x30"
  },
  {
    "value": "disabled",
    "descriptions": {
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      "en": "Displaying disabled"
    },
    "edt": "0x31"
  }
]
}
},
"stringSettingAcceptanceStatus": {
  "epc": "0xB1",
  "descriptions": {
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    "en": "Character string setting acceptance status"
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  "observable": true,
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      {
        "value": "busy",
        "descriptions": {
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          "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."
  }
},
"supportedCharCode": {
  "epc": "0xB2",
  "descriptions": {
```



```
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    "en": "Supported character codes"  
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    "properties": {  
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            "value": true,  
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      "shiftJisEquipped": {  
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            "edt": "0x01"  
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        "values": [  
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            "value": false,  
            "descriptions": {
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        "en": "Not implemented"
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                "en": "Not implemented"
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            "value": true,
            "descriptions": {
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                "en": "Implemented"
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            "edt": "0x01"
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                "en": "Not implemented"
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            "edt": "0x00"
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        {
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            "descriptions": {
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                "en": "Implemented"
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            "edt": "0x01"
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            "en": "Not implemented"  
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        {  
          "value": true,  
          "descriptions": {  
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            "en": "Implemented"  
          },  
          "edt": "0x01"  
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          "descriptions": {  
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            "en": "Not implemented"  
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          "edt": "0x00"  
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          "descriptions": {  
            "ja": "搭載",  
            "en": "Implemented"  
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          "edt": "0x01"  
        }  
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  ]  
}
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            "en": "Implemented"
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        "edt": "0x01"
    }
]
}
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"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."
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},
"characterStringPresented": {
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    "descriptions": {
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        "en": "Character string to present to the user"
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    "writable": true,
    "observable": false,
    "schema": {
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        "properties": {
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                "descriptions": {
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                    "en": "Byte code sequence data length of the character string to present to the user
converted to the hexadecimal format"
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                "type": "number",
                "minimum": 0,
                "maximum": 244
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                    "en": "Character code to use"
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                    "shift_jis",
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                    "ucs_4",
                    "ucs_2",
                    "latin_1",
                    "utf_8"
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      "en": "ANSI X3.4"
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    "edt": "0x01"
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      "en": "Shift-JIS"
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      "en": "JIS"
    },
    "edt": "0x03"
  },
  {
    "value": "japanese_euc",
    "descriptions": {
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      "en": "Japanese EUC"
    },
    "edt": "0x04"
  },
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      "en": "UCS-4"
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    "edt": "0x05"
  },
  {
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      "en": "UCS-2"
    },
    "edt": "0x06"
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  {
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    "descriptions": {
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      "en": "Latin-1"
    },
    "edt": "0x07"
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  {
    "value": "utf_8",
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        "edt": "0x08"
      }
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  "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": {
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    "en": "Length of character string accepted"
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  "writable": false,
  "observable": false,
  "schema": {
    "type": "object",
    "properties": {
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        "descriptions": {
          "ja": "0x00-0xF4",
          "en": "0x00 to 0xF4"
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        "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."
}
}
}
```