# PUCC Metadata Specification -

# Home Appliance Part 3 ECHONET Devices

# (Version 1.0 - September 30, 2007)

**Peer-to-Peer Universal Computing Consortium (PUCC)**

**Intellectual Property Notice**

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# 1. Introduction

This document defines the PUCC metadata specification for the devices which have an ECHONET-compliant interface.

The specification targets the devices listed below as the devices with an ECHONET interface.

(1) Home air conditioner devices
(2) General lighting devices
(3) Electronic locking devices
(4) Open/close sensor devices
(5) Visitor sensor devices
(6) Mailing sensor devices
(7) Crime prevention sensor devices
(8) Fire sensor devices
(9) Emergency button devices
(10) Instantaneous water heater devices
(11) Floor heating devices

This specification is based on “ECHONET Specification Ver3.21 (Japanese version/open to the public).”

# 2. Terminology

## 2.1. Definitions

The following terms are defined in the PUCC Device Discovery and Service Invocation Protocol Specification.

- Service;

- Device;

The templates for the devices and services are defined by the "PUCC Device and Service Metadata Templates".

## 2.2. Abbreviations

| | |
|---|---|
| **PUCC** | Peer-to-Peer Universal Computing Consortium |
| **TD** | Technical Document |
| **TS** | Technical Specification |
| **TR** | Technical Report |
| **WG** | Working group |

**ECHONET** Energy Conservation and Homecare Network

# 3. References

**[PUCC]** "Peer-to-Peer Universal Computing Consortium",

URL: http://www.pucc.jp/

**[XML]** "Extensible Markup Language (XML) 1.0 (Second Edition)", W3C Recommendation 6 October 2000, T. Bray et al. URL: http://www.w3.org/TR/2000/REC-xml-20001006

**[HTTP]** "Hypertext Transfer Protocol -- HTTP/1.1", RFC2616, R. Fielding et al., June 1999. URL:http://www.ietf.org/rfc/rfc2616.txt

**[TCP]** "Transmission Control Protocol" RFC793, J. Postel. September1981.

URL: http://www.ietf.org/rfc/rfc793.txt

**[UDP]** "User Datagram Protocol", RFC768, J. Postel. August 28 1980.

URL: http://www.ietf.org/rfc/rfc768.txt

**[IP]** "Internet Protocol" RFC791, J. Postel. September 1981.

URL: http://www.ietf.org/rfc/rfc791.txt

**[URI]** "Universal Resource Identifier"

URL: http://www.w3.org/Addressing/

**[ECHONET]** "ECHONET"

URL: http://www.echonet.gr.jp/

# 4. Goal and Requirements

## 4.1. Goal

The goal of this document is:

- To define the PUCC metadata for the devices which have an ECHONET-compliant interface

## 4.2. Requirements

### 4.2.1. Generality

The metadata description must be independent of any particular manufacture.

# 5. Summary

The ECHONET modelizes facility-related devices and home information appliances such as sensors, air conditioners and refrigerators as “device objects,” which can be remotely controlled or of which information can be remotely accessed.

As the ECHONET classifies “device objects” by device type regardless of their manufacturers, even devices made by different manufactures can be remotely controlled in the exact the same way as long as they are of the same type of devices.

The ECHONET defines facility-related devices and home information appliances such as sensors, air conditioners and refrigerators as “device objects.” It also defines the properties common to all classes as the “device object superclass.”

In defining the PUCC device metadata, the properties specified in the ECHONET’s “device object superclass” are defined as the state variables common to all devices. The services for acquiring and updating the state variables are defined as the services common to all devices.

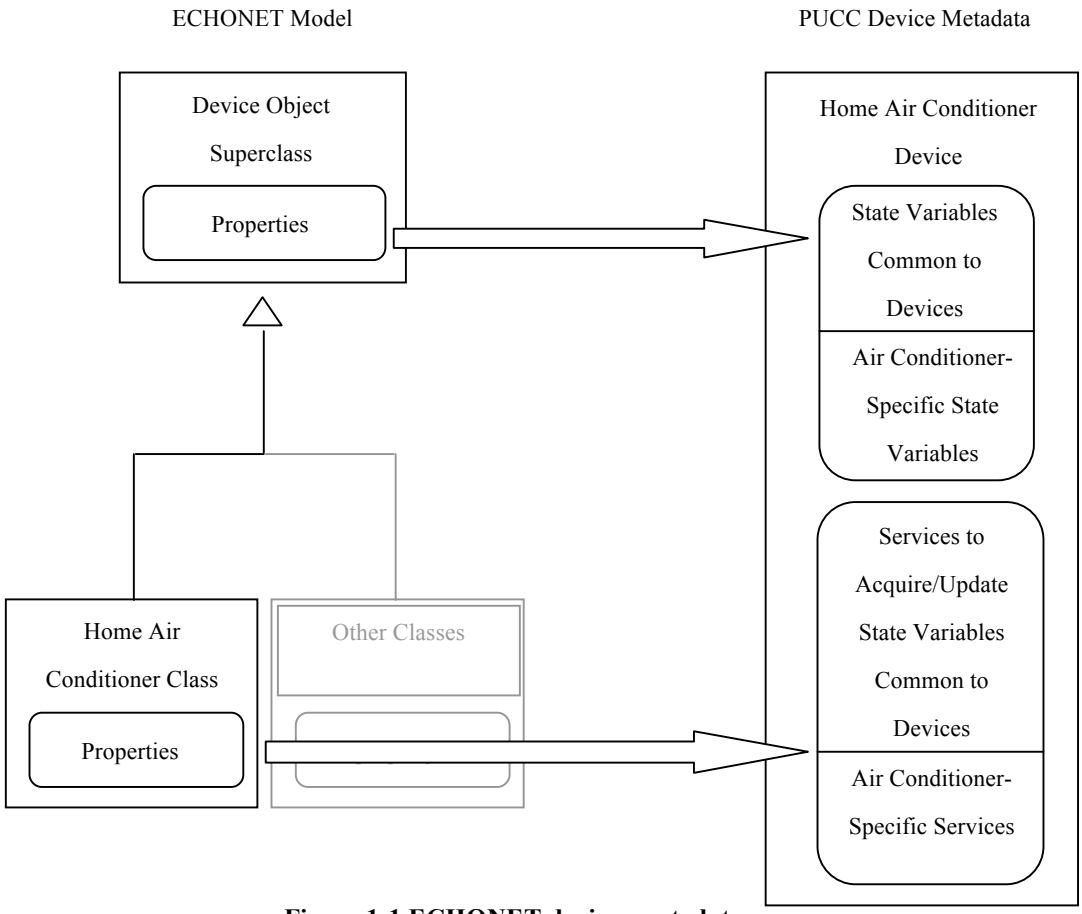


**Figure 1-1 ECHONET devices metadata**

# 6. Model Common to Devices

This chapter defines the state variables and services which are common to all devices.

The state variables common to devices correspond to the properties of the device object superclass of the ECHONET.

The services common to devices are used to acquire and set the value of state variables common to devices.

## 6.1. State Variables Common to Devices

Table6.1-1 shows a list of state variables common to devices.

**Table 6.1-1: State variables common to devices**

| | State Variable Name | Description | Data Type | Event Generation (Yes/No) |
|---|---|---|---|---|
| 1 | OperationStatus | Indicates the operation status | string | Yes |
| 2 | InstallationLocation | Indicates the installation location | hexBinary | Yes |
| 3 | SpecVersionInfoCode | Indicates the specification version information code | string | No |
| 4 | LowerNodeIdCode | Indicates the node identification code (the ID field for lower-layer communication software) | string | No |
| 5 | NodeIdCode | Indicates the node identification code (the individual number field) | string | No |
| 6 | ManufacturerErrorCode | Indicates a manufacturer error code | string | No |
| 7 | PowerLimit | Indicates the power limit | integer | No |
| 8 | FaultStatus | Indicates the status of a fault | string | No |
| 9 | FaultContent | Indicates the content of a fault | hexBinary | No |
| 10 | MakerCode | Indicates the code of the manufacturer | string | No |
| 11 | PlaceOfBuisinessCode | Indicates the code of the place of business | string | No |
| 12 | EnergySavingStatus | Indicates the setting for power saving operation | string | No |
| 13 | PresentTime | Indicates the present time | time | No |
| 14 | PresentDate | Indicates the setting of the present date (Year/Month/Day) | date | No |
| 15 | CumulatedRunTimeValue | Indicates the value of cumulative runtime | hexBinary | No |

The properties of the ECHONET device object superclass are set in the static data items of the PUCC device metadata as shown in Table 6.1-2.

**Table 6.1-2: Settings for static data items of PUCC device metadata**

| | Device Object Superclass of ECHONET | | Static Data of PUCC Device Metadata | |
|---|---|---|---|---|
| | Property Name | Description | Data Item Name | Description |
| 1 | ManufactureDate | The date of manufacture | ManufactureDate | The date of manufacture |
| 2 | ProductCode | The product code | ModelNumber | The model number |
| 3 | SerialNumberCode | The manufacturer's serial number | SerialNumber | The serial number |

### 6.1.1. Operation Status (OperationStatus)

Table 6.1.1-1 shows the setting values for the "operation status (Operation Status)."

**Table 6.1.1-1:** Setting values for the "**"Status of Operation (Operation Status)"**

| | Value | Meaning | Relationship with ECHONET Specification Value |
|---|---|---|---|
| 1 | ON | Power ON | 0x30 (ON) |
| 2 | OFF | Power OFF | 0x31 (OFF) |

### 6.1.2. Installation Location (InstallationLocation)

Table 6.1.2-1shows the setting values for the "installation location (InstallationLocation)."

**Table 6.1.2-1: Setting values for the "Installation Location (InstallationLocation)"**

| | Value | Relationship with ECHONET Specification Value |
|---|---|---|
| 1 | 08-0F | 00001000b (Living room/location numbers not yet assigned) |
| | | 00001001b-00001111b (Living room/location numbers 1-7‘) |
| 2 | 10-17 | 00010000b (Dining room/location numbers not yet assigned) |
| | | 00010001b-00010111b (Dining room/Location numbers 1-7) |
| 3 | 18-1F | 00011000b (Kitchen/location number not yet assigned) |
| | | 00011001b-00011111b (Kitchen/location numbers 1-7) |
| 4 | 20-27 | 00100000b (Bathroom/location numbers not yet assigned) |
| | | 00100001b-00100111b (Bathroom/location numbers 1-7) |
| 5 | 28-2F | 00101000b (Toilet/location numbers not yet assigned) |
| | | 00101001b-00101111b (Toilet/location numbers 1-7) |
| 6 | 30-37 | 00110000b (Washbowl/location numbers not yet assigned) |
| | | 00110001b-00110111b (Washbowl/location numbers 1-7) |
| 7 | 38-3F | 00111000b (Corridor/location numbers not yet assigned) |
| | | 00111001b-00111111b (Corridor/location numbers 1-7) |
| 8 | 40-47 | 01000000b (Room/location numbers not yet assigned) |
| | | 01000001b-01000111b (Room/location numbers 1-7) |
| 9 | 48-4F | 01001000b (Stairs/location numbers not yet assigned) |
| | | 01001001b-01001111b (Stairs/location numbers 1-7) |
| 10 | 50-57 | 01010000b (Hall/location numbers not yet assigned) |
| | | 01010001b-01010111b (Hall/location numbers 1-7) |
| 11 | 58-5F | 01011000b (Spare room/location numbers not yet assigned) |
| | | 01011001b-01011111b (Spare room/location numbers 1-7) |
| 12 | 60-67 | 01100000b (Garden, exterior/location numbers not yet assigned) |
| | | 01100001b-01100111b (Garden, exterior/location numbers 1-7) |
| 13 | 68-6F | 01101000b (Carport/location numbers not yet assigned) |
| | | 01101001b-01101111b (Carport/location numbers 1-7) |
| 14 | 70-77 | 01110000b (Veranda, balcony/location numbers not yet assigned) |
| | | 01110001b-01110111b (Veranda, balcony/location numbers 1-7) |
| 15 | 78-7F | 01111000b (Others/location numbers not yet assigned) |
| | | 01111001b-01111111b (Others/location numbers 1-7) |
| 16 | 80-FE | 10000000b-11111110b (Freely defined 0-127) |
| 17 | FF | 11111111b (Installation location not specified) |

### 6.1.3. Specification Version information Code (SpecVersionInfoCode)

The ECHONET specification version code corresponding to the relevant ECHONET device is set in the format shown below.

＜Major version＞. ＜Minor version＞ ＜Release order＞

Example) “Version 3.21 Release a”

→ “3.21a”

### 6.1.4. Node Identification Code (LowerNodeIdCode/NodeIdCode)

The node identification code is the information that uniquely identifies the relevant ECHONET device node. This code is expressed as a combination of the type of lower-layer communication software such as IP/Ethernet, IEEE1394 and Bluetooth, and the address of hardware.

As the state variable’s value, the code is specified as a character string. This string is the property value of an ECHONET device, which consists of a combination of the “lower-layer communication software ID field” in the first 1 byte and the “individual number field” in the last 8 bytes. This value represents a character string comprised of 2digits and 16 digits of hexadecimal numbers.

### 6.1.5. Manufacturer Error Code (ManufacturerErrorCode)

This is an error code uniquely defined by the manufacturer. This code is expressed as a combination of the manufacturer’s code and an error code.

### 6.1.6. Power Limit (PowerLimit)

This is set to an integer number from 0 to 100.

### 6.1.7. Fault Status (FaultStatus)

Table 6.1.7-1shows the setting values for the “fault status (FaultStatus).”

**Table 6.1.7-1: Setting Values for the “Fault Status (FaultStatus)”**

| | Value | Meaning | Relationship with ECHONET Specification Value |
|---|---|---|---|
| 1 | Fault | Indicates the presence of an abnormality | 0x41(The presence of an abnormality) |
| 2 | Normal | Indicates the normal status | 0x42 (No fault) |

### 6.1.8. Fault Content (FaultContent)

Table 6.1.8-1 shows the setting values for the "Content of a fault (FaultContent)."

**Table 6.1.8-1: Setting values for the "Fault Content (FaultContent)."**

| | Value | Meaning | Relationship with ECHONET Specification Value | |
|---|---|---|---|---|
| | | | Fault Content Code | |
| | | | First bytes | Last bytes |
| 1 | A character string of hexadecimals in 4 digits<br>In the hexBinary format<br>(e.g. 1A1B)<br><br>※ Note that the following values that do not exist as fault content values should be excluded.<br>/030E-03FE<br>/A combination of 04-FF in the first 2 digits and 6F-FE in the last 2 digits | Corresponds to the value of the "fault content" of the ECHONET property. | 0x00<br>-0xFF | 0x00<br>- 0xFF |

※ A setting value of the content of a fault (FaultContent) is presupposed to be a fault content code of the ECHONET.

※ The type property (URI format) of the device element of the PUCC device metadata can be used to decide if a device with the relevant metadata is an ECHONET device or not.

### 6.1.9. Manufacturer Code (MakerCode)

This is a character string specified by the ECHONET Consortium for each manufacturer.

### 6.1.10. Place of Business Code (PlaceOfBuisinessCode)

This is a character string specified by each manufacturer.

### 6.1.11. Energy Saving Status (EnergySavingStatus)

Table 6.1.11-1shows the setting values for the "Energy Saving Status (EnergySavingStatus)."

**Table 6.1.11-1: Setting values for the "Energy Saving Status (EnergySavingStatus)"**

| | Value | Meaning | Relationship with ECHONET Specification Value |
|---|---|---|---|
| 1 | ON | In the energy saving mode | 0x41(In the energy saving mode) |
| 2 | OFF | In the normal operation mode | 0x42(In the normal operation mode) |

### 6.1.12. Present Time (PresentTime)

This is set as a character string of "HH-MM-SS" in the ISO8601 format. Note that the SS is fixed to 00.

### 6.1.13. Present Date (PresentDate)

This is set as a character string of "YYYY-MM-DD" in the ISO8601 format.

### 6.1.14. Cumulated Run-Time Value (CumulatedRunTimeValue)

The run-time value is set as a 10-digit character string of hexadecimals.

If the first 2 digits are "41," the following 8 digits indicate the run-time in seconds.

If the first 2 digits are "42," the following 8 digits indicate the run-time in minutes.

If the first 2 digits are "43," the following 8 digits indicate the run-time in hours.

If the first 2 digits are "44," the following 8 digits indicate the run-time in days.

## 6.2. Services Common to Devices

Table 6.2-1 shows a list of the services common to devices.

**Table 6.2-1: Services common to devices**

| | Service Name | Description |
|---|---|---|
| 1 | GetOperationStatus | Obtains the operation status |
| 2 | SetOperationStatus | Sets the operation status |
| 3 | GetInstallationLocation | Obtains the installation location |
| 4 | SetInstallationLocation | Sets the installation location |
| 5 | GetSpecVersionInfoCode | Obtain the specification version |
| 6 | GetLowerNodeIdCode | Obtains the node identification code (lower-layer communication software ID field) |
| 7 | GetNodeIdCode | Obtains the node identification code (individual number field) |
| 8 | GetManufacturerErrorCode | Obtain a manufacturer error code |
| 9 | ReadPowerLimit | Obtain the power limit |
| 10 | WritePowerLimit | Sets the power limit |
| 11 | GetFaultStatus | Obtain the fault status |
| 12 | GetFaultContent | Obtain the fault content |
| 13 | GetMakerCode | Obtain the manufacturer code |
| 14 | GetPlaceOfBuisinessCode | Obtain the place-of-business code |
| 15 | GetEnergySavingStatus | Obtains the energy saving setting |
| 16 | SetEnergySavingStatus | Sets the energy saving setting |
| 17 | GetPresentTime | Obtains the present time |
| 18 | SetPresentTime | Sets the present time |
| 19 | GetPresentDate | Obtains the present date |
| 20 | SetPresentDate | Sets the present date |
| 21 | GetCumulatedRunTimeValue | Obtains the cumulative run-time |

### 6.2.1. GetOperationStatus

(1)Description

Obtains the operation status

(2) Service type identifier

http://www.pucc.jp/2007/09/Device/Echonet/Service/GetOperationStatus

(3) Input parameter

None

(4) Output parameter

**Table 6.2.1-1: Output parameter of the GetOperationStatus service**

| | Parameter | Related State Variable | Remarks |
|---|---|---|---|
| 1 | CurrentOperationStatus | OperationStatus | See also 6.1.1 |

### 6.2.2. SetOperationStatus

(1)Description

Sets the operation status

(2) Service type identifier

http://www.pucc.jp/2007/09/Device/Echonet/Service/SetOperationStatus

(3) Input parameter

**Table 6.2.2-1: Input parameter of the SetOperationStatus service**

| | Parameter | Related State Variable | Remarks |
|---|---|---|---|
| 1 | NewOperationStatus | OperationStatus | See also 6.1.1 |

(4) Output parameter

None

### 6.2.3. GetInstallationLocation

(1)Description

Obtains the installation location

(2) Service type identifier

http://www.pucc.jp/2007/09/Device/Echonet/Service/GetInstallationLocation

(3) Input parameter

None

(4) Output parameter

**Table 6.2.3-1: Output parameter of the GetInstallationLocation service**

| | Parameter | Related State Variable | Remarks |
|---|---|---|---|
| 1 | CurrentInstallationLocation | InstallationLocation | See also 6.1.2 |

### 6.2.4. SetInstallationLocation

(1)Description

Sets the installation location

(2) Service type identifier

http://www.pucc.jp/2007/09/Device/Echonet/Service/SetInstallationLocation

(3) Input parameter

**Table 6.2.4-1: Input parameter of the SetInstallationLocation service**

| | Parameter | Related State Variable | Remarks |
|---|---|---|---|
| 2 | NewInstallationLocation | InstallationLocation | See also 6.1.2 |

(4) Output parameter

None

### 6.2.5. GetSpecVersionInfoCode

(1)Description

Obtains specification version information

(2) Service type identifier

http://www.pucc.jp/2007/09/Device/Echonet/Service/GetSpecVersionInfoCode

(3) Input parameter

None

(4) Output parameter

**Table 6.2.5-1: Output parameter of the GetSpecVersionInfoCode service**

| | Parameter | Related State Variable | Remarks |
|---|---|---|---|
| 1 | CurrentSpecVersionInfoCode | SpecVersionInfoCode | See also 6.1.3 |

### 6.2.6. GetLowerNodeIdCode

(1)Description

Obtains the node identification code (lower-layer communication software ID field)

(2) Service type identifier

http://www.pucc.jp/2007/09/Device/Echonet/Service/GetLowerNodeIdCode

(3) Input parameter

None

(4) Output parameter

**Table 6.2.6-1: Output parameter of the GetLowerNodeIdCode service**

| | Parameter | Related State Variable | Remarks |
|---|---|---|---|
| 1 | CurrentLowerNodeIdCode | LowerNodeIdCode | See also 6.1.4 |

### 6.2.7. GetNodeIdCode

(1)Description

Obtains the node identification code (individual number field)

(2) Service type identifier

http://www.pucc.jp/2007/09/Device/Echonet/Service/GetNodeIdCode

(3) Input parameter

None

(4) Output parameter

**Table 6.2.7-1: Output parameter of the GetNodeIdCode service**

| | Parameter | Related State Variable | Remarks |
|---|---|---|---|
| 1 | CurrentNodeIdCode | NodeIdCode | See also 6.1.4 |

### 6.2.8. GetManufacturerErrorCode

(1)Description

Obtains a manufacturer error code

(2) Service type identifier

http://www.pucc.jp/2007/09/Device/Echonet/Service/GetManufacturerErrorCode

(3) Input parameter

None

(4) Output parameter

**Table 6.2.8-1: Output parameter of the GetManufacturerErrorCode service**

| | Parameter | Related State Variable | Remarks |
|---|---|---|---|
| 1 | CurrentManufacturerErrorCode | ManufacturerErrorCode | See also 6.1.5 |

### 6.2.9. ReadPowerLimit

(1)Description

Obtains the power limit

(2) Service type identifier

http://www.pucc.jp/2007/09/Device/Echonet/Service/ReadPowerLimit

(3) Input parameter

None

(4) Output parameter

**Table 6.2.9-1: Output parameter of the ReadPowerLimit service**

| | Parameter | Related State Variable | Remarks |
|---|---|---|---|
| 1 | CurrentPowerLimit | PowerLimit | See also 6.1.6 |

### 6.2.10. WritePowerLimit

(1)Description

Sets the power limit

(2) Service type identifier

http://www.pucc.jp/2007/09/Device/Echonet/Service/WritePowerLimit

(3) Input parameter

**Table 6.2.10-1: Input parameter of the WritePowerLimit service**

| | Parameter | Related State Variable | Remarks |
|---|---|---|---|
| 1 | NewPowerLimit | PowerLimit | See also 6.1.6 |

(4) Output parameter

None

### 6.2.11. GetFaultStatus

(1)Description

Obtains the fault status

(2) Service type identifier

http://www.pucc.jp/2007/09/Device/Echonet/Service/GetFaultStatus

(3) Input parameter

None

(4) Output parameter

**Table 6.2.11-1: Output parameter of the GetFaultStatus service**

| | Parameter | Related State Variable | Remarks |
|---|---|---|---|
| 1 | CurrentFaultStatus | FaultStatus | See also 6.1.7 |

### 6.2.12. GetFaultContent

(1)Description

Obtains the fault content

(2) Service type identifier

http://www.pucc.jp/2007/09/Device/Echonet/Service/GetFaultContent

(3) Input parameter

None

(4) Output parameter

**Table 6.2.12-1: Output parameter of the GetFaultContent service**

| | Parameter | Related State Variable | Remarks |
|---|---|---|---|
| 1 | CurrentFaultContent | FaultContent | See also 6.1.8 |

### 6.2.13. GetMakerCode

(1)Description

Obtains the manufacturer code

(2) Service type identifier

http://www.pucc.jp/2007/09/Device/Echonet/Service/GetMakerCode

(3) Input parameter

None

(4) Output parameter

**Table 6.2.13-1: Output parameter of the GetMakerCode service**

| | Parameter | Related State Variable | Remarks |
|---|---|---|---|
| 1 | CurrentMakerCode | MakerCode | See also 6.1.9 |

### 6.2.14. GetPlaceOfBuisinessCode

(1)Description

Obtains the place-of-business code

(2) Service type identifier

http://www.pucc.jp/2007/09/Device/Echonet/Service/GetPlaceOfBuisinessCode

(3) Input parameter

None

(4) Output parameter

**Table 6.2.14-1: Output parameter of the GetPlaceOfBuisinessCode service**

| | Parameter | Related State Variable | Remarks |
|---|---|---|---|
| 1 | CurrentPlaceOfBuisinessCode | PlaceOfBuisinessCode | See also 6.1.10 |

### 6.2.15. GetEnergySavingStatus

(1)Description

Obtains the energy saving status

(2) Service type identifier

http://www.pucc.jp/2007/09/Device/Echonet/Service/GetEnergySavingStatus

(3) Input parameter

None

(4) Output parameter

**Table 6.2.15-1: Output parameter of the GetEnergySavingStatus service**

| | Parameter | Related State Variable | Remarks |
|---|---|---|---|
| 1 | CurrentEnergySavingStatus | EnergySavingStatus | See also 6.1.11 |

### 6.2.16. SetEnergySavingStatus

(1)Description

Sets the energy saving status

(2) Service type identifier

http://www.pucc.jp/2007/09/Device/Echonet/Service/SetEnergySavingStatus

(3) Input parameter

**Table 6.2.16-1: Input parameter of the SetEnergySavingStatus service**

| | Parameter | Related State Variable | Remarks |
|---|---|---|---|
| 1 | NewEnergySavingStatus | EnergySavingStatus | See also 6.1.11 |

(4) Output parameter

None

### 6.2.17. GetPresentTime

(1)Description

Obtains the present time

(2) Service type identifier

http://www.pucc.jp/2007/09/Device/Echonet/Service/GetPresentTime

(3) Input parameter

None

(4) Output parameter

**Table 6.2.17-1: Output parameter of the GetPresentTime service**

| | Parameter | Related State Variable | Remarks |
|---|---|---|---|
| 1 | CurrentPresentTime | PresentTime | See also 6.1.12 |

### 6.2.18. SetPresentTime

(1)Description

Sets the present time

(2) Service type identifier

http://www.pucc.jp/2007/09/Device/Echonet/Service/SetPresentTime

(3) Input parameter

**Table 6.2.18-1: Input parameter of the SetPresentTime service**

| | Parameter | Related State Variable | Remarks |
|---|---|---|---|
| 1 | NewPresentTime | PresentTime | See also 6.1.12 |

(4) Output parameter

None

### 6.2.19. GetPresentDate

(1)Description

Obtains the present date

(2) Service type identifier

http://www.pucc.jp/2007/09/Device/Echonet/Service/GetPresentDate

(3) Input parameter

None

(4) Output parameter

**Table 6.2.19-1: Output parameter of the GetPresentDate service**

| | Parameter | Related State Variable | Remarks |
|---|---|---|---|
| 1 | CurrentPresentDate | PresentDate | See also 6.1.13 |

### 6.2.20. SetPresentDate

(1)Description

Sets the present date

(2) Service type identifier

http://www.pucc.jp/2007/09/Device/Echonet/Service/SetPresentDate

(3) Input parameter

**Table 6.2.20-1: Input parameters of the SetPresentDate service**

| | Parameter | Related State Variable | Remarks |
|---|---|---|---|
| 1 | NewPresentDate | PresentDate | See also 6.1.13 |

(4) Output parameter

None

### 6.2.21. GetCumulatedRunTimeValue

(1)Description

Obtains the cumulative run-time

(2) Service type identifier

http://www.pucc.jp/2007/09/Device/Echonet/Service/GetCumulatedRunTimeValue

(3) Input parameter

None

(4) Output parameter

**Table 6.2.21-1: Output parameter of the GetCumulatedRunTimeValue service**

| | Parameter | Related State Variable | Remarks |
|---|---|---|---|
| 1 | CurrentCumulatedRunTimeValue | CumulatedRunTimeValue | See also 6.1.14 |

## 6.3. Metadata

### 6.3.1. Device Metadata

The metadata template shown below is used to define the state variables common to devices.

```
<StateVariableList>
  <StateVariable  name="OperationStatus"  datatype="string"  sendEvents="yes">
    <AllowedValueList>
      <AllowedValue>ON</AllowedValue>
      <AllowedValue>OFF</AllowedValue>
    </AllowedValueList>
  </StateVariable>
  <StateVariable  name="InstallationLocation"  datatype="hexBinary" sendEvents="yes"/>
  <StateVariable  name="SpecVersionInfoCode"  datatype="string"  sendEvents="no"/>
  <StateVariable  name="LowerNodeIdCode"  datatype="string"  sendEvents="no"/>
  <StateVariable  name="NodeIdCode"  datatype="string"  sendEvents="no"/>
  <StateVariable  name="ManufacturerErrorCode"  datatype="string"  sendEvents="no"/>
  <StateVariable  name="PowerLimit"  datatype="integer"  sendEvents="no">
   <AllowedValueRange>
     <Minimum>0</Minimum>
     <Maximum>100</Maximum>
     <Step>1</Step>
   </AllowedValueRange>
  </StateVariable>
  <StateVariable  name="FaultStatus"  datatype="string"  sendEvents="yes">
    <AllowedValueList>
      <AllowedValue>Fault</AllowedValue>
      <AllowedValue>normal</AllowedValue>
    </AllowedValueList>
  </StateVariable>
  <StateVariable  name="FaultContent"  datatype="hexBinary"  sendEvents="no" />
  <StateVariable  name="MakerCode"  datatype="string"  sendEvents="no"/>
  <StateVariable  name="PlaceOfBuisinessCode"  datatype="string"  sendEvents="no"/>
  <StateVariable  name="EnergySavingStatus"  datatype="string"  sendEvents="no">
    <AllowedValueList>
      <AllowedValue>ON</AllowedValue>
      <AllowedValue>OFF</AllowedValue>
    </AllowedValueList>
  </StateVariable>
  <StateVariable  name="PresentTime"  datatype="time"  sendEvents="no"/>
  <StateVariable  name="PresentDate"  datatype="date"  sendEvents="no"/>
  <StateVariable  name="CumulatedRunTimeValue"  datatype="hexBinary" sendEvents="no"/>
</StateVariableList>
```

```
<ServiceList>
  <Service   name="GetOperationStatus"
       type="http://www.pucc.jp/2007/09/Device/Echonet/Service/GetOperationStatus"/>
  <Service   name="SetOperationStatus"
       type="http://www.pucc.jp/2007/09/Device/Echonet/Service/SetOperationStatus"/>
  <Service   name="GetInstallationLocation"
       type="http://www.pucc.jp/2007/09/Device/Echonet/Service/GetInstallationLocation"/>
  <Service   name="SetInstallationLocation"
       type="http://www.pucc.jp/2007/09/Device/Echonet/Service/SetInstallationLocation"/>
  <Service   name="GetSpecVersionInfoCode"
       type="http://www.pucc.jp/2007/09/Device/Echonet/Service/GetSpecVersionInfoCode"/>
  <Service   name="GetNodeIdCode"
       type="http://www.pucc.jp/2007/09/Device/Echonet/Service/GetNodeIdCode"/>
  <Service   name="GetLowerNodeIdCode"
       type="http://www.pucc.jp/2007/09/Device/Echonet/Service/GetLowerNodeIdCode"/>
  <Service   name="GetManufacturerErrorCode"
       type="http://www.pucc.jp/2007/09/Device/Echonet/Service/GetManufacturerErrorCode"/>
  <Service   name="ReadPowerLimit"
       type="http://www.pucc.jp/2007/09/Device/Echonet/Service/ReadPowerLimit"/>
  <Service   name="WritePowerLimit"
       type="http://www.pucc.jp/2007/09/Device/Echonet/Service/WritePowerLimit"/>
  <Service   name="GetFaultStatus"
       type="http://www.pucc.jp/2007/09/Device/Echonet/Service/GetFaultStatus"/>
  <Service   name="GetFaultContent"
       type="http://www.pucc.jp/2007/09/Device/Echonet/Service/GetFaultContent"/>
  <Service   name="GetMakerCode"
       type="http://www.pucc.jp/2007/09/Device/Echonet/Service/GetMakerCode"/>
  <Service   name="GetPlaceOfBuisinessCode"
       type="http://www.pucc.jp/2007/09/Device/Echonet/Service/GetPlaceOfBuisinessCode"/>
  <Service   name="GetEnergySavingStatus"
       type="http://www.pucc.jp/2007/09/Device/Echonet/Service/GetEnergySavingStatus"/>
  <Service   name="SetEnergySavingStatus"
     type="http://www.pucc.jp/2007/09/Device/Echonet/Service/SetEnergySavingStatus"/>
  <Service   name="GetPresentTime"
       type="http://www.pucc.jp/2007/09/Device/Echonet/Service/GetPresentTime"/>
  <Service   name="SetPresentTime"
       type="http://www.pucc.jp/2007/09/Device/Echonet/Service/SetPresentTime"/>
  <Service   name="GetPresentDate"
       type="http://www.pucc.jp/2007/09/Device/Echonet/Service/GetPresentDate"/>
  <Service   name="SetPresentDate"
       type="http://www.pucc.jp/2007/09/Device/Echonet/Service/SetPresentDate"/>
  <Service   name="GetCumulatedRunTimeValue"
       type="http://www.pucc.jp/2007/09/Device/Echonet/Service/GetCumulatedRunTimeValue"/>
</ServiceList>
```

### 6.3.2. Service Metadata

Shown below are the metadata templates for the services common to devices.

(1) GetOperationStatusservices metadata

```
<?xml version="1.0" ?>
<Service type="http://www.pucc.jp/2007/09/Device/Echonet/Service/GetOperationStatus"
      name="GetOperationStatus">
   <InputParameterList/>
   <OutputParameterList>
      <Parameter name="CurrentOperationStatus" relatedStateVariable="OperationStatus"/>
   </OutputParameterList>
</Service>
```

(2) SetOperationStatusservices metadata

```
<?xml version="1.0" ?>
<Service type="http://www.pucc.jp/2007/09/Device/Echonet/Service/SetOperationStatus"
      name="SetOperationStatus">
   <InputParameterList>
      <Parameter name="NewOperationStatus" relatedStateVariable="OperationStatus"/>
   </InputParameterList>
   <OutputParameterList/>
</Service>
```

(3)GetInstallationLocationservices metadata

```
<?xml version="1.0" ?>
<Service
      type="http://www.pucc.jp/2007/09/Device/Echonet/Service/GetInstallationLocation"
      name="GetInstallationLocation">
   <InputParameterList/>
   <OutputParameterList>
      <Parameter name="CurrentInstallationLocation" relatedStateVariable="InstallationLocation"/>
   </OutputParameterList>
</Service>
```

(4)SetInstallationLocationservices metadata

```
<?xml version="1.0" ?>
<Service
      type="http://www.pucc.jp/2007/09/Device/Echonet/Service/SetInstallationLocation"
      name="SetInstallationLocation">
   <InputParameterList>
      <Parameter name="NewInstallationLocation" relatedStateVariable="InstallationLocation"/>
   </InputParameterList>
   <OutputParameterList/>
</Service>
```

(5)GetSpecVersionInfoCodeservices metadata

```
<?xml version="1.0" ?>
<Service
      type="http://www.pucc.jp/2007/09/Device/Echonet/Service/GetSpecVersionInfoCode"
      name="GetSpecVersionInfoCode">
   <InputParameterList/>
   <OutputParameterList>
      <Parameter name="CurrentSpecVersionInfoCode"    relatedStateVariable="SpecVersionInfoCode"/>
   </OutputParameterList>
</Service>
```

(6)GetLowerNodeIdCodeservices metadata

```
<?xml version="1.0" ?>
<Service
      type="http://www.pucc.jp/2007/09/Device/Echonet/Service/GetLowerNodeIdCode"
      name="GetLowerNodeIdCode">
   <InputParameterList/>
   <OutputParameterList>
      <Parameter name="CurrentLowerNodeIdCode" relatedStateVariable="LowerNodeIdCode"/>
   </OutputParameterList>
</Service>
```

(7)GetNodeIdCodeservices metadata

```
<?xml version="1.0" ?>
<Service type="http://www.pucc.jp/2007/09/Device/Echonet/Service/GetNodeIdCode"
      name="GetNodeIdCode">
   <InputParameterList/>
   <OutputParameterList>
      <Parameter name="CurrentNodeIdCode" relatedStateVariable="NodeIdCode"/>
   </OutputParameterList>
</Service>
```

(8)GetManufacturerErrorCodeservices metadata

```
<?xml version="1.0" ?>
<Service
      type="http://www.pucc.jp/2007/09/Device/Echonet/Service/GetManufacturerErrorCode"
      name="GetManufacturerErrorCode">
   <InputParameterList/>
   <OutputParameterList>
      <Parameter name="CurrentManufacturerErrorCode"    relatedStateVariable="ManufacturerErrorCode"/>
   </OutputParameterList>
</Service>
```

(9)ReadPowerLimitservices metadata

```
<?xml version="1.0" ?>
<Service type="http://www.pucc.jp/2007/09/Device/Echonet/Service/ReadPowerLimit "
      name="ReadPowerLimit">
   <InputParameterList/>
   <OutputParameterList>
      <Parameter name="CurrentPowerLimit" relatedStateVariable="PowerLimit"/>
   </OutputParameterList>
</Service>
```

(10)WritePowerLimitservices metadata

```
<?xml version="1.0" ?>
<Service type="http://www.pucc.jp/2007/09/Device/Echonet/Service/WritePowerLimit"
      name="WritePowerLimit">
   <InputParameterList>
      <Parameter name="NewPowerLimit" relatedStateVariable="PowerLimit"/>
   </InputParameterList>
   <OutputParameterList/>
</Service>
```

(11)GetFaultStatusservices metadata

```
<?xml version="1.0" ?>
<Service type="http://www.pucc.jp/2007/09/Device/Echonet/Service/GetFaultStatus"
      name="GetFaultStatus">
   <InputParameterList/>
   <OutputParameterList>
      <Parameter name="CurrentFaultStatus" relatedStateVariable="FaultStatus"/>
   </OutputParameterList>
</Service>
```

(12)GetFaultContentservices metadata

```
<?xml version="1.0" ?>
<Service type="http://www.pucc.jp/2007/09/Device/Echonet/Service/GetFaultContent"
      name="GetFaultContent">
   <InputParameterList/>
   <OutputParameterList>
      <Parameter name="CurrentFaultContent" relatedStateVariable="FaultContent"/>
   </OutputParameterList>
</Service>
```

(13)GetMakerCodeservices metadata

```
<?xml version="1.0" ?>
<Service type="http://www.pucc.jp/2007/09/Device/Echonet/Service/GetMakerCode"
      name="GetMakerCode">
   <InputParameterList/>
   <OutputParameterList>
      <Parameter name="CurrentMakerCode" relatedStateVariable="MakerCode"/>
   </OutputParameterList>
</Service>
```

(14)GetPlaceOfBuisinessCodeservices metadata

```
<?xml version="1.0" ?>
<Service
      type="http://www.pucc.jp/2007/09/Device/Echonet/Service/GetPlaceOfBuisinessCode"
      name="GetPlaceOfBuisinessCode">
   <InputParameterList/>
   <OutputParameterList>
      <Parameter name="CurrentPlaceOfBuisinessCode"    relatedStateVariable="PlaceOfBuisinessCode"/>
   </OutputParameterList>
</Service>
```

(15)GetEnergySavingStatusservices metadata

```
<?xml version="1.0" ?>
<Service
      type="http://www.pucc.jp/2007/09/Device/Echonet/Service/GetEnergySavingStatus"
      name="GetEnergySavingStatus">
   <InputParameterList/>
   <OutputParameterList>
      <Parameter name="CurrentEnergySavingStatus" relatedStateVariable="EnergySavingStatus"/>
   </OutputParameterList>
</Service>
```

(16)SetEnergySavingStatusservices metadata

```
<?xml version="1.0" ?>
<Service
      type="http://www.pucc.jp/2007/09/Device/Echonet/Service/SetEnergySavingStatus"
      name="SetEnergySavingStatus">
   <InputParameterList>
      <Parameter name="NewEnergySavingStatus" relatedStateVariable="EnergySavingStatus"/>
   </InputParameterList>
   <OutputParameterList/>
</Service>
```

(17)GetPresentTimeservices metadata

```
<?xml version="1.0" ?>
<Service type="http://www.pucc.jp/2007/09/Device/Echonet/Service/GetPresentTime"
      name="GetPresentTime">
   <InputParameterList/>
   <OutputParameterList>
      <Parameter name="CurrentPresentTime" relatedStateVariable="PresentTime"/>
   </OutputParameterList>
</Service>
```

(18)SetPresentTimeservices metadata

```
<?xml version="1.0" ?>
<Service type="http://www.pucc.jp/2007/09/Device/Echonet/Service/SetPresentTime"
      name="SetPresentTime">
   <InputParameterList>
      <Parameter name="NewPresentTime" relatedStateVariable="PresentTime"/>
   </InputParameterList>
   <OutputParameterList/>
</Service>
```

(19)GetPresentDateservices metadata

```
<?xml version="1.0" ?>
<Service type="http://www.pucc.jp/2007/09/Device/Echonet/Service/GetPresentDate"
      name="GetPresentDate">
   <InputParameterList/>
   <OutputParameterList>
      <Parameter name="CurrentPresentDate" relatedStateVariable="PresentDate"/>
   </OutputParameterList>
</Service>
```

(20)SetPresentDateservices metadata

```
<?xml version="1.0" ?>
<Service type="http://www.pucc.jp/2007/09/Device/Echonet/Service/SetPresentDate"
      name="SetPresentDate">
   <InputParameterList>
      <Parameter name="NewPresentDate" relatedStateVariable="PresentDate"/>
   </InputParameterList>
   <OutputParameterList/>
</Service>
```

(21)GetCumulatedRunTimeValueservices metadata

```
<?xml version="1.0" ?>
<Service
   type="http://www.pucc.jp/2007/09/Device/Echonet/Service/GetCumulatedRunTimeValue"
   name="GetCumulatedRunTimeValue">
   <InputParameterList/>
   <OutputParameterList>
      <Parameter name="CurrentCumulatedRunTimeValue" relatedStateVariable="CumulatedRunTimeValue"/>
   </OutputParameterList>
</Service>
```

# 7. Home Air Conditioner Devices

This chapter defines the PUCC metadata specification for home air conditioner devices.

## 7.1. Device Model

Home air conditioner devices adopt the device model shown below.

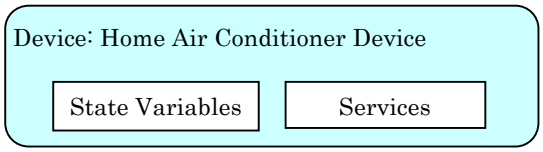


**Figure 7.1-1 Home air conditioner device model**

## 7.2. Device Type

The device type identifier of home air conditioner devices is shown below.

http://www.pucc.jp/2007/09/Device/Echonet/Aircon

## 7.3. State Variables

The state variables for home air conditioner devices are shown below.

**Table 7.3-1: State variables for home air conditioner devices (1/4)**

| | State Variable Name | Description | Data Type | Event Generation (Yes/No) |
|---|---|---|---|---|
| 1 | OperationStatus | Operation status (See also 6.1.1) | string | Yes |
| 2 | InstallationLocation | Installation location (See also 6.1.2) | hexBinary | Yes |
| 3 | SpecVersionInfoCode | Specification version information (See also 6.1.3) | string | No |
| 4 | LowerNodeIdCode | Node identification code (See also 6.1.4) (lower-layer communication software ID field) | string | No |
| 5 | NodeIdCode | Node identification code (See also 6.1.4) (individual number field) | string | No |
| 6 | ManufacturerErrorCode | Manufacturer error code (See also 6.1.5) | string | No |
| 7 | PowerLimit | Power limit (See also 6.1.6) | integer | No |
| 8 | FaultStatus | Fault status (See also 6.1.7) | string | Yes |
| 9 | FaultContent | Fault content (See also 6.1.8) | hexBinary | No |
| 10 | MakerCode | Manufacturer code (See also 6.1.9) | string | No |
| 11 | PlaceOfBuisinessCode | Place-of-business code (See also 6.1.10) | string | No |
| 12 | EnergySavingStatus | Energy saving status setting (See also 6.1.11) | string | No |
| 13 | PresentTime | Present time setting (See also 6.1.12) | time | No |
| 14 | PresentDate | Present date setting (See also 6.1.13) | date | No |
| 15 | CumulatedRunTimeValue | Cumulative run-time (See also 6.1.14) | hexBinary | No |

**Table 7.3-1: State variables for home air conditioner devices (2/4)**

| | State Variable Name | Description | Data Type | Event Generation (Yes/No) |
|---|---|---|---|---|
| 16 | OperationModeStatus | Operation mode setting | string | Yes |
| 17 | TempAutoStatus | Automatic temperature control setting | string | No |
| 18 | QuickModeStatus | High-speed operation setting | string | No |
| 19 | DesiredTemp | Set temperature value | integer | No |
| 20 | DehumidModeRelativeHumid | Set value of relative humidity in dehumidifying mode | integer | No |
| 21 | CoolModeDesiredTemp | Set temperature value in cooling mode | integer | No |
| 22 | HeatModeDesiredTemp | Set temperature value in heating mode | integer | No |
| 23 | DehumidModeDesiredTemp | Set temperature value in dehumidifying mode | integer | No |
| 24 | CoolRatedPower | Rated power consumption in cooling mode | integer | No |
| 25 | HeatRatedPower | Rated power consumption in heating mode | integer | No |
| 26 | DehumidRatedPower | Rated power consumption in dehumidifying mode | integer | No |
| 27 | BlastRatedPower | Rated power consumption in air blasting mode | integer | No |
| 28 | MeasuredCurrent | Measured value of current consumption | float | No |
| 29 | RoomRelativeHumid | Measured value of room relative humidity | integer | No |
| 30 | RoomMeasuredTemp | Measured value of room temperature | integer | No |
| 31 | UserRCDesiredTemp | Set temperature value of user remote control | integer | No |
| 32 | BlowOffMeasuredTemp | Measured cooled air temperature | integer | No |
| 33 | OutdoorMeasuredTemp | Measured outdoor air temperature | integer | No |
| 34 | RelativeDesiredTemp | Relative temperature setting | float | No |
| 35 | WindVolumeLevel | Air flow rate setting | string | No |
| 36 | AirFlowAutoStatus | Automatic control of air flow direction setting | string | No |
| 37 | AirFlowSwingStatus | Automatic swing of air flow setting | string | No |
| 38 | VerticalAirFlowStatus | Air flow direction (vertical) setting | string | No |
| 39 | HorizontalAirFlowMode | Air flow direction (horizontal) setting | hexBinary | No |
| 40 | SpecialStatus | Special state | string | No |
| 41 | NonPriorityStatus | Non-priority state | string | No |

**Table 7.3-1: State variables for home air conditioner devices (3/4)**

| | State Variable Name | Description | Data Type | Event Generation (Yes/No) |
|---|---|---|---|---|
| 42 | VentilatingStatus | Ventilation function setting | string | No |
| 43 | HumidModeStatus | Humidifier function setting | string | No |
| 44 | VentilatingWindLevel | Ventilation air flow rate setting | string | No |
| 45 | HumidLevel | Degree of humidification setting | string | No |
| 46 | ElectricAirPurifierStatus | Mounted air purification method (electrical dust collection-based) | string | No |
| 47 | ClusterAirPurifierStatus | Mounted air purification method (cluster ion-based) | string | No |
| 48 | ElectricAirPurifierMode | Air purifier function setting (electrical dust collection-based) | hexBinary | No |
| 49 | ClusterAirPurifierMode | Air purifier function setting (cluster ion-based) | hexBinary | No |
| 50 | MinusIonRefreshStatus | Mounted air refresh method (negative ion) | string | No |
| 51 | ClusterRefreshStatus | Mounted air refresh method (cluster ion-based) | string | No |
| 52 | MinusIonRefreshMode | Air refresher function setting (negative ion) | hexBinary | No |
| 53 | ClusterIonRefreshMode | Air refresher function setting (cluster ion-based) | hexBinary | No |
| 54 | OzoneSelfCleanStatus | Mounted self-cleaning method (ozone-based cleaning method) | string | No |
| 56 | DrySelfCleanStatus | Mounted self-cleaning method (drying method) | string | No |
| 57 | OzoneSelfCleanMode | Self-cleaning function setting (ozone-based cleaning method) | hexBinary | No |
| 58 | DrySelfCleanMode | Self-cleaning function setting (drying method) | hexBinary | No |

**Table 7.3-1: State variables for home air conditioner devices (4/4)**

| | State Variable Name | Description | Data Type | Event Generation (Yes/No) |
|---|---|---|---|---|
| 59 | SpecialOperationStatus | Special function setting | string | No |
| 60 | CompComponentsStatus | Operation status of components (the compressor) | string | No |
| 61 | ThermoComponentsStatus | Operation status of components (the thermostat) | string | No |
| 62 | ForcingThermoStatus | Thermostat setting override function | string | No |
| 63 | ConsumpionPower | Measured power consumption | integer | No |
| 64 | OnTimerStatus | On timer reservation status | string | No |
| 65 | OnTimerAbsoluteTime | ON timer setting (time) | time | No |
| 66 | OnTimerRelativeTime | ON timer setting (relative time) | time | No |
| 67 | OffTimerStatus | OFF timer reservation status | string | No |
| 68 | OffTimerAbsoluteTime | OFF timer setting (time) | time | No |
| 69 | OffTimerRelativeTime | OFF timer setting (relative time) | time | No |

The details of each state variable are shown below.

※ See 6.1 for the details of state variables common to devices.

### 7.3.1. Operation mode setting (OperationModeStatus)

Table 7.3.1-1 shows the setting values for the "Operation mode setting (OperationModeStatus)."

**Table 7.3.1-1: Setting values for the "Operation mode setting (OperationModeStatus)"**

| | Value | Meaning | Relationship with ECHONET Specification Values |
|---|---|---|---|
| 1 | Auto | Automatic | 0x41(Automatic) |
| 2 | Cooling | Cooling | 0x42(Cooling) |
| 3 | Heating | Heating | 0x43(Heating) |
| 4 | Dehumidifying | Dehumidification | 0x44(Dehumidification) |
| 5 | Blast | Air blasting | 0x45(Air blasting) |
| 6 | Other | Others | 0x40(Others) |

### 7.3.2. Automatic temperature control setting (TempAutoStatus)

Table7.3.2-1 shows the setting values for the "Automatic temperature control setting (TempAutoStatus)."

**Table 7.3.2-1: Setting values for the "Automatic temperature control setting (TempAutoStatus)"**

| | Value | Meaning | Relationship with ECHONET Specification Values |
|---|---|---|---|
| 1 | Auto | AUTO | 0x41(AUTO) |
| 2 | NonAuto | Non AUTO | 0x42(Non AUTO) |

### 7.3.3. High-speed operation setting (QuickModeStatus)

Table7.3.3-1 shows the setting values for the "High-speed operation setting (QuickModeStatus)."

**Table 7.3.3-1: Setting values for the "High-speed operation setting (QuickModeStatus)"**

| | Value | Meaning | Relationship with ECHONET Specification Values |
|---|---|---|---|
| 1 | Normal | Normal operation | 0x41(Normal operation) |
| 2 | Quick | High-speed operation | 0x42(High-speed operation) |
| 3 | Quiet | Silent operation | 0x43(Silent operation) |

### 7.3.4. TemperatureSetting Values (DesiredTemp)

This is set to an integral value from 0 to 50.

#### 7.3.5. Set value of relative humidity in dehumidifying mode (DehumidModeRelativeHumid)

This is set to an integral value from 0 to 100.

#### 7.3.6. Set temperature value in cooling mode (CoolModeDesiredTemp)

This is set to an integral value from 0 to 50.

#### 7.3.7. Set temperature value in heating mode (HeatModeDesiredTemp)

This is set to an integral value from 0 to 50.

#### 7.3.8. Set temperature value in dehumidifying mode (DehumidModeDesiredTemp)

This is set to an integral value from 0 to 50.

#### 7.3.9. Rated power consumption in cooling mode (CoolRatedPower)

This is set to an integral value from 0 to 65533.

This value corresponds to the value of “Cooling” of the “rated power consumption” property in the ECHONET specification.

#### 7.3.10. Rated power consumption in heating mode (HeatRatedPower)

This is an integral value from 0 to 65533.

This value corresponds to the value of “Heating” of the “rated power consumption” property in the ECHONET specification.

#### 7.3.11. Rated power consumption in dehumidifying mode (DehumidRatedPower)

This is an integral value from 0 to 65533.

This value corresponds to the value of “Dehumidification” of the “rated power consumption” property in the ECHONET specification.

#### 7.3.12. Rated power consumption in air blasting mode (BlastRatedPower)

This is an integral value from 0 to 65533.

#### 7.3.13. Measured value of current consumption (MeasuredCurrent)

This is a decimal value from 0 to 6553.3.

### 7.3.14. Measured value of room relative humidity (RoomRelativeHumid)

This is an integral value from 0 to 100.

### 7.3.15. Measured value of room temperature (RoomMeasuredTemp)

This is an integral value from -127 to 125.

### 7.3.16. Set temperature value of user remote control (UserRCDesiredTemp)

This is an integral value from 0 to 50.

### 7.3.17. Measured cooled air temperature (BlowOffMeasuredTemp)

This is an integral value from -127 to 125.

### 7.3.18. Measured outdoor air temperature (OutdoorMeasuredTemp)

This is an integral value from -127 to 125.

### 7.3.19. Relative temperature setting (RelativeDesiredTemp)

This is a decimal value from -12.7 to 12.5.

### 7.3.20. Air flow rate setting (WindVolumeLevel)

Table7.3.20-1 shows the setting values for the “air flow rate setting (WindVolumeLevel).”

**Table 7.3.20-1: Setting values for the “Air flow rate setting (WindVolumeLevel)”**

| | Value | Meaning | Relationship with ECHONET Specification Values |
|---|---|---|---|
| 1 | Auto | Automatic air flow rate setting | 0x41(Automatic air flow rate setting) |
| 2 | 1 | Air flow rate level1 | 0x31(Air flow rate level1) |
| 3 | 2 | Air flow rate level2 | 0x32(Air flow rate level2) |
| 4 | 3 | Air flow rate level3 | 0x33(Air flow rate level3) |
| 5 | 4 | Air flow rate level4 | 0x34(Air flow rate level4) |
| 6 | 5 | Air flow rate level5 | 0x35(Air flow rate level5) |
| 7 | 6 | Air flow rate level6 | 0x36(Air flow rate level6) |
| 8 | 7 | Air flow rate level7 | 0x37(Air flow rate level7) |
| 9 | 8 | Air flow rate level8 | 0x38(Air flow rate level8) |

### 7.3.21. Automatic control of air flow direction setting (AirFlowAutoStatus)

Table7.3.21-1 shows the setting values for the "Automatic control of air flow direction setting (AirFlowAutoStatus)."

**Table 7.3.21-1: Setting values for the "Automatic control of air flow direction setting (AirFlowAutoStatus)"**

| | Value | Meaning | Relationship with ECHONET Specification Values |
|---|---|---|---|
| 1 | Auto | Automatic air flow rate control function | 0x41(Automatic air flow rate control function) |
| 2 | NonAuto | Non-automatic | 0x42(Non-automatic) |
| 3 | UpDownAuto | Automatic (vertical) | 0x43(Automatic (vertical)) |
| 4 | LeftRightAuto | Automatic (horizontal) | 0x44(Automatic (horizontal)) |

### 7.3.22. Automatic swing of air flow setting (AirFlowSwingStatus)

Table7.3.22-1 shows the setting values for the "Automatic swing of air flow setting (AirFlowSwingStatus."

**Table 7.3.22-1: Setting values for the "Automatic swing of air flow setting (AirFlowSwingStatus)"**

| | Value | Meaning | Relationship with ECHONET Specification Values |
|---|---|---|---|
| 1 | OFF | Swing function OFF | 0x31(Swing function OFF) |
| 2 | UpDown | Vertical | 0x41(vertical) |
| 3 | LeftRight | Horizontal | 0x42(horizontal) |
| 4 | UpDownLeftRight | Vertical & Horizontal | 0x43(vertical & horizontal) |

### 7.3.23. Air flow direction (vertical) setting (VerticalAirFlowStatus)

Table7.3.23-1 shows the setting values for the "Air flow direction (vertical) setting (VerticalAirFlowStatus)."

**Table 7.3.23-1: Setting values for the "Air flow direction (vertical) setting (VerticalAirFlowStatus)**

| | Value | Meaning | Relationship with ECHONET Specification Values |
|---|---|---|---|
| 1 | Up | Uppermost | 0x41(uppermost) |
| 2 | Down | Lowermost | 0x42(lowermost) |
| 3 | Center | Central | 0x43(central) |
| 4 | UpCenter | Upper midpoint | 0x44(upper midpoint) |
| 5 | DownCenter | Lower midpoint | 0x45(lower midpoint) |

### 7.3.24. Air flow direction (horizontal) setting (HorizontalAirFlowMode)

Figure 7.3.24-1 gives a top view of the main body of an air conditioner. The five directions of air flow are assigned and set as shown in Figure 7.3.24-1.

Table7.3.24-1 shows the setting values for the "Air flow direction (horizontal) setting (HorizontalAirFlowMode)."

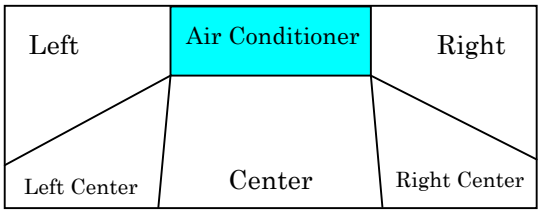


**Figure 7.3.24-1. Direction Assignment (Top View)**

**Table 7.3.24-1: Setting values for the "Air flow direction (horizontal) setting (HorizontalAirFlowMode)"**

| | Value | Meaning | Relationship with ECHONET Specification Values |
|---|---|---|---|
| 1 | 41 | right center/right | 0x41(right center/right) ※Originally " right" |
| 2 | 42 | left/left center | 0x42(left/left center) ※Originally" left" |
| 3 | 43 | left center/center/right center | 0x43(left center/center/right center) ※Originally "central" |
| 4 | 44 | left/left center/right center/right | 0x44(left/left center/right center/right) ※Originally "horizontal" |
| 5 | 51 | right | 0x51(right) |
| 6 | 52 | right center | 0x52(right center) |
| 7 | 54 | center | 0x54(center) |
| 8 | 55 | center/right | 0x55(center/right) |
| 9 | 56 | center/right center | 0x56(center/right center) |
| 10 | 57 | center/right center/right | 0x57(center/right center/right) |
| 11 | 58 | left center | 0x58(left center) |
| 12 | 59 | left center/right | 0x59(left center/right) |
| 13 | 5A | left center/right center | 0x5A(left center/right center) |
| 14 | 5B | left center/right center/right | 0x5B(left center/right center/right) |
| 15 | 5C | left center/center | 0x5C(left center/center) |
| 16 | 5D | left center/center/right | 0x5D(left center/center/right) |
| 17 | 5F | left center/center/right center/right | 0x5F(left center/center/right center/right) |
| 18 | 60 | left | 0x60(left) |
| 19 | 61 | horizontal | 0x61(horizontal) |
| 20 | 62 | horizontal center | 0x62(horizontal center) |
| 21 | 63 | horizontal center/right | 0x63(horizontal center/right) |
| 22 | 64 | left/center | 0x64(left/center) |
| 23 | 65 | left/center/right | 0x65(left/center/right) |
| 24 | 66 | left/center/right center | 0x66(left/center/right center) |
| 25 | 67 | left/center/right center/right | 0x67(left/center/right center/right) |
| 26 | 69 | left/left center/right | 0x69(left/left center/right) |
| 27 | 6A | left/left center/right center | 0x6A(left/left center/right center) |
| 28 | 6C | left/left center/center | 0x6C(left/left center/center) |
| 29 | 6D | left/left center/center/right | 0x6D(left/left center/center/right) |
| 30 | 6E | left/left center/center/right center | 0x6E(left/left center/center/right center) |
| 31 | 6F | left/left center/center/right center/right | 0x6F(left/left center/center/right center/right) |

### 7.3.25. Special State (SpecialStatus)

Table7.3.25-1 shows the setting values for the “Special state (SpecialStatus).”

**Table 7.3.25-1: Setting values for the “Special state(SpecialStatus)”**

| | Value | Meaning | Relationship with ECHONET Specification Values |
|---|---|---|---|
| 1 | Normal | Normal operation state | 0x40(Normal operation state) |
| 2 | Defrosting | Defrosting state | 0x41(Defrosting state) |
| 3 | Preheat | Preheating state | 0x42(Preheating state) |
| 4 | Exhaust Heat | Heat removal state | 0x43(Heat removal state) |

### 7.3.26. Non-Priority State (NonPriorityStatus)

Table7.3.26-1 shows the setting values for the “Non-priority state (NonPriorityStatus).”

**Table 7.3.26-1: Setting values for the “Non-priority state(NonPriorityStatus)”**

| | Value | Meaning | Relationship with ECHONET Specification Values |
|---|---|---|---|
| 1 | Normal | Normal operation state | 0x40(Normal operation state) |
| 2 | NonPriority | Non-priority state | 0x41(Non-priority state) |

### 7.3.27. Ventilation Function Setting (VentilatingStatus)

Table7.3.27-1 shows the setting values for the “Ventilation function setting (VentilatingStatus).”

**Table 7.3.27-1: Setting values for the “Ventilation function setting (VentilatingStatus)”**

| | Value | Meaning | Relationship with ECHONET Specification Values |
|---|---|---|---|
| 1 | ExhaustDirectionON | Ventilation function ON (outlet direction) | 0x41(Ventilation function ON (outlet direction)) |
| 2 | OFF | Ventilation function OFF | 0x42(Ventilation function OFF) |
| 3 | IntakeDirectionON | Ventilation function ON (intake direction) | 0x43(Ventilation function ON (intake direction)) |

### 7.3.28. Humidifier Function Setting (HumidModeStatus)

Table7.3.28-1 shows the setting values for the “Humidifier function setting (HumidModeStatus).”

**Table 7.3.28-1: Setting values for the "Humidifier function setting (HumidModeStatus)"**

| | Value | Meaning | Relationship with ECHONET Specification Values |
|---|---|---|---|
| 1 | ON | Humidifier function ON | 0x41(Humidifier function ON) |
| 2 | OFF | Humidifier function OFF | 0x42(Humidifier function OFF) |

### 7.3.29. Ventilation Air Flow Rate Setting (VentilatingWindLevel)

Table7.3.29-1 shows the setting values for the "Ventilation air flow rate setting (VentilatingWindLevel."

**Table 7.3.29-1: Setting values for the "Ventilation air flow rate setting (VentilatingWindLevel)"**

| | Value | Meaning | Relationship with ECHONET Specification Values |
|---|---|---|---|
| 1 | Auto | Automatic control of ventilation air flow rate | 0x41(Automatic control of ventilation air flow rate) |
| 2 | 1 | Ventilation function air flow rate level1 | 0x31(Ventilation function air flow rate level1) |
| 3 | 2 | Ventilation function air flow rate level2 | 0x32(Ventilation function air flow rate level2) |
| 4 | 3 | Ventilation function air flow rate level3 | 0x33(Ventilation function air flow rate level3) |
| 5 | 4 | Ventilation function air flow rate level4 | 0x34(Ventilation function air flow rate level4) |
| 6 | 5 | Ventilation function air flow rate level5 | 0x35(Ventilation function air flow rate level5) |
| 7 | 6 | Ventilation function air flow rate level6 | 0x36(Ventilation function air flow rate level6) |
| 8 | 7 | Ventilation function air flow rate level7 | 0x37(Ventilation function air flow rate level7) |
| 9 | 8 | Ventilation function air flow rate level8 | 0x38(Ventilation function air flow rate level8) |

### 7.3.30. Degree of Humidification Setting (HumidLevel)

Table7.3.30-1 shows the setting values for the "Degree of humidification setting (HumidLevel)."

**Table 7.3.30-1: Setting values for the "Degree of humidification setting (HumidLevel)"**

| | Value | Meaning | Relationship with ECHONET Specification Values |
|---|---|---|---|
| 1 | Auto | Automatic control of humidification level | 0x41(Automatic control of humidification level) |
| 2 | 1 | Humidification level1 | 0x31(Humidification level1) |
| 3 | 2 | Humidification level2 | 0x32(Humidification level2) |
| 4 | 3 | Humidification level3 | 0x33(Humidification level3) |
| 5 | 4 | Humidification level4 | 0x34(Humidification level4) |
| 6 | 5 | Humidification level5 | 0x35(Humidification level5) |
| 7 | 6 | Humidification level6 | 0x36(Humidification level6) |
| 8 | 7 | Humidification level7 | 0x37(Humidification level7) |

| | | | |
|---|---|---|---|
| 9 | 8 | Humidification level8 | 0x38(Humidification level8) |

### 7.3.31. Mounted Air purification Method (electrical dust collection-based) (ElectricAirPurifierStatus)

Table7.3.31-1shows the setting values for the "Mounted air purification method (electrical dust collection-based)(ElectricAirPurifierStatus)."

**Table 7.3.31-1: Setting values for the "Mounted air purification method (electrical dust collection-based)(ElectricAirPurifierStatus)"**

| | Value | Meaning | Relationship with ECHONET Specification Values |
|---|---|---|---|
| 1 | ON | Mounted | The value of Bit 0 of the "Mounted air purification method" is"1" (Mounted) |
| 2 | OFF | Not mounted | The value of Bit 0 of the "Mounted air purification method" is "0" (Not mounted) |

### 7.3.32. Mounted Air Purification Method (cluster ion-based) (ClusterAirPurifierStatus)

Table7.3.32-1 shows the setting values for the "Mounted air purification method (cluster ion-based)(ClusterAirPurifierStatus)."

**Table 7.3.32-1: Setting values for the "Mounted air purification method (cluster ion-based)(ClusterAirPurifierStatus)"**

| | Value | Meaning | Relationship with ECHONET Specification Values |
|---|---|---|---|
| 1 | ON | Mounted | The value of Bit 1 of the "Mounted air purification method" is"1" (Mounted) |
| 2 | OFF | Not mounted | The value of Bit 1 of the "Mounted air purification method" is"0" (Mounted) |

### 7.3.33. Air purifier Function Setting (electrical dust collection-based) (ElectricAirPurifierMode)

Corresponds to Element 0 of the "air purifier function setting" property of the ECHONET specification

### 7.3.34. Air purifier Function Setting (cluster ion-based) (ClusterAirPurifierMode)

Corresponds to Element 1 of the "air purifier function setting" property of the ECHONET specification

### 7.3.35. Mounted Air Refresh Method (negative ion) (MinusIonRefreshStatus)

Table7.3.35-1 shows the setting values for the "Mounted air refresh method (negative ion)(MinusIonRefreshStatus)."

**Table 7.3.35-1: Setting values for the "Mounted air refresh method (negative ion)(MinusIonRefreshStatus)"**

**Setting values**

| | Value | Meaning | Relationship with ECHONET Specification Values |
|---|---|---|---|
| 1 | ON | Mounted | The value of Bit 0 of the "Mounted air refresh method" is"1" (Mounted) |
| 2 | OFF | Not mounted | The value of Bit 0 of the "Mounted air refresh method" is "0" (Not mounted) |

### 7.3.36. Mounted Air Refresh Method (cluster ion-based)(ClusterRefreshStatus)

Table7.3.36-1 shows the setting values for the "Mounted air refresh method (cluster ion-based)(ClusterRefreshStatus)."

**Table 7.3.36-1: Setting values for the "Mounted air refresh method (cluster ion-based)(ClusterRefreshStatus)"**

| | Value | Meaning | Relationship with ECHONET Specification Values |
|---|---|---|---|
| 1 | ON | Mounted | The value of Bit 1 of the "Mounted air refresh method" is "1" (Mounted) |
| 2 | OFF | Not mounted | The value of Bit 1 of the "Mounted air refresh method" is "0" (Not mounted) |

### 7.3.37. Air Refresher Function Setting (negative ion)(MinusIonRefreshMode)

Corresponds to Element 0 of the "air refresher function setting" property of the ECHONET specification

### 7.3.38. Air Refresher Function Setting (cluster ion-based)(ClusterIonRefreshMode)

Corresponds to Element 1 of the "air refresher function setting" property of the ECHONET specification

### 7.3.39. Mounted Self-cleaning Method (ozone-based cleaning method)(OzoneSelfCleanStatus)

Table7.3.39-1 shows the setting values for the "Mounted self-cleaning method (ozone-based cleaning method)(OzoneSelfCleanStatus)."

**Table 7.3.39-1: Setting values for the "Mounted self-cleaning method (ozone-based cleaning method)(OzoneSelfCleanStatus)"**

| | Value | Meaning | Relationship with ECHONET Specification Values |
|---|---|---|---|
| 1 | ON | Mounted | The value of Bit 0 of the "Mounted self-cleaning method" is |

| | | | |
|---|---|---|---|
| | | | "1" (Mounted) |
| 2 | OFF | Not mounted | The value of Bit 0 of the "Mounted self-cleaning method" is "0" (Not mounted) |

### 7.3.40. Mounted Self-Cleaning Method (drying method)(DrySelfCleanStatus)

Table7.3.40-1 shows the setting values for the "Mounted self-cleaning method (drying method)(DrySelfCleanStatus)."

**Table 7.3.40-1: Setting values for the "Mounted self-cleaning method (drying method)(DrySelfCleanStatus)"**

| | Value | Meaning | Relationship with ECHONET Specification Values |
|---|---|---|---|
| 1 | ON | Mounted | The value of Bit1 of the "Mounted self-cleaning method" is "1" (Mounted) |
| 2 | OFF | Not mounted | The value of Bit 1 of the "Mounted self-cleaning method" is "0" (Not mounted) |

### 7.3.41. Self-Cleaning Function Setting (ozone-based cleaning method)(OzoneSelfCleanMode)

Corresponds to Element 0 of the "Self-cleaning function setting" property of the ECHONET specification

### 7.3.42. Self-cleaning function setting (drying method)(DrySelfCleanMode)

Corresponds to Element 1 of the "Self-cleaning function setting" property of the ECHONET specification

### 7.3.43. Special Function Setting (SpecialOperationStatus)

Table7.3.43-1 shows the setting values for the "Special function setting (SpecialOperationStatus)."

**Table 7.3.43-1: Setting values for the "Special function setting (SpecialOperationStatus)"**

| | Value | Meaning | Relationship with ECHONET Specification Values |
|---|---|---|---|
| 1 | NotSetting | No setting | 0x40(No setting) |
| 2 | ClothDrier | Clothes dryer function | 0x41(Clothes dryer function) |
| 3 | CondensationSuppression | Condensation suppressor function | 0x42(Condensation suppressor function) |
| 4 | TickFungusSuppresion | Mite/mold control function | 0x43(Mite/mold control function) |
| 5 | ForcingDefrosting | Active defrosting function | 0x44(Active defrosting function) |

### 7.3.44. Operation Status of Components (the compressor)(CompComponentsStatus)

Table7.3.44-1 shows the setting values for the "Operation status of components (the compressor)(CompComponentsStatus)."

**Table 7.3.44-1: Setting values for the "Operation status of components (the compressor)(CompComponentsStatus)"**

| | Value | Meaning | Relationship with ECHONET Specification Values |
|---|---|---|---|
| 1 | OFF | Not operating | The value of Bit 0 of the "Operation status of components" is "0" (Not operating) |
| 2 | ON | In operation | The value of Bit 0 of the "Operation status of components" is "1" (In operation) |

### 7.3.45. Operation Status of Components (the thermostat) (ThermoComponentsStatus)

Table7.3.45-1 shows the setting values for the "Operation status of components (the thermostat)(ThermoComponentsStatus)."

**Table 7.3.45-1: Setting values for the "Operation status of components (the thermostat)(ThermoComponentsStatus)"**

| | Value | Meaning | Relationship with ECHONET Specification Values |
|---|---|---|---|
| 1 | OFF | Thermostat OFF | The value of Bit 1 of the "Operation status of components" is "0" (Not operating) |
| 2 | ON | Thermostat ON | The value of Bit 1 of the "Operation status of components" is "1" (In operation) |

### 7.3.46. Thermostat Setting Override Function (ForcingThermoStatus)

Table7.3.46-1 shows the setting values for the "Thermostat setting override function (ForcingThermoStatus)."

**Table 7.3.46-1: Setting values for the "Thermostat setting override function(ForcingThermoStatus)"**

| | Value | Meaning | Relationship with ECHONET Specification Values |
|---|---|---|---|
| 1 | Normal | Normal setting | 0x40(Normal setting) |
| 2 | ON | Thermostat setting override function ON | 0x41(Thermostat setting override function ON) |
| 3 | OFF | Thermostat setting override function OFF | 0x42(Thermostat setting override function ON) |

### 7.3.47. Measured Power Consumption (ConsumpionPower)

This is set to an integral value form 0 to 65533.

This value corresponds to the value of the "Measured power consumption" property of the ECHONET specification.

### 7.3.48. On timer reservation status (OnTimerStatus)

Table7.3.48-1 shows the setting values for the "On timer reservation status (OnTimerStatus)."

**Table 7.3.48-1: Setting values for the "On timer reservation status (OnTimerStatus)"**

| | Value | Meaning | Relationship with ECHONET Specification Values |
|---|---|---|---|
| 1 | BothReserveON | Both the time- and relative time-based reservation function are ON | 0x41 (Both the time- and relative time-based reservation functions are ON) |
| 2 | OFF | Both reservation functions are OFF | 0x42(Both reservation functions are OFF) |
| 3 | TimeReserveON | Only the time-based reservation function is ON | 0x43(Only the time-based reservation function is ON) |
| 4 | RelativeTimeReserveON | Only the relative time-based reservation function is ON | 0x44(Only the relative time-based reservation function is ON) |

### 7.3.49. ON Timer Setting (Time)(OnTimerAbsoluteTime)

The time of the ON timer is set as a character string of "HH:MM:SS" in the ISO8601 format. Note that the

SS is fixed to 00.

### 7.3.50. ON timer setting (relative time)(OnTimerRelativeTime)

The relative time of the ON timer is set as a character string of “HH:MM:SS” in the ISO8601 format. Note that the SS is fixed to 00.

### 7.3.51. OFF Timer-based Reservation Setting (OffTimerStatus)

Table7.3.51-1 shows the setting values for the "OFF timer reservation status (OffTimerStatus)."

**Table 7.3.51-1: Setting values for the "OFF timer reservation status (OffTimerStatus)"**

| | Value | Meaning | Relationship with ECHONET Specification Values |
|---|---|---|---|
| 1 | BothReserveON | Both the time- and relative time-based reservation function are ON | 0x41 (Both the time- and relative time-based reservation functions are ON) |
| 2 | OFF | Both reservation functions are OFF | 0x42(Both reservation functions are OFF) |
| 3 | TimeReserveON | Only the time-based reservation function is ON | 0x43(Only the time-based reservation function is ON) |
| 4 | RelativeTimeReserveON | Only the relative time-based reservation function is ON | 0x44(Only the relative time-based reservation function is ON) |

### 7.3.52. OFF timer setting (time)(OffTimerAbsoluteTime)

The time of the OFF timer is set as a character string of "HH:MM" in the ISO8601 format. Note that the SS is fixed to 00.

### 7.3.53. OFF timer setting (relative time)(OffTimerRelativeTime)

The relative time of the OFF timer is set as a character string of "HH:MM" in the ISO8601 format. Note that the SS is fixed to 00.

## 7.4. Services

The services of home air conditioner devices are shown below.

**Table 7.4-1: Services offered by home air conditioner devices (1/4)**

| | Service Name | Description | |
|---|---|---|---|
| 1 | GetOperationStatus | Obtains the operation status | (See also 6.2.1) |
| 2 | SetOperationStatus | Sets the operation status | (See also 6.2.2) |
| 3 | GetInstallationLocation | Obtains the installation location | (See also 6.2.3) |
| 4 | SetInstallationLocation | Sets the installation location | (See also 6.2.4) |
| 5 | GetSpecVersionInfoCode | Obtains the specification version information | (See also 6.2.5) |
| 6 | GetLowerNodeIdCode | Obtains the node identification code (lower-layer communication software ID field) | (See also 6.2.6) |
| 7 | GetNodeIdCode | Obtains the node identification code (individual number field) | (See also 6.2.7) |
| 8 | GetManufacturerErrorCode | Obtains a manufacturer error code | (See also 6.2.8) |
| 9 | ReadPowerLimit | Obtains the power limit | (See also 6.2.9) |
| 10 | WritePowerLimit | Sets the power limit | (See also 6.2.10) |
| 11 | GetFaultStatus | Obtains the fault status | (See also 6.2.11) |
| 12 | GetFaultContent | Obtains the fault content | (See also 6.2.12) |
| 13 | GetMakerCode | Obtains the manufacturer code | (See also 6.2.13) |
| 14 | GetPlaceOfBuisinessCode | Obtains the place-of-business code | (See also 6.2.14) |
| 15 | GetEnergySavingStatus | Obtains the energy saving status | (See also 6.2.15) |
| 16 | SetEnergySavingStatus | Sets the energy saving status | (See also 6.2.16) |
| 17 | GetPresentTime | Obtains the present time | (See also 6.2.17) |
| 18 | SetPresentTime | Sets the present time | (See also 6.2.18) |
| 19 | GetPresentDate | Obtains the present date | (See also 6.2.19) |
| 20 | SetPresentDate | Sets the present date. | (See also 6.2.20) |
| 21 | GetCumulatedRunTimeValue | Obtains the cumulative run-time | (See also 6.2.21) |
| 22 | GetOperationModeStatus | Obtains the operation mode setting | |
| 23 | SetOperationModeStatus | Sets the operation mode setting | |
| 24 | GetTempAutoStatus | Obtains the automatic temperature control setting | |
| 25 | SetTempAutoStatus | Automatic temperature control setting | |

**Table 7.4-1: Services offered by home air conditioner devices (2/4)**

| | Service Name | Description |
|---|---|---|
| 26 | GetQuickModeStatus | Obtains the high-speed operation setting |
| 27 | SetQuickModeStatus | Sets the high-speed operation setting |
| 28 | ReadDesiredTemp | Obtains the temperature setting values |
| 29 | WriteDesiredTemp | Sets the temperature setting values |
| 30 | ReadDehumidModeRelativeHumid | Obtains the Set value of relative humidity in dehumidifying mode |
| 31 | WriteDehumidModeRelativeHumid | Sets the value of relative humidity in dehumidifying mode |
| 32 | ReadCoolModeDesiredTemp | Obtains the set temperature value in cooling mode |
| 33 | WriteCoolModeDesiredTemp | Sets the temperature value in cooling mode |
| 34 | ReadHeatModeDesiredTemp | Obtains the set temperature value in heating mode |
| 35 | WriteHeatModeDesiredTemp | Sets the temperature value in heating mode |
| 36 | ReadDehumidModeDesiredTemp | Obtains the set temperature value in dehumidifying mode |
| 37 | WriteDehumidModeDesiredTemp | Sets the temperature value in dehumidifying mode |
| 38 | ReadCoolRatedPower | Obtains the rated power consumption in cooling mode |
| 39 | ReadHeatRatedPower | Obtains the rated power consumption in heating mode |
| 40 | ReadDehumidRatedPower | Obtains the rated power consumption in dehumidifying mode |
| 41 | ReadBlastRatedPower | Obtains the rated power consumption in air blasting mode |
| 42 | ReadMeasuredCurrent | Obtains the measured value of current consumption |
| 43 | ReadRoomRelativeHumid | Obtains the measured value of room relative humidity |
| 44 | ReadRoomMeasuredTemp | Obtains the measured value of room temperature |
| 45 | ReadUserRCDesiredTemp | Obtains the set temperature value of user remote control |
| 46 | ReadBlowOffMeasuredTemp | Obtains the measured cooled air temperature |
| 47 | ReadOutdoorMeasuredTemp | Obtains the measured outdoor air temperature |
| 48 | ReadRelativeDesiredTemp | Obtains the relative temperature setting |
| 49 | WriteRelativeDesiredTemp | Sets the relative temperature setting |
| 50 | GetWindVolumeLevel | Obtains the air flow rate setting |
| 51 | SetWindVolumeLevel | Sets the air flow rate setting |
| 52 | GetAirFlowAutoStatus | Obtains the automatic control of air flow direction setting |
| 53 | SetAirFlowAutoStatus | Sets the automatic control of air flow direction setting |
| 54 | GetAirFlowSwingStatus | Obtains the automatic swing of air flow setting |
| 55 | SetAirFlowSwingStatus | Sets the automatic swing of air flow setting |

**Table 7.4-1: Services offered by home air conditioner devices (3/4)**

| | Service Name | Description |
|---|---|---|
| 56 | GetVerticalAirFlowStatus | Obtains the air flow direction (vertical) setting |
| 57 | SetVerticalAirFlowStatus | Sets the air flow direction (vertical) setting |
| 58 | GetHorizontalAirFlowMode | Obtains the air flow direction (horizontal) setting |
| 59 | SetHorizontalAirFlowMode | Sets the air flow direction (horizontal) setting |
| 60 | GetSpecialStatus | Obtains the special state |
| 61 | GetNonPriorityStatus | Obtains the non-priority state |
| 62 | GetVentilatingStatus | Obtains the ventilation function setting |
| 63 | SetVentilatingStatus | Sets the ventilation function setting |
| 64 | GetHumidModeStatus | Obtains the Humidifier function setting |
| 65 | SetHumidModeStatus | Sets the humidifier function setting |
| 66 | GetVentilatingWindLevel | Obtains the ventilation air flow rate setting |
| 67 | SetVentilatingWindLevel | Sets the ventilation air flow rate setting |
| 68 | GetHumidLevel | Obtains the degree of humidification setting |
| 69 | SetHumidLevel | Sets the degree of humidification setting |
| 70 | GetElectricAirPurifierStatus | Obtains the mounted air purification method (electrical dust collection-based) |
| 71 | GetClusterAirPunifierStatus | Obtains the mounted air purification method (cluster ion-based). |
| 72 | GetElectricAirPurifierMode | Obtains the air purifier function setting (electrical dust collection-based) |
| 73 | GetClusterAirPurifierMode | Obtains the air purifier function setting (cluster ion-based) |
| 74 | SetElectricAirPurifierMode | Air purifier function setting (electrical dust collection-based) |
| 75 | SetClusterAirPurifierMode | Sets the air purifier function setting (cluster ion-based) |
| 76 | GetMinusIonRefreshStatus | Obtains the mounted air refresh method (negative ion) |
| 77 | GetClusterRefreshStatus | Obtains the mounted air refresh method (cluster ion-based) |
| 78 | GetMinusIonRefreshMode | Obtains the air refresher function setting (negative ion) |
| 79 | GetClusterRefreshMode | Obtains the air refresher function setting (cluster ion-based) |
| 80 | SetMinusIonRefreshMode | Sets the air refresher function setting (negative ion) |
| 81 | SetClusterRefreshMode | Sets the Air refresher function setting (cluster ion-based) |
| 82 | GetOzoneSelfCleanStatus | Obtains the mounted self-cleaning method (ozone-based cleaning method) |
| 83 | GetDrySelfCleanStatus | Obtains the mounted self-cleaning method (drying method) |

**Table 7.4-1: Services offered by home air conditioner devices (4/4)**

| | Service Name | Description |
|---|---|---|
| 84 | GetOzoneSelfCleanMode | Obtains the self-cleaning function setting (ozone-based cleaning method) |
| 85 | GetDrySelfCleanMode | Obtains the self-cleaning function setting (drying method) |
| 86 | SetOzoneSelfCleanMode | Set the self-cleaning function setting (ozone-based cleaning method) |
| 87 | SetDrySelfCleanMode | Sets the self-cleaning function setting (drying method) |
| 88 | GetSpecialOperationStatus | Obtains the special function setting |
| 89 | SetSpecialOperationStatus | Sets the special function setting |
| 90 | GetCompComponentsStatus | Obtains the operation status of components (the compressor) |
| 91 | GetThermoComponentsStatus | Obtains the operation status of components (the thermostat) |
| 92 | SetForcingThermoStatus | Sets the thermostat setting override function |
| 93 | ReadConsumpionPower | Obtains the measured power consumption |
| 94 | GetOnTimerStatus | Obtains the ON timer reservation status |
| 95 | SetOnTimerStatus | Sets the ON timer reservation status |
| 96 | GetOnTimerAbsoluteTime | Obtains the ON timer setting (time) |
| 97 | SetOnTimerAbsoluteTime | Sets the ON timer setting (time) |
| 98 | GetOnTimerRelativeTime | Obtains the ON timer setting (relative time) |
| 99 | SetOnTimerRelativeTime | Set the ON timer setting (relative time) |
| 100 | GetOffTimerStatus | Obtains the OFF timer reservation status |
| 101 | SetOffTimerStatus | Sets the OFF timer reservation status |
| 102 | GetOffTimerAbsoluteTime | Obtains the OFF timer setting (time) |
| 103 | SetOffTimerAbsoluteTime | Sets the OFF timer setting (time) |
| 104 | GetOffTimerRelativeTime | Obtains the OFF timer setting (relative time) |
| 105 | SetOffTimerRelativeTime | Sets the OFF timer setting (relative time) |
| 106 | GetIcon | Obtains the icon |

The details of each service are shown below.

※ See 6.2 for the details of services common to devices.

### 7.4.1. GetOperationModeStatus

(1)Description

Obtains the operation mode status

(2) Service type identifier

http://www.pucc.jp/2007/09/Device/Echonet/Aircon/Service/GetOperationModeStatus

(3) Input parameter

None

(4) Output parameter

**Table 7.4.1-1: Output parameter of the GetOperationModeStatus service**

| | Parameter | Related State Variable | Remarks |
|---|---|---|---|
| 1 | CurrentOperationModeStatus | OperationModeStatus | See also 7.3.1 |

### 7.4.2. SetOperationModeStatus

(1)Description

Sets the operation mode status

(2) Service type identifier

http://www.pucc.jp/2007/09/Device/Echonet/Aircon/Service/SetOperationModeStatus

(3) Input parameter

**Table 7.4.2-1: Input parameter of the SetOperationModeStatus service**

| | Parameter | Related State Variable | Remarks |
|---|---|---|---|
| 1 | NewOperationModeStatus | OperationModeStatus | See also 7.3.1 |

(4) Output parameter

None

### 7.4.3. GetTempAutoStatus

(1)Description

Obtains the automatic temperature control setting

(2) Service type identifier

http://www.pucc.jp/2007/09/Device/Echonet/Aircon/Service/GetTempAutoStatus

(3) Input parameter

None

(4) Output parameter

**Table 7.4.3-1: Output parameter of the GetTempAutoStatus service**

| | Parameter | Related State Variable | Remarks |
|---|---|---|---|
| 1 | CurrentTempAutoStatus | TempAutoStatus | See also 7.3.2 |

### 7.4.4. SetTempAutoStatus

(1)Description

Sets the automatic temperature control setting

(2) Service type identifier

http://www.pucc.jp/2007/09/Device/Echonet/Aircon/Service/SetTempAutoStatus

(3) Input parameter

**Table 7.4.4-1: Input parameter of the SetTempAutoStatus service**

| | Parameter | Related State Variable | Remarks |
|---|---|---|---|
| 1 | NewTempAutoStatus | TempAutoStatus | See also 7.3.2 |

(4) Output parameter

None

### 7.4.5. GetQuickModeStatus

(1)Description

Obtains the high-speed operation setting

(2) Service type identifier

http://www.pucc.jp/2007/09/Device/Echonet/Aircon/Service/GetQuickModeStatus

(3) Input parameter

None

(4) Output parameter

**Table 7.4.5-1: Output parameter of the GetQuickModeStatus service**

| | Parameter | Related State Variable | Remarks |
|---|---|---|---|
| 1 | CurrentQuickModeStatus | QuickModeStatus | See also 7.3.3 |

### 7.4.6. SetQuickModeStatus

(1)Description

Sets the high-speed operation setting

(2) Service type identifier

http://www.pucc.jp/2007/09/Device/Echonet/Aircon/Service/SetQuickModeStatus

(3) Input parameter

**Table 7.4.6-1: Input parameter of the SetQuickModeStatus service**

| | Parameter | Related State Variable | Remarks |
|---|---|---|---|
| 1 | NewQuickModeStatus | QuickModeStatus | See also 7.3.3 |

(4) Output parameter

None

### 7.4.7. ReadDesiredTemp

(1)Description

Obtains the temperature setting values

(2) Service type identifier

http://www.pucc.jp/2007/09/Device/Echonet/Aircon/Service/ReadDesiredTemp

(3) Input parameter

None

(4) Output parameter

**Table 7.4.7-1: Output parameter of the ReadDesiredTemp service**

| | Parameter | Related State Variable | Remarks |
|---|---|---|---|
| 1 | CurrentDesiredTemp | DesiredTemp | See also 7.3.4 |

### 7.4.8. WriteDesiredTemp

(1)Description

Sets the temperature setting values

(2) Service type identifier

http://www.pucc.jp/2007/09/Device/Echonet/Aircon/Service/WriteDesiredTemp

(3) Input parameter

**Table 7.4.8-1: Input parameter of the WriteDesiredTemp service**

| | Parameter | Related State Variable | Remarks |
|---|---|---|---|
| 1 | NewDesiredTemp | DesiredTemp | See also 7.3.4 |

(4) Output parameter

None

### 7.4.9. ReadDehumidModeRelativeHumid

(1)Description

Obtains the set value of relative humidity in dehumidifying mode

(2) Service type identifier

http://www.pucc.jp/2007/09/Device/Echonet/Aircon/Service/ReadDehumidModeRelativeHumid

(3) Input parameter

None

(4) Output parameter

**Table 7.4.9-1: Output parameter of the ReadDehumidModeRelativeHumid service**

| | Parameter | Related State Variable | Remarks |
|---|---|---|---|
| 1 | CurrentDehumidModeRelativeHumid | DehumidModeRelativeHumid | See also 7.3.5 |

### 7.4.10. WriteDehumidModeRelativeHumid

(1)Description

Sets the set value of relative humidity in dehumidifying mode

(2) Service type identifier

http://www.pucc.jp/2007/09/Device/Echonet/Aircon/Service/WriteDehumidModeRelativeHumid

(3) Input parameter

**Table 7.4.10-1: Input parameter of the WriteDehumidModeRelativeHumid service**

| | Parameter | Related State Variable | Remarks |
|---|---|---|---|
| 1 | NewDehumidModeRelativeHumid | DehumidModeRelativeHumid | See also 7.3.5 |

(4) Output parameter

None

### 7.4.11. ReadCoolModeDesiredTemp

(1)Description

Obtains the Set temperature value in cooling mode

(2) Service type identifier

http://www.pucc.jp/2007/09/Device/Echonet/Aircon/Service/ReadCoolModeDesiredTemp

(3) Input parameter

None

(4) Output parameter

**Table 7.4.11-1: Output parameter of the ReadCoolModeDesiredTemp service**

| | Parameter | Related State Variable | Remarks |
|---|---|---|---|
| 1 | CurrentCoolModeDesiredTemp | CoolModeDesiredTemp | See also 7.3.6 |

### 7.4.12. WriteCoolModeDesiredTemp

(1)Description

Sets the set temperature value in cooling mode

(2) Service type identifier

http://www.pucc.jp/2007/09/Device/Echonet/Aircon/Service/WriteCoolModeDesiredTemp

(3) Input parameter

**Table 7.4.12-1: Input parameter of the WriteCoolModeDesiredTemp service**

| | Parameter | Related State Variable | Remarks |
|---|---|---|---|
| 1 | NewCoolModeDesiredTemp | CoolModeDesiredTemp | See also 7.3.6 |

(4) Output parameter

None

### 7.4.13. ReadHeatModeDesiredTemp

(1)Description

Obtains the set temperature value in heating mode

(2) Service type identifier

http://www.pucc.jp/2007/09/Device/Echonet/Aircon/Service/ReadHeatModeDesiredTemp

(3) Input parameter

None

(4) Output parameter

**Table 7.4.13-1: Output parameter of the ReadHeatModeDesiredTemp service**

| | Parameter | Related State Variable | Remarks |
|---|---|---|---|
| 1 | CurrentHeatModeDesiredTemp | HeatModeDesiredTemp | See also 7.3.7 |

### 7.4.14. WriteHeatModeDesiredTemp

(1)Description

Sets the set temperature value in heating mode

(2) Service type identifier

http://www.pucc.jp/2007/09/Device/Echonet/Aircon/Service/WriteHeatModeDesiredTemp

(3) Input parameter

**Table 7.4.14-1: Input parameter of the WriteHeatModeDesiredTemp service**

| | Parameter | Related State Variable | Remarks |
|---|---|---|---|
| 1 | NewHeatModeDesiredTemp | HeatModeDesiredTemp | See also 7.3.7 |

(4) Output parameter

None

### 7.4.15. ReadDehumidModeDesiredTemp

(1)Description

Obtains the set temperature value in dehumidifying mode

(2) Service type identifier

http://www.pucc.jp/2007/09/Device/Echonet/Aircon/Service/ReadDehumidModeDesiredTemp

(3) Input parameter

None

(4) Output parameter

**Table 7.4.15-1: Output parameter of the ReadDehumidModeDesiredTemp service**

| | Parameter | Related State Variable | Remarks |
|---|---|---|---|
| 1 | CurrentDehumidModeDesiredTemp | DehumidModeDesiredTemp | See also 7.3.8 |

### 7.4.16. WriteDehumidModeDesiredTemp

(1)Description

Sets the set temperature value in dehumidifying mode

(2) Service type identifier

http://www.pucc.jp/2007/09/Device/Echonet/Aircon/Service/WriteDehumidModeDesiredTemp

(3) Input parameter

**Table 7.4.16-1: Input parameter of the WriteDehumidModeDesiredTemp service**

| | Parameter | Related State Variable | Remarks |
|---|---|---|---|
| 1 | NewDehumidModeDesiredTemp | DehumidModeDesiredTemp | See also 7.3.8 |

(4) Output parameter

None

### 7.4.17. ReadCoolRatedPower

(1)Description

Obtains the rated power consumption in cooling mode

(2) Service type identifier

http://www.pucc.jp/2007/09/Device/Echonet/Aircon/Service/ReadCoolRatedPower

(3) Input parameter

None

(4) Output parameter

**Table 7.4.17-1: Output parameter of the ReadRatedPower service**

| | Parameter | Related State Variable | Remarks |
|---|---|---|---|
| 1 | CurrentCurrentCoolRatedPower | CoolRatedPower | See also 7.3.9 |

### 7.4.18. ReadHeatRatedPower

(1)Description

Obtains the rated power consumption in heating mode

(2) Service type identifier

http://www.pucc.jp/2007/09/Device/Echonet/Aircon/Service/ReadHeatRatedPower

(3) Input parameter

None

(4) Output parameter

**Table 7.4.18-1: Output parameter of the ReadRatedPower service**

| | Parameter | Related State Variable | Remarks |
|---|---|---|---|
| 1 | CurrentCurrentHeatRatedPower | HeatRatedPower | See also 7.3.10 |

### 7.4.19. ReadDehumidRatedPower

(1)Description

Obtains the rated power consumption in dehumidifying mode

(2) Service type identifier

http://www.pucc.jp/2007/09/Device/Echonet/Aircon/Service/ReadDehumidRatedPower

(3) Input parameter

None

(4) Output parameter

**Table 7.4.19-1: Output parameter of the ReadDehumidRatedPower service**

| | Parameter | Related State Variable | Remarks |
|---|---|---|---|
| 1 | CurrentCurrentDehumidRatedPower | DehumidRatedPower | See also 7.3.11 |

### 7.4.20. ReadBlastRatedPower

(1)Description

Obtains the rated power consumption in air blasting mode

(2) Service type identifier

http://www.pucc.jp/2007/09/Device/Echonet/Aircon/Service/ReadBlastRatedPower

(3) Input parameter

None

(4) Output parameter

**Table 7.4.20-1: Output parameter of the ReadRatedPower service**

| | Parameter | Related State Variable | Remarks |
|---|---|---|---|
| 1 | CurrentBlastRatedPower | BlastRatedPower | See also 7.3.12 |

### 7.4.21. ReadMeasuredCurrent

(1)Description

Obtains the measured value of current consumption

(2) Service type identifier

http://www.pucc.jp/2007/09/Device/Echonet/Aircon/Service/ReadMeasuredCurrent

(3) Input parameter

None

(4) Output parameter

**Table 7.4.21-1: Output parameter of the ReadMeasuredCurrent service**

| | Parameter | Related State Variable | Remarks |
|---|---|---|---|
| 1 | CurrentMeasuredCurrent | MeasuredCurrent | See also 7.3.13 |

### 7.4.22. ReadRoomRelativeHumid

(1)Description

Obtains the measured value of room relative humidity

(2) Service type identifier

http://www.pucc.jp/2007/09/Device/Echonet/Aircon/Service/ReadRoomRelativeHumid

(3) Input parameter

None

(4) Output parameter

**Table 7.4.22-1: Output parameter of the ReadRoomRelativeHumid service**

| | Parameter | Related State Variable | Remarks |
|---|---|---|---|
| 1 | CurrentRoomRelativeHumid | RoomRelativeHumid | See also 7.3.14 |

### 7.4.23. ReadRoomMeasuredTemp

(1)Description

Obtains the measured value of room temperature

(2) Service type identifier

http://www.pucc.jp/2007/09/Device/Echonet/Aircon/Service/ReadRoomMeasuredTemp

(3) Input parameter

None

(4) Output parameter

**Table 7.4.23-1: Output parameter of the ReadRoomMeasuredTemp service**

| | Parameter | Related State Variable | Remarks |
|---|---|---|---|
| 1 | CurrentRoomMeasuredTemp | RoomMeasuredTemp | See also 7.3.15 |

### 7.4.24. ReadUserRCDesiredTemp

(1)Description

Obtains the set temperature value of user remote control

(2) Service type identifier

http://www.pucc.jp/2007/09/Device/Echonet/Aircon/Service/ReadUserRCDesiredTemp

(3) Input parameter

None

(4) Output parameter

**Table 7.4.24-1: Output parameter of the ReadUserRCDesiredTemp service**

| | Parameter | Related State Variable | Remarks |
|---|---|---|---|
| 1 | CurrentUserRCDesiredTemp | UserRCDesiredTemp | See also 7.3.16 |

### 7.4.25. ReadBlowOffMeasuredTemp

(1)Description

Obtains the measured cooled air temperature

(2) Service type identifier

http://www.pucc.jp/2007/09/Device/Echonet/Aircon/Service/ReadBlowOffMeasuredTemp

(3) Input parameter

None

(4) Output parameter

**Table 7.4.25-1: Output parameter of the ReadBlowOffMeasuredTemp service**

| | Parameter | Related State Variable | Remarks |
|---|---|---|---|
| 1 | CurrentBlowOffMeasuredTemp | BlowOffMeasuredTemp | See also 7.3.17 |

### 7.4.26. ReadOutdoorMeasuredTemp

(1)Description

Obtains the measured outdoor air temperature

(2) Service type identifier

http://www.pucc.jp/2007/09/Device/Echonet/Aircon/Service/ReadOutdoorMeasuredTemp

(3) Input parameter

None

(4) Output parameter

**Table 7.4.26-1: Output parameter of the ReadOutdoorMeasuredTemp service**

| | Parameter | Related State Variable | Remarks |
|---|---|---|---|
| 1 | CurrentOutdoorMeasuredTemp | OutdoorMeasuredTemp | See also 7.3.18 |

### 7.4.27. ReadRelativeDesiredTemp

(1)Description

Obtains the relative temperature setting

(2) Service type identifier

http://www.pucc.jp/2007/09/Device/Echonet/Aircon/Service/ReadRelativeDesiredTemp

(3) Input parameter

None

(4) Output parameter

**Table 7.4.27-1: Output parameter of ReadRelativeDesiredTemp service**

| | Parameter | Related State Variable | Remarks |
|---|---|---|---|
| 1 | CurrentRelativeDesiredTemp | RelativeDesiredTemp | See also 7.3.19 |

### 7.4.28. WriteRelativeDesiredTemp

(1)Description

Sets the relative temperature setting

(2) Service type identifier

http://www.pucc.jp/2007/09/Device/Echonet/Aircon/Service/WriteRelativeDesiredTemp

(3) Input parameter

**Table 7.4.28-1: Input parameter of the WriteRelativeDesiredTemp service**

| | Parameter | Related State Variable | Remarks |
|---|---|---|---|
| 1 | NewRelativeDesiredTemp | RelativeDesiredTemp | See also 7.3.19 |

(4) Output parameter

None

### 7.4.29. GetWindVolumeLevel

(1)Description

Obtains the air flow rate setting

(2) Service type identifier

http://www.pucc.jp/2007/09/Device/Echonet/Aircon/Service/GetWindVolumeLevel

(3) Input parameter

None

(4) Output parameter

**Table 7.4.29-1: Output parameter of the GetWindVolumeLevel service**

| | Parameter | Related State Variable | Remarks |
|---|---|---|---|
| 1 | CurrentWindVolumeLevel | WindVolumeLevel | See also 7.3.20 |

### 7.4.30. SetWindVolumeLevel

(1)Description

Sets the air flow rate setting

(2) Service type identifier

http://www.pucc.jp/2007/09/Device/Echonet/Aircon/Service/SetWindVolumeLevel

(3) Input parameter

**Table 7.4.30-1: Input parameter of the SetWindVolumeLevel service**

| | Parameter | Related State Variable | Remarks |
|---|---|---|---|
| 1 | NewWindVolumeLevel | WindVolumeLevel | See also 7.3.20 |

(4) Output parameter

None

### 7.4.31. GetAirFlowAutoStatus

(1)Description

Obtains the automatic control of air flow direction setting

(2) Service type identifier

http://www.pucc.jp/2007/09/Device/Echonet/Aircon/Service/GetAirFlowAutoStatus

(3) Input parameter

None

(4) Output parameter

**Table 7.4.31-1: Output parameter of the GetAirFlowAutoStatus service**

| | Parameter | Related State Variable | Remarks |
|---|---|---|---|
| 1 | CurrentAirFlowAutoStatus | AirFlowAutoStatus | See also 7.3.21 |

### 7.4.32. SetAirFlowAutoStatus

(1)Description

Sets the automatic control of air flow direction setting

(2) Service type identifier

http://www.pucc.jp/2007/09/Device/Echonet/Aircon/Service/SetAirFlowAutoStatus

(3) Input parameter

**Table 7.4.32-1: Input parameter of the SetAirFlowAutoStatus service**

| | Parameter | Related State Variable | Remarks |
|---|---|---|---|
| 1 | NewAirFlowAutoStatus | AirFlowAutoStatus | See also 7.3.21 |

(4) Output parameter

None

### 7.4.33. GetAirFlowSwingStatus

(1)Description

Obtains the automatic swing of air flow setting

(2) Service type identifier

http://www.pucc.jp/2007/09/Device/Echonet/Aircon/Service/GetAirFlowSwingStatus

(3) Input parameter

None

(4) Output parameter

**Table 7.4.33-1: Output parameter of the GetAirFlowSwingStatus service**

| | Parameter | Related State Variable | Remarks |
|---|---|---|---|
| 1 | CurrentAirFlowSwingStatus | AirFlowSwingStatus | See also 7.3.22 |

### 7.4.34. SetAirFlowSwingStatus

(1)Description

Obtains the automatic swing of air flow setting

(2) Service type identifier

http://www.pucc.jp/2007/09/Device/Echonet/Aircon/Service/SetAirFlowSwingStatus

(3) Input parameter

**Table 7.4.34-1: Input parameter of the SetAirFlowSwingStatus service**

| | Parameter | Related State Variable | Remarks |
|---|---|---|---|
| 1 | NewAirFlowSwingStatus | AirFlowSwingStatus | See also 7.3.22 |

(4) Output parameter

None

### 7.4.35. GetVerticalAirFlowStatus

(1)Description

Obtains the air flow direction (vertical) setting

(2) Service type identifier

http://www.pucc.jp/2007/09/Device/Echonet/Aircon/Service/GetVerticalAirFlowStatus

(3) Input parameter

None

(4) Output parameter

**Table 7.4.35-1: Output parameter of the GetVerticalAirFlowStatus service**

| | Parameter | Related State Variable | Remarks |
|---|---|---|---|
| 1 | CurrentVerticalAirFlowStatus | VerticalAirFlowStatus | See also 7.3.23 |

### 7.4.36. SetVerticalAirFlowStatus

(1)Description

Sets the air flow direction (vertical) setting

(2) Service type identifier

http://www.pucc.jp/2007/09/Device/Echonet/Aircon/Service/SetVerticalAirFlowStatus

(3) Input parameter

**Table 7.4.36-1: Input parameter of the SetVerticalAirFlowStatus service**

| | Parameter | Related State Variable | Remarks |
|---|---|---|---|
| 1 | NewVerticalAirFlowStatus | VerticalAirFlowStatus | See also 7.3.23 |

(4) Output parameter

None

### 7.4.37. GetHorizontalAirFlowMode

(1)Description

Obtains the air flow direction (horizontal) setting

(2) Service type identifier

http://www.pucc.jp/2007/09/Device/Echonet/Aircon/Service/GetHorizontalAirFlowMode

(3) Input parameter

None

(4) Output parameter

**Table 7.4.37-1: Output parameter of the GetHorizontalAirFlowMode service**

| | Parameter | Related State Variable | Remarks |
|---|---|---|---|
| 1 | CurrentHorizontalAirFlowMode | HorizontalAirFlowMode | See also 7.3.24 |

### 7.4.38. SetHorizontalAirFlowMode

(1)Description

Sets the air flow direction (horizontal) setting

(2) Service type identifier

http://www.pucc.jp/2007/09/Device/Echonet/Aircon/Service/SetHorizontalAirFlowMode

(3) Input parameter

**Table 7.4.38-1: Input parameter of the SetHorizontalAirFlowMode service**

| | Parameter | Related State Variable | Remarks |
|---|---|---|---|
| 1 | NewHorizontalAirFlowMode | HorizontalAirFlowMode | See also 7.3.24 |

(4) Output parameter

None

### 7.4.39. GetSpecialStatus

(1)Description

Obtains the special state

(2) Service type identifier

http://www.pucc.jp/2007/09/Device/Echonet/Aircon/Service/GetSpecialStatus

(3) Input parameter

None

(4) Output parameter

**Table 7.4.39-1: Output parameter of the GetSpecialStatus service**

| | Parameter | Related State Variable | Remarks |
|---|---|---|---|
| 1 | CurrentSpecialStatus | SpecialStatus | See also 7.3.25 |

### 7.4.40. GetNonPriorityStatus

(1)Description

Obtains the non-priority state

(2) Service type identifier

http://www.pucc.jp/2007/09/Device/Echonet/Aircon/Service/GetNonPriorityStatus

(3) Input parameter

None

(4) Output parameter

**Table 7.4.40-1: Output parameter of the GetNonPriorityStatus service**

| | Parameter | Related State Variable | Remarks |
|---|---|---|---|
| 1 | CurrentNonPriorityStatus | NonPriorityStatus | See also 7.3.26 |

### 7.4.41. GetVentilatingStatus

(1)Description

Obtains the ventilation function setting

(2) Service type identifier

http://www.pucc.jp/2007/09/Device/Echonet/Aircon/Service/GetVentilatingStatus

(3) Input parameter

None

(4) Output parameter

**Table 7.4.41-1: Output parameter of the GetVentilatingStatus service**

| | parameter | Related State Variable | Remarks |
|---|---|---|---|
| 1 | CurrentVentilatingStatus | VentilatingStatus | See also 7.3.27 |

### 7.4.42. SetVentilatingStatus

(1)Description

Sets the ventilation function setting

(2) Service type identifier

http://www.pucc.jp/2007/09/Device/Echonet/Aircon/Service/SetVentilatingStatus

(3) Input parameter

**Table 7.4.42-1: Input parameter of the SetVentilatingStatus service**

| | parameter | Related State Variable | Remarks |
|---|---|---|---|
| 1 | NewVentilatingStatus | VentilatingStatus | See also 7.3.27 |

(4) Output parameter

None

### 7.4.43. GetHumidModeStatus

(1)Description

Obtains the humidifier function setting

(2) Service type identifier

http://www.pucc.jp/2007/09/Device/Echonet/Aircon/Service/GetHumidModeStatus

(3) Input parameter

None

(4) Output parameter

**Table 7.4.43-1: Output parameter of the GetHumidModeStatus service**

| | parameter | Related State Variable | Remarks |
|---|---|---|---|
| 1 | CurrentHumidModeStatus | HumidModeStatus | See also 7.3.28 |

### 7.4.44. SetHumidModeStatus

(1)Description

Sets the humidifier function setting

(2) Service type identifier

http://www.pucc.jp/2007/09/Device/Echonet/Aircon/Service/SetHumidModeStatus

(3) Input parameter

**Table 7.4.44-1: Input parameter of the SetHumidModeStatus service**

| | parameter | Related State Variable | Remarks |
|---|---|---|---|
| 1 | NewHumidModeStatus | HumidModeStatus | See also 7.3.28 |

(4) Output parameter

None

### 7.4.45. GetVentilatingWindLevel

(1)Description

Obtains the ventilation air flow rate setting

(2) Service type identifier

http://www.pucc.jp/2007/09/Device/Echonet/Aircon/Service/GetVentilatingWindLevel

(3) Input parameter

None

(4) Output parameter

**Table 7.4.45-1: Output parameter of the GetVentilatingWindLevel service**

| | parameter | Related State Variable | Remarks |
|---|---|---|---|
| 1 | CurrentVentilatingWindLevel | VentilatingWindLevel | See also 7.3.29 |

### 7.4.46. SetVentilatingWindLevel

(1)Description

Sets the ventilation air flow rate setting

(2) Service type identifier

http://www.pucc.jp/2007/09/Device/Echonet/Aircon/Service/SetVentilatingWindLevel

(3) Input parameter

**Table 7.4.46-1: Input parameter of the SetVentilatingWindLevel service**

| | parameter | Related State Variable | Remarks |
|---|---|---|---|
| 1 | NewVentilatingWindLevel | VentilatingWindLevel | See also 7.3.29 |

(4) Output parameter

None

### 7.4.47. GetHumidLevel

(1)Description

Obtains the degree of humidification setting

(2) Service type identifier

http://www.pucc.jp/2007/09/Device/Echonet/Aircon/Service/GetHumidLevel

(3) Input parameter

None

(4) Output parameter

**Table 7.4.47-1: Output parameter of the GetHumidLevel service**

| | parameter | Related State Variable | Remarks |
|---|---|---|---|
| 1 | CurrentHumidLevel | HumidLevel | See also 7.3.30 |

### 7.4.48. SetHumidLevel

(1)Description

Sets the degree of humidification setting

(2) Service type identifier

http://www.pucc.jp/2007/09/Device/Echonet/Aircon/Service/SetHumidLevel

(3) Input parameter

**Table 7.4.48-1: Input parameter of the SetHumidLevel service**

| | parameter | Related State Variable | Remarks |
|---|---|---|---|
| 1 | NewHumidLevel | HumidLevel | See also 7.3.30 |

(4) Output parameter

None

### 7.4.49. GetElectricAirPurifierStatus

(1)Description

Obtains the mounted air purification method (electrical dust collection-based)

(2) Service type identifier

http://www.pucc.jp/2007/09/Device/Echonet/Aircon/Service/GetElectricAirPurifierStatus

(3) Input parameter

None

(4) Output parameter

**Table 7.4.49-1: Output parameter of the GetElectricAirPurifierStatus service**

| | parameter | Related State Variable | Remarks |
|---|---|---|---|
| 1 | CurrentElectricAirPurifierStatus | ElectricAirPurifierStatus | See also 7.3.31 |

### 7.4.50. GetClusterAirPurifierStatus

(1)Description

Obtains the mounted air purification method (cluster ion-based)

(2) Service type identifier

http://www.pucc.jp/2007/09/Device/Echonet/Aircon/Service/GetClusterAirPurifierStatus

(3) Input parameter

None

(4) Output parameter

**Table 7.4.50-1: Output parameter of the GetClusterAirPurifierStatus service**

| | parameter | Related State Variable | Remarks |
|---|---|---|---|
| 1 | CurrentClusterAirPurifierStatus | ClusterAirPurifierStatus | See also 7.3.32 |

### 7.4.51. GetElectricAirPurifierMode

(1)Description

Obtains the air purifier function setting (electrical dust collection-based)

(2) Service type identifier

http://www.pucc.jp/2007/09/Device/Echonet/Aircon/Service/GetElectricAirPurifierMode

(3) Input parameter

None

(4) Output parameter

**Table 7.4.51-1: Output parameter of the GetElecricAirPurifierMode service**

| | parameter | Related State Variable | Remarks |
|---|---|---|---|
| 1 | CurrentElectricAirPurifierMode | ElectricAirPurifierMode | See also 7.3.33 |

### 7.4.52. GetClusterAirPurifierMode

(1)Description

Obtains the air purifier function setting (cluster ion-based)

(2) Service type identifier

http://www.pucc.jp/2007/09/Device/Echonet/Aircon/Service/GetClusterAirPurifierMode

(3) Input parameter

None

(4) Output parameter

**Table 7.4.52-1: Output parameter of the GetClusterAirPurifierMode service**

| | parameter | Related State Variable | Remarks |
|---|---|---|---|
| 1 | CurrentClusterAirPurifierMode | ClusterAirPurifierMode | See also 7.3.34 |

### 7.4.53. SetElectricAirPurifierMode

(1)Description

Sets the air purifier function setting (electrical dust collection-based)

(2) Service type identifier

http://www.pucc.jp/2007/09/Device/Echonet/Aircon/Service/SetAirPurifierMode

(3) Input parameter

**Table 7.4.53-1: Input parameter of the SetElectricAirPurifierMode service**

| | parameter | Related State Variable | Remarks |
|---|---|---|---|
| 1 | NewElectricAirPurifierMode | ElectricAirPurifierMode | See also 7.3.33 |

(4) Output parameter

None

### 7.4.54. SetClusterAirPurifierMode

(1)Description

Sets the air purifier function setting (cluster ion-based)

(2) Service type identifier

http://www.pucc.jp/2007/09/Device/Echonet/Aircon/Service/SetAirPurifierMode

(3) Input parameter

**Table 7.4.54-1: Input parameter of the SetElectricAirPurifierMode service**

| | parameter | Related State Variable | Remarks |
|---|---|---|---|
| 1 | NewClusterAirPurifierMode | ClusterAirPurifierMode | See also 7.3.34 |

(4) Output parameter

None

### 7.4.55. GetMinusIonRefreshStatus

(1)Description

Obtains the mounted air refresh method (negative ion)

(2) Service type identifier

http://www.pucc.jp/2007/09/Device/Echonet/Aircon/Service/GetMinusIonRefreshStatus

(3) Input parameter

None

(4) Output parameter

**Table 7.4.55-1: Output parameter of the GetMinusIonRefreshStatus service**

| | parameter | Related State Variable | Remarks |
|---|---|---|---|
| 1 | CurrentMinusIonRefreshStatus | MinusIonRefreshStatus | See also 7.3.35 |

### 7.4.56. GetClusterRefreshStatus

(1)Description

Obtains the mounted air refresh method (cluster ion-based)

(2) Service type identifier

http://www.pucc.jp/2007/09/Device/Echonet/Aircon/Service/GetClusterRefreshStatus

(3) Input parameter

None

(4) Output parameter

**Table 7.4.56-1: Output parameter of the GetClusterRefreshStatus service**

| | parameter | Related State Variable | Remarks |
|---|---|---|---|
| 1 | CurrentClusterRefreshStatus | ClusterRefreshStatus | See also 7.3.36 |

### 7.4.57. GetMinusIonRefreshMode

(1)Description

Obtains the air refresher function setting (negative ion)

(2) Service type identifier

http://www.pucc.jp/2007/09/Device/Echonet/Aircon/Service/GetMinusIonRefreshMode

(3) Input parameter

None

(4) Output parameter

**Table 7.4.57-1: Output parameter of the GetMinusIonRefreshMode service**

| | parameter | Related State Variable | Remarks |
|---|---|---|---|
| 1 | CurrentMinusIonRefreshMode | MinusIonRefreshMode | See also 7.3.37 |

### 7.4.58. GetClusterIonRefreshMode

(1)Description

Obtains the air refresher function setting (cluster ion-based)

(2) Service type identifier

http://www.pucc.jp/2007/09/Device/Echonet/Aircon/Service/GetClusterIonRefreshMode

(3) Input parameter

None

(4) Output parameter

**Table 7.4.58-1: Output parameter of the GetClusterIonRefreshMode service**

| | parameter | Related State Variable | Remarks |
|---|---|---|---|
| 1 | CurrentClusterIonRefreshMode | ClusterIonRefreshMode | See also 7.3.38 |

### 7.4.59. SetMinusIonRefreshMode

(1)Description

Sets the air refresher function setting (negative ion)

(2) Service type identifier

http://www.pucc.jp/2007/09/Device/Echonet/Aircon/Service/SetMinusIonRefreshMode

(3) Input parameter

**Table 7.4.59-1: Input parameter of the SetMinusIonRefreshMode service**

| | parameter | Related State Variable | Remarks |
|---|---|---|---|
| 1 | NewMinusIonRefreshMode | MinusIonRefreshMode | See also 7.3.37 |

(4) Output parameter

None

### 7.4.60. SetClusterIonRefreshMode

(1)Description

Sets the air refresher function setting (cluster ion-based)

(2) Service type identifier

http://www.pucc.jp/2007/09/Device/Echonet/Aircon/Service/SetClusterIonRefreshMode

(3) Input parameter

**Table 7.4.60-1: Input parameter of the SetClusterIonRefreshMode service**

| | parameter | Related State Variable | Remarks |
|---|---|---|---|
| 1 | NewClusterIonRefreshMode | ClusterIonRefreshMode | See also 7.3.38 |

(4) Output parameter

None

### 7.4.61. GetOzoneSelfCleanStatus

(1)Description

Obtains the mounted self-cleaning method (ozone-based cleaning method)

(2) Service type identifier

http://www.pucc.jp/2007/09/Device/Echonet/Aircon/Service/GetOzoneSelfCleanStatus

(3) Input parameter

None

(4) Output parameter

**Table 7.4.61-1: Output parameter of the GetOzoneSelfCleanStatus service**

| | parameter | Related State Variable | Remarks |
|---|---|---|---|
| 1 | CurrentOzoneSelfCleanStatus | OzoneSelfCleanStatus | See also 7.3.39 |

### 7.4.62. GetDrySelfCleanStatus

(1)Description

Obtains the mounted self-cleaning method (drying method)

(2) Service type identifier

http://www.pucc.jp/2007/09/Device/Echonet/Aircon/Service/GetDrySelfCleanStatus

(3) Input parameter

None

(4) Output parameter

**Table 7.4.62-1: Output parameter of the GetDrySelfCleanStatus service**

| | parameter | Related State Variable | Remarks |
|---|---|---|---|
| 1 | CurrentDrySelfCleanStatus | DrySelfCleanStatus | See also 7.3.40 |

### 7.4.63. GetOzoneSelfCleanMode

(1)Description

Obtains the self-cleaning function setting (ozone-based cleaning method)

(2) Service type identifier

http://www.pucc.jp/2007/09/Device/Echonet/Aircon/Service/GetOzoneSelfCleanMode

(3) Input parameter

None

(4) Output parameter

**Table 7.4.63-1: Output parameter of the GetOzoneSelfCleanMode service**

| | parameter | Related State Variable | Remarks |
|---|---|---|---|
| 1 | CurrentOzoneSelfCleanMode | OzoneSelfCleanMode | See also 7.3.41 |

### 7.4.64. GetDrySelfCleanMode

(1)Description

Obtains the self-cleaning function setting (drying method)

(2) Service type identifier

http://www.pucc.jp/2007/09/Device/Echonet/Aircon/Service/GetDrySelfCleanMode

(3) Input parameter

None

(4) Output parameter

**Table 7.4.64-1: Output parameter of the GetDrySelfCleanMode service**

| | parameter | Related State Variable | Remarks |
|---|---|---|---|
| 1 | CurrentDrySelfCleanMode | DrySelfCleanMode | See also 7.3.42 |

### 7.4.65. SetOzoneSelfCleanMode

(1)Description

Sets the self-cleaning function setting (ozone-based cleaning method)

(2) Service type identifier

http://www.pucc.jp/2007/09/Device/Echonet/Aircon/Service/SetOzoneSelfCleanMode

(3) Input parameter

**Table 7.4.65-1: Input parameter of the SetOzoneSelfCleanMode service**

| | parameter | Related State Variable | Remarks |
|---|---|---|---|
| 1 | NewOzoneSelfCleanMode | OzoneSelfCleanMode | See also 7.3.41 |

(4) Output parameter

None

### 7.4.66. SetDrySelfCleanMode

(1)Description

Sets the self-cleaning function setting (drying method)

(2) Service type identifier

http://www.pucc.jp/2007/09/Device/Echonet/Aircon/Service/SetDrySelfCleanMode

(3) Input parameter

**Table 7.4.66-1: Input parameter of the SetDrySelfCleanMode service**

| | parameter | Related State Variable | Remarks |
|---|---|---|---|
| 1 | NewDrySelfCleanMode | DrySelfCleanMode | See also 7.3.42 |

(4) Output parameter

None

### 7.4.67. GetSpecialOperationStatus

(1)Description

Obtains the special function setting

(2) Service type identifier

http://www.pucc.jp/2007/09/Device/Echonet/Aircon/Service/GetSpecialOperationStatus

(3) Input parameter

None

(4) Output parameter

**Table 7.4.67-1: Output parameter of the GetSpecialOperationStatus service**

| | parameter | Related State Variable | Remarks |
|---|---|---|---|
| 1 | CurrentSpecialOperationStatus | SpecialOperationStatus | See also 7.3.43 |

### 7.4.68. SetSpecialOperationStatus

(1)Description

Sets the special function setting

(2) Service type identifier

http://www.pucc.jp/2007/09/Device/Echonet/Aircon/Service/SetSpecialOperationStatus

(3) Input parameter

**Table 7.4.68-1: Input parameter of the SetSpecialOperationStatus service**

| | parameter | Related State Variable | Remarks |
|---|---|---|---|
| 1 | NewSpecialOperationStatus | SpecialOperationStatus | See also 7.3.43 |

(4) Output parameter

None

### 7.4.69. GetCompComponentsStatus

(1)Description

Obtains the operation status of components (the compressor)

(2) Service type identifier

http://www.pucc.jp/2007/09/Device/Echonet/Aircon/Service/GetCompComponentsStatus

(3) Input parameter

None

(4) Output parameter

**Table 7.4.69-1: Output parameter of the GetCompComponentsStatus service**

| | parameter | Related State Variable | Remarks |
|---|---|---|---|
| 1 | CurrentCompComponentsStatus | CompComponentsStatus | See also 7.3.44 |

### 7.4.70. GetThermoComponentsStatus

(1)Description

Obtains the operation status of components (the thermostat)

(2) Service type identifier

http://www.pucc.jp/2007/09/Device/Echonet/Aircon/Service/GetThermoComponentsStatus

(3) Input parameter

None

(4) Output parameter

**Table 7.4.70-1: Output parameter of the GetThermoComponentsStatus service**

| | parameter | Related State Variable | Remarks |
|---|---|---|---|
| 1 | CurrentThermoComponentsStatus | ThermoComponentsStatus | See also 7.3.45 |

### 7.4.71. SetForcingThermoStatus

(1)Description

Sets the thermostat setting override function

(2) Service type identifier

http://www.pucc.jp/2007/09/Device/Echonet/Aircon/Service/SetForcingThermoStatus

(3) Input parameter

**Table 7.4.71-1: Input parameter of the SetForcingThermoStatus service**

| | parameter | Related State Variable | Remarks |
|---|---|---|---|
| 1 | NewForcingThermoStatus | ForcingThermoStatus | See also 7.3.46 |

(4) Output parameter

None

### 7.4.72. ReadConsumpionPower

(1)Description

Obtains the measured power consumption

(2) Service type identifier

http://www.pucc.jp/2007/09/Device/Echonet/Aircon/Service/ReadConsumpionPower

(3) Input parameter

None

(4) Output parameter

**Table 7.4.72-1: Output parameter of the ReadConsumpionPower service**

| | parameter | Related State Variable | Remarks |
|---|---|---|---|
| 1 | CurrentConsumpionPower | ConsumpionPower | See also 7.3.47 |

### 7.4.73. GetOnTimerStatus

(1)Description

Obtains the ON timer reservation status

(2) Service type identifier

http://www.pucc.jp/2007/09/Device/Echonet/Aircon/Service/GetOnTimerStatus

(3) Input parameter

None

(4) Output parameter

**Table 7.4.73-1: Output parameter of the GetOnTimerStatus service**

| | parameter | Related State Variable | Remarks |
|---|---|---|---|
| 1 | CurrentOnTimerStatus | OnTimerStatus | See also 7.3.48 |

### 7.4.74. SetOnTimerStatus

(1)Description

Sets the ON timer reservation status

(2) Service type identifier

http://www.pucc.jp/2007/09/Device/Echonet/Aircon/Service/SetOnTimerStatus

(3) Input parameter

**Table 7.4.74-1: Input parameter of the SetOnTimerStatus service**

| | parameter | Related State Variable | Remarks |
|---|---|---|---|
| 1 | NewOnTimerStatus | OnTimerStatus | See also 7.3.48 |

(4) Output parameter

None

### 7.4.75. GetOnTimerAbsoluteTime

(1)Description

Obtains the ON timer setting (time)

(2) Service type identifier

http://www.pucc.jp/2007/09/Device/Echonet/Aircon/Service/GetOnTimerAbsoluteTime

(3) Input parameter

None

(4) Output parameter

**Table 7.4.75-1: Output parameter of the GetOnTimerAbsoluteTime service**

| | parameter | Related State Variable | Remarks |
|---|---|---|---|
| 1 | CurrentOnTimerAbsoluteTime | OnTimerAbsoluteTime | See also 7.3.49 |

### 7.4.76. SetOnTimerAbsoluteTime

(1)Description

Sets the ON timer setting (time)

(2) Service type identifier

http://www.pucc.jp/2007/09/Device/Echonet/Aircon/Service/SetOnTimerAbsoluteTime

(3) Input parameter

**Table 7.4.76-1: Input parameter of the SetOnTimerAbsoluteTime service**

| | parameter | Related State Variable | Remarks |
|---|---|---|---|
| 1 | NewOnTimerAbsoluteTime | OnTimerAbsoluteTime | See also 7.3.49 |

(4) Output parameter

None

### 7.4.77. GetOnTimerRelativeTime

(1)Description

Obtains the ON timer setting (relative time)

(2) Service type identifier

http://www.pucc.jp/2007/09/Device/Echonet/Aircon/Service/GetOnTimerRelativeTime

(3) Input parameter

None

(4) Output parameter

**Table 7.4.77-1: Output parameter of the GetOnTimerRelativeTime service**

| | parameter | Related State Variable | Remarks |
|---|---|---|---|
| 1 | CurrentOnTimerRelativeTime | OnTimerRelativeTime | See also 7.3.50 |

### 7.4.78. SetOnTimerRelativeTime

(1)Description

Sets the ON timer setting (relative time)

(2) Service type identifier

http://www.pucc.jp/2007/09/Device/Echonet/Aircon/Service/SetOnTimerRelativeTime

(3) Input parameter

**Table 7.4.78-1: Input parameter of the SetOnTimerRelativeTime service**

| | parameter | Related State Variable | Remarks |
|---|---|---|---|
| 1 | NewOnTimerRelativeTime | OnTimerRelativeTime | See also 7.3.50 |

(4) Output parameter

None

### 7.4.79. GetOffTimerStatus

(1)Description

Obtains the OFF timer reservation status

(2) Service type identifier

http://www.pucc.jp/2007/09/Device/Echonet/Aircon/Service/GetOffTimerStatus

(3) Input parameter

None

(4) Output parameter

**Table 7.4.79-1: Output parameter of the GetOffTimerStatus service**

| | parameter | Related State Variable | Remarks |
|---|---|---|---|
| 1 | CurrentOffTimerStatus | OffTimerStatus | See also 7.3.51 |

### 7.4.80. SetOffTimerStatus

(1)Description

Sets the OFF timer reservation status

(2) Service type identifier

http://www.pucc.jp/2007/09/Device/Echonet/Aircon/Service/SetOffTimerStatus

(3) Input parameter

**Table 7.4.80-1: Input parameter of the SetOffTimerStatus service**

| | parameter | Related State Variable | Remarks |
|---|---|---|---|
| 1 | NewOffTimerStatus | OffTimerStatus | See also 7.3.51 |

(4) Output parameter

None

### 7.4.81. GetOffTimerAbsoluteTime

(1)Description

Obtains the OFF timer setting (time)

(2) Service type identifier

http://www.pucc.jp/2007/09/Device/Echonet/Aircon/Service/GetOffTimerAbsoluteTime

(3) Input parameter

None

(4) Output parameter

**Table 7.4.81-1: Output parameter of the GetOffTimerAbsoluteTime service**

| | parameter | Related State Variable | Remarks |
|---|---|---|---|
| 1 | CurrentOffTimerAbsoluteTime | OffTimerAbsoluteTime | See also 7.3.52 |

### 7.4.82. SetOffTimerAbsoluteTime

(1)Description

Sets the OFF timer setting (time)

(2) Service type identifier

http://www.pucc.jp/2007/09/Device/Echonet/Aircon/Service/SetOffTimerAbsoluteTime

(3) Input parameter

**Table 7.4.82-1: Input parameter of the SetOffTimerAbsoluteTime service**

| | parameter | Related State Variable | Remarks |
|---|---|---|---|
| 1 | NewOffTimerAbsoluteTime | OffTimerAbsoluteTime | See also 7.3.52 |

(4) Output parameter

None

### 7.4.83. GetOffTimerRelativeTime

(1)Description

Obtains the OFF timer setting (relative time)

(2) Service type identifier

http://www.pucc.jp/2007/09/Device/Echonet/Aircon/Service/GetOffTimerRelativeTime

(3) Input parameter

None

(4) Output parameter

**Table 7.4.83-1: Output parameter of the GetOffTimerRelativeTime service**

| | parameter | Related State Variable | Remarks |
|---|---|---|---|
| 1 | CurrentOffTimerRelativeTime | OffTimerRelativeTime | See also 7.3.53 |

### 7.4.84. SetOffTimerRelativeTime

(1)Description

Sets the OFF timer setting (relative time)

(2) Service type identifier

http://www.pucc.jp/2007/09/Device/Echonet/Aircon/Service/SetOffTimerRelativeTime

(3) Input parameter

**Table 7.4.84-1: Input parameter of the SetOffTimerRelativeTime service**

| | parameter | Related State Variable | Remarks |
|---|---|---|---|
| 1 | NewOffTimerRelativeTime | OffTimerRelativeTime | See also 7.3.53 |

(4) Output parameter

None

### 7.4.85. GetIcon

(1)Description

Obtains the icon

(2) Service type identifier

http://www.pucc.jp/2007/09/Device/Echonet/Aircon/Service/GetIcon

(3) Input parameter

**Table 7.4.85-1: Input parameter of the GetIcon service**

| | parameter | Related State Variable | Data Type | Remarks |
|---|---|---|---|---|
| 1 | url | - | string | Sets the URL of an icon image |

(4) Output parameter

**Table 7.4.85-2: Output parameter of the GetIcon service**

| | parameter | Related State Variable | Data Type | Remarks |
|---|---|---|---|---|
| 1 | mimeType | - | string | Sets the MIME type of an icon image |
| 2 | base64Data | - | base64Binary | Sets the data of the BASE64-encoded image of an icon |

## 7.5. Metadata

### 7.5.1. Device Metadata

The template of home air conditioner devices is shown below.

*Italic letters in red*: differ by the entity of each home air conditioner device.

```
<?xml version="1.0"?>
<Device  type="http://www.pucc.jp/2007/09/Device/Echonet/Aircon"
          id="global unique ID for this device"  name="short user-friendly title">
  <Specification>
    <URLBase>base URL for all relative URLs</URLBase>
    <Manufacturer>manufacturer name</Manufacturer>
    <ManufacturerURL>URL to manufacturer site</ManufacturerURL>
    <ManufactureDate>date of manufacture</ManufactureDate>
    <ModelDescription>long user-friendly title</ModelDescription>
    <ModelName>model name</ModelName>
    <ModelNumber>model number</ModelNumber>
    <ModelURL>URL to model site</ModelURL>
    <SerialNumber>manufacturer's serial number</SerialNumber>
    <UDN>uuid:UUID</UDN>
    <UPC>Universal Product Code</UPC>
    <IconList>
      <Icon>
        <Mimetype>image/format</Mimetype>
        <Width>horizontal pixels</width>
        <Height>vertical pixels</height>
        <Depth>color depth</depth>
        <Url>URL to icon</Url>
      </icon>
      XML to declare other icons, if any, go here
    </IconList>
  </Specification>
  <StateVariableList>
        :
    (Insert the metadata definition of the state variables common to devices shown in 6.3.1)
        :
    <StateVariable  name="OperationModeStatus"  datatype="string"  sendEvents="yes">
      <AllowedValueList>
        <AllowedValue>Auto</AllowedValue>
        <AllowedValue>Cooling</AllowedValue>
        <AllowedValue>Heating</AllowedValue>
        <AllowedValue>Dehumidifying</AllowedValue>
        <AllowedValue>Blast</AllowedValue>
        <AllowedValue>Other</AllowedValue>
      </AllowedValueList>
```

```
    </StateVariable>
    <StateVariable  name="TempAutoStatus"  datatype="string"  sendEvents="no">
      <AllowedValueList>
        <AllowedValue>Auto</AllowedValue>
        <AllowedValue>NonAuto</AllowedValue>
      </AllowedValueList>
    </StateVariable>
    <StateVariable  name="QuickModeStatus"  datatype="string"  sendEvents="no">
      <AllowedValueList>
        <AllowedValue>Normal</AllowedValue>
        <AllowedValue>Quick</AllowedValue>
        <AllowedValue>Quiet</AllowedValue>
      </AllowedValueList>
    </StateVariable>
    <StateVariable  name="DesiredTemp"  datatype="integer"  sendEvents="no">
      <AllowedValueRange>
        <Minimum>0</Minimum>
        <Maximum>50</Maximum>
        <Step>1</Step>
      </AllowedValueRange>
    </StateVariable>
    <StateVariable  name="DehumidModeRelativeHumid" datatype="integer" sendEvents="no">
      <AllowedValueRange>
        <Minimum>0</Minimum>
        <Maximum>100</Maximum>
        <Step>1</Step>
      </AllowedValueRange>
    </StateVariable>
    <StateVariable  name="CoolModeDesiredTemp"  datatype="integer"  sendEvents="no">
      <AllowedValueRange>
        <Minimum>0</Minimum>
        <Maximum>50</Maximum>
        <Step>1</Step>
      </AllowedValueRange>
    </StateVariable>
    <StateVariable  name="HeatModeDesiredTemp"  datatype="integer"  sendEvents="no">
      <AllowedValueRange>
        <Minimum>0</Minimum>
        <Maximum>50</Maximum>
        <Step>1</Step>
      </AllowedValueRange>
    </StateVariable>
    <StateVariable  name="DehumidModeDesiredTemp"  datatype="integer"  sendEvents="no">
      <AllowedValueRange>
        <Minimum>0</Minimum>
        <Maximum>50</Maximum>
        <Step>1</Step>
```

```
      </AllowedValueRange>
    </StateVariable>
    <StateVariable  name="CoolRatedPower"  datatype="integer"  sendEvents="no">
      <AllowedValueRange>
        <Minimum>0</Minimum>
        <Maximum>65535</Maximum>
        <Step>1</Step>
      </AllowedValueRange>
    </StateVariable>
    <StateVariable  name="HeatRatedPower"  datatype="integer"  sendEvents="no">
      <AllowedValueRange>
        <Minimum>0</Minimum>
        <Maximum>65535</Maximum>
        <Step>1</Step>
      </AllowedValueRange>
    </StateVariable>
    <StateVariable  name="DehumidRatedPower"  datatype="integer"  sendEvents="no">
      <AllowedValueRange>
        <Minimum>0</Minimum>
        <Maximum>65535</Maximum>
        <Step>1</Step>
      </AllowedValueRange>
    </StateVariable>
    <StateVariable  name="BlastRatedPower"  datatype="integer"  sendEvents="no">
      <AllowedValueRange>
        <Minimum>0</Minimum>
        <Maximum>65535</Maximum>
        <Step>1</Step>
      </AllowedValueRange>
    </StateVariable>
    <StateVariable  name="MeasuredCurrent"  datatype="float"  sendEvents="no">
      <AllowedValueRange>
        <Minimum>0</Minimum>
        <Maximum>6553.3</Maximum>
        <Step>0.1</Step>
      </AllowedValueRange>
    </StateVariable>
    <StateVariable  name="RoomRelativeHumid" datatype="integer" sendEvents="no">
      <AllowedValueRange>
        <Minimum>0</Minimum>
        <Maximum>100</Maximum>
        <Step>1</Step>
      </AllowedValueRange>
    </StateVariable>
    <StateVariable  name="RoomMeasuredTemp" datatype="integer" sendEvents="no">
      <AllowedValueRange>
        <Minimum>-127</Minimum>
```

```
        <Maximum>125</Maximum>
        <Step>1</Step>
      </AllowedValueRange>
    </StateVariable>
    <StateVariable name="UserRCDesiredTemp" datatype="integer" sendEvents="no">
      <AllowedValueRange>
        <Minimum>0</Minimum>
        <Maximum>50</Maximum>
        <Step>1</Step>
      </AllowedValueRange>
    </StateVariable>
    <StateVariable name="BlowOffMeasuredTemp" datatype="integer" sendEvents="no">
      <AllowedValueRange>
        <Minimum>-127</Minimum>
        <Maximum>125</Maximum>
        <Step>1</Step>
      </AllowedValueRange>
    </StateVariable>
    <StateVariable name="OutdoorMeasuredTemp" datatype="integer" sendEvents="no">
      <AllowedValueRange>
        <Minimum>-127</Minimum>
        <Maximum>125</Maximum>
        <Step>1</Step>
      </AllowedValueRange>
    </StateVariable>
    <StateVariable name="RelativeDesiredTemp" datatype="float" sendEvents="no">
      <AllowedValueRange>
        <Minimum>-12.7</Minimum>
        <Maximum>12.5</Maximum>
        <Step>0.1</Step>
      </AllowedValueRange>
    </StateVariable>
    <StateVariable name="WindVolumeLevel" datatype="string" sendEvents="no">
      <AllowedValueList>
        <AllowedValue>Auto</AllowedValue>
        <AllowedValue>1</AllowedValue>
        <AllowedValue>2</AllowedValue>
        <AllowedValue>3</AllowedValue>
        <AllowedValue>4</AllowedValue>
        <AllowedValue>5</AllowedValue>
        <AllowedValue>6</AllowedValue>
        <AllowedValue>7</AllowedValue>
        <AllowedValue>8</AllowedValue>
      </AllowedValueList>
    </StateVariable>
    <StateVariable name="AirFlowAutoStatus" datatype="string" sendEvents="no">
      <AllowedValueList>
```

```
        <AllowedValue>Auto</AllowedValue>
        <AllowedValue>NonAuto</AllowedValue>
        <AllowedValue>UpDownAuto</AllowedValue>
        <AllowedValue>LeftRightAuto</AllowedValue>
      </AllowedValueList>
    </StateVariable>
    <StateVariable name="AirFlowSwingStatus" datatype="string" sendEvents="no">
      <AllowedValueList>
        <AllowedValue>OFF</AllowedValue>
        <AllowedValue>UpDown</AllowedValue>
        <AllowedValue>LeftRight</AllowedValue>
        <AllowedValue>UpDownLeftRight</AllowedValue>
      </AllowedValueList>
    </StateVariable>
    <StateVariable name="VerticalAirFlowStatus" datatype="string" sendEvents="no">
      <AllowedValueList>
        <AllowedValue>Up</AllowedValue>
        <AllowedValue>Down</AllowedValue>
        <AllowedValue>Center</AllowedValue>
        <AllowedValue>UpCenter</AllowedValue>
        <AllowedValue>DownCenter</AllowedValue>
      </AllowedValueList>
    </StateVariable>
    <StateVariable name="HorizontalAirFlowMode" datatype="hexBinary" sendEvents="no"/>
    <StateVariable name="SpecialStatus" datatype="string" sendEvents="no">
      <AllowedValueList>
        <AllowedValue>Normal</AllowedValue>
        <AllowedValue>Defrosting</AllowedValue>
        <AllowedValue>Preheat</AllowedValue>
        <AllowedValue>Exhaust Heat</AllowedValue>
      </AllowedValueList>
    </StateVariable>
    <StateVariable name="NonPriorityStatus" datatype="string" sendEvents="no">
      <AllowedValueList>
        <AllowedValue>Normal</AllowedValue>
        <AllowedValue>NonPriority</AllowedValue>
      </AllowedValueList>
    </StateVariable>
    <StateVariable name="VentilatingStatus" datatype="string" sendEvents="no">
      <AllowedValueList>
        <AllowedValue>ExhaustDirectionOn</AllowedValue>
        <AllowedValue>OFF</AllowedValue>
        <AllowedValue>IntakeDirectionOn</AllowedValue>
      </AllowedValueList>
    </StateVariable>
    <StateVariable name="HumidModeStatus" datatype="string" sendEvents="no">
      <AllowedValueList>
```

```
        <AllowedValue>ON</AllowedValue>
        <AllowedValue>OFF</AllowedValue>
      </AllowedValueList>
    </StateVariable>
    <StateVariable  name="VentilatingWindLevel"  datatype="string"  sendEvents="no">
      <AllowedValueList>
        <AllowedValue>Auto</AllowedValue>
        <AllowedValue>1</AllowedValue>
        <AllowedValue>2</AllowedValue>
        <AllowedValue>3</AllowedValue>
        <AllowedValue>4</AllowedValue>
        <AllowedValue>5</AllowedValue>
        <AllowedValue>6</AllowedValue>
        <AllowedValue>7</AllowedValue>
        <AllowedValue>8</AllowedValue>
      </AllowedValueList>
    </StateVariable>
    <StateVariable  name="HumidLevel"  datatype="string"  sendEvents="no">
      <AllowedValueList>
        <AllowedValue>Auto</AllowedValue>
        <AllowedValue>1</AllowedValue>
        <AllowedValue>2</AllowedValue>
        <AllowedValue>3</AllowedValue>
        <AllowedValue>4</AllowedValue>
        <AllowedValue>5</AllowedValue>
        <AllowedValue>6</AllowedValue>
        <AllowedValue>7</AllowedValue>
        <AllowedValue>8</AllowedValue>
      </AllowedValueList>
    </StateVariable>
    <StateVariable  name="ElectricAirPurifierStatus"  datatype="string"  sendEvents="no">
      <AllowedValueList>
        <AllowedValue>ON</AllowedValue>
        <AllowedValue>OFF</AllowedValue>
      </AllowedValueList>
    </StateVariable>
    <StateVariable  name="ClusterAirPurifierStatus"  datatype="string"  sendEvents="no">
      <AllowedValueList>
        <AllowedValue>ON</AllowedValue>
        <AllowedValue>OFF</AllowedValue>
      </AllowedValueList>
    </StateVariable>
    <StateVariable  name="ElectricAirPurifierMode"  datatype="hexBinary"  sendEvents="no"/>
    <StateVariable  name="ClusterAirPurifierMode"  datatype="hexBinary"  sendEvents="no"/>
    <StateVariable  name="MinusIonRefreshStatus"  datatype="string"  sendEvents="no">
      <AllowedValueList>
        <AllowedValue>ON</AllowedValue>
```

```
        <AllowedValue>OFF</AllowedValue>
      </AllowedValueList>
    </StateVariable>
    <StateVariable  name="ClusterRefreshStatus"  datatype="string"  sendEvents="no">
      <AllowedValueList>
        <AllowedValue>ON</AllowedValue>
        <AllowedValue>OFF</AllowedValue>
      </AllowedValueList>
    </StateVariable>
    <StateVariable  name="MinusIonRefreshMode"  datatype="hexBinary"  sendEvents="no"/>
    <StateVariable  name="ClusterIonRefreshMode"  datatype="string"  sendEvents="no"/>
    <StateVariable  name="OzoneSelfCleanStatus"  datatype="string"  sendEvents="no">
      <AllowedValueList>
        <AllowedValue>ON</AllowedValue>
        <AllowedValue>OFF</AllowedValue>
      </AllowedValueList>
    </StateVariable>
    <StateVariable  name="DrySelfCleanStatus"  datatype="string"  sendEvents="no">
      <AllowedValueList>
        <AllowedValue>ON</AllowedValue>
        <AllowedValue>OFF</AllowedValue>
      </AllowedValueList>
    </StateVariable>
    <StateVariable  name="OzoneSelfCleanMode"  datatype="hexBinary"  sendEvents="no"/>
    <StateVariable  name="DrySelfCleanMode"  datatype="hexBinary"  sendEvents="no"/>
    <StateVariable  name="SpecialOperationStatus"  datatype="string"  sendEvents="no">
      <AllowedValueList>
        <AllowedValue>NotSetting</AllowedValue>
        <AllowedValue>ClothDrier</AllowedValue>
        <AllowedValue>CondensationSuppression</AllowedValue>
        <AllowedValue>TickFungusSuppresion</AllowedValue>
        <AllowedValue>ForcingDefrosting</AllowedValue>
      </AllowedValueList>
    </StateVariable>
    <StateVariable  name="CompComponentsStatus"  datatype="string"  sendEvents="no">
      <AllowedValueList>
        <AllowedValue>ON</AllowedValue>
        <AllowedValue>OFF</AllowedValue>
      </AllowedValueList>
    </StateVariable>
    <StateVariable name="ThermoComponentsStatus" datatype="string" sendEvents="no">
      <AllowedValueList>
        <AllowedValue>ON</AllowedValue>
        <AllowedValue>OFF</AllowedValue>
      </AllowedValueList>
    </StateVariable>
    <StateVariable name="ForcingThermoStatus" datatype="string" sendEvents="no">
```

```
        <AllowedValueList>
          <AllowedValue>Normal</AllowedValue>
          <AllowedValue>ON</AllowedValue>
          <AllowedValue>OFF</AllowedValue>
        </AllowedValueList>
      </StateVariable>
      <StateVariable  name="ConsumpionPower"  datatype="integer"  sendEvents="no">
        <AllowedValueRange>
          <Minimum>0</Minimum>
          <Maximum>65535</Maximum>
          <Step>1</Step>
        </AllowedValueRange>
      </StateVariable>
      <StateVariable  name="OnTimerStatus"  datatype="string"  sendEvents="no">
        <AllowedValueList>
          <AllowedValue>BothReserveON</AllowedValue>
          <AllowedValue>OFF</AllowedValue>
          <AllowedValue>TimeReserveON</AllowedValue>
          <AllowedValue>RelativeTimeReserveON</AllowedValue>
        </AllowedValueList>
      </StateVariable>
      <StateVariable  name="OnTimerAbsoluteTime"  datatype="time"  sendEvents="no"/>
      <StateVariable  name="OnTimerRelativeTime"  datatype="time"  sendEvents="no"/>
      <StateVariable  name="OffTimerStatus"  datatype="string"  sendEvents="no">
        <AllowedValueList>
          <AllowedValue>BothReserveON</AllowedValue>
          <AllowedValue>OFF</AllowedValue>
          <AllowedValue>TimeReserveON</AllowedValue>
          <AllowedValue>RelativeTimeReserveON</AllowedValue>
        </AllowedValueList>
      </StateVariable>
      <StateVariable  name="OffTimerAbsoluteTime"  datatype="time"  sendEvents="no"/>
      <StateVariable  name="OffTimerRelativeTime"  datatype="time"  sendEvents="no"/>
    </StateVariableList>
    <ServiceList>
          :
      (Insert the metadata definition of the services common to devices shown in 6.3.2)
          :
      <Service  name="GetOperationModeStatus"
          type="http://www.pucc.jp/2007/09/Device/Echonet/Aircon/Service/GetOperationModeStatus"/>
      <Service  name="SetOperationModeStatus"
          type="http://www.pucc.jp/2007/09/Device/Echonet/Aircon/Service/SetOperationModeStatus"/>
      <Service  name="GetTempAutoStatus"
          type="http://www.pucc.jp/2007/09/Device/Echonet/Aircon/Service/GetTempAutoStatus"/>
      <Service  name="SetTempAutoStatus"
          type="http://www.pucc.jp/2007/09/Device/Echonet/Aircon/Service/SetTempAutoStatus"/>
      <Service  name="GetQuickModeStatus"
```

```
        type="http://www.pucc.jp/2007/09/Device/Echonet/Aircon/Service/GetQuickModeStatus"/>
    <Service    name="SetQuickModeStatus"
        type="http://www.pucc.jp/2007/09/Device/Echonet/Aircon/Service/SetQuickModeStatus"/>
    <Service    name="ReadDesiredTemp"
        type="http://www.pucc.jp/2007/09/Device/Echonet/Aircon/Service/ReadDesiredTemp"/>
    <Service    name="WriteDesiredTemp"
        type="http://www.pucc.jp/2007/09/Device/Echonet/Aircon/Service/WriteDesiredTemp"/>
    <Service    name="ReadDehumidModeRelativeHumid"
      type="http://www.pucc.jp/2007/09/Device/Echonet/Aircon/Service/ReadDehumidModeRelativeHumid"/>
    <Service    name="WriteDehumidModeRelativeHumid"
      type="http://www.pucc.jp/2007/09/Device/Echonet/Aircon/Service/WriteDehumidModeRelativeHumid"/>
    <Service    name="ReadCoolModeDesiredTemp"
        type="http://www.pucc.jp/2007/09/Device/Echonet/Aircon/Service/ReadCoolModeDesiredTemp"/>
    <Service    name="WriteCoolModeDesiredTemp"
        type="http://www.pucc.jp/2007/09/Device/Echonet/Aircon/Service/WriteCoolModeDesiredTemp"/>
    <Service    name="ReadHeatModeDesiredTemp"
        type="http://www.pucc.jp/2007/09/Device/Echonet/Aircon/Service/ReadHeatModeDesiredTemp"/>
    <Service    name="WriteHeatModeDesiredTemp"
        type="http://www.pucc.jp/2007/09/Device/Echonet/Aircon/Service/WriteHeatModeDesiredTemp"/>
    <Service    name="ReadDehumidModeDesiredTemp"
        type="http://www.pucc.jp/2007/09/Device/Echonet/Aircon/Service/ReadDehumidModeDesiredTemp"/>
    <Service    name="WriteDehumidModeDesiredTemp"
       type="http://www.pucc.jp/2007/09/Device/Echonet/Aircon/Service/WriteDehumidModeDesiredTemp"/>
    <Service    name="ReadCoolRatedPower"
        type="http://www.pucc.jp/2007/09/Device/Echonet/Aircon/Service/ReadCoolRatedPower"/>
    <Service    name="ReadHeatRatedPower"
        type="http://www.pucc.jp/2007/09/Device/Echonet/Aircon/Service/ReadHeatRatedPower"/>
    <Service    name="ReadDehumidRatedPower"
        type="http://www.pucc.jp/2007/09/Device/Echonet/Aircon/Service/ReadDehumidRatedPower"/>
    <Service    name="ReadBlastRatedPower"
        type="http://www.pucc.jp/2007/09/Device/Echonet/Aircon/Service/ReadBlastRatedPower"/>
    <Service    name="ReadMeasuredCurrent"
        type="http://www.pucc.jp/2007/09/Device/Echonet/Aircon/Service/ReadMeasuredCurrent"/>
    <Service    name="ReadRoomRelativeHumid"
        type="http://www.pucc.jp/2007/09/Device/Echonet/Aircon/Service/ReadRoomRelativeHumid"/>
    <Service    name="ReadRoomMeasuredTemp"
        type="http://www.pucc.jp/2007/09/Device/Echonet/Aircon/Service/ReadRoomMeasuredTemp"/>
    <Service    name="ReadUserRCDesiredTemp"
        type="http://www.pucc.jp/2007/09/Device/Echonet/Aircon/Service/ReadUserRCDesiredTemp"/>
    <Service    name="ReadBlowOffMeasuredTemp"
        type="http://www.pucc.jp/2007/09/Device/Echonet/Aircon/Service/ReadBlowOffMeasuredTemp"/>
    <Service    name="ReadOutdoorMeasuredTemp"
        type="http://www.pucc.jp/2007/09/Device/Echonet/Aircon/Service/ReadOutdoorMeasuredTemp"/>
    <Service    name="ReadRelativeDesiredTemp"
        type="http://www.pucc.jp/2007/09/Device/Echonet/Aircon/Service/ReadRelativeDesiredTemp"/>
    <Service    name="WriteRelativeDesiredTemp"
        type="http://www.pucc.jp/2007/09/Device/Echonet/Aircon/Service/WriteRelativeDesiredTemp"/>
```

```
<Service   name="GetWindVolumeLevel"
    type="http://www.pucc.jp/2007/09/Device/Echonet/Aircon/Service/GetWindVolumeLevel"/>
<Service   name="SetWindVolumeLevel"
    type="http://www.pucc.jp/2007/09/Device/Echonet/Aircon/Service/SetWindVolumeLevel"/>
<Service   name="GetAirFlowAutoStatus"
    type="http://www.pucc.jp/2007/09/Device/Echonet/Aircon/Service/GetAirFlowAutoStatus"/>
<Service   name="SetAirFlowAutoStatus"
    type="http://www.pucc.jp/2007/09/Device/Echonet/Aircon/Service/SetAirFlowAutoStatus"/>
<Service   name="GetAirFlowSwingStatus"
    type="http://www.pucc.jp/2007/09/Device/Echonet/Aircon/Service/GetAirFlowSwingStatus"/>
<Service   name="SetAirFlowSwingStatus"
    type="http://www.pucc.jp/2007/09/Device/Echonet/Aircon/Service/SetAirFlowSwingStatus"/>
<Service   name="GetVerticalAirFlowStatus"
    type="http://www.pucc.jp/2007/09/Device/Echonet/Aircon/Service/GetVerticalAirFlowStatus"/>
<Service   name="SetVerticalAirFlowStatus"
    type="http://www.pucc.jp/2007/09/Device/Echonet/Aircon/Service/SetVerticalAirFlowStatus"/>
<Service   name="GetHorizontalAirFlowMode"
    type="http://www.pucc.jp/2007/09/Device/Echonet/Aircon/Service/GetHorizontalAirFlowMode"/>
<Service   name="SetHorizontalAirFlowMode"
    type="http://www.pucc.jp/2007/09/Device/Echonet/Aircon/Service/SetHorizontalAirFlowMode"/>
<Service   name="GetSpecialStatus"
    type="http://www.pucc.jp/2007/09/Device/Echonet/Aircon/Service/GetSpecialStatus"/>
<Service   name="GetNonPriorityStatus"
    type="http://www.pucc.jp/2007/09/Device/Echonet/Aircon/Service/GetNonPriorityStatus"/>
<Service   name="GetVentilatingStatus"
    type="http://www.pucc.jp/2007/09/Device/Echonet/Aircon/Service/GetVentilatingStatus"/>
<Service   name="SetVentilatingStatus"
    type="http://www.pucc.jp/2007/09/Device/Echonet/Aircon/Service/SetVentilatingStatus"/>
<Service   name="GetHumidModeStatus"
    type="http://www.pucc.jp/2007/09/Device/Echonet/Aircon/Service/GetHumidModeStatus"/>
<Service   name="SetHumidModeStatus"
    type="http://www.pucc.jp/2007/09/Device/Echonet/Aircon/Service/SetHumidModeStatus"/>
<Service   name="GetVentilatingWindLevel"
    type="http://www.pucc.jp/2007/09/Device/Echonet/Aircon/Service/GetVentilatingWindLevel"/>
<Service   name="SetVentilatingWindLevel"
    type="http://www.pucc.jp/2007/09/Device/Echonet/Aircon/Service/SetVentilatingWindLevel"/>
<Service   name="GetHumidLevel"
    type="http://www.pucc.jp/2007/09/Device/Echonet/Aircon/Service/GetHumidLevel"/>
<Service   name="SetHumidLevel"
    type="http://www.pucc.jp/2007/09/Device/Echonet/Aircon/Service/SetHumidLevel"/>
<Service   name="GetElectricAirPurifierStatus"
    type="http://www.pucc.jp/2007/09/Device/Echonet/Aircon/Service/GetElectricAirPurifierStatus"/>
<Service   name="GetClusterAirPurifierStatus"
    type="http://www.pucc.jp/2007/09/Device/Echonet/Aircon/Service/GetClusterAirPurifierStatus"/>
<Service   name="GetElectricAirPurifierMode"
    type="http://www.pucc.jp/2007/09/Device/Echonet/Aircon/Service/GetElectricAirPurifierMode"/>
<Service   name="GetClusterAirPurifierMode"
```

```
        type="http://www.pucc.jp/2007/09/Device/Echonet/Aircon/Service/GetClusterAirPurifierMode"/>
    <Service    name="SetElectricAirPurifierMode"
        type="http://www.pucc.jp/2007/09/Device/Echonet/Aircon/Service/SetElectricAirPurifierMode"/>
    <Service    name="SetClusterAirPurifierMode"
        type="http://www.pucc.jp/2007/09/Device/Echonet/Aircon/Service/SetClusterAirPurifierMode"/>
    <Service    name="GetMinusIonRefreshStatus"
        type="http://www.pucc.jp/2007/09/Device/Echonet/Aircon/Service/GetMinusIonRefreshStatus"/>
    <Service    name="GetClusterRefreshStatus"
        type="http://www.pucc.jp/2007/09/Device/Echonet/Aircon/Service/GetClusterRefreshStatus"/>
    <Service    name="GetMinusIonRefreshMode"
        type="http://www.pucc.jp/2007/09/Device/Echonet/Aircon/Service/GetMinusIonRefreshMode"/>
    <Service    name="GetClusterRefreshMode"
        type="http://www.pucc.jp/2007/09/Device/Echonet/Aircon/Service/GetClusterRefreshMode"/>
    <Service    name="SetMinusIonRefreshMode"
        type="http://www.pucc.jp/2007/09/Device/Echonet/Aircon/Service/SetMinusIonRefreshMode"/>
    <Service    name="SetClusterRefreshMode"
        type="http://www.pucc.jp/2007/09/Device/Echonet/Aircon/Service/SetClusterRefreshMode"/>
    <Service    name="GetOzoneSelfCleanStatus"
       type="http://www.pucc.jp/2007/09/Device/Echonet/Aircon/Service/GetOzoneSelfCleanStatus"/>
    <Service    name="GetDrySelfCleanStatus"
       type="http://www.pucc.jp/2007/09/Device/Echonet/Aircon/Service/GetDrySelfCleanStatus"/>
    <Service    name="GetOzoneSelfCleanMode"
        type="http://www.pucc.jp/2007/09/Device/Echonet/Aircon/Service/GetOzoneSelfCleanMode"/>
    <Service    name="GetDrySelfCleanMode"
        type="http://www.pucc.jp/2007/09/Device/Echonet/Aircon/Service/GetDrySelfCleanMode"/>
    <Service    name="SetOzoneSelfCleanMode"
        type="http://www.pucc.jp/2007/09/Device/Echonet/Aircon/Service/SetOzoneSelfCleanMode"/>
    <Service    name="SetDrySelfCleanMode"
        type="http://www.pucc.jp/2007/09/Device/Echonet/Aircon/Service/SetDrySelfCleanMode"/>
    <Service    name="GetSpecialOperationStatus"
        type="http://www.pucc.jp/2007/09/Device/Echonet/Aircon/Service/GetSpecialOperationStatus"/>
    <Service    name="SetSpecialOperationStatus"
        type="http://www.pucc.jp/2007/09/Device/Echonet/Aircon/Service/SetSpecialOperationStatus"/>
    <Service    name="GetCompComponentsStatus"
        type="http://www.pucc.jp/2007/09/Device/Echonet/Aircon/Service/GetCompComponentsStatus"/>
    <Service    name="GetThermoComponentsStatus"
        type="http://www.pucc.jp/2007/09/Device/Echonet/Aircon/Service/GetThermoComponentsStatus"/>
    <Service    name="SetForcingThermoStatus"
        type="http://www.pucc.jp/2007/09/Device/Echonet/Aircon/Service/SetForcingThermoStatus"/>
    <Service    name="ReadConsumpionPower"
        type="http://www.pucc.jp/2007/09/Device/Echonet/Aircon/Service/ReadConsumpionPower"/>
    <Service    name="GetOnTimerStatus"
        type="http://www.pucc.jp/2007/09/Device/Echonet/Aircon/Service/GetOnTimerStatus"/>
    <Service    name="SetOnTimerStatus"
        type="http://www.pucc.jp/2007/09/Device/Echonet/Aircon/Service/SetOnTimerStatus"/>
    <Service    name="GetOnTimerAbsoluteTime"
        type="http://www.pucc.jp/2007/09/Device/Echonet/Aircon/Service/GetOnTimerAbsoluteTime"/>
```

```
    <Service   name="SetOnTimerAbsoluteTime"
        type="http://www.pucc.jp/2007/09/Device/Echonet/Aircon/Service/SetOnTimerAbsoluteTime"/>
    <Service   name="GetOnTimerRelativeTime"
        type="http://www.pucc.jp/2007/09/Device/Echonet/Aircon/Service/GetOnTimerRelativeTime"/>
    <Service   name="SetOnTimerRelativeTime"
        type="http://www.pucc.jp/2007/09/Device/Echonet/Aircon/Service/SetOnTimerRelativeTime"/>
    <Service   name="GetOffTimerStatus"
        type="http://www.pucc.jp/2007/09/Device/Echonet/Aircon/Service/GetOffTimerStatus"/>
    <Service   name="SetOffTimerStatus"
        type="http://www.pucc.jp/2007/09/Device/Echonet/Aircon/Service/SetOffTimerStatus"/>
    <Service   name="GetOffTimerAbsoluteTime"
        type="http://www.pucc.jp/2007/09/Device/Echonet/Aircon/Service/GetOffTimerAbsoluteTime"/>
    <Service   name="SetOffTimerAbsoluteTime"
        type="http://www.pucc.jp/2007/09/Device/Echonet/Aircon/Service/SetOffTimerAbsoluteTime"/>
    <Service   name="GetOffTimerRelativeTime"
        type="http://www.pucc.jp/2007/09/Device/Echonet/Aircon/Service/GetOffTimerRelativeTime"/>
    <Service   name="SetOffTimerRelativeTime"
        type="http://www.pucc.jp/2007/09/Device/Echonet/Aircon/Service/SetOffTimerRelativeTime"/>
    <Service   name="GetIcon"
        type="http://www.pucc.jp/2007/09/Device/Echonet/Aircon/Service/GetIcon"/>
  </ServiceList>
  <PrimitiveDeviceList/>
</Device>
```

### 7.5.2. Service Metadata

The metadata templates for the services that home air conditioner devices have are shown below.

※ See 6.3.2. for the metadata of the services common to devices.

(1)GetOperationModeStatusservice metadata

```
<?xml version="1.0" ?>
<Service name="GetOperationModeStatus"
      type="http://www.pucc.jp/2007/09/Device/Echonet/Aircon/Service/GetOperationModeStatus">
   <InputParameterList/>
   <OutputParameterList>
      <Parameter name="CurrentOperationModeStatus"    relatedStateVariable="OperationModeStatus"/>
   </OutputParameterList>
</Service>
```

(2)SetOperationModeStatus service metadata

```
<?xml version="1.0" ?>
<Service name="SetOperationModeStatus"
      type="http://www.pucc.jp/2007/09/Device/Echonet/Aircon/Service/SetOperationModeStatus">
   <InputParameterList>
      <Parameter name="NewOperationModeStatus"    relatedStateVariable="OperationModeStatus"/>
   </InputParameterList>
   <OutputParameterList/>
</Service>
```

(3)GetTempAutoStatus service metadata

```
<?xml version="1.0" ?>
<Service name="GetTempAutoStatus"
      type="http://www.pucc.jp/2007/09/Device/Echonet/Aircon/Service/GetTempAutoStatus">
   <InputParameterList/>
   <OutputParameterList>
      <Parameter name="CurrentTempAutoStatus"    relatedStateVariable="TempAutoStatus"/>
   </OutputParameterList>
</Service>
```

(4)SetTempAutoStatus service metadata

```
<?xml version="1.0" ?>
<Service name="SetTempAutoStatus"
      type="http://www.pucc.jp/2007/09/Device/Echonet/Aircon/Service/SetTempAutoStatus">
   <InputParameterList>
      <Parameter name="NewTempAutoStatus"    relatedStateVariable="TempAutoStatus"/>
   </InputParameterList>
   <OutputParameterList/>
</Service>
```

(5)GetQuickModeStatus service metadata

```
<?xml version="1.0" ?>
<Service name="GetQuickModeStatus"
      type="http://www.pucc.jp/2007/09/Device/Echonet/Aircon/Service/GetQuickModeStatus">
   <InputParameterList/>
   <OutputParameterList>
      <Parameter name="CurrentQuickModeStatus"    relatedStateVariable="QuickModeStatus"/>
   </OutputParameterList>
</Service>
```

(6)SetQuickModeStatus service metadata

```
<?xml version="1.0" ?>
<Service name="SetQuickModeStatus"
      type="http://www.pucc.jp/2007/09/Device/Echonet/Aircon/Service/SetQuickModeStatus">
   <InputParameterList>
      <Parameter name="NewQuickModeStatus"    relatedStateVariable="QuickModeStatus"/>
   </InputParameterList>
   <OutputParameterList/>
</Service>
```

(7)ReadDesiredTemp service metadata

```
<?xml version="1.0" ?>
<Service name="ReadDesiredTemp"
      type="http://www.pucc.jp/2007/09/Device/Echonet/Aircon/Service/ReadDesiredTemp">
   <InputParameterList/>
   <OutputParameterList>
      <Parameter name="CurrentDesiredTemp"    relatedStateVariable="DesiredTemp"/>
   </OutputParameterList>
</Service>
```

(8)WriteDesiredTemp service metadata

```
<?xml version="1.0" ?>
<Service name="WriteDesiredTemp"
      type="http://www.pucc.jp/2007/09/Device/Echonet/Aircon/Service/WriteDesiredTemp">
   <InputParameterList>
      <Parameter name="NewDesiredTemp"    relatedStateVariable="DesiredTemp"/>
   </InputParameterList>
   <OutputParameterList/>
</Service>
```

(9)ReadDehumidModeRelativeHumid service metadata

```
<?xml version="1.0" ?>
<Service name="GetDehumidModeRelativeHumid"
      type="http://www.pucc.jp/2007/09/Device/Echonet/Aircon/Service/ReadDehumidModeRelativeHumid">
   <InputParameterList/>
   <OutputParameterList>
      <Parameter name="CurrentDehumidModeRelativeHumid"    relatedStateVariable=
"DehumidModeRelativeHumid"/>
   </OutputParameterList>
</Service>
```

(10)WriteDehumidModeRelativeHumid service metadata

```
<?xml version="1.0" ?>
<Service name="WriteDehumidModeRelativeHumid"
      type="http://www.pucc.jp/2007/09/Device/Echonet/Aircon/Service/WriteDehumidModeRelativeHumid">
   <InputParameterList>
      <Parameter name="NewDehumidModeRelativeHumid"    relatedStateVariable=
"DehumidModeRelativeHumid"/>
   </InputParameterList>
   <OutputParameterList/>
</Service>
```

(11)ReadCoolModeDesiredTemp service metadata

```
<?xml version="1.0" ?>
<Service name="ReadCoolModeDesiredTemp"
      type="http://www.pucc.jp/2007/09/Device/Echonet/Aircon/Service/ReadCoolModeDesiredTemp">
   <InputParameterList/>
   <OutputParameterList>
      <Parameter name="CurrentCoolModeDesiredTemp"    relatedStateVariable="CoolModeDesiredTemp"/>
   </OutputParameterList>
</Service>
```

(12)WriteCoolModeDesiredTemp service metadata

```
<?xml version="1.0" ?>
<Service name="WriteCoolModeDesiredTemp"
      type="http://www.pucc.jp/2007/09/Device/Echonet/Aircon/Service/WriteCoolModeDesiredTemp">
   <InputParameterList/>
   <OutputParameterList>
      <Parameter name="NewCoolModeDesiredTemp"    relatedStateVariable="CoolModeDesiredTemp"/>
   </OutputParameterList>
</Service>
```

(13)ReadHeatModeDesiredTemp service metadata

```
<?xml version="1.0" ?>
<Service name="ReadHeatModeDesiredTemp"
      type="http://www.pucc.jp/2007/09/Device/Echonet/Aircon/Service/ReadHeatModeDesiredTemp">
   <InputParameterList/>
   <OutputParameterList>
      <Parameter name="CurrentHeatModeDesiredTemp"    relatedStateVariable="HeatModeDesiredTemp"/>
   </OutputParameterList>
</Service>
```

(14)WriteHeatModeDesiredTemp service metadata

```
<?xml version="1.0" ?>
<Service name="WriteHeatModeDesiredTemp"
      type="http://www.pucc.jp/2007/09/Device/Echonet/Aircon/Service/WriteHeatModeDesiredTemp">
   <InputParameterList>
      <Parameter name="NewHeatModeDesiredTemp"    relatedStateVariable="HeatModeDesiredTemp"/>
   </InputParameterList>
   <OutputParameterList/>
</Service>
```

(15)ReadDehumidModeDesiredTemp service metadata

```
<?xml version="1.0" ?>
<Service name="ReadDehumidModeDesiredTemp"
      type="http://www.pucc.jp/2007/09/Device/Echonet/Aircon/Service/ReadDehumidModeDesiredTemp">
   <InputParameterList/>
   <OutputParameterList>
      <Parameter name="CurrentDehumidModeDesiredTemp"    relatedStateVariable=
"DehumidModeDesiredTemp"/>
   </OutputParameterList>
</Service>
```

(16)WriteDehumidModeDesiredTemp service metadata

```
<?xml version="1.0" ?>
<Service name="WriteDehumidModeDesiredTemp"
      type="http://www.pucc.jp/2007/09/Device/Echonet/Aircon/Service/WriteDehumidModeDesiredTemp">
   <InputParameterList>
      <Parameter name="NewDehumidModeDesiredTemp"    relatedStateVariable=
"DehumidModeDesiredTemp"/>
   </InputParameterList>
   <OutputParameterList/>
</Service>
```

(17)ReadCoolRatedPower service metadata

```
<?xml version="1.0" ?>
<Service name="ReadCoolRatedPower"
      type="http://www.pucc.jp/2007/09/Device/Echonet/Aircon/Service/ReadCoolRatedPower">
   <InputParameterList/>
   <OutputParameterList>
      <Parameter name="CurrentCoolRatedPower"    relatedStateVariable="CoolRatedPower"/>
   </OutputParameterList>
</Service>
```

(18)ReadHeatRatedPower service metadata

```
<?xml version="1.0" ?>
<Service name="ReadHeatRatedPower"
      type="http://www.pucc.jp/2007/09/Device/Echonet/Aircon/Service/ReadHeatRatedPower">
   <InputParameterList/>
   <OutputParameterList>
      <Parameter name="CurrentHeatRatedPower"    relatedStateVariable="HeatRatedPower"/>
   </OutputParameterList>
</Service>
```

(19)ReadDehumidRatedPower service metadata

```
<?xml version="1.0" ?>
<Service name="ReadDehumidRatedPower"
      type="http://www.pucc.jp/2007/09/Device/Echonet/Aircon/Service/ReadDehumidRatedPower">
   <InputParameterList/>
   <OutputParameterList>
      <Parameter name="CurrentDehumidRatedPower"    relatedStateVariable="DehumidRatedPower"/>
   </OutputParameterList>
</Service>
```

(20)ReadBlastRatedPower service metadata

```
<?xml version="1.0" ?>
<Service name="ReadBlastRatedPower"
      type="http://www.pucc.jp/2007/09/Device/Echonet/Aircon/Service/ReadBlastRatedPower">
   <InputParameterList/>
   <OutputParameterList>
      <Parameter name="CurrentBlastRatedPower"    relatedStateVariable="BlastRatedPower"/>
   </OutputParameterList>
</Service>
```

(21)ReadMeasuredCurrent service metadata

```
<?xml version="1.0" ?>
<Service name="ReadMeasuredCurrent"
      type="http://www.pucc.jp/2007/09/Device/Echonet/Aircon/Service/ReadMeasuredCurrent">
   <InputParameterList/>
   <OutputParameterList>
      <Parameter name="CurrentMeasuredCurrent"    relatedStateVariable="MeasuredCurrent"/>
   </OutputParameterList>
</Service>
```

(22)ReadRoomRelativeHumid service metadata

```
<?xml version="1.0" ?>
<Service name="ReadRoomRelativeHumid"
      type="http://www.pucc.jp/2007/09/Device/Echonet/Aircon/Service/ReadRoomRelativeHumid">
   <InputParameterList/>
   <OutputParameterList>
      <Parameter name="CurrentRoomRelativeHumid"    relatedStateVariable="RoomRelativeHumid"/>
   </OutputParameterList>
</Service>
```

(23)ReadRoomMeasuredTemp service metadata

```
<?xml version="1.0" ?>
<Service name="ReadRoomMeasuredTemp"
      type="http://www.pucc.jp/2007/09/Device/Echonet/Aircon/Service/ReadRoomMeasuredTemp">
   <InputParameterList/>
   <OutputParameterList>
      <Parameter name="CurrentRoomMeasuredTemp"    relatedStateVariable="RoomMeasuredTemp"/>
   </OutputParameterList>
</Service>
```

(24)ReadUserRCDesiredTemp service metadata

```
<?xml version="1.0" ?>
<Service name="ReadUserRCDesiredTemp"
      type="http://www.pucc.jp/2007/09/Device/Echonet/Aircon/Service/ReadUserRCDesiredTemp">
   <InputParameterList/>
   <OutputParameterList>
      <Parameter name="CurrentUserRCDesiredTemp"    relatedStateVariable="UserRCDesiredTemp"/>
   </OutputParameterList>
</Service>
```

(25)ReadBlowOffMeasuredTemp service metadata

```
<?xml version="1.0" ?>
<Service name="ReadBlowOffMeasuredTemp"
      type="http://www.pucc.jp/2007/09/Device/Echonet/Aircon/Service/ReadBlowOffMeasuredTemp">
   <InputParameterList/>
   <OutputParameterList>
      <Parameter name="CurrentBlowOffMeasuredTemp"    relatedStateVariable="BlowOffMeasuredTemp"/>
   </OutputParameterList>
</Service>
```

(26)ReadOutdoorMeasuredTemp service metadata

```
<?xml version="1.0" ?>
<Service name="ReadOutdoorMeasuredTemp"
      type="http://www.pucc.jp/2007/09/Device/Echonet/Aircon/Service/ReadOutdoorMeasuredTemp">
   <InputParameterList/>
   <OutputParameterList>
      <Parameter name="CurrentOutdoorMeasuredTemp"    relatedStateVariable="OutdoorMeasuredTemp"/>
   </OutputParameterList>
</Service>
```

(27)ReadRelativeDesiredTemp service metadata

```
<?xml version="1.0" ?>
<Service name="ReadRelativeDesiredTemp"
      type="http://www.pucc.jp/2007/09/Device/Echonet/Aircon/Service/ReadRelativeDesiredTemp">
   <InputParameterList/>
   <OutputParameterList>
      <Parameter name="CurrentRelativeDesiredTemp"    relatedStateVariable="RelativeDesiredTemp"/>
   </OutputParameterList>
</Service>
```

(28)WriteRelativeDesiredTemp service metadata

```
<?xml version="1.0" ?>
<Service name="WriteRelativeDesiredTemp"
      type="http://www.pucc.jp/2007/09/Device/Echonet/Aircon/Service/WriteRelativeDesiredTemp">
   <InputParameterList>
      <Parameter name="NewRelativeDesiredTemp"    relatedStateVariable="RelativeDesiredTemp"/>
   </InputParameterList>
   <OutputParameterList/>
</Service>
```

(29)GetWindVolumeLevel service metadata

```
<?xml version="1.0" ?>
<Service name="GetWindVolumeLevel"
      type="http://www.pucc.jp/2007/09/Device/Echonet/Aircon/Service/GetWindVolumeLevel">
   <InputParameterList/>
   <OutputParameterList>
      <Parameter name="CurrentWindVolumeLevel"    relatedStateVariable="WindVolumeLevel"/>
   </OutputParameterList>
</Service>
```

(30)SetWindVolumeLevel service metadata

```
<?xml version="1.0" ?>
<Service name="SetWindVolumeLevel"
      type="http://www.pucc.jp/2007/09/Device/Echonet/Aircon/Service/SetWindVolumeLevel">
   <InputParameterList>
      <Parameter name="NewWindVolumeLevel"    relatedStateVariable="WindVolumeLevel"/>
   </InputParameterList>
   <OutputParameterList/>
</Service>
```

(31)GetAirFlowAutoStatus service metadata

```
<?xml version="1.0" ?>
<Service name="GetAirFlowAutoStatus"
      type="http://www.pucc.jp/2007/09/Device/Echonet/Aircon/Service/GetAirFlowAutoStatus">
   <InputParameterList/>
   <OutputParameterList>
      <Parameter name="CurrentAirFlowAutoStatus"    relatedStateVariable="AirFlowAutoStatus"/>
   </OutputParameterList>
</Service>
```

(32)SetAirFlowAutoStatus service metadata

```
<?xml version="1.0" ?>
<Service name="SetAirFlowAutoStatus"
      type="http://www.pucc.jp/2007/09/Device/Echonet/Aircon/Service/SetAirFlowAutoStatus">
   <InputParameterList>
      <Parameter name="NewAirFlowAutoStatus"    relatedStateVariable="AirFlowAutoStatus"/>
   </InputParameterList>
   <OutputParameterList/>
</Service>
```

(33)GetAirFlowSwingStatus service metadata

```
<?xml version="1.0" ?>
<Service name="GetAirFlowSwingStatus"
      type="http://www.pucc.jp/2007/09/Device/Echonet/Aircon/Service/GetAirFlowSwingStatus">
   <InputParameterList/>
   <OutputParameterList>
      <Parameter name="CurrentAirFlowSwingStatus"    relatedStateVariable="AirFlowSwingStatus"/>
   </OutputParameterList>
</Service>
```

(34)SetAirFlowSwingStatus service metadata

```
<?xml version="1.0" ?>
<Service name="SetAirFlowSwingStatus"
      type="http://www.pucc.jp/2007/09/Device/Echonet/Aircon/Service/SetAirFlowSwingStatus">
   <InputParameterList>
      <Parameter name="NewAirFlowSwingStatus"    relatedStateVariable="AirFlowSwingStatus"/>
   </InputParameterList>
   <OutputParameterList/>
</Service>
```

(35)GetVerticalAirFlowStatus service metadata

```
<?xml version="1.0" ?>
<Service name="GetVerticalAirFlowStatus"
      type="http://www.pucc.jp/2007/09/Device/Echonet/Aircon/Service/GetVerticalAirFlowStatus">
   <InputParameterList/>
   <OutputParameterList>
      <Parameter name="CurrentVerticalAirFlowStatus"    relatedStateVariable="VerticalAirFlowStatus"/>
   </OutputParameterList>
</Service>
```

(36)SetVerticalAirFlowStatus service metadata

```
<?xml version="1.0" ?>
<Service name="SetVerticalAirFlowStatus"
      type="http://www.pucc.jp/2007/09/Device/Echonet/Aircon/Service/SetVerticalAirFlowStatus">
   <InputParameterList>
      <Parameter name="NewVerticalAirFlowStatus"    relatedStateVariable="VerticalAirFlowStatus"/>
   </InputParameterList>
   <OutputParameterList/>
</Service>
```

(37)GetHorizontalAirFlowMode service metadata

```
<?xml version="1.0" ?>
<Service name="GetHorizontalAirFlowMode"
      type="http://www.pucc.jp/2007/09/Device/Echonet/Aircon/Service/GetHorizontalAirFlowMode">
   <InputParameterList/>
   <OutputParameterList>
      <Parameter name="CurrentHorizontalAirFlowMode"    relatedStateVariable="HorizontalAirFlowMode"/>
   </OutputParameterList>
</Service>
```

(38)SetHorizontalAirFlowMode service metadata

```
<?xml version="1.0" ?>
<Service name="SetHorizontalAirFlowMode"
      type="http://www.pucc.jp/2007/09/Device/Echonet/Aircon/Service/SetHorizontalAirFlowMode">
   <InputParameterList>
      <Parameter name="NewHorizontalAirFlowMode"    relatedStateVariable="HorizontalAirFlowMode"/>
   </InputParameterList>
   <OutputParameterList/>
</Service>
```

(39)GetSpecialStatus service metadata

```
<?xml version="1.0" ?>
<Service name="GetSpecialStatus"
      type="http://www.pucc.jp/2007/09/Device/Echonet/Aircon/Service/GetSpecialStatus">
   <InputParameterList/>
   <OutputParameterList>
      <Parameter name="CurrentSpecialStatus"    relatedStateVariable="SpecialStatus"/>
   </OutputParameterList>
</Service>
```

(40)GetNonPriorityStatus service metadata

```
<?xml version="1.0" ?>
<Service name="GetNonPriorityStatus"
      type="http://www.pucc.jp/2007/09/Device/Echonet/Aircon/Service/GetNonPriorityStatus">
   <InputParameterList/>
   <OutputParameterList>
      <Parameter name="CurrentNonPriorityStatus"    relatedStateVariable="NonPriorityStatus"/>
   </OutputParameterList>
</Service>
```

(41)GetVentilatingStatus service metadata

```
<?xml version="1.0" ?>
<Service name="GetVentilatingStatus"
      type="http://www.pucc.jp/2007/09/Device/Echonet/Aircon/Service/GetVentilatingStatus">
   <InputParameterList/>
   <OutputParameterList>
      <Parameter name="CurrentVentilatingStatus"    relatedStateVariable="VentilatingStatus"/>
   </OutputParameterList>
</Service>
```

(42)SetVentilatingStatus service metadata

```
<?xml version="1.0" ?>
<Service name="SetVentilatingStatus"
      type="http://www.pucc.jp/2007/09/Device/Echonet/Aircon/Service/SetVentilatingStatus">
   <InputParameterList>
      <Parameter name="NewVentilatingStatus"    relatedStateVariable="VentilatingStatus"/>
   </InputParameterList>
   <OutputParameterList/>
</Service>
```

(43)GetHumidModeStatus service metadata

```
<?xml version="1.0" ?>
<Service name="GetHumidModeStatus"
      type="http://www.pucc.jp/2007/09/Device/Echonet/Aircon/Service/GetHumidModeStatus">
   <InputParameterList/>
   <OutputParameterList>
      <Parameter name="CurrentHumidModeStatus"    relatedStateVariable="HumidModeStatus"/>
   </OutputParameterList>
</Service>
```

(44)SetHumidModeStatus service metadata

```
<?xml version="1.0" ?>
<Service name="SetHumidModeStatus"
      type="http://www.pucc.jp/2007/09/Device/Echonet/Aircon/Service/SetHumidModeStatus">
   <InputParameterList>
      <Parameter name="NewHumidModeStatus"    relatedStateVariable="HumidModeStatus"/>
   </InputParameterList>
   <OutputParameterList/>
</Service>
```

(45)GetVentilatingWindLevel service metadata

```
<?xml version="1.0" ?>
<Service name="GetVentilatingWindLevel"
      type="http://www.pucc.jp/2007/09/Device/Echonet/Aircon/Service/GetVentilatingWindLevel">
   <InputParameterList/>
   <OutputParameterList>
      <Parameter name="CurrentVentilatingWindLevel"    relatedStateVariable="VentilatingWindLevel"/>
   </OutputParameterList>
</Service>
```

(46)SetVentilatingWindLevel service metadata

```
<?xml version="1.0" ?>
<Service name="SetVentilatingWindLevel"
      type="http://www.pucc.jp/2007/09/Device/Echonet/Aircon/Service/SetVentilatingWindLevel">
   <InputParameterList>
      <Parameter name="NewVentilatingWindLevel"    relatedStateVariable="VentilatingWindLevel"/>
   </InputParameterList>
   <OutputParameterList/>
</Service>
```

(47)GetHumidLevel service metadata

```
<?xml version="1.0" ?>
<Service name="GetHumidLevel"
      type="http://www.pucc.jp/2007/09/Device/Echonet/Aircon/Service/GetHumidLevel">
   <InputParameterList/>
   <OutputParameterList>
      <Parameter name="CurrentHumidLevel"    relatedStateVariable="HumidLevel"/>
   </OutputParameterList>
</Service>
```

(48)SetHumidLevel service metadata

```
<?xml version="1.0" ?>
<Service name="SetHumidLevel"
      type="http://www.pucc.jp/2007/09/Device/Echonet/Aircon/Service/SetHumidLevel">
   <InputParameterList>
      <Parameter name="NewHumidLevel"    relatedStateVariable="HumidLevel"/>
   </InputParameterList>
   <OutputParameterList/>
</Service>
```

(49)GetElectricAirPurifierStatus service metadata

```
<?xml version="1.0" ?>
<Service name="GetElectricAirPurifierStatus"
      type="http://www.pucc.jp/2007/09/Device/Echonet/Aircon/Service/GetElectricAirPurifierStatus">
   <InputParameterList/>
   <OutputParameterList>
      <Parameter name="CurrentElectricAirPurifierStatus"    relatedStateVariable="ElectricAirPurifierStatus"/>
   </OutputParameterList>
</Service>
```

(50)GetClusterAirPurifierStatus service metadata

```
<?xml version="1.0" ?>
<Service name="GetClusterAirPurifierStatus"
      type="http://www.pucc.jp/2007/09/Device/Echonet/Aircon/Service/GetClusterAirPurifierStatus">
   <InputParameterList/>
   <OutputParameterList>
      <Parameter name="CurrentClusterAirPurifierStatus"    relatedStateVariable="ClusterAirPurifierStatus"/>
   </OutputParameterList>
</Service>
```

(51)GetElectricAirPurifierMode service metadata

```
<?xml version="1.0" ?>
<Service name="GetElectricAirPurifierMode"
      type="http://www.pucc.jp/2007/09/Device/Echonet/Aircon/Service/GetElectricAirPurifierMode">
   <InputParameterList/>
   <OutputParameterList>
      <Parameter name="CurrentElectricAirPurifierMode"    relatedStateVariable="ElectricAirPurifierMode"/>
   </OutputParameterList>
</Service>
```

(52)GetClusterAirPurifierMode service metadata

```
<?xml version="1.0" ?>
<Service name="GetClusterAirPurifierMode"
      type="http://www.pucc.jp/2007/09/Device/Echonet/Aircon/Service/GetClusterAirPurifierMode">
   <InputParameterList/>
   <OutputParameterList>
      <Parameter name="CurrentClusterAirPurifierMode"    relatedStateVariable="ClusterAirPurifierMode"/>
   </OutputParameterList>
</Service>
```

(53)SetElectricAirPurifierMode service metadata

```
<?xml version="1.0" ?>
<Service name="SetElectricAirPurifierMode"
      type="http://www.pucc.jp/2007/09/Device/Echonet/Aircon/Service/SetElectricAirPurifierMode">
   <InputParameterList>
      <Parameter name="NewElectricAirPurifierMode"    relatedStateVariable="ElectricAirPurifierMode"/>
   </InputParameterList>
   <OutputParameterList/>
</Service>
```

(54)SetClusterAirPurifierMode service metadata

```
<?xml version="1.0" ?>
<Service name="SetClusterAirPurifierMode"
      type="http://www.pucc.jp/2007/09/Device/Echonet/Aircon/Service/SetClusterAirPurifierMode">
   <InputParameterList>
      <Parameter name="NewClusterAirPurifierMode"    relatedStateVariable="ClusterAirPurifierMode"/>
   </InputParameterList>
   <OutputParameterList/>
</Service>
```

(55)GetMinusIonRefreshStatus service metadata

```
<?xml version="1.0" ?>
<Service name="GetMinusIonRefreshStatus"
      type="http://www.pucc.jp/2007/09/Device/Echonet/Aircon/Service/GetMinusIonRefreshStatus">
   <InputParameterList/>
   <OutputParameterList>
      <Parameter name="CurrentMinusIonRefreshStatus"    relatedStateVariable="MinusIonRefreshStatus"/>
   </OutputParameterList>
</Service>
```

(56)GetClusterRefreshStatus service metadata

```
<?xml version="1.0" ?>
<Service name="GetClusterRefreshStatus"
      type="http://www.pucc.jp/2007/09/Device/Echonet/Aircon/Service/GetClusterRefreshStatus">
   <InputParameterList/>
   <OutputParameterList>
      <Parameter name="CurrentClusterRefreshStatus"    relatedStateVariable="ClusterRefreshStatus"/>
   </OutputParameterList>
</Service>
```

(57)GetMinusIonRefreshMode service metadata

```
<?xml version="1.0" ?>
<Service name="GetMinusIonRefreshMode"
      type="http://www.pucc.jp/2007/09/Device/Echonet/Aircon/Service/GetMinusIonRefreshMode">
   <InputParameterList/>
   <OutputParameterList>
      <Parameter name="CurrentMinusIonRefreshMode"    relatedStateVariable="MinusIonRefreshMode"/>
   </OutputParameterList>
</Service>
```

(58)GetClusterIonRefreshMode service metadata

```
<?xml version="1.0" ?>
<Service name="GetClusterIonRefreshMode"
      type="http://www.pucc.jp/2007/09/Device/Echonet/Aircon/Service/GetClusterIonRefreshMode">
   <InputParameterList/>
   <OutputParameterList>
      <Parameter name="CurrentClusterIonRefreshMode"    relatedStateVariable="ClusterIonRefreshMode"/>
   </OutputParameterList>
</Service>
```

(59)SetMinusIonRefreshMode service metadata

```
<?xml version="1.0" ?>
<Service name="SetMinusIonRefreshMode"
      type="http://www.pucc.jp/2007/09/Device/Echonet/Aircon/Service/SetMinusIonRefreshMode">
   <InputParameterList>
      <Parameter name="NewMinusIonRefreshMode"    relatedStateVariable="MinusIonRefreshMode"/>
   </InputParameterList>
   <OutputParameterList/>
</Service>
```

(60)SetClusterIonRefreshMode service metadata

```
<?xml version="1.0" ?>
<Service name="SetClusterIonRefreshMode"
      type="http://www.pucc.jp/2007/09/Device/Echonet/Aircon/Service/SetClusterIonRefreshMode">
   <InputParameterList>
      <Parameter name="NewClusterIonRefreshMode"    relatedStateVariable="ClusterIonRefreshMode"/>
   </InputParameterList>
   <OutputParameterList/>
</Service>
```

(61)GetOzoneSelfCleanStatus service metadata

```
<?xml version="1.0" ?>
<Service name="GetOzoneSelfCleanStatus"
      type="http://www.pucc.jp/2007/09/Device/Echonet/Aircon/Service/GetOzoneSelfCleanStatus">
   <InputParameterList/>
   <OutputParameterList>
      <Parameter name="CurrentOzoneSelfCleanStatus"    relatedStateVariable="OzoneSelfCleanStatus"/>
   </OutputParameterList>
</Service>
```

(62)GetDrySelfCleanStatus service metadata

```
<?xml version="1.0" ?>
<Service name="GetDrySelfCleanStatus"
      type="http://www.pucc.jp/2007/09/Device/Echonet/Aircon/Service/GetDrySelfCleanStatus">
   <InputParameterList/>
   <OutputParameterList>
      <Parameter name="CurrentDrySelfCleanStatus"    relatedStateVariable="DrySelfCleanStatus"/>
   </OutputParameterList>
</Service>
```

(63)GetOzoneSelfCleanMode service metadata

```
<?xml version="1.0" ?>
<Service name="GetOzoneSelfCleanMode"
      type="http://www.pucc.jp/2007/09/Device/Echonet/Aircon/Service/GetOzoneSelfCleanMode">
   <InputParameterList/>
   <OutputParameterList>
      <Parameter name="CurrentOzoneSelfCleanMode"    relatedStateVariable="OzoneSelfCleanMode"/>
   </OutputParameterList>
</Service>
```

(64)GetDrySelfCleanMode service metadata

```
<?xml version="1.0" ?>
<Service name="GetDrySelfCleanMode"
      type="http://www.pucc.jp/2007/09/Device/Echonet/Aircon/Service/GetDrySelfCleanMode">
   <InputParameterList/>
   <OutputParameterList>
      <Parameter name="CurrentDrySelfCleanMode"    relatedStateVariable="DrySelfCleanMode"/>
   </OutputParameterList>
</Service>
```

(65)SetOzoneSelfCleanMode service metadata

```
<?xml version="1.0" ?>
<Service name="SetOzoneSelfCleanMode"
      type="http://www.pucc.jp/2007/09/Device/Echonet/Aircon/Service/SetOzoneSelfCleanMode">
   <InputParameterList>
      <Parameter name="NewOzoneSelfCleanMode"    relatedStateVariable="OzoneSelfCleanMode"/>
   </InputParameterList>
   <OutputParameterList/>
</Service>
```

(66)SetDrySelfCleanMode service metadata

```
<?xml version="1.0" ?>
<Service name="SetDrySelfCleanMode"
      type="http://www.pucc.jp/2007/09/Device/Echonet/Aircon/Service/SetDrySelfCleanMode">
   <InputParameterList>
      <Parameter name="NewDrySelfCleanMode"    relatedStateVariable="DrySelfCleanMode"/>
   </InputParameterList>
   <OutputParameterList/>
</Service>
```

(67)GetSpecialOperationStatus service metadata

```
<?xml version="1.0" ?>
<Service name="GetSpecialOperationStatus"
   type="http://www.pucc.jp/2007/09/Device/Echonet/Aircon/Service/GetSpecialOperationStatus">
   <InputParameterList/>
   <OutputParameterList>
      <Parameter name="CurrentSpecialOperationStatus"    relatedStateVariable="SpecialOperationStatus"/>
   </OutputParameterList>
</Service>
```

(68)SetSpecialOperationStatus service metadata

```
<?xml version="1.0" ?>
<Service name="SetSpecialOperationStatus"
     type="http://www.pucc.jp/2007/09/Device/Echonet/Aircon/Service/SetSpecialOperationStatus">
   <InputParameterList>
      <Parameter name="NewSpecialOperationStatus"    relatedStateVariable="SpecialOperationStatus"/>
   </InputParameterList>
   <OutputParameterList/>
</Service>
```

(69)GetCompComponentsStatus service metadata

```
<?xml version="1.0" ?>
<Service name="GetCompComponentsStatus"
      type="http://www.pucc.jp/2007/09/Device/Echonet/Aircon/Service/GetCompComponentsStatus">
   <InputParameterList/>
   <OutputParameterList>
      <Parameter name="CurrentCompComponentsStatus"    relatedStateVariable="CompComponentsStatus"/>
   </OutputParameterList>
</Service>
```

(70)GetThermoComponentsStatus service metadata

```
<?xml version="1.0" ?>
<Service name="GetThermoComponentsStatus"
      type="http://www.pucc.jp/2007/09/Device/Echonet/Aircon/Service/GetThermoComponentsStatus">
   <InputParameterList/>
   <OutputParameterList>
      <Parameter name="CurrentThermoComponentsStatus"    relatedStateVariable=
"ThermoComponentsStatus"/>
   </OutputParameterList>
</Service>
```

(71)SetForcingThermoStatus service metadata

```
<?xml version="1.0" ?>
<Service name="SetForcingThermoStatus"
      type="http://www.pucc.jp/2007/09/Device/Echonet/Aircon/Service/SetForcingThermoStatus">
   <InputParameterList>
      <Parameter name="NewForcingThermoStatus"    relatedStateVariable="ForcingThermoStatus"/>
   </InputParameterList>
   <OutputParameterList/>
</Service>
```

(72)ReadConsumpionPower service metadata

```
<?xml version="1.0" ?>
<Service name="ReadConsumpionPower"
      type="http://www.pucc.jp/2007/09/Device/Echonet/Aircon/Service/ReadConsumpionPower">
   <InputParameterList/>
   <OutputParameterList>
      <Parameter name="CurrentConsumpionPower"    relatedStateVariable="ConsumpionPower"/>
   </OutputParameterList>
</Service>
```

(73)GetOnTimerStatus service metadata

```
<?xml version="1.0" ?>
<Service name="GetOnTimerStatus"
      type="http://www.pucc.jp/2007/09/Device/Echonet/Aircon/Service/GetOnTimerStatus">
   <InputParameterList/>
   <OutputParameterList>
      <Parameter name="CurrentOnTimerStatus"    relatedStateVariable="OnTimerStatus"/>
   </OutputParameterList>
</Service>
```

(74)SetOnTimerStatus service metadata

```
<?xml version="1.0" ?>
<Service name="SetOnTimerStatus"
      type="http://www.pucc.jp/2007/09/Device/Echonet/Aircon/Service/SetOnTimerStatus">
   <InputParameterList>
      <Parameter name="NewOnTimerStatus"    relatedStateVariable="OnTimerStatus"/>
   </InputParameterList>
   <OutputParameterList/>
</Service>
```

(75)GetOnTimerAbsoluteTime service metadata

```
<?xml version="1.0" ?>
<Service name="GetOnTimerAbsoluteTime"
      type="http://www.pucc.jp/2007/09/Device/Echonet/Aircon/Service/GetOnTimerAbsoluteTime">
   <InputParameterList/>
   <OutputParameterList>
      <Parameter name="CurrentOnTimerAbsoluteTime"    relatedStateVariable="OnTimerAbsoluteTime"/>
   </OutputParameterList>
</Service>
```

(76)SetOnTimerAbsoluteTime service metadata

```
<?xml version="1.0" ?>
<Service name="SetOnTimerAbsoluteTime"
      type="http://www.pucc.jp/2007/09/Device/Echonet/Aircon/Service/SetOnTimerAbsoluteTime">
   <InputParameterList>
      <Parameter name="NewOnTimerAbsoluteTime"    relatedStateVariable="OnTimerAbsoluteTime"/>
   </InputParameterList>
   <OutputParameterList/>
</Service>
```

(77)GetOnTimerRelativeTime service metadata

```
<?xml version="1.0" ?>
<Service name="GetOnTimerRelativeTime"
      type="http://www.pucc.jp/2007/09/Device/Echonet/Aircon/Service/GetOnTimerRelativeTime">
   <InputParameterList/>
   <OutputParameterList>
      <Parameter name="CurrentOnTimerRelativeTime"    relatedStateVariable="OnTimerRelativeTime"/>
   </OutputParameterList>
</Service>
```

(78)SetOnTimerRelativeTime service metadata

```
<?xml version="1.0" ?>
<Service name="SetOnTimerRelativeTime"
      type="http://www.pucc.jp/2007/09/Device/Echonet/Aircon/Service/SetOnTimerRelativeTime">
   <InputParameterList>
      <Parameter name="NewOnTimerRelativeTime"    relatedStateVariable="OnTimerRelativeTime"/>
   </InputParameterList>
   <OutputParameterList/>
</Service>
```

(79)GetOffTimerStatus service metadata

```
<?xml version="1.0" ?>
<Service name="GetOffTimerStatus"
      type="http://www.pucc.jp/2007/09/Device/Echonet/Aircon/Service/GetOffTimerStatus">
   <InputParameterList/>
   <OutputParameterList>
      <Parameter name="CurrentOffTimerStatus"    relatedStateVariable="OffTimerStatus"/>
   </OutputParameterList>
</Service>
```

(80)SetOffTimerStatus service metadata

```
<?xml version="1.0" ?>
<Service name="SetOffTimerStatus"
      type="http://www.pucc.jp/2007/09/Device/Echonet/Aircon/Service/SetOffTimerStatus">
   <InputParameterList>
      <Parameter name="NewOffTimerStatus"    relatedStateVariable="OffTimerStatus"/>
   </InputParameterList>
   <OutputParameterList/>
</Service>
```

(81)GetOffTimerAbsoluteTime service metadata

```
<?xml version="1.0" ?>
<Service name="GetOffTimerAbsoluteTime"
     type="http://www.pucc.jp/2007/09/Device/Echonet/Aircon/Service/GetOffTimerAbsoluteTime">
   <InputParameterList/>
   <OutputParameterList>
      <Parameter name="CurrentOffTimerAbsoluteTime"    relatedStateVariable="OffTimerAbsoluteTime"/>
   </OutputParameterList>
</Service>
```

(82)SetOffTimerAbsoluteTime service metadata

```
<?xml version="1.0" ?>
<Service name="SetOffTimerAbsoluteTime"
      type="http://www.pucc.jp/2007/09/Device/Echonet/Aircon/Service/SetOffTimerAbsoluteTime">
   <InputParameterList>
      <Parameter name="NewOffTimerAbsoluteTime"    relatedStateVariable="OffTimerAbsoluteTime"/>
   </InputParameterList>
   <OutputParameterList/>
</Service>
```

(83)GetOffTimerRelativeTime service metadata

```
<?xml version="1.0" ?>
<Service name="GetOffTimerRelativeTime"
      type="http://www.pucc.jp/2007/09/Device/Echonet/Aircon/Service/GetOffTimerRelativeTime">
   <InputParameterList/>
   <OutputParameterList>
      <Parameter name="CurrentOffTimerRelativeTime"    relatedStateVariable="OffTimerRelativeTime"/>
   </OutputParameterList>
</Service>
```

(84)SetOffTimerRelativeTime service metadata

```
<?xml version="1.0" ?>
<Service name="SetOffTimerRelativeTime"
      type="http://www.pucc.jp/2007/09/Device/Echonet/Aircon/Service/SetOffTimerRelativeTime">
   <InputParameterList>
      <Parameter name="NewOffTimerRelativeTime"    relatedStateVariable="OffTimerRelativeTime"/>
   </InputParameterList>
   <OutputParameterList/>
</Service>
```

(85)GetIcon service metadata

```
<?xml version="1.0" ?>
<Service name="GetIcon"
      type="http://www.pucc.jp/2007/09/Device/Echonet/Aircon/Service/GetIcon">
   <InputParameterList>
      <Parameter name="url" datatype="string"/>
   </InputParameterList>
   <OutputParameterList>
      <Parameter name="mimeType" datatype="string"/>
      <Parameter name="base64Data" datatype="base64Binary"/>
   </OutputParameterList>
</Service>
```

# 8. General Lighting Devices

This chapter defines the PUCC metadata specification for general lighting devices.

## 8.1. Device Model

General lighting devices adopt the device model shown below.

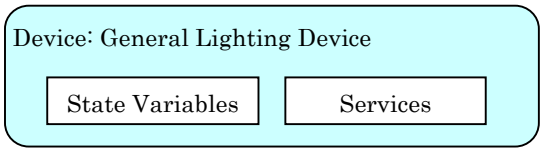


**Figure 8.1-1 General lighting device model**

## 8.2. Device Type

The device type identifier of general lighting devices is shown below.

http://www.pucc.jp/2007/09/Device/Echonet/Light

## 8.3. State Variables

A list of the state variables of general lighting devices is shown below.

**Table 8.3-1: State variables of General lighting devices**

| | State Variable Name | Description | Data Type | Event Generation (Yes/No) |
|---|---|---|---|---|
| 1 | OperationStatus | Operation status (6.1.1) | string | Yes |
| 2 | InstallationLocation | Installation location (6.1.2) | hexBinary | Yes |
| 3 | SpecVersionInfoCode | Specification version information (6.1.3) | string | No |
| 4 | LowerNodeIdCode | Node identification code (6.1.4) (lower-layer communication software ID field) | string | No |
| 5 | NodeIdCode | Node identification code (6.1.4) (individual number field) | string | No |
| 6 | ManufacturerErrorCode | Manufacturer error code (6.1.5) | string | No |
| 7 | PowerLimit | Power limit (6.1.6) | integer | No |
| 8 | FaultStatus | Fault status (6.1.7) | string | Yes |
| 9 | FaultContent | Fault content (6.1.8) | hexBinary | No |
| 10 | MakerCode | Manufacturer code (6.1.9) | string | No |
| 11 | PlaceOfBuisinessCode | Place-of-business code (6.1.10) | string | No |
| 12 | EnergySavingStatus | Energy saving status (6.1.11) | string | No |
| 13 | PresentTime | P resent time (6.1.12) | time | No |
| 14 | PresentDate | Present date (6.1.13) | date | No |
| 15 | CumulatedRunTimeValue | Cumulative run-time (6.1.14) | hexBinary | No |
| 16 | IlluminancePercentage | Illuminance level | integer | No |

The details of each state variable are given below.

※ See 6.1 for the details of the state variables common to devices.

### 8.3.1. Illuminance level (IlluminancePercentage)

This is an integral value from 0 to 100.

## 8.4. Services

The services of general lighting devices are shown below.

**Table 8.4-1: Services offered by general lighting devices**

| | Service Name | Description | |
|---|---|---|---|
| 1 | GetOperationStatus | Obtains the operation status | (6.2.1) |
| 2 | SetOperationStatus | Sets the operation status | (6.2.2) |
| 3 | GetInstallationLocation | Obtains the installation location | (6.2.3) |
| 4 | SetInstallationLocation | Sets the installation location | (6.2.4) |
| 5 | GetSpecVersionInfoCode | Obtains the specification version information | (6.2.5) |
| 6 | GetLowerNodeIdCode | Obtains the node identification code (lower-layer communication software ID field) | (6.2.6) |
| 7 | GetNodeIdCode | Obtains the node identification code (individual number field) | (6.2.7) |
| 8 | GetManufacturerErrorCode | Obtains the manufacturer error code | (6.2.8) |
| 9 | ReadPowerLimit | Obtains the power limit | (6.2.9) |
| 10 | WritePowerLimit | Sets the power limit | (6.2.10) |
| 11 | GetFaultStatus | Obtains the fault status | (6.2.11) |
| 12 | GetFaultContent | Obtains the fault content | (6.2.12) |
| 13 | GetMakerCode | Obtains the manufacturer code | (6.2.13) |
| 14 | GetPlaceOfBuisinessCode | Obtains the place-of-business code | (6.2.14) |
| 15 | GetEnergySavingStatus | Obtains the energy saving status | (6.2.15) |
| 16 | SetEnergySavingStatus | Sets the energy saving status | (6.2.16) |
| 17 | GetPresentTime | Obtains the present time | (6.2.17) |
| 18 | SetPresentTime | Sets the present time | (6.2.18) |
| 19 | GetPresentDate | Obtains the present date | (6.2.19) |
| 20 | SetPresentDate | Sets the present date | (6.2.20) |
| 21 | GetCumulatedRunTimeValue | Obtains the cumulative run-time | (6.2.21) |
| 22 | ReadIlluminancePercentage | Obtains the illuminance level | |
| 23 | WriteIlluminancePercentage | Sets the illuminance level | |
| 24 | GetIcon | Obtains the icon | |

The details of each service are shown below.

※ See 6.2 for the details of the services common to devices.

### 8.4.1. ReadIlluminancePercentage

(1)Description

Obtains the illuminance level

(2) Service type identifier

http://www.pucc.jp/2007/09/Device/Echonet/Light/Service/ReadIlluminancePercentage

(3) Input parameter

None

(4) Output parameter

**Table 8.4.1-1: Output parameter of the ReadIlluminancePercentage service**

| | Parameter | Related State Variable | Remarks |
|---|---|---|---|
| 1 | CurrentIlluminancePercentage | IlluminancePercentage | See also 8.3.1 |

### 8.4.2. WriteIlluminancePercentage

(1)Description

Sets the illuminance level

(2) Service type identifier

http://www.pucc.jp/2007/09/Device/Echonet/Light/Service/WriteIlluminancePercentage

(3) Input parameter

**Table 8.4.2-1: Input parameter of the WriteIlluminancePercentage service**

| | Parameter | Related State Variable | Remarks |
|---|---|---|---|
| 1 | NewIlluminancePercentage | IlluminancePercentage | See also 8.3.1 |

(4) Output parameter

None

### 8.4.3. GetIcon

(1)Description

Obtains the icon

(2) Service type identifier

http://www.pucc.jp/2007/09/Device/Echonet/Light/Service/GetIcon

(3) Input parameter

**Table 8.4.3-1: Input parameter of the GetIcon service**

| | Parameter | Related State Variable | Data Type | Remarks |
|---|---|---|---|---|
| 1 | url | - | string | Sets the URL of an icon image |

(4) Output parameter

**Table 8.4.3-2: Output parameter of the GetIcon service**

| | Parameter | Related State Variable | Data Type | Remarks |
|---|---|---|---|---|
| 1 | mimeType | - | string | Sets the MIME type of an icon image |
| 2 | base64Data | - | base64Binary | Sets the data of the BASE64-encoded image of an icon |

## 8.5. Metadata

### 8.5.1. Device Metadata

The metadata template of general lighting devices is shown below.

*Italic letters in red*: differ by the entity of each lighting device

```
<?xml version="1.0"?>
<Device  type="http://www.pucc.jp/2007/09/Device/Echonet/Light"
          id="global unique ID for this device"  name="short user-friendly title">
  <Specification>
    <URLBase>base URL for all relative URLs</URLBase>
    <Manufacturer>manufacturer name</Manufacturer>
    <ManufacturerURL>URL to manufacturer site</ManufacturerURL>
    <ManufactureDate>date of manufacture</ManufactureDate>
    <ModelDescription>long user-friendly title</ModelDescription>
    <ModelName>model name</ModelName>
    <ModelNumber>model number</ModelNumber>
    <ModelURL>URL to model site</ModelURL>
    <SerialNumber>manufacturer's serial number</SerialNumber>
    <UDN>uuid:UUID</UDN>
    <UPC>Universal Product Code</UPC>
    <IconList>
      <Icon>
        <Mimetype>image/format</Mimetype>
        <Width>horizontal pixels</width>
        <Height>vertical pixels</height>
        <Depth>color depth</depth>
        <Url>URL to icon</Url>
      </icon>
      XML to declare other icons, if any, go here
    </IconList>
  </Specification>
  <StateVariableList>
        :
    (Insert the metadata definition of the state variables common to devices shown in 6.3.1)
        :
    <StateVariable  name="IlluminancePercentage"  datatype="integer"  sendEvents="no">
      <AllowedValueRange>
        <Minimum>0</Minimum>
        <Maximum>100</Maximum>
        <Step>1</Step>
      </AllowedValueRange>
    </StateVariable>
```

```
  </StateVariableList>
  <ServiceList>
          :
      (Insert the metadata definition of the services common to devices shown in 6.3.2)
          :
    <Service   name="ReadIlluminancePercentage"
        type="http://www.pucc.jp/2007/09/Device/Echonet/Light/Service/ReadIlluminancePercentage"/>
    <Service   name="WriteIlluminancePercentage"
        type="http://www.pucc.jp/2007/09/Device/Echonet/Light/Service/WriteIlluminancePercentage"/>
    <Service   name="GetIcon" type="http://www.pucc.jp/2007/09/Device/Echonet/Light/Service/GetIcon"/>
  </ServiceList>
  <PrimitiveDeviceList/>
</Device>
```

### 8.5.2. Service Metadata

The metadata templates for the services that general lighting devices have are shown below.

※ See also 6.3.2. for the metadata for the services common to devices.

(1)ReadIlluminancePercentage service metadata

```
<?xml version="1.0" ?>
<Service
      type="http://www.pucc.jp/2007/09/Device/Echonet/Light/Service/ReadIlluminancePercentage"
      name="ReadIlluminancePercentage">
   <InputParameterList/>
   <OutputParameterList>
      <Parameter name="CurrentIlluminancePercentage"    relatedStateVariable="IlluminancePercentage"/>
   </OutputParameterList>
</Service>
```

(2)WriteIlluminancePercentage service metadata

```
<?xml version="1.0" ?>
<Service
      type="http://www.pucc.jp/2007/09/Device/Echonet/Light/Service/WriteIlluminancePercentage"
      name="WriteIlluminancePercentage">
   <InputParameterList>
      <Parameter name="NewIlluminancePercentage"    relatedStateVariable="IlluminancePercentage"/>
   </InputParameterList>
   <OutputParameterList/>
</Service>
```

(3)GetIcon service metadata

```
<?xml version="1.0" ?>
<Service type="http://www.pucc.jp/2007/09/Device/Echonet/Light/Service/GetIcon"    name="GetIcon">
   <InputParameterList>
      <Parameter name="url" datatype="string"/>
   </InputParameterList>
   <OutputParameterList>
      <Parameter name="mimeType" datatype="string"/>
      <Parameter name="base64Data" datatype="base64Binary"/>
   </OutputParameterList>
</Service>
```

# 9. Electronic Locking Devices

This chapter defines the PUCC metadata specification for electronic locking devices.

## 9.1. Devices Model

Electronic locking devices adopt the device model shown below.

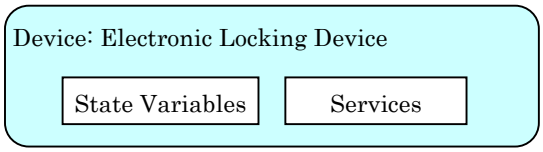


**Figure 9.1-1 Electronic locking device model**

## 9.2. Device Type

The device type identifier of electronic locking devices is shown below.

http://www.pucc.jp/2007/09/Device/Echonet/ElectricLock

## 9.3. State Variables

A list of the state variables for electronic locking devices is given below.

**Table 9.3-1: State variables for electronic locking devices**

| | State Variable Name | Description | Data Type | Event Generation (Yes/No) |
|---|---|---|---|---|
| 1 | OperationStatus | Operation status (See also 6.1.1) | string | Yes |
| 2 | InstallationLocation | Installation location (See also 6.1.2) | hexBinary | Yes |
| 3 | SpecVersionInfoCode | Specification version information (See also 6.1.3) | string | No |
| 4 | NodeIdCode | Node identification code (See also 6.1.4) (lower-layer communication software ID field) | string | No |
| 5 | NodeIdCode | Node identification code (See also 6.1.4) (individual number field) | string | No |
| 6 | ManufacturerErrorCode | Manufacturer error code (See also 6.1.5) | string | No |
| 7 | PowerLimit | Power limit (See also 6.1.6) | integer | No |
| 8 | FaultStatus | Fault status (See also 6.1.7) | string | Yes |
| 9 | FaultContent | Fault content (See also 6.1.8) | hexBinary | No |
| 10 | MakerCode | Manufacturer code (See also 6.1.9) | string | No |
| 11 | PlaceOfBuisinessCode | Place-of-business code (See also 6.1.10) | string | No |
| 12 | EnergySavingStatus | Energy saving status setting (See also 6.1.11) | string | No |
| 13 | PresentTime | Present time setting (See also 6.1.12) | time | No |
| 14 | PresentDate | Present date setting (See also 6.1.13) | date | No |
| 15 | CumulatedRunTimeValue | Cumulative run-time (See also 6.1.14) | hexBinary | No |
| 16 | Lockup1Status | Lockup status1 | string | Yes |
| 17 | Lockup2Status | Lockup status2 | string | No |
| 18 | DoorGuardLockupStatus | Door guard lockup status | string | No |
| 19 | DoorOpenCloseStatus | Door open/close status | string | No |
| 20 | PresenceStatus | Presence/absence status | string | No |
| 21 | AlarmStatus | Alarm status | string | Yes |
| 22 | AutoLockModeStatus | Automatic lock mode status | string | No |

The details of each state variable are shown below.

※ See 6.1 for the details of the state variables common to devices.

### 9.3.1. Lockup Status 1 (Lockup1Status)

Table9.3.1-1 show the setting values for the "Lockup status 1(Lockup1Status)."

**Table 9.3.1-1: Setting values for the "Lockup status1(Lockup1Status)"**

| | Value | Meaning | Relationship with ECHONET Specification Values |
|---|---|---|---|
| 1 | Locked | locked | 0x41(locked) |
| 2 | UnLocked | unlocked | 0x42(unlocked) |

### 9.3.2. Lockup Status 2(Lockup2Status)

Table9.3.2-1 shows the setting values for the "Lockup status 2 (Lockup2Status)."

**Table 9.3.2-1: Setting values for the "Lockup status2(Lockup2Status)"**

| | Value | Meaning | Relationship with ECHONET Specification Values |
|---|---|---|---|
| 1 | Locked | locked | 0x41(locked) |
| 2 | UnLocked | unlocked | 0x42(unlocked) |

### 9.3.3. Door guard lockup status (DoorGuardLockupStatus)

Table9.3.3-1 shows the setting values for the "Door Guard lockup Status (DoorGuardLockupStatus)."

**Table 9.3.3-1: Setting values for the "door guard lockup status (DoorGuardLockupStatus)"**

| | Value | Meaning | Relationship with ECHONET Specification Values |
|---|---|---|---|
| 1 | Locked | locked | 0x41(locked) |
| 2 | UnLocked | unlocked | 0x42(unlocked) |

### 9.3.4. Door open/close status (DoorOpenCloseStatus)

Table9.3.4-1 shows the setting values for the "Door open/close status (DoorOpenCloseStatus)."

**Table 9.3.4-1: Setting values for the "Door open/close status (DoorOpenCloseStatus)"**

| | Value | Meaning | Relationship with ECHONET Specification Values |
|---|---|---|---|
| 1 | Open | open | 0x41(open) |
| 2 | Close | close | 0x42(close) |

### 9.3.5. Presence/Absence Status (PresenceStatus)

Table9.3.5-1 shows the setting values for the "Presence/absence status (PresenceStatus)."

**Table 9.3.5-1: Setting values for the "Presence/absence status (PresenceStatus)"**

| | Value | Meaning | Relationship with ECHONET Specification Values |
|---|---|---|---|
| 1 | Presence | presence | 0x41(presence) |
| 2 | Absence | absence | 0x42(absence) |

### 9.3.6. Alarm Status (AlarmStatus)

Table9.3.6-1 shows the setting values for the "Alarm status (AlarmStatus)."

**Table 9.3.6-1: Setting values for the "Alarm status (AlarmStatus)"**

| | Value | Meaning | Relationship with ECHONET Specification Values |
|---|---|---|---|
| 1 | Normal | normal operation state (no alarm) | 0x41(Normal operation state (no alarm)) |
| 2 | Picking | picking | 0x42(picking) |
| 3 | LeaveDoorOpen | door open | 0x43(door open) |
| 4 | ManualOpen | manually unlocked | 0x44(manually unlocked) |
| 5 | Tamper | tamper | 0x45(tamper) |

### 9.3.7. Automatic Lock Mode Status (AutoLockModeStatus)

Table9.3.7-1 shows the setting values for the “Automatic lock mode status (AutoLockModeStatus).”

**Table 9.3.7-1: Setting values for the Automatic lock mode status (AutoLockModeStatus)”**

| | Value | Meaning | Relationship with ECHONET Specification Values |
|---|---|---|---|
| 1 | ON | ON | 0x41(ON) |
| 2 | OFF | OFF | 0x42(OFF) |

## 9.4. Services

Te services of electronic locking devices are shown below.

**Table 9.4-1: Services offered by electronic locking devices (1/2)**

| | Service Name | Description |
|---|---|---|
| 1 | GetOperationStatus | Obtains the operation status. (See also 6.2.1) |
| 2 | SetOperationStatus | Sets the operation status. (See also 6.2.2) |
| 3 | GetInstallationLocation | Obtains the installation location. (See also 6.2.3) |
| 4 | SetInstallationLocation | Sets the installation location. (See also 6.2.4) |
| 5 | GetSpecVersionInfoCode | Obtains the specification version information.(See also 6.2.5) |
| 6 | GetLowerNodeIdCode | Obtains the node identification code. (See also 6.2.6) (lower-layer communication software ID field) |
| 7 | GetNodeIdCode | Obtains the node identification code. (See also 6.2.7) (individual number field) |
| 8 | GetManufacturerErrorCode | Obtains a manufacturer error code. (See also 6.2.8) |
| 9 | ReadPowerLimit | Obtains the power limit. (See also 6.2.9) |
| 10 | WritePowerLimit | Sets the power limit. (See also 6.2.10) |
| 11 | GetFaultStatus | Obtains the fault status. (See also 6.2.11) |
| 12 | GetFaultContent | Obtains the fault content. (See also 6.2.12) |
| 13 | GetMakerCode | Obtains the manufacturer code. (See also 6.2.13) |
| 14 | GetPlaceOfBuisinessCode | Obtains the place-of-business code. (See also 6.2.14) |
| 15 | GetEnergySavingStatus | Obtains the energy saving status. (See also 6.2.15) |
| 16 | SetEnergySavingStatus | Sets the energy saving status. (See also 6.2.16) |
| 17 | GetPresentTime | Obtains the present time. (See also 6.2.17) |
| 18 | SetPresentTime | Sets the present time. (See also 6.2.18) |
| 19 | GetPresentDate | Obtains the present date. (See also 6.2.19) |
| 20 | SetPresentDate | Sets the present date. (See also 6.2.20) |
| 21 | GetCumulatedRunTimeValue | Obtains the cumulative run-time. (See also 6.2.21) |

**Table 9.4-1: Services offered by electronic locking devices (2/2)**

| | Service Name | Description |
|---|---|---|
| 22 | GetLockup1Status | Obtains the Lockup status1 |
| 23 | SetLockup1Status | Sets the Lockup status1 |
| 24 | GetLockup2Status | Obtains the Lockup status2 |
| 25 | SetLockup2Status | Sets the Lockup status2 |
| 26 | GetDoorGuardLockupStatus | Obtains the Door Guard Lockup Status |
| 27 | GetDoorOpenCloseStatus | Obtains the Door open/close status |
| 28 | GetPresenceStatus | Obtains the Presence/absence status |
| 29 | GetAlarmStatus | Obtains the Alarm status |
| 30 | GetAutoLockModeStatus | Obtains the Automatic lock mode |
| 31 | SetAutoLockModeStatus | Sets the Automatic lock mode |
| 32 | GetIcon | Obtains the icon |

The details of each service are shown below.

※ See 6.2 for the details of the services common to devices.

### 9.4.1. GetLockup1Status

(1)Description

Obtains the Lockup status1

(2) Service type identifier

http://www.pucc.jp/2007/09/Device/Echonet/ElectricLock/Service/GetLockup1Status

(3) Input parameter

None

(4) Output parameter

**Table 9.4.1-1: Output parameter of the GetLockup1Status service**

| | Parameter | Related State Variable | Remarks |
|---|---|---|---|
| 1 | CurrentLockup1Status | Lockup1Status | See also 9.3.1 |

### 9.4.2. SetLockup1Status

(1)Description

Sets the Lockup status1

(2) Service type identifier

http://www.pucc.jp/2007/09/Device/Echonet/ElectricLock/Service/SetLockup1Status

(3) Input parameter

**Table 9.4.2-1: Input parameter of the SetLockup1Status service**

| | Parameter | Related State Variable | Remarks |
|---|---|---|---|
| 1 | NewLockup1Status | Lockup1Status | See also 9.3.1 |

(4) Output parameter

None

### 9.4.3. GetLockup2Status

(1)Description

Obtains the Lockup status2

(2) Service type identifier

http://www.pucc.jp/2007/09/Device/Echonet/ElectricLock/Service/GetLockup2Status

(3) Input parameter

None

(4) Output parameter

**Table 9.4.3-1: Output parameter of the GetLockup2Status service**

| | Parameter | Related State Variable | Remarks |
|---|---|---|---|
| 1 | CurrentLockup2Status | Lockup2Status | See also 9.3.2 |

### 9.4.4. SetLockup2Status

(1)Description

Sets the Lockup status2

(2) Service type identifier

http://www.pucc.jp/2007/09/Device/Echonet/ElectricLock/Service/SetLockup2Status

(3) Input parameter

**Table 9.4.4-1: Input parameter of the SetLockup1Status service**

| | Parameter | Related State Variable | Remarks |
|---|---|---|---|
| 1 | NewLockup2Status | Lockup2Status | See also 9.3.2 |

(4) Output parameter

None

### 9.4.5. GetDoorGuardLockupStatus

(1)Description

Obtains the Door Guard Lockup Status

(2) Service type identifier

http://www.pucc.jp/2007/09/Device/Echonet/ElectricLock/Service/GetDoorGuardLockupStatus

(3) Input parameter

None

(4) Output parameter

**Table 9.4.5-1: Output parameter of the GetDoorGuardLockupStatus service**

| | Parameter | Related State Variable | Remarks |
|---|---|---|---|
| 1 | CurrentDoorGuardLockupStatus | DoorGuardLockupStatus | See also 9.3.3 |

### 9.4.6. GetDoorOpenCloseStatus

(1)Description

Obtains the Door open/close status

(2) Service type identifier

http://www.pucc.jp/2007/09/Device/Echonet/ElectricLock/Service/GetDoorOpenCloseStatus

(3) Input parameter

None

(4) Output parameter

**Table 9.4.6-1: Output parameter of the GetDoorOpenCloseStatus service**

| | Parameter | Related State Variable | Remarks |
|---|---|---|---|
| 1 | NewDoorOpenCloseStatus | DoorOpenCloseStatus | See also 9.3.4 |

### 9.4.7. GetPresenceStatus

(1)Description

Obtains the Presence/absence status

(2) Service type identifier

http://www.pucc.jp/2007/09/Device/Echonet/ElectricLock/Service/GetPresenceStatus

(3) Input parameter

None

(4) Output parameter

**Table 9.4.7-1: Output parameter of the GetPresenceStatus service**

| | Parameter | Related State Variable | Remarks |
|---|---|---|---|
| 1 | CurrentPresenceStatus | PresenceStatus | See also 9.3.5 |

### 9.4.8. GetAlarmStatus

(1)Description

Obtains the Alarm status

(2) Service type identifier

http://www.pucc.jp/2007/09/Device/Echonet/ElectricLock/Service/GetAlarmStatus

(3) Input parameter

None

(4) Output parameter

**Table 9.4.8-1: Output parameter of the GetAlarmStatus service**

| | Parameter | Related State Variable | Remarks |
|---|---|---|---|
| 1 | CurrentAlarmStatus | AlarmStatus | See also 9.3.6 |

### 9.4.9. GetAutoLockModeStatus

(1)Description

Obtains the Automatic lock mode status

(2) Service type identifier

http://www.pucc.jp/2007/09/Device/Echonet/ElectricLock/Service/GetAutoLockModeStatus

(3) Input parameter

None

(4) Output parameter

**Table 9.4.9-1: Output parameter of the GetAutoLockModeStatus service**

| | Parameter | Related State Variable | Remarks |
|---|---|---|---|
| 1 | CurrentAutoLockModeStatus | AutoLockModeStatus | See also 9.3.7 |

### 9.4.10. SetAutoLockModeStatus

(1)Description

Sets the Automatic lock mode status

(2) Service type identifier

http://www.pucc.jp/2007/09/Device/Echonet/ElectricLock/Service/SetAutoLockModeStatus

(3) Input parameter

**Table 9.4.10-1: Input parameter of the SetAutoLockModeStatus service**

| | Parameter | Related State Variable | Remarks |
|---|---|---|---|
| 1 | NewAutoLockModeStatus | AutoLockModeStatus | See also 9.3.7 |

(4) Output parameter

None

### 9.4.11. GetIcon

(1)Description

Obtains the icon

(2) Service type identifier

http://www.pucc.jp/2007/09/Device/Echonet/ElectricLock/Service/GetIcon

(3) Input parameter

**Table 9.4.11-1: Input parameter of the GetIcon service**

| | Parameter | Related State Variable | Data Type | Remarks |
|---|---|---|---|---|
| 1 | url | - | string | Sets the URL of an icon image |

(4) Output parameter

**Table 9.4.11-2: Output parameter of the GetIcon service**

| | Parameter | Related State Variable | Data Type | Remarks |
|---|---|---|---|---|
| 1 | mimeType | - | string | Sets the MIME type of an icon image |
| 2 | base64Data | - | base64Binary | Sets the data of the BASE64-encoded image of an icon |

## 9.5. Metadata

### 9.5.1. Device Metadata

The metadata template of electronic locking devices is shown below.

*Italic letters in red*: differ by the entity of each electronic locking device

```
<?xml version="1.0"?>
<Device    type="http://www.pucc.jp/2007/09/Device/Echonet/ElectricLock"
              id="global unique ID for this device"    name="short user-friendly title">
  <Specification>
    <URLBase>base URL for all relative URLs</URLBase>
    <Manufacturer>manufacturer name</Manufacturer>
    <ManufacturerURL>URL to manufacturer site</ManufacturerURL>
    <ManufactureDate>date of manufacture</ManufactureDate>
    <ModelDescription>long user-friendly title</ModelDescription>
    <ModelName>model name</ModelName>
    <ModelNumber>model number</ModelNumber>
    <ModelURL>URL to model site</ModelURL>
    <SerialNumber>manufacturer's serial number</SerialNumber>
    <UDN>uuid:UUID</UDN>
    <UPC>Universal Product Code</UPC>
    <IconList>
      <Icon>
        <Mimetype>image/format</Mimetype>
        <Width>horizontal pixels</width>
        <Height>vertical pixels</height>
        <Depth>color depth</depth>
        <Url>URL to icon</Url>
      </icon>
      XML to declare other icons, if any, go here
    </IconList>
  </Specification>
  <StateVariableList>
          :
      (Insert the metadata definition of the state variables common to devices shown in 6.3.1.)
          :
    <StateVariable    name="Lockup1Status"    datatype="string"    sendEvents="yes">
      <AllowedValueList>
        <AllowedValue>Locked</AllowedValue>
        <AllowedValue>UnLocked</AllowedValue>
      </AllowedValueList>
    </StateVariable>
    <StateVariable    name="Lockup2Status"    datatype="string"    sendEvents="no">
```

```
      <AllowedValueList>
        <AllowedValue>Locked</AllowedValue>
        <AllowedValue>UnLocked</AllowedValue>
      </AllowedValueList>
    </StateVariable>
    <StateVariable  name="DoorGuardLockupStatus"  datatype="string"  sendEvents="no">
      <AllowedValueList>
        <AllowedValue>Locked</AllowedValue>
        <AllowedValue>UnLocked</AllowedValue>
      </AllowedValueList>
    </StateVariable>
    <StateVariable  name="DoorOpenCloseStatus"  datatype="string"  sendEvents="no">
      <AllowedValueList>
        <AllowedValue>Open</AllowedValue>
        <AllowedValue>Close</AllowedValue>
      </AllowedValueList>
    </StateVariable>
    <StateVariable  name="PresenceStatus"  datatype="string"  sendEvents="no">
      <AllowedValueList>
        <AllowedValue>Presence</AllowedValue>
        <AllowedValue>Absence</AllowedValue>
      </AllowedValueList>
    </StateVariable>
    <StateVariable  name="AlarmStatus"  datatype="string"  sendEvents="yes">
      <AllowedValueList>
        <AllowedValue>Normal</AllowedValue>
        <AllowedValue>Picking</AllowedValue>
        <AllowedValue>LeaveDoorOpen</AllowedValue>
        <AllowedValue>ManualOpen</AllowedValue>
        <AllowedValue>Tamper</AllowedValue>
      </AllowedValueList>
    </StateVariable>
    <StateVariable  name="AutoLockModeStatus"  datatype="string"  sendEvents="no">
      <AllowedValueList>
        <AllowedValue>ON</AllowedValue>
        <AllowedValue>OFF</AllowedValue>
      </AllowedValueList>
    </StateVariable>
  </StateVariableList>
  <ServiceList>
        :
    (Insert the metadata definition of the services common to devices shown in 6.3.2)
        :
    <Service  name="GetLockup1Status"
      type="http://www.pucc.jp/2007/09/Device/Echonet/ElectricLock/Service/GetLockup1Status"/>
    <Service  name="SetLockup1Status"
      type="http://www.pucc.jp/2007/09/Device/Echonet/ElectricLock/Service/SetLockup1Status"/>
```

```
    <Service   name="GetLockup2Status"
        type="http://www.pucc.jp/2007/09/Device/Echonet/ElectricLock/Service/GetLockup2Status"/>
    <Service   name="SetLockup2Status"
        type="http://www.pucc.jp/2007/09/Device/Echonet/ElectricLock/Service/SetLockup2Status"/>
    <Service   name="GetDoorGuardLockupStatus"
        type="http://www.pucc.jp/2007/09/Device/Echonet/ElectricLock/Service/GetDoorGuardLockup
Status"/>
    <Service   name="GetDoorOpenCloseStatus"
        type="http://www.pucc.jp/2007/09/Device/Echonet/ElectricLock/Service/GetDoorOpenCloseStatus"/>
    <Service   name="GetPresenceStatus"
        type="http://www.pucc.jp/2007/09/Device/Echonet/ElectricLock/Service/GetPresenceStatus"/>
    <Service   name="GetAlarmStatus"
        type="http://www.pucc.jp/2007/09/Device/Echonet/ElectricLock/Service/GetAlarmStatus"/>
    <Service   name="GetAutoLockModeStatus"
        type="http://www.pucc.jp/2007/09/Device/Echonet/ElectricLock/Service/GetAutoLockModeStatus"/>
    <Service   name="SetAutoLockModeStatus"
        type="http://www.pucc.jp/2007/09/Device/Echonet/ElectricLock/Service/SetAutoLockModeStatus"/>
    <Service   name="GetIcon"
        type="http://www.pucc.jp/2007/09/Device/Echonet/ElectricLock/Service/GetIcon"/>
  </ServiceList>
  <PrimitiveDeviceList/>
</Device>
```

### 9.5.2. Service Metadata

The metadata templates of the services that electronic locking devices have are shown below.

※ See 6.3.2 for the metadata of the services common to devices.

(1)GetLockup1Status service metadata

```
<?xml version="1.0" ?>
<Service
      type="http://www.pucc.jp/2007/09/Device/Echonet/ElectricLock/Service/GetLockup1Status"
      name="GetLockup1Status">
   <InputParameterList/>
   <OutputParameterList>
      <Parameter name="CurrentLockup1Status"    relatedStateVariable="Lockup1Status"/>
   </OutputParameterList>
</Service>
```

(2)SetLockup1Status service metadata

```
<?xml version="1.0" ?>
<Service
      type="http://www.pucc.jp/2007/09/Device/Echonet/ElectricLock/Service/SetLockup1Status"
      name="SetLockup1Status">
   <InputParameterList>
      <Parameter name="NewLockup1Status"    relatedStateVariable="Lockup1Status"/>
   </InputParameterList>
   <OutputParameterList/>
</Service>
```

(3)GetLockup2Status service metadata

```
<?xml version="1.0" ?>
<Service
      type="http://www.pucc.jp/2007/09/Device/Echonet/ElectricLock/Service/GetLockup2Status"
      name="GetLockup2Status">
   <InputParameterList/>
   <OutputParameterList>
      <Parameter name="CurrentLockup2Status"    relatedStateVariable="Lockup2Status"/>
   </OutputParameterList>
</Service>
```

(4)SetLockup2Status service metadata

```
<?xml version="1.0" ?>
<Service
      type="http://www.pucc.jp/2007/09/Device/Echonet/ElectricLock/Service/SetLockup2Status"
      name="SetLockup2Status">
   <InputParameterList>
      <Parameter name="NewLockup2Status"    relatedStateVariable="Lockup2Status"/>
   </InputParameterList>
   <OutputParameterList/>
</Service>
```

(5)GetDoorGuardLockupStatus service metadata

```
<?xml version="1.0" ?>
<Service
      type="http://www.pucc.jp/2007/09/Device/Echonet/ElectricLock/Service/GetDoorGuardLockupStatus"
      name="GetDoorGuardLockupStatus">
   <InputParameterList/>
   <OutputParameterList>
      <Parameter name="CurrentDoorGuardLockupStatus"    relatedStateVariable="DoorGuardLockupStatus"/>
   </OutputParameterList>
</Service>
```

(6)GetDoorOpenCloseStatus service metadata

```
<?xml version="1.0" ?>
<Service
      type="http://www.pucc.jp/2007/09/Device/Echonet/ElectricLock/Service/GetDoorOpenCloseStatus"
      name="GetDoorOpenCloseStatus">
   <InputParameterList/>
   <OutputParameterList>
      <Parameter name="CurrentDoorOpenCloseStatus"    relatedStateVariable="DoorOpenCloseStatus"/>
   </OutputParameterList>
</Service>
```

(7)GetPresenceStatus service metadata

```
<?xml version="1.0" ?>
<Service
      type="http://www.pucc.jp/2007/09/Device/Echonet/ElectricLock/Service/GetPresenceStatus"
      name="GetPresenceStatus">
   <InputParameterList/>
   <OutputParameterList>
      <Parameter name="CurrentPresenceStatus"    relatedStateVariable="PresenceStatus"/>
   </OutputParameterList>
</Service>
```

(8)GetAlarmStatus service metadata

```
<?xml version="1.0" ?>
<Service
      type="http://www.pucc.jp/2007/09/Device/Echonet/ElectricLock/Service/GetAlarmStatus"
      name="GetAlarmStatus">
   <InputParameterList/>
   <OutputParameterList>
      <Parameter name="CurrentAlarmStatus"    relatedStateVariable="AlarmStatus"/>
   </OutputParameterList>
</Service>
```

(9)GetAutoLockModeStatus service metadata

```
<?xml version="1.0" ?>
<Service
      type="http://www.pucc.jp/2007/09/Device/Echonet/ElectricLock/Service/GetAutoLockModeStatus"
      name="GetAutoLockModeStatus">
   <InputParameterList/>
   <OutputParameterList>
      <Parameter name="CurrentAutoLockModeStatus"    relatedStateVariable="AutoLockModeStatus"/>
   </OutputParameterList>
</Service>
```

(10)SetAutoLockModeStatus service metadata

```
<?xml version="1.0" ?>
<Service
      type="http://www.pucc.jp/2007/09/Device/Echonet/ElectricLock/Service/SetAutoLockModeStatus"
      name="SetAutoLockModeStatus">
   <InputParameterList>
      <Parameter name="NewAutoLockModeStatus"    relatedStateVariable="AutoLockModeStatus"/>
   </InputParameterList>
   <OutputParameterList/>
</Service>
```

(11)GetIcon service metadata

```
<?xml version="1.0" ?>
<Service type="http://www.pucc.jp/2007/09/Device/Echonet/ElectricLock/Service/GetIcon" name="GetIcon">
   <InputParameterList>
      <Parameter name="url" datatype="string"/>
   </InputParameterList>
   <OutputParameterList>
      <Parameter name="mimeType" datatype="string"/>
      <Parameter name="base64Data" datatype="base64Binary"/>
   </OutputParameterList>
</Service>
```

# 10. Open/Close Sensor Devices

This chapter defines the PUCC metadata specification of open/close sensor devices.

## 10.1. Device Model

Open/close sensor devices adopt the device model shown below.

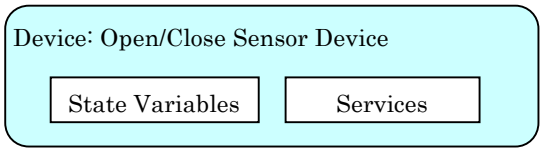


**Figure 10.1-1 Open/close sensor device model**

## 10.2. Device Type

The device type identifier of open/close sensor devices is shown below.

http://www.pucc.jp/2007/09/Device/Echonet/OpenCloseSensor

### 10.3. State Variables

The state variables of open/close sensor devices are shown below.

**Table 10.3-2: State variables of open/close sensor devices**

| | State Variable Name | Description | Data Type | Event Generation (Yes/No) |
|---|---|---|---|---|
| 1 | OperationStatus | Operation status (6.1.1) | string | Yes |
| 2 | InstallationLocation | Installation location (6.1.2) | hexBinary | Yes |
| 3 | SpecVersionInfoCode | Specification version information (6.1.3) | string | No |
| 4 | LowerNodeIdCode | Node identification code (6.1.4) (lower-layer communication software ID field) | string | No |
| 5 | NodeIdCode | Node identification code (6.1.4) (individual number field) | string | No |
| 6 | ManufacturerErrorCode | Manufacturer error code (6.1.5) | string | No |
| 7 | PowerLimit | Power limit (6.1.6) | integer | No |
| 8 | FaultStatus | Fault status (6.1.7) | string | Yes |
| 9 | FaultContent | Fault content (6.1.8) | hexBinary | No |
| 10 | MakerCode | Manufacturer code (6.1.9) | string | No |
| 11 | PlaceOfBuisinessCode | Place-of-business code (6.1.10) | string | No |
| 12 | EnergySavingStatus | Energy saving status (6.1.11) | string | No |
| 13 | PresentTime | Present time (6.1.12) | time | No |
| 14 | PresentDate | Present date (6.1.13) | date | No |
| 15 | CumulatedRunTimeValue | Cumulative run-time (6.1.14) | hexBinary | No |
| 16 | OpeningLevel | Opening level detection status 1 | string | No |
| 17 | DetectionLevel | Opening level threshold value level | string | No |
| 18 | OpeningStatus | Opening level detection statsu 2 | string | Yes |

The details of each state variable are shown below.

※ See 6.1 for the details of the state variables common to devices.

### 10.3.1. Opening Level Dectection Status 1(OpeningLevel)

Table10.3.1-1 shows the setting values for the “Opening leveldetection status1 (OpeningLevel).”

**Table 10.3.1-1: Setting values for the “Opening level detection status 1(OpeningLevel)”**

| | Value | Meaning | Relationship with ECHONET Specification Values |
|---|---|---|---|
| 1 | Found | Closing detection Yes | 0x30(Closing detection Yes) |
| 2 | 1 | Opening level Level1 | 0x31(Opening level Level1) |
| 3 | 2 | Opening level Level2 | 0x32(Opening level Level2) |
| 4 | 3 | Opening level Level3 | 0x33(Opening level Level3) |
| 5 | 4 | Opening level Level4 | 0x34(Opening level Level4) |
| 6 | 5 | Opening level Level5 | 0x35(Opening level Level5) |
| 7 | 6 | Opening level Level6 | 0x36(Opening level Level6) |
| 8 | 7 | Opening level Level7 | 0x37(Opening level Level7) |
| 9 | 8 | Opening level Level8 | 0x38(Opening level Level8) |
| 10 | Unknown | Opening detection Yes/Opening level Unknown | 0x39(Opening detection Yes/Opening level Unknown) |

### 10.3.2. Opening Level Threshold Value Level (DetectionLevel)

Table10.3.2-1 shows the setting values for the “Opening level threshold value levels (DetectionLevel).”

**Table 10.3.2-1: Setting values for the “opening level threshold value level (DetectionLevel)”**

| | Value | Meaning | Relationship with ECHONET Specification Values |
|---|---|---|---|
| 1 | 1 | 1 | 0x31(1) |
| 2 | 2 | 2 | 0x32(2) |
| 3 | 3 | 3 | 0x33(3) |
| 4 | 4 | 4 | 0x34(4) |
| 5 | 5 | 5 | 0x35(5) |
| 6 | 6 | 6 | 0x36(6) |
| 7 | 7 | 7 | 0x37(7) |
| 8 | 8 | 8 | 0x38(8) |

### 10.3.3. Opening Level Detection Status 2 (OpeningStatus)

Table10.3.3-1 shows the setting values for the "Opening level detection status 2 (OpeningStatus)."

**Table 10.3.3-1: Setting values for the Opening level detection status2 (OpeningStatus)"**

| | Value | Meaning | Relationship with ECHONET Specification Values |
|---|---|---|---|
| 1 | Found | Opening detection Yes | 0x41(Opening detection Yes) |
| 2 | NotFound | Closing detection Yes | 0x42(Closing detection Yes) |

## 10.4. Services

The services of open/close sensor devices are shown below.

**Table 10.4-1: Services offered by open/close sensor devices (1/2)**

| | Service Name | Description | |
|---|---|---|---|
| 1 | GetOperationStatus | Obtains the operation status | (See also 6.2.1) |
| 2 | SetOperationStatus | Sets the operation status | (See also 6.2.2) |
| 3 | GetInstallationLocation | Obtains the installation location | (See also 6.2.3) |
| 4 | SetInstallationLocation | Sets the installation location | (See also 6.2.4) |
| 5 | GetSpecVersionInfoCode | Obtains the specification version information | (See also 6.2.5) |
| 6 | GetLowerNodeIdCode | Obtains the node identification code (lower-layer communication software ID field) | (See also 6.2.6) |
| 7 | GetNodeIdCode | Obtains the node identification code (individual number field) | (See also 6.2.7) |
| 8 | GetManufacturerErrorCode | Obtains a manufacturer error code | (See also 6.2.8) |
| 9 | ReadPowerLimit | Obtains the power limit | (See also 6.2.9) |
| 10 | WritePowerLimit | Sets the power limit | (See also 6.2.10) |
| 11 | GetFaultStatus | Obtains the fault status | (See also 6.2.11) |
| 12 | GetFaultContent | Obtains the fault content | (See also 6.2.12) |
| 13 | GetMakerCode | Obtains the manufacturer code | (See also 6.2.13) |
| 14 | GetPlaceOfBuisinessCode | Obtains the place-of-business code | (See also 6.2.14) |
| 15 | GetEnergySavingStatus | Obtains the energy saving status | (See also 6.2.15) |
| 16 | SetEnergySavingStatus | Sets the energy saving status | (See also 6.2.16) |
| 17 | GetPresentTime | Obtains the present time | (See also 6.2.17) |
| 18 | SetPresentTime | Sets the present time | (See also 6.2.18) |
| 19 | GetPresentDate | Obtains the present date | (See also 6.2.19) |
| 20 | SetPresentDate | Sets the present date | (See also 6.2.20) |
| 21 | GetCumulatedRunTimeValue | Obtains the cumulative run-time | (See also 6.2.21) |

**Table 10.4-1: Services offered by open/close sensor devices (2/2)**

| | Service Name | Description |
|---|---|---|
| 22 | GetOpeningLevel | Obtains the opening level detection status1 |
| 23 | SetOpeningLevel | Sets the opening level detection status 1 |
| 24 | GetDetectionLevel | Obtains the opening level threshold value level |
| 25 | SetDetectionLevel | Sets the opening level threshold value level |
| 26 | GetOpeningStatus | Obtains the opening level detection status 2 |
| 27 | GetIcon | Obtains the icon |

The details of each service are shown below.

※ See 6.2 for the details of the services common to devices.

### 10.4.1. GetOpeningLevel

(1)Description

Obtains the opening level detection status 1

(2) Service type identifier

http://www.pucc.jp/2007/09/Device/Echonet/OpenCloseSensor/Service/GetOpeningLevel

(3) Input parameter

None

(4) Output parameter

**Table 10.4.1-1: Output parameter of the GetOpeningLevel service**

| | Parameter | Related State Variable | Remarks |
|---|---|---|---|
| 1 | CurrentOpeningLevel | OpeningLevel | See also 10.3.1 |

### 10.4.2. SetOpeningLevel

(1)Description

Sets the opening level detection status 1

(2) Service type identifier

http://www.pucc.jp/2007/09/Device/Echonet/OpenCloseSensor/Service/SetOpeningLevel

(3) Input parameter

**Table 10.4.2-1: Input parameter of the SetOpeningLevel service**

| | Parameter | Related State Variable | Remarks |
|---|---|---|---|
| 1 | NewOpeningLevel | OpeningLevel | See also 10.3.1 |

(4) Output parameter

None

### 10.4.3. GetDetectionLevel

(1)Description

Obtains the opening level threshold value level

(2) Service type identifier

http://www.pucc.jp/2007/09/Device/Echonet/OpenCloseSensor/Service/GetDetectionLevel

(3) Input parameter

None

(4) Output parameter

**Table 10.4.3-1: Output parameter of the GetDetectionLevel service**

| | Parameter | Related State Variable | Remarks |
|---|---|---|---|
| 1 | CurrentDetectionLevel | DetectionLevel | See also 10.3.2 |

### 10.4.4. SetDetectionLevel

(1)Description

Sets the opening level threshold value level

(2) Service type identifier

http://www.pucc.jp/2007/09/Device/Echonet/OpenCloseSensor/Service/SetDetectionLevel

(3) Input parameter

**Table 10.4.4-1: Input parameter of the SetDetectionLevel service**

| | Parameter | Related State Variable | Remarks |
|---|---|---|---|
| 1 | NewDetectionLevel | DetectionLevel | See also 10.3.2 |

(4) Output parameter

None

### 10.4.5. GetOpeningStatus

(1)Description

Obtains the opening level detection status 2

(2) Service type identifier

http://www.pucc.jp/2007/09/Device/Echonet/OpenCloseSensor/Service/GetOpeningStatus

(3) Input parameter

None

(4) Output parameter

**Table 10.4.5-1: Output parameter of the GetOpeningStatus service**

| | Parameter | Related State Variable | Remarks |
|---|---|---|---|
| 1 | CurrentOpeningStatus | OpeningStatus | See also 10.3.3 |

### 10.4.6. GetIcon

(1)Description

Obtains the icon

(2) Service type identifier

http://www.pucc.jp/2007/09/Device/Echonet/OpenCloseSensor/Service/GetIcon

(3) Input parameter

**Table 10.4.6-1: Input parameter of the GetIcon service**

| | Parameter | Related State Variable | Data Type | Remarks |
|---|---|---|---|---|
| 1 | url | - | string | Sets the URL of an icon image |

(4) Output parameter

**Table 10.4.6-2: Output parameter of the GetIcon service**

| | Parameter | Related State Variable | Data Type | Remarks |
|---|---|---|---|---|
| 1 | mimeType | - | string | Sets the MIME type of an icon image |
| 2 | base64Data | - | base64Binary | Sets the data of the BASE64-encoded image of an icon |

## 10.5. Metadata

### 10.5.1. Device Metadata

The metadata template of open/close sensor devices is shown below.

*Italic letters in red*: differ by the entity of open/close sensor device

```
<?xml version="1.0"?>
<Device    type="http://www.pucc.jp/2007/09/Device/Echonet/OpenCloseSensor"
              id="global unique ID for this device"    name="short user-friendly title">
  <Specification>
    <URLBase>base URL for all relative URLs</URLBase>
    <Manufacturer>manufacturer name</Manufacturer>
    <ManufacturerURL>URL to manufacturer site</ManufacturerURL>
    <ManufactureDate>date of manufacture</ManufactureDate>
    <ModelDescription>long user-friendly title</ModelDescription>
    <ModelName>model name</ModelName>
    <ModelNumber>model number</ModelNumber>
    <ModelURL>URL to model site</ModelURL>
    <SerialNumber>manufacturer's serial number</SerialNumber>
    <UDN>uuid:UUID</UDN>
    <UPC>Universal Product Code</UPC>
    <IconList>
      <Icon>
        <Mimetype>image/format</Mimetype>
        <Width>horizontal pixels</width>
        <Height>vertical pixels</height>
        <Depth>color depth</depth>
        <Url>URL to icon</Url>
      </icon>
      XML to declare other icons, if any, go here
    </IconList>
  </Specification>
  <StateVariableList>
          :
      (Insert the metadata definition of the state variables common to devices shown in 6.3.1)
          :
    <StateVariable    name="OpeningLevel"    datatype="string"    sendEvents="no">
      <AllowedValueList>
        <AllowedValue>Found</AllowedValue>
        <AllowedValue>1</AllowedValue>
        <AllowedValue>2</AllowedValue>
        <AllowedValue>3</AllowedValue>
```

```
          <AllowedValue>4</AllowedValue>
          <AllowedValue>5</AllowedValue>
          <AllowedValue>6</AllowedValue>
          <AllowedValue>7</AllowedValue>
          <AllowedValue>8</AllowedValue>
          <AllowedValue>Unknown</AllowedValue>
        </AllowedValueList>
      </StateVariable>
      <StateVariable  name="DetectionLevel"  datatype="string"  sendEvents="no">
        <AllowedValueList>
          <AllowedValue>1</AllowedValue>
          <AllowedValue>2</AllowedValue>
          <AllowedValue>3</AllowedValue>
          <AllowedValue>4</AllowedValue>
          <AllowedValue>5</AllowedValue>
          <AllowedValue>6</AllowedValue>
          <AllowedValue>7</AllowedValue>
          <AllowedValue>8</AllowedValue>
        </AllowedValueList>
      </StateVariable>
      <StateVariable  name="OpeningStatus"  datatype="string"  sendEvents="yes">
        <AllowedValueList>
          <AllowedValue>Found</AllowedValue>
          <AllowedValue>NotFound</AllowedValue>
        </AllowedValueList>
      </StateVariable>
    </StateVariableList>
    <ServiceList>
            :
        (Insert the metadata definition of the services common to devices shown in 6.3.2)
            :
      <Service  name="GetOpeningLevel"
          type="http://www.pucc.jp/2007/09/Device/Echonet/OpenCloseSensor/Service/GetOpeningLevel"/>
      <Service  name="SetOpeningLevel"
          type="http://www.pucc.jp/2007/09/Device/Echonet/OpenCloseSensor/Service/SetOpeningLevel"/>
      <Service  name="GetDetectionLevel"
          type="http://www.pucc.jp/2007/09/Device/Echonet/OpenCloseSensor/Service/GetDetectionLevel"/>
      <Service  name="SetDetectionLevel"
          type="http://www.pucc.jp/2007/09/Device/Echonet/OpenCloseSensor/Service/SetDetectionLevel"/>
      <Service  name="GetOpeningStatus"
          type="http://www.pucc.jp/2007/09/Device/Echonet/OpenCloseSensor/Service/GetOpeningStatus"/>
      <Service  name="GetIcon"
          type="http://www.pucc.jp/2007/09/Device/Echonet/OpenCloseSensor/Service/GetIcon"/>
    </ServiceList>
    <PrimitiveDeviceList/>
</Device>
```

### 10.5.2. Service Metadata

The metadata templates for the services that open/close sensor devices have are shown below.

※ See 6.3.2. for the metadata of the services common to devices.

(1)GetOpeningLevel service metadata

```
<?xml version="1.0" ?>
<Service
      type="http://www.pucc.jp/2007/09/Device/Echonet/OpenCloseSensor/Service/GetOpeningLevel"
      name="GetOpeningLevel">
   <InputParameterList/>
   <OutputParameterList>
      <Parameter name="CurrentOpeningLevel" relatedStateVariable="OpeningLevel"/>
   </OutputParameterList>
</Service>
```

(2)SetOpeningLevel service metadata

```
<?xml version="1.0" ?>
<Service
      type="http://www.pucc.jp/2007/09/Device/Echonet/OpenCloseSensor/Service/SetOpeningLevel"
      name="SetOpeningLevel">
   <InputParameterList>
      <Parameter name="NewOpeningLevel" relatedStateVariable="OpeningLevel"/>
   </InputParameterList>
   <OutputParameterList/>
</Service>
```

(3)GetDetectionLevel service metadata

```
<?xml version="1.0" ?>
<Service
      type="http://www.pucc.jp/2007/09/Device/Echonet/OpenCloseSensor/Service/GetDetectionLevel"
      name="GetDetectionLevel">
   <InputParameterList/>
   <OutputParameterList>
      <Parameter name="CurrentOpeningLevel" relatedStateVariable="OpeningLevel"/>
   </OutputParameterList>
</Service>
```

(4)SetDetectionLevel service metadata

```
<?xml version="1.0" ?>
<Service
      type="http://www.pucc.jp/2007/09/Device/Echonet/OpenCloseSensor/Service/SetDetectionLevel"
      name="SetDetectionLevel">
   <InputParameterList>
      <Parameter name="NewDetectionLevel" relatedStateVariable="DetectionLevel"/>
   </InputParameterList>
   <OutputParameterList/>
</Service>
```

(5)GetOpeningStatus service metadata

```
<?xml version="1.0" ?>
<Service
      type="http://www.pucc.jp/2007/09/Device/Echonet/OpenCloseSensor/Service/GetOpeningStatus"
      name="GetOpeningStatus">
   <InputParameterList/>
   <OutputParameterList>
      <Parameter name="CurrentOpeningStatus" relatedStateVariable="OpeningStatus"/>
   </OutputParameterList>
</Service>
```

(6)GetIcon service metadata

```
<?xml version="1.0" ?>
<Service
      type="http://www.pucc.jp/2007/09/Device/Echonet/OpenCloseSensor/Service/GetIcon" name="GetIcon">
   <InputParameterList>
      <Parameter name="url" datatype="string"/>
   </InputParameterList>
   <OutputParameterList>
      <Parameter name="mimeType" datatype="string"/>
      <Parameter name="base64Data" datatype="base64Binary"/>
   </OutputParameterList>
</Service>
```

# 11. Visitor Sensor Devices

This chapter defines the PUCC metadata for visitor sensor devices.

## 11.1. Device Model

Visitor sensor devices adopt the device model shown below.

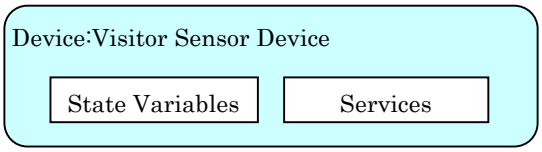


**Figure 11.1-1 Visitor sensor device model**

## 11.2. Device Type

The device type identifier of visitor sensor devices is shown below.

http://www.pucc.jp/2007/09/Device/Echonet/VisitorSensor

## 11.3. State Variables

The state variables of visitor sensor devices are shown below.

**Table 11.3-1: State variables of visitor sensor devices**

| | State Variable Name | Description | Data Type | Event Generation (Yes/No) |
|---|---|---|---|---|
| 1 | OperationStatus | Operation status (6.1.1) | string | Yes |
| 2 | InstallationLocation | Installation location (6.1.2) | hexBinary | Yes |
| 3 | SpecVersionInfoCode | Specification version information (6.1.3) | string | No |
| 4 | LowerNodeIdCode | Node identification code (6.1.4) (lower-layer communication software ID field) | string | No |
| 5 | NodeIdCode | Node identification code (6.1.4) (individual number field) | string | No |
| 6 | ManufacturerErrorCode | Manufacturer error code (6.1.5) | string | No |
| 7 | PowerLimit | Power limit (6.1.6) | integer | No |
| 8 | FaultStatus | Fault status (6.1.7) | string | Yes |
| 9 | FaultContent | Fault content (6.1.8) | hexBinary | No |
| 10 | MakerCode | Manufacturer code (6.1.9) | string | No |
| 11 | PlaceOfBuisinessCode | Place-of-business code (6.1.10) | string | No |
| 12 | EnergySavingStatus | Energy saving status (6.1.11) | string | No |
| 13 | PresentTime | Present time (6.1.12) | time | No |
| 14 | PresentDate | Present date (6.1.13) | date | No |
| 15 | CumulatedRunTimeValue | Cumulative run-time (6.1.14) | hexBinary | No |
| 16 | DetectionLevel | Detection level threshold value level | string | No |
| 17 | VisitorDetectionStatus | Visitor detection status | string | Yes |
| 18 | DetectionHoldSecond | Visitor detection hold time | integer | No |

The details of each state variable are shown below.

※ See 6.1 for the details of the state variables common to devices.

### 11.3.1. Detection threshold value level (DetectionLevel)

Table11.3.1-1 shows the setting values for the “Detection threshold value level (DetectionLevel).”

**Table 11.3.1-1: Setting values for the “Detection threshold value level(DetectionLevel)”**

| | Value | Meaning | Relationship with ECHONET Specification Values |
|---|---|---|---|
| 1 | 1 | 1 | 0x31(1) |
| 2 | 2 | 2 | 0x32(2) |
| 3 | 3 | 3 | 0x33(3) |
| 4 | 4 | 4 | 0x34(4) |
| 5 | 5 | 5 | 0x35(5) |
| 6 | 6 | 6 | 0x36(6) |
| 7 | 7 | 7 | 0x37(7) |
| 8 | 8 | 8 | 0x38(8) |

### 11.3.2. Visitor Detection Status (VisitorDetectionStatus)

Table11.3.2-1 shows the setting values for the “visitor detection status (VisitorDetectionStatus).”

**Table 11.3.2-1: Setting values for the “visitor detection status (VisitorDetectionStatus)”**

| | Value | Meaning | Relationship with ECHONET Specification Values |
|---|---|---|---|
| 1 | Found | Visitor detection Yes | 0x41(visitor detection Yes) |
| 2 | NotFound | Visitor detection No | 0x42(visitor detection No) |

### 11.3.3. Visitor Detection Hold Time (DetectionHoldSecond)

This is an integral value from 0 to 655330 and a multiple of 10.

(This value corresponds to value from 0x0000 to 0xFFFD of the ECHONET specification.)

## 11.4. Services

The services of visitor sensor devices are shown below.

**Table 11.4-1: Services offered by visitor sensor devices (1/2)**

| | Service Name | Description | |
|---|---|---|---|
| 1 | GetOperationStatus | Obtains the operation status | (See also 6.2.1) |
| 2 | SetOperationStatus | Sets the operation status | (See also 6.2.2) |
| 3 | GetInstallationLocation | Obtains the installation location | (See also 6.2.3) |
| 4 | SetInstallationLocation | Sets the installation location | (See also 6.2.4) |
| 5 | GetSpecVersionInfoCode | Obtains the specification version information | (See also 6.2.5) |
| 6 | GetLowerNodeIdCode | Obtains the node identification code (lower-layer communication software ID field) | (See also 6.2.6) |
| 7 | GetNodeIdCode | Obtains the node identification code (individual number field) | (See also 6.2.7) |
| 8 | GetManufacturerErrorCode | Obtains a manufacturer error code | (See also 6.2.8) |
| 9 | ReadPowerLimit | Obtains the power limit | (See also 6.2.9) |
| 10 | WritePowerLimit | Sets the power limit | (See also 6.2.10) |
| 11 | GetFaultStatus | Obtains the fault status | (See also 6.2.11) |
| 12 | GetFaultContent | Obtains the fault content | (See also 6.2.12) |
| 13 | GetMakerCode | Obtains the manufacturer code | (See also 6.2.13) |
| 14 | GetPlaceOfBuisinessCode | Obtains the place-of-business code | (See also 6.2.14) |
| 15 | GetEnergySavingStatus | Obtains the energy saving status | (See also 6.2.15) |
| 16 | SetEnergySavingStatus | Sets the energy saving status | (See also 6.2.16) |
| 17 | GetPresentTime | Obtains the present time | (See also 6.2.17) |
| 18 | SetPresentTime | Sets the present time | (See also 6.2.18) |
| 19 | GetPresentDate | Obtains the present date | (See also 6.2.19) |
| 20 | SetPresentDate | Sets the present date | (See also 6.2.20) |
| 21 | GetCumulatedRunTimeValue | Obtains the cumulative run-time | (See also 6.2.21) |

**Table 11.4-1: Services offered by visitor sensor devices (2/2)**

| | Service Name | Description |
|---|---|---|
| 22 | GetDetectionLevel | Obtains the detection threshold value level |
| 23 | SetDetectionLevel | Sets the detection threshold value level |
| 24 | GetVisitorDetectionStatus | Obtains the visitor detection status |
| 25 | ReadDetectionHoldSecond | Obtains the visitor detection hold time |
| 26 | WriteDetectionHoldSecond | Sets the visitor detection hold time |
| 27 | GetIcon | Obtains the icon |

The details of each service are shown below.

※ See 6.2 for the details of the services common to devices.

### 11.4.1. GetDetectionLevel

(1)Description

Obtains the Detection threshold value level

(2) Service type identifier

http://www.pucc.jp/2007/09/Device/Echonet/VisitorSensor/Service/GetDetectionLevel

(3) Input parameter

None

(4) Output parameter

**Table 11.4.1-1: Output parameter of the GetDetectionLevel service**

| | Parameter | Related State Variable | Remarks |
|---|---|---|---|
| 1 | CurrentDetectionLevel | DetectionLevel | See also 11.3.1 |

### 11.4.2. SetDetectionLevel

(1)Description

Sets the Detection threshold value level

(2) Service type identifier

http://www.pucc.jp/2007/09/Device/Echonet/VisitorSensor/Service/SetDetectionLevel

(3) Input parameter

**Table 11.4.2-1: Input parameter of the SetDetectionLevel service**

| | Parameter | Related State Variable | Remarks |
|---|---|---|---|
| 1 | NewDetectionLevel | DetectionLevel | See also 11.3.1 |

(4) Output parameter

None

### 11.4.3. GetVisitorDetectionStatus

(1)Description

Obtains the Detection threshold value level

(2) Service type identifier

http://www.pucc.jp/2007/09/Device/Echonet/VisitorSensor/Service/GetVisitorDetectionStatus

(3) Input parameter

None

(4) Output parameter

**Table 11.4.3-1: Output parameter of the GetVisitorDetectionStatus service**

| | Parameter | Related State Variable | Remarks |
|---|---|---|---|
| 1 | CurrentVisitorDetectionStatus | VisitorDetectionStatus | See also 11.3.2 |

### 11.4.4. ReadDetectionHoldSecond

(1)Description

Obtains the Visitor detection hold time

(2) Service type identifier

http://www.pucc.jp/2007/09/Device/Echonet/VisitorSensor/Service/ReadDetectionHoldSecond

(3) Input parameter

None

(4) Output parameter

**Table 11.4.4-1: Output parameter of the ReadDetectionHoldSecond service**

| | Parameter | Related State Variable | Remarks |
|---|---|---|---|
| 1 | CurrentDetectionHoldSecond | DetectionHoldSecond | See also 11.3.3 |

### 11.4.5. WriteDetectionHoldSecond

(1)Description

Sets the Visitor detection hold time

(2) Service type identifier

http://www.pucc.jp/2007/09/Device/Echonet/VisitorSensor/Service/WriteDetectionHoldSecond

(3) Input parameter

**Table 11.4.5-1: Input parameter of the WriteDetectionHoldSecond service**

| | Parameter | Related State Variable | Remarks |
|---|---|---|---|
| 1 | NewDetectionHoldSecond | DetectionHoldSecond | See also 11.3.3 |

(4) Output parameter

None

### 11.4.6. GetIcon

(1)Description

Obtains the icon

(2) Service type identifier

http://www.pucc.jp/2007/09/Device/Echonet/VisitorSensor/Service/GetIcon

(3) Input parameter

**Table 11.4.6-1: Input parameter of the GetIcon service**

| | Parameter | Related State Variable | Data Type | Remarks |
|---|---|---|---|---|
| 1 | url | - | string | Sets the URL of an icon image |

(4) Output parameter

**Table 11.4.6-2: Output parameter of the GetIcon service**

| | Parameter | Related State Variable | Data Type | Remarks |
|---|---|---|---|---|
| 1 | mimeType | - | string | Sets the MIME type of an icon image |
| 2 | base64Data | - | base64Binary | Sets the data of the BASE64-encoded image of an icon |

## 11.5. Metadata

### 11.5.1. Device Metadata

The metadata template of visitor sensor devices is shown below.

*Italic letters in red*: differ by the entity of each visitor sensor device

```
<?xml version="1.0"?>
<Device  type="http://www.pucc.jp/2007/09/Device/Echonet/VisitorSensor"
          id="global unique ID for this device"  name="short user-friendly title">
  <Specification>
    <URLBase>base URL for all relative URLs</URLBase>
    <Manufacturer>manufacturer name</Manufacturer>
    <ManufacturerURL>URL to manufacturer site</ManufacturerURL>
    <ManufactureDate>date of manufacture</ManufactureDate>
    <ModelDescription>long user-friendly title</ModelDescription>
    <ModelName>model name</ModelName>
    <ModelNumber>model number</ModelNumber>
    <ModelURL>URL to model site</ModelURL>
    <SerialNumber>manufacturer's serial number</SerialNumber>
    <UDN>uuid:UUID</UDN>
    <UPC>Universal Product Code</UPC>
    <IconList>
      <Icon>
        <Mimetype>image/format</Mimetype>
        <Width>horizontal pixels</width>
        <Height>vertical pixels</height>
        <Depth>color depth</depth>
        <Url>URL to icon</Url>
      </icon>
      XML to declare other icons, if any, go here
    </IconList>
  </Specification>
  <StateVariableList>
        :
    (Insert the metadata definition of the state variables common to devices shown in 6.3.1)
        :
    <StateVariable  name="DetectionLevel"  datatype="string"  sendEvents="no">
      <AllowedValueList>
        <AllowedValue>1</AllowedValue>
        <AllowedValue>2</AllowedValue>
        <AllowedValue>3</AllowedValue>
        <AllowedValue>4</AllowedValue>
```

```
          <AllowedValue>5</AllowedValue>
          <AllowedValue>6</AllowedValue>
          <AllowedValue>7</AllowedValue>
          <AllowedValue>8</AllowedValue>
        </AllowedValueList>
      </StateVariable>
      <StateVariable  name="VisitorDetectionStatus"  datatype="string"  sendEvents="yes">
        <AllowedValueList>
          <AllowedValue>Found</AllowedValue>
          <AllowedValue>NotFound</AllowedValue>
        </AllowedValueList>
      </StateVariable>
      <StateVariable  name="DetectionHoldSecond"  datatype="integer"  sendEvents="no">
        <AllowedValueRange>
          <Minimum>0</Minimum>
          <Maximum>655330</Maximum>
          <Step>10</Step>
        </AllowedValueRange>
      </StateVariable>
    </StateVariableList>
    <ServiceList>
            :
       (Insert the metadata definition of the services common to devices shown in 6.3.2)
            :
      <Service  name="GetDetectionLevel"
          type="http://www.pucc.jp/2007/09/Device/Echonet/VisitorSensor/Service/GetDetectionLevel"/>
      <Service  name="SetDetectionLevel"
          type="http://www.pucc.jp/2007/09/Device/Echonet/VisitorSensor/Service/SetDetectionLevel"/>
      <Service  name="GetVisitorDetectionStatus"
          type="http://www.pucc.jp/2007/09/Device/Echonet/VisitorSensor/Service/GetVisitorDetectionStatus
"/>
      <Service  name="ReadDetectionHoldSecond"
           type="http://www.pucc.jp/2007/09/Device/Echonet/VisitorSensor/Service/ReadDetectionHoldSecond
"/>
      <Service  name="WriteDetectionHoldSecond"
          type="http://www.pucc.jp/2007/09/Device/Echonet/VisitorSensor/Service/WriteDetectionHoldSecond
"/>
      <Service  name="GetIcon"
          type="http://www.pucc.jp/2007/09/Device/Echonet/VisitorSensor/Service/GetIcon"/>
    </ServiceList>
    <PrimitiveDeviceList/>
</Device>
```

### 11.5.2. Service Metadata

The metadata templates for the services that visitor sensor devices have are shown below.

※ See also 6.3.2. for the metadata of the services common to devices.

(1)GetDetectionLevel service metadata

```
<?xml version="1.0" ?>
<Service
      type="http://www.pucc.jp/2007/09/Device/Echonet/VisitorSensor/Service/GetDetectionLevel"
      name="GetDetectionLevel">
   <InputParameterList/>
   <OutputParameterList>
      <Parameter name="CurrentDetectionLevel" relatedStateVariable="DetectionLevel"/>
   </OutputParameterList>
</Service>
```

(2)SetDetectionLevel service metadata

```
<?xml version="1.0" ?>
<Service
      type="http://www.pucc.jp/2007/09/Device/Echonet/VisitorSensor/Service/SetDetectionLevel"
      name="SetDetectionLevel">
   <InputParameterList>
      <Parameter name="NewDetectionLevel" relatedStateVariable="DetectionLevel"/>
   </InputParameterList>
   <OutputParameterList/>
</Service>
```

(3)GetVisitorDetectionStatus service metadata

```
<?xml version="1.0" ?>
<Service
      type="http://www.pucc.jp/2007/09/Device/Echonet/VisitorSensor/Service/GetVisitorDetectionStatus"
      name="GetVisitorDetectionStatus">
   <InputParameterList/>
   <OutputParameterList>
      <Parameter name="CurrentVisitorDetectionStatus" relatedStateVariable="VisitorDetectionStatus"/>
   </OutputParameterList>
</Service>
```

(4)ReadDetectionHoldSecond service metadata

```
<?xml version="1.0" ?>
<Service
      type="http://www.pucc.jp/2007/09/Device/Echonet/VisitorSensor/Service/ReadDetectionHoldSecond"
      name="ReadDetectionHoldSecond">
   <InputParameterList/>
   <OutputParameterList>
      <Parameter name="CurrentDetectionHoldSecond" relatedStateVariable="DetectionHoldSecond"/>
   </OutputParameterList>
</Service>
```

(5)WriteDetectionHoldSecond service metadata

```
<?xml version="1.0" ?>
<Service
      type="http://www.pucc.jp/2007/09/Device/Echonet/VisitorSensor/Service/WriteDetectionHoldSecond"
      name="WriteDetectionHoldSecond">
   <InputParameterList>
      <Parameter name="NewDetectionHoldSecond" relatedStateVariable="DetectionHoldSecond"/>
   </InputParameterList>
   <OutputParameterList/>
</Service>
```

(6)GetIcon service metadata

```
<?xml version="1.0" ?>
<Service
      type="http://www.pucc.jp/2007/09/Device/Echonet/VisitorSensor/Service/GetIcon" name="GetIcon">
   <InputParameterList>
      <Parameter name="url" datatype="string"/>
   </InputParameterList>
   <OutputParameterList>
      <Parameter name="mimeType" datatype="string"/>
      <Parameter name="base64Data" datatype="base64Binary"/>
   </OutputParameterList>
</Service>
```

# 12. Mailing Sensor Devices

This chapter defines the PUCC metadata specification for mailing sensor devices.

## 12.1. Device Model

Mailing sensor devices adopt the device model shown below.

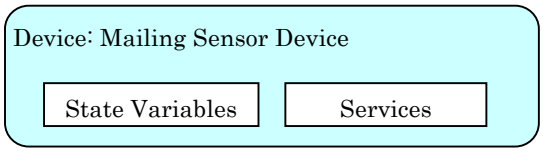


**Figure 12.1-1 Mailing sensor device model**

## 12.2. Device Type

The device type identifier of mailing sensor devices is shown below.

http://www.pucc.jp/2007/09/Device/Echonet/MailingSensor

## 12.3. State Variables

The state variables of mailing sensor devices are shown below.

**Table 12.3-1: Mailing sensor devices state variables**

| | State Variable Name | Description | Data Type | Event Generation (Yes/No) |
|---|---|---|---|---|
| 1 | OperationStatus | Operation status (6.1.1) | string | Yes |
| 2 | InstallationLocation | Installation location (6.1.2) | hexBinary | Yes |
| 3 | SpecVersionInfoCode | Specification version information (6.1.3) | string | No |
| 4 | LowerNodeIdCode | Node identification code (6.1.4) (lower-layer communication software ID field) | string | No |
| 5 | NodeIdCode | Node identification code (6.1.4) (individual number field) | string | No |
| 6 | ManufacturerErrorCode | Manufacturer error code (6.1.5) | string | No |
| 7 | PowerLimit | Power limit (6.1.6) | integer | No |
| 8 | FaultStatus | Fault status (6.1.7) | string | Yes |
| 9 | FaultContent | Fault content (6.1.8) | hexBinary | No |
| 10 | MakerCode | Manufacturer code (6.1.9) | string | No |
| 11 | PlaceOfBuisinessCode | Place-of-business code (6.1.10) | string | No |
| 12 | EnergySavingStatus | Energy saving status (6.1.11) | string | No |
| 13 | PresentTime | P resent time (6.1.12) | time | No |
| 14 | PresentDate | Present date (6.1.13) | date | No |
| 15 | CumulatedRunTimeValue | Cumulative run-time (6.1.14) | hexBinary | No |
| 16 | DetectionLevel | Detection threshold value level | string | No |
| 17 | MailingDetectionStatus | Mailing detection status | string | Yes |

The details of each state variable are shown below.

※ See 6.1 for the details of the state variables common to devices.

### 12.3.1. Detection threshold value level (DetectionLevel)

Table12.3.1-1 shows the setting values for the "Detection threshold value level (DetectionLevel)."

**Table 12.3.1-1: Setting values for the "Detection threshold value level(DetectionLevel)"**

| | Value | Meaning | Relationship with ECHONET Specification Values |
|---|---|---|---|
| 1 | 1 | 1 | 0x31(1) |
| 2 | 2 | 2 | 0x32(2) |
| 3 | 3 | 3 | 0x33(3) |
| 4 | 4 | 4 | 0x34(4) |
| 5 | 5 | 5 | 0x35(5) |
| 6 | 6 | 6 | 0x36(6) |
| 7 | 7 | 7 | 0x37(7) |
| 8 | 8 | 8 | 0x38(8) |

### 12.3.2. Mailing detection status (MailingDetectionStatus)

Table12.3.2-1 shows the setting values for the "Mailing detection status (MailingDetectionStatus)."

**Table 12.3.2-1: Setting values for the "Mailing detection status (MailingDetectionStatus)"**

| | Value | Meaning | Relationship with ECHONET Specification Values |
|---|---|---|---|
| 1 | Found | Mailing detection Yes | 0x41(Mailing detection Yes) |
| 2 | NotFound | Mailing detection No | 0x42(Mailing detection No) |

## 12.4. Services

The services of Mailing sensor devices are shown below.

**Table 12.4-1: Services offered by mailing sensor devices**

| | Service Name | Description | |
|---|---|---|---|
| 1 | GetOperationStatus | Obtains the operation status | (6.2.1) |
| 2 | SetOperationStatus | Sets the operation status | (6.2.2) |
| 3 | GetInstallationLocation | Obtains the installation location | (6.2.3) |
| 4 | SetInstallationLocation | Sets the installation location | (6.2.4) |
| 5 | GetSpecVersionInfoCode | Obtains the specification version information | (6.2.5) |
| 6 | GetLowerNodeIdCode | Obtains the node identification code (lower-layer communication software ID field) | (6.2.6) |
| 7 | GetNodeIdCode | Obtains the node identification code (individual number field) | (6.2.7) |
| 8 | GetManufacturerErrorCode | Obtains the manufacturer error code | (6.2.8) |
| 9 | ReadPowerLimit | Obtains the power limit | (6.2.9) |
| 10 | WritePowerLimit | Sets the power limit | (6.2.10) |
| 11 | GetFaultStatus | Obtains the fault status | (6.2.11) |
| 12 | GetFaultContent | Obtains the fault content | (6.2.12) |
| 13 | GetMakerCode | Obtains the manufacturer code | (6.2.13) |
| 14 | GetPlaceOfBuisinessCode | Obtains the place-of-business code | (6.2.14) |
| 15 | GetEnergySavingStatus | Obtains the energy saving status | (6.2.15) |
| 16 | SetEnergySavingStatus | Sets the energy saving status | (6.2.16) |
| 17 | GetPresentTime | Obtains the present time | (6.2.17) |
| 18 | SetPresentTime | Sets the present time | (6.2.18) |
| 19 | GetPresentDate | Obtains the present date | (6.2.19) |
| 20 | SetPresentDate | Sets the present date | (6.2.20) |
| 21 | GetCumulatedRunTimeValue | Obtains the cumulative run-time | (6.2.21) |
| 22 | GetDetectionLevel | Obtains the detection threshold value level | |
| 23 | SetDetectionLevel | Sets the detection threshold value level | |
| 24 | GetMailingDetectionStatus | Obtains the mailing detection status | |
| 25 | GetIcon | Obtains the icon | |

The details of each service are shown below.

※ See 6.2 for the details of the services common to devices.

### 12.4.1. GetDetectionLevel

(1)Description

Obtains the detection threshold value level

(2) Service type identifier

http://www.pucc.jp/2007/09/Device/Echonet/MailingSensor/Service/GetDetectionLevel

(3) Input parameter

None

(4) Output parameter

**Table 12.4.1-1: Output parameter of the GetDetectionLevel service**

| | Parameter | Related State Variable | Remarks |
|---|---|---|---|
| 1 | CurrentDetectionLevel | DetectionLevel | See also 12.3.1 |

### 12.4.2. SetDetectionLevel

(1)Description

Sets the detection threshold value level

(2) Service type identifier

http://www.pucc.jp/2007/09/Device/Echonet/MailingSensor/Service/SetDetectionLevel

(3) Input parameter

**Table 12.4.2-1: Input parameter of the SetDetectionLevel service**

| | Parameter | Related State Variable | Remarks |
|---|---|---|---|
| 1 | NewDetectionLevel | DetectionLevel | See also 12.3.1 |

(4) Output parameter

None

### 12.4.3. GetMailingDetectionStatus

(1)Description

Obtains the mailing detection status

(2) Service type identifier

http://www.pucc.jp/2007/09/Device/Echonet/MailingSensor/Service/GetMailingDetectionStatus

(3) Input parameter

None

(4) Output parameter

**Table 12.4.3-1: Output parameter of the GetMailingDetectionStatus service**

| | Parameter | Related State Variable | Remarks |
|---|---|---|---|
| 1 | CurrentMailingDetectionStatus | MailingDetectionStatus | See also 12.3.2 |

### 12.4.4. GetIcon

(1)Description

Obtains the icon

(2) Service type identifier

http://www.pucc.jp/2007/09/Device/Echonet/MailingSensor/Service/GetIcon

(3) Input parameter

**Table 12.4.4-1: Input parameter of the GetIcon service**

| | Parameter | Related State Variable | Data Type | Remarks |
|---|---|---|---|---|
| 1 | url | - | string | Sets the URL of an icon image |

(4) Output parameter

**Table 12.4.4-2: Output parameter of the GetIcon service**

| | Parameter | Related State Variable | Data Type | Remarks |
|---|---|---|---|---|
| 1 | mimeType | - | string | Sets the MIME type of an icon image |
| 2 | base64Data | - | base64Binary | Sets the data of the BASE64-encoded image of an icon |

## 12.5. Metadata

### 12.5.1. Device Metadata

The metadata template of mailing sensor devices is shown below.

*Italic letters in red*: differ by the entity of each mailing sensor device

```
<?xml version="1.0"?>
<Device    type="http://www.pucc.jp/2007/09/Device/Echonet/MailingSensor"
                id="global unique ID for this device"    name="short user-friendly title">
  <Specification>
    <URLBase>base URL for all relative URLs</URLBase>
    <Manufacturer>manufacturer name</Manufacturer>
    <ManufacturerURL>URL to manufacturer site</ManufacturerURL>
    <ManufactureDate>date of manufacture</ManufactureDate>
    <ModelDescription>long user-friendly title</ModelDescription>
    <ModelName>model name</ModelName>
    <ModelNumber>model number</ModelNumber>
    <ModelURL>URL to model site</ModelURL>
    <SerialNumber>manufacturer's serial number</SerialNumber>
    <UDN>uuid:UUID</UDN>
    <UPC>Universal Product Code</UPC>
    <IconList>
      <Icon>
        <Mimetype>image/format</Mimetype>
        <Width>horizontal pixels</width>
        <Height>vertical pixels</height>
        <Depth>color depth</depth>
        <Url>URL to icon</Url>
      </icon>
      XML to declare other icons, if any, go here
    </IconList>
  </Specification>
  <StateVariableList>
          :
      (Insert the metadata definition of the state variables common to devices shown in 6.3.1)
          :
    <StateVariable    name="DetectionLevel"    datatype="string"    sendEvents="no">
      <AllowedValueList>
        <AllowedValue>1</AllowedValue>
        <AllowedValue>2</AllowedValue>
        <AllowedValue>3</AllowedValue>
        <AllowedValue>4</AllowedValue>
```

```
          <AllowedValue>5</AllowedValue>
          <AllowedValue>6</AllowedValue>
          <AllowedValue>7</AllowedValue>
          <AllowedValue>8</AllowedValue>
        </AllowedValueList>
      </StateVariable>
      <StateVariable  name="MailingDetectionStatus"  datatype="string"  sendEvents="yes">
        <AllowedValueList>
          <AllowedValue>Found</AllowedValue>
          <AllowedValue>NotFound</AllowedValue>
        </AllowedValueList>
      </StateVariable>
    </StateVariableList>
    <ServiceList>
            :
        (Insert the metadata definition of the services common to devices shown in 6.3.2)
            :
      <Service  name="GetDetectionLevel"
          type="http://www.pucc.jp/2007/09/Device/Echonet/MailingSensor/Service/GetDetectionLevel"/>
      <Service  name="SetDetectionLevel"
          type="http://www.pucc.jp/2007/09/Device/Echonet/MailingSensor/Service/SetDetectionLevel"/>
      <Service  name="GetMailingDetectionStatus"
          type="http://www.pucc.jp/2007/09/Device/Echonet/MailingSensor/Service/GetMailingDetectionStatus
"/>
      <Service  name="GetIcon"
          type="http://www.pucc.jp/2007/09/Device/Echonet/MailingSensor/Service/GetIcon"/>
    </ServiceList>
    <PrimitiveDeviceList/>
</Device>
```

### 12.5.2. Service Metadata

The metadata templates for the services that mailing sensor devices have are shown below.

※ See 6.3.2. for the metadata of the services common to devices.

(1)GetDetectionLevel service metadata

```
<?xml version="1.0" ?>
<Service
      type="http://www.pucc.jp/2007/09/Device/Echonet/MailingSensor/Service/GetDetectionLevel"
      name="GetDetectionLevel">
   <InputParameterList/>
   <OutputParameterList>
      <Parameter name="CurrentDetectionLevel" relatedStateVariable="DetectionLevel"/>
   </OutputParameterList>
</Service>
```

(2)SetDetectionLevel service metadata

```
<?xml version="1.0" ?>
<Service
      type="http://www.pucc.jp/2007/09/Device/Echonet/MailingSensor/Service/SetDetectionLevel"
      name="SetDetectionLevel">
   <InputParameterList>
      <Parameter name="NewDetectionLevel" relatedStateVariable="DetectionLevel"/>
   </InputParameterList>
   <OutputParameterList/>
</Service>
```

(3)GetMailingDetectionStatus service metadata

```
<?xml version="1.0" ?>
<Service
      type="http://www.pucc.jp/2007/09/Device/Echonet/MailingSensor/Service/GetMailingDetectionStatus"
      name="GetMailingDetectionStatus">
   <InputParameterList/>
   <OutputParameterList>
      <Parameter name="CurrentMailingDetectionStatus" relatedStateVariable="MailingDetectionStatus"/>
   </OutputParameterList>
</Service>
```

(4)GetIcon service metadata

```
<?xml version="1.0" ?>
<Service
      type="http://www.pucc.jp/2007/09/Device/Echonet/MailingSensor/Service/GetIcon" name="GetIcon">
   <InputParameterList>
      <Parameter name="url" datatype="string"/>
   </InputParameterList>
   <OutputParameterList>
      <Parameter name="mimeType" datatype="string"/>
      <Parameter name="base64Data" datatype="base64Binary"/>
   </OutputParameterList>
</Service>
```

# 13. Crime Prevention Sensor Devices

This chapter defines the PUCC metadata specification for crime prevention sensor devices.

## 13.1. Device Model

Crime prevention sensor devices adopt the device model shown below.

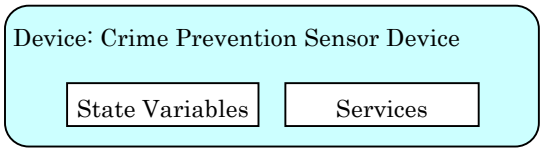


**Figure 13.1-1. Crime prevention sensor devices model**

## 13.2. Device Type

The device type identifier of crime prevention sensor devices is shown below.

http://www.pucc.jp/2007/09/Device/Echonet/CrimePreventionSensor

## 13.3. State Variables

The state variables of crime prevention sensor devices are shown below

**Table 13.3-1: State variables of Crime prevention sensor devices**

| | State Variable Name | Description | Data Type | Event Generation (Yes/No) |
|---|---|---|---|---|
| 1 | OperationStatus | Operation status (6.1.1) | string | Yes |
| 2 | InstallationLocation | Installation location (6.1.2) | hexBinary | Yes |
| 3 | SpecVersionInfoCode | Specification version information (6.1.3) | string | No |
| 4 | LowerNodeIdCode | Node identification code (6.1.4) (lower-layer communication software ID field) | string | No |
| 5 | NodeIdCode | Node identification code (6.1.4) (individual number field) | string | No |
| 6 | ManufacturerErrorCode | Manufacturer error code (6.1.5) | string | No |
| 7 | PowerLimit | Power limit (6.1.6) | integer | No |
| 8 | FaultStatus | Fault status (6.1.7) | string | Yes |
| 9 | FaultContent | Fault content (6.1.8) | hexBinary | No |
| 10 | MakerCode | Manufacturer code (6.1.9) | string | No |
| 11 | PlaceOfBuisinessCode | Place-of-business code (6.1.10) | string | No |
| 12 | EnergySavingStatus | Energy saving status (6.1.11) | string | No |
| 13 | PresentTime | P resent time (6.1.12) | time | No |
| 14 | PresentDate | Present date (6.1.13) | date | No |
| 15 | CumulatedRunTimeValue | Cumulative run-time (6.1.14) | hexBinary | No |
| 16 | DetectionLevel | Detection threshold value level | string | No |
| 17 | InvasionStatus | Invasion status | string | Yes |

The details of each state variable are shown below.

※ See 6.1 for the details of the state variables common to devices.

### 13.3.1. Detection threshold value level (DetectionLevel)

Table13.3.1-1 shows the setting values for the "Detection threshold value level (DetectionLevel)."

**Table 13.3.1-1: Setting values for the "Detection threshold value level(DetectionLevel)"**

| | Value | Meaning | Relationship with ECHONET Specification Values |
|---|---|---|---|
| 1 | 1 | 1 | 0x31(1) |
| 2 | 2 | 2 | 0x32(2) |
| 3 | 3 | 3 | 0x33(3) |
| 4 | 4 | 4 | 0x34(4) |
| 5 | 5 | 5 | 0x35(5) |
| 6 | 6 | 6 | 0x36(6) |
| 7 | 7 | 7 | 0x37(7) |
| 8 | 8 | 8 | 0x38(8) |

### 13.3.2. Invasion Status (InvasionStatus)

Table13.3.2-1 shows the setting values for the "Invasion status (InvasionStatus)."

**Table 13.3.2-1: Setting values for the "Invasion status (InvasionStatus)"**

| | Value | Meaning | Relationship with ECHONET Specification Values |
|---|---|---|---|
| 1 | Found | Invasion YES | 0x41(Invasion YES) |
| 2 | NotFound | Invasion NO | 0x42(Invasion NO) |

## 13.4. Services

The services of crime prevention sensor devices are shown below.

**Table 13.4-1: Services offered by crime prevention sensor devices**

| | Service Name | Description | |
|---|---|---|---|
| 1 | GetOperationStatus | Obtains the operation status | (6.2.1) |
| 2 | SetOperationStatus | Sets the operation status | (6.2.2) |
| 3 | GetInstallationLocation | Obtains the installation location | (6.2.3) |
| 4 | SetInstallationLocation | Sets the installation location | (6.2.4) |
| 5 | GetSpecVersionInfoCode | Obtains the specification version information | (6.2.5) |
| 6 | GetLowerNodeIdCode | Obtains the node identification code (lower-layer communication software ID field) | (6.2.6) |
| 7 | GetNodeIdCode | Obtains the node identification code (individual number field) | (6.2.7) |
| 8 | GetManufacturerErrorCode | Obtains the manufacturer error code | (6.2.8) |
| 9 | ReadPowerLimit | Obtains the power limit | (6.2.9) |
| 10 | WritePowerLimit | Sets the power limit | (6.2.10) |
| 11 | GetFaultStatus | Obtains the fault status | (6.2.11) |
| 12 | GetFaultContent | Obtains the fault content | (6.2.12) |
| 13 | GetMakerCode | Obtains the manufacturer code | (6.2.13) |
| 14 | GetPlaceOfBuisinessCode | Obtains the place-of-business code | (6.2.14) |
| 15 | GetEnergySavingStatus | Obtains the energy saving status | (6.2.15) |
| 16 | SetEnergySavingStatus | Sets the energy saving status | (6.2.16) |
| 17 | GetPresentTime | Obtains the present time | (6.2.17) |
| 18 | SetPresentTime | Sets the present time | (6.2.18) |
| 19 | GetPresentDate | Obtains the present date | (6.2.19) |
| 20 | SetPresentDate | Sets the present date | (6.2.20) |
| 21 | GetCumulatedRunTimeValue | Obtains the cumulative run-time | (6.2.21) |
| 22 | GetDetectionLevel | Obtains the detection threshold value level | |
| 23 | SetDetectionLevel | Sets the detection threshold value level | |
| 24 | GetInvasionStatus | Obtains the invasion status | |
| 25 | ResetInvasionStatus | Resets the invasion status | |
| 26 | GetIcon | Obtains the icon | |

The details of each service are shown below.

※ See 6.2 for the details of the services common to devices.

### 13.4.1. GetDetectionLevel

(1)Description

Obtains the detection threshold value level

(2) Service type identifier

http://www.pucc.jp/2007/09/Device/Echonet/CrimePreventionSensor/Service/GetDetectionLevel

(3) Input parameter

None

(4) Output parameter

**Table 13.4.1-1: Output parameter of the GetDetectionLevel service**

| | Parameter | Related State Variable | Remarks |
|---|---|---|---|
| 1 | CurrentDetectionLevel | DetectionLevel | See also 13.3.1 |

### 13.4.2. SetDetectionLevel

(1)Description

Sets the detection threshold value level

(2) Service type identifier

http://www.pucc.jp/2007/09/Device/Echonet/CrimePreventionSensor/Service/SetDetectionLevel

(3) Input parameter

**Table 13.4.2-1: Input parameter of the SetDetectionLevel service**

| | Parameter | Related State Variable | Remarks |
|---|---|---|---|
| 1 | NewDetectionLevel | DetectionLevel | See also 13.3.1 |

(4) Output parameter

None

### 13.4.3. GetInvasionStatus

(1)Description

Obtains the invasion status

(2) Service type identifier

http://www.pucc.jp/2007/09/Device/Echonet/CrimePreventionSensor/Service/GetInvasionStatus

(3) Input parameter

None

(4) Output parameter

**Table 13.4.3-1: Output parameter of the GetInvasionStatus service**

| | Parameter | Related State Variable | Remarks |
|---|---|---|---|
| 1 | CurrentInvasionStatus | InvasionStatus | See also 13.3.2 |

### 13.4.4. ResetInvasionStatus

(1)Description

Resets the invasion status

(2) Service type identifier

http://www.pucc.jp/2007/09/Device/Echonet/CrimePreventionSensor/Service/ResetInvasionStatus

(3) Input parameter

None

(4) Output parameter

None

### 13.4.5. GetIcon

(1)Description

Obtains the icon

(2) Service type identifier

http://www.pucc.jp/2007/09/Device/Echonet/CrimePreventionSensor/Service/GetIcon

(3) Input parameter

**Table 13.4.5-1: Input parameter of the GetIcon service**

| | Parameter | Related State Variable | Data Type | Remarks |
|---|---|---|---|---|
| 1 | url | - | string | Sets the URL of an icon image |

(4) Output parameter

**Table 13.4.5-2: Output parameters of GetIcon service**

| | Parameter | Related State Variable | Data Type | Remarks |
|---|---|---|---|---|
| 1 | mimeType | - | string | Sets the MIME type of an icon image |
| 2 | base64Data | - | base64Binary | Sets the data of the BASE64-encoded image of an icon |

## 13.5. Metadata

### 13.5.1. Device Metadata

The metadata template of crime prevention devices is shown below.

*Italic letters in red*: differ by the entity of each crime prevention device

```
<?xml version="1.0"?>
<Device    type="http://www.pucc.jp/2007/09/Device/Echonet/CrimePreventionSensor"
                id="global unique ID for this device"    name="short user-friendly title">
  <Specification>
    <URLBase>base URL for all relative URLs</URLBase>
    <Manufacturer>manufacturer name</Manufacturer>
    <ManufacturerURL>URL to manufacturer site</ManufacturerURL>
    <ManufactureDate>date of manufacture</ManufactureDate>
    <ModelDescription>long user-friendly title</ModelDescription>
    <ModelName>model name</ModelName>
    <ModelNumber>model number</ModelNumber>
    <ModelURL>URL to model site</ModelURL>
    <SerialNumber>manufacturer's serial number</SerialNumber>
    <UDN>uuid:UUID</UDN>
    <UPC>Universal Product Code</UPC>
    <IconList>
      <Icon>
        <Mimetype>image/format</Mimetype>
        <Width>horizontal pixels</width>
        <Height>vertical pixels</height>
        <Depth>color depth</depth>
        <Url>URL to icon</Url>
      </icon>
      XML to declare other icons, if any, go here
    </IconList>
  </Specification>
  <StateVariableList>
          :
      (Insert the metadata definition of the state variables common to devices shown in 6.3.1)
          :
    <StateVariable    name="DetectionLevel"    datatype="string"    sendEvents="no">
      <AllowedValueList>
        <AllowedValue>1</AllowedValue>
        <AllowedValue>2</AllowedValue>
        <AllowedValue>3</AllowedValue>
        <AllowedValue>4</AllowedValue>
```

```
            <AllowedValue>5</AllowedValue>
            <AllowedValue>6</AllowedValue>
            <AllowedValue>7</AllowedValue>
            <AllowedValue>8</AllowedValue>
          </AllowedValueList>
        </StateVariable>
        <StateVariable   name="InvasionStatus"   datatype="string"   sendEvents="yes">
          <AllowedValueList>
            <AllowedValue>Found</AllowedValue>
            <AllowedValue>NotFound</AllowedValue>
          </AllowedValueList>
        </StateVariable>
    </StateVariableList>
    <ServiceList>
              :
        (Insert the metadata definition of the services common to devices shown in 6.3.2)
              :
        <Service   name="GetDetectionLevel"
          type="http://www.pucc.jp/2007/09/Device/Echonet/CrimePreventionSensor/Service/GetDetectionLevel"/>
        <Service   name="SetDetectionLevel"
          type="http://www.pucc.jp/2007/09/Device/Echonet/CrimePreventionSensor/Service/SetDetectionLevel"/>
        <Service   name="GetInvasionStatus"
          type="http://www.pucc.jp/2007/09/Device/Echonet/CrimePreventionSensor/Service/GetInvasionStatus"/>
        <Service   name="ResetInvasionStatus"
          type="http://www.pucc.jp/2007/09/Device/Echonet/CrimePreventionSensor/Service/ResetInvasionStatus
"/>
        <Service   name="GetIcon"
          type="http://www.pucc.jp/2007/09/Device/Echonet/CrimePreventionSensor/Service/GetIcon/>
    </ServiceList>
    <PrimitiveDeviceList/>
</Device>
```

### 13.5.2. Service Metadata

The metadata templates for the services that crime prevention sensor devices have are shown below.

※ See also 6.3.2. for the metadata of the services common to devices.

(1)GetDetectionLevel service metadata

```
<?xml version="1.0" ?>
<Service
      type="http://www.pucc.jp/2007/09/Device/Echonet/CrimePreventionSensor/Service/GetDetectionLevel"
      name="GetDetectionLevel">
   <InputParameterList/>
   <OutputParameterList>
      <Parameter name="CurrentDetectionLevel" relatedStateVariable="DetectionLevel"/>
   </OutputParameterList>
</Service>
```

(2)SetDetectionLevel service metadata

```
<?xml version="1.0" ?>
<Service
      type="http://www.pucc.jp/2007/09/Device/Echonet/CrimePreventionSensor/Service/SetDetectionLevel"
      name="SetDetectionLevel">
   <InputParameterList>
      <Parameter name="NewDetectionLevel" relatedStateVariable="DetectionLevel"/>
   </InputParameterList>
   <OutputParameterList/>
</Service>
```

(3)GetInvasionStatus service metadata

```
<?xml version="1.0" ?>
<Service
      type="http://www.pucc.jp/2007/09/Device/Echonet/CrimePreventionSensor/Service/GetInvasionStatus"
      name="GetInvasionStatus">
   <InputParameterList/>
   <OutputParameterList>
      <Parameter name="CurrentInvasionStatus" relatedStateVariable="InvasionStatus"/>
   </OutputParameterList>
</Service>
```

(4)ResetInvasionStatus service metadata

```
<?xml version="1.0" ?>
<Service
      type="http://www.pucc.jp/2007/09/Device/Echonet/CrimePreventionSensor/Service/ResetInvasionStatus"
      name="ResetInvasionStatus">
   <InputParameterList/>
   <OutputParameterList/>
</Service>
```

(5)GetIcon service metadata

```
<?xml version="1.0" ?>
<Service
      type="http://www.pucc.jp/2007/09/Device/Echonet/CrimePreventionSensor/Service/GetIcon"
      name="GetIcon">
   <InputParameterList>
      <Parameter name="url" datatype="string"/>
   </InputParameterList>
   <OutputParameterList>
      <Parameter name="mimeType" datatype="string"/>
      <Parameter name="base64Data" datatype="base64Binary"/>
   </OutputParameterList>
</Service>
```

# 14. Fire Sensor Devices

This chapter defines the PUCC metadata specification for fire Sensor devices.

## 14.1. Device Model

Fire Sensor devices adopt the device model shown below.

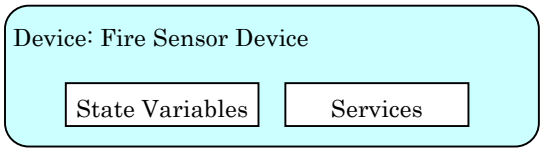


**Figure 14.1-1 Fire Sensor devices device model**

## 14.2. Device Type

The device type identifier of fire Sensor devices is shown below.

http://www.pucc.jp/2007/09/Device/Echonet/FireSensor

## 14.3. State variables

The state variables of fire sensor devices are shown below.

**Table 14.3-1: State variables of fire Sensor devices**

| | State Variable Name | Description | Data Type | Event Generation (Yes/No) |
|---|---|---|---|---|
| 1 | OperationStatus | Operation status (6.1.1) | string | Yes |
| 2 | InstallationLocation | Installation location (6.1.2) | hexBinary | Yes |
| 3 | SpecVersionInfoCode | Specification version information (6.1.3) | string | No |
| 4 | LowerNodeIdCode | Node identification code (6.1.4) (lower-layer communication software ID field) | string | No |
| 5 | NodeIdCode | Node identification code (6.1.4) (individual number field) | string | No |
| 6 | ManufacturerErrorCode | Manufacturer error code (6.1.5) | string | No |
| 7 | PowerLimit | Power limit (6.1.6) | integer | No |
| 8 | FaultStatus | Fault status (6.1.7) | string | Yes |
| 9 | FaultContent | Fault content (6.1.8) | hexBinary | No |
| 10 | MakerCode | Manufacturer code (6.1.9) | string | No |
| 11 | PlaceOfBuisinessCode | Place-of-business code (6.1.10) | string | No |
| 12 | EnergySavingStatus | Energy saving status (6.1.11) | string | No |
| 13 | PresentTime | P resent time (6.1.12) | time | No |
| 14 | PresentDate | Present date (6.1.13) | date | No |
| 15 | CumulatedRunTimeValue | Cumulative run-time (6.1.14) | hexBinary | No |
| 16 | DetectionLevel | Detection threshold value level | string | No |
| 17 | FireDetectionStatus | Fire detection status | string | Yes |

The details of each state variable are shown below.

※ See 6.1 for the details of the state variables common to devices.

### 14.3.1. Detection Threshold Value Level (DetectionLevel)

Table14.3.1-1 shows the setting values for the "Detection threshold value level (DetectionLevel)."

**Table 14.3.1-1: Setting values for the "Detection threshold value level (DetectionLevel)"**

| | Value | Meaning | Relationship with ECHONET Specification Values |
|---|---|---|---|
| 1 | 1 | 1 | 0x31(1) |
| 2 | 2 | 2 | 0x32(2) |
| 3 | 3 | 3 | 0x33(3) |
| 4 | 4 | 4 | 0x34(4) |
| 5 | 5 | 5 | 0x35(5) |
| 6 | 6 | 6 | 0x36(6) |
| 7 | 7 | 7 | 0x37(7) |
| 8 | 8 | 8 | 0x38(8) |

### 14.3.2. Fire Detection Status (FireDetectionStatus)

Table14.3.2-1 shows the setting values for the "Fire detection status (FireDetectionStatus)."

**Table 14.3.2-1: Setting values for the "Fire detection status (FireDetectionStatus)"**

| | Value | Meaning | Relationship with ECHONET Specification Values |
|---|---|---|---|
| 1 | Found | Fire detection YES | 0x41(Fire detection YES) |
| 2 | NotFound | Fire detection NO | 0x42(Fire detection NO) |

## 14.4. Services

The services of fire sensor devices are shown below.

**Table 14.4-1: Services offered by fire sensor devices**

| | Service Name | Description | |
|---|---|---|---|
| 1 | GetOperationStatus | Obtains the operation status | (6.2.1) |
| 2 | SetOperationStatus | Sets the operation status | (6.2.2) |
| 3 | GetInstallationLocation | Obtains the installation location | (6.2.3) |
| 4 | SetInstallationLocation | Sets the installation location | (6.2.4) |
| 5 | GetSpecVersionInfoCode | Obtains the specification version information | (6.2.5) |
| 6 | GetLowerNodeIdCode | Obtains the node identification code (lower-layer communication software ID field) | (6.2.6) |
| 7 | GetNodeIdCode | Obtains the node identification code (individual number field) | (6.2.7) |
| 8 | GetManufacturerErrorCode | Obtains the manufacturer error code | (6.2.8) |
| 9 | ReadPowerLimit | Obtains the power limit | (6.2.9) |
| 10 | WritePowerLimit | Sets the power limit | (6.2.10) |
| 11 | GetFaultStatus | Obtains the fault status | (6.2.11) |
| 12 | GetFaultContent | Obtains the fault content | (6.2.12) |
| 13 | GetMakerCode | Obtains the manufacturer code | (6.2.13) |
| 14 | GetPlaceOfBuisinessCode | Obtains the place-of-business code | (6.2.14) |
| 15 | GetEnergySavingStatus | Obtains the energy saving status | (6.2.15) |
| 16 | SetEnergySavingStatus | Sets the energy saving status | (6.2.16) |
| 17 | GetPresentTime | Obtains the present time | (6.2.17) |
| 18 | SetPresentTime | Sets the present time | (6.2.18) |
| 19 | GetPresentDate | Obtains the present date | (6.2.19) |
| 20 | SetPresentDate | Sets the present date | (6.2.20) |
| 21 | GetCumulatedRunTimeValue | Obtains the cumulative run-time | (6.2.21) |
| 22 | GetDetectionLevel | Obtains the detection threshold value level | |
| 23 | SetDetectionLevel | Sets the detection threshold value level | |
| 24 | GetFireDetectionStatus | Obtains the fire detection status | |
| 25 | ResetFireDetectionStatus | Resets the fire detection status | |
| 26 | GetIcon | Obtains the icon | |

The details of each service are shown below.

※ See 6.2 for the details of the services common to devices

### 14.4.1. GetDetectionLevel

(1)Description

Obtains the detection threshold value level

(2) Service type identifier

http://www.pucc.jp/2007/09/Device/Echonet/FireSensor/Service/GetDetectionLevel

(3) Input parameter

None

(4) Output parameter

**Table 14.4.1-1: GetDetectionLevel service**

| | parameter | Related State Variable | Remarks |
|---|---|---|---|
| 1 | CurrentDetectionLevel | DetectionLevel | See also 14.3.1 |

### 14.4.2. SetDetectionLevel

(1)Description

Sets the Detection threshold value level

(2) Service type identifier

http://www.pucc.jp/2007/09/Device/Echonet/FireSensor/Service/SetDetectionLevel

(3) Input parameter

**Table 14.4.2-1: Input parameter of the SetDetectionLevel service**

| | parameter | Related State Variable | Remarks |
|---|---|---|---|
| 1 | NewDetectionLevel | DetectionLevel | See also 14.3.1 |

(4) Output parameter

None

### 14.4.3. GetFireDetectionStatus

(1)Description

Obtains the Fire detection status

(2) Service type identifier

http://www.pucc.jp/2007/09/Device/Echonet/FireSensor/Service/GetFireDetectionStatus

(3) Input parameter

None

(4) Output parameter

**Table 14.4.3-1: Output parameter of the GetFireDetectionStatus service**

| | parameter | Related State Variable | Remarks |
|---|---|---|---|
| 1 | CurrentFireDetectionStatus | FireDetectionStatus | See also 14.3.2 |

### 14.4.4. ResetFireDetectionStatus

(1)Description

Rests the Fire detection status

(2) Service type identifier

http://www.pucc.jp/2007/09/Device/Echonet/FireSensor/Service/ResetFireDetectionStatus

(3) Input parameter

None

(4) Output parameter

None

### 14.4.5. GetIcon

(1)Description

Obtains the icon

(2) Service type identifier

http://www.pucc.jp/2007/09/Device/Echonet/FireSensor/Service/GetIcon

(3) Input parameter

**Table 14.4.5-1: Input parameter of GetIcon service**

| | Parameter | Related State Variable | Data Type | Remarks |
|---|---|---|---|---|
| 1 | url | - | string | Sets the URL of an icon image |

(4) Output parameter

**Table 14.4.5-2: Output parameters of the GetIcon service**

| | Parameter | Related State Variable | Data Type | Remarks |
|---|---|---|---|---|
| 1 | mimeType | - | string | Sets the MIME type of an icon image |
| 2 | base64Data | - | base64Binary | Sets the data of the BASE64-encoded image of an icon |

## 14.5. Metadata

### 14.5.1. Device Metadata

The metadata template of fire sensor devices is shown below.

*Italic letters in red*: differ by the entity of each fire sensor device

```
<?xml version="1.0"?>
<Device    type="http://www.pucc.jp/2007/09/Device/Echonet/FireSensor"
                id="global unique ID for this device"    name="short user-friendly title">
  <Specification>
    <URLBase>base URL for all relative URLs</URLBase>
    <Manufacturer>manufacturer name</Manufacturer>
    <ManufacturerURL>URL to manufacturer site</ManufacturerURL>
    <ManufactureDate>date of manufacture</ManufactureDate>
    <ModelDescription>long user-friendly title</ModelDescription>
    <ModelName>model name</ModelName>
    <ModelNumber>model number</ModelNumber>
    <ModelURL>URL to model site</ModelURL>
    <SerialNumber>manufacturer's serial number</SerialNumber>
    <UDN>uuid:UUID</UDN>
    <UPC>Universal Product Code</UPC>
    <IconList>
      <Icon>
        <Mimetype>image/format</Mimetype>
        <Width>horizontal pixels</width>
        <Height>vertical pixels</height>
        <Depth>color depth</depth>
        <Url>URL to icon</Url>
      </icon>
      XML to declare other icons, if any, go here
    </IconList>
  </Specification>
  <StateVariableList>
          :
      (Insert the metadata definition of the state variables common to devices shown in 6.3.1)
          :
    <StateVariable    name="DetectionLevel"    datatype="string"    sendEvents="no">
      <AllowedValueList>
        <AllowedValue>1</AllowedValue>
        <AllowedValue>2</AllowedValue>
        <AllowedValue>3</AllowedValue>
        <AllowedValue>4</AllowedValue>
```

```
            <AllowedValue>5</AllowedValue>
            <AllowedValue>6</AllowedValue>
            <AllowedValue>7</AllowedValue>
            <AllowedValue>8</AllowedValue>
          </AllowedValueList>
        </StateVariable>
        <StateVariable  name="FireDetecitonStatus"  datatype="string"  sendEvents="yes">
          <AllowedValueList>
            <AllowedValue>Found</AllowedValue>
            <AllowedValue>NotFound</AllowedValue>
          </AllowedValueList>
        </StateVariable>
    </StateVariableList>
    <ServiceList>
              :
        (Insert the metadata definition of the services common to devices shown in 6.3.2)
              :
        <Service  name="GetDetectionLevel"
          type="http://www.pucc.jp/2007/09/Device/Echonet/FireSensor/Service/GetDetectionLevel"/>
        <Service  name="SetDetectionLevel"
          type="http://www.pucc.jp/2007/09/Device/Echonet/FireSensor/Service/SetDetectionLevel"/>
        <Service  name="GetFireDetectionStatus"
          type="http://www.pucc.jp/2007/09/Device/Echonet/FireSensor/Service/GetFireDetectionStatus"/>
        <Service  name="ResetFireDetectionStatus"
          type="http://www.pucc.jp/2007/09/Device/Echonet/FireSensor/Service/ResetFireDetectionStatus
"/>
        <Service  name="GetIcon"
          type="http://www.pucc.jp/2007/09/Device/Echonet/FireSensor/Service/GetIcon/>
    </ServiceList>
    <PrimitiveDeviceList/>
</Device>
```

### 14.5.2. Service Metadata

The metadata templates of the services that Fire Sensor devices have are shown below.

※ See 6.3.2. for the metadata of the services common to devices

(1)GetDetectionLevel service metadata

```
<?xml version="1.0" ?>
<Service
      type="http://www.pucc.jp/2007/09/Device/Echonet/FireSensor/Service/GetDetectionLevel"
      name="GetDetectionLevel">
   <InputParameterList/>
   <OutputParameterList>
      <Parameter name="CurrentDetectionLevel" relatedStateVariable="DetectionLevel"/>
   </OutputParameterList>
</Service>
```

(2)SetDetectionLevel service metadata

```
<?xml version="1.0" ?>
<Service
      type="http://www.pucc.jp/2007/09/Device/Echonet/FireSensor/Service/SetDetectionLevel"
      name="SetDetectionLevel">
   <InputParameterList>
      <Parameter name="NewDetectionLevel" relatedStateVariable="DetectionLevel"/>
   </InputParameterList>
   <OutputParameterList/>
</Service>
```

(3)GetFireDetectionStatus service metadata

```
<?xml version="1.0" ?>
<Service
      type="http://www.pucc.jp/2007/09/Device/Echonet/FireSensor/Service/GetFireDetectionStatus"
      name="GetFireDetectionStatus">
   <InputParameterList/>
   <OutputParameterList>
      <Parameter name="CurrentFireDetectionStatus" relatedStateVariable="FireDetectionStatus"/>
   </OutputParameterList>
</Service>
```

(4)ResetFireDetectionStatus service metadata

```
<?xml version="1.0" ?>
<Service
      type="http://www.pucc.jp/2007/09/Device/Echonet/FireSensor/Service/ResetFireDetectionStatus"
      name="ResetFireDetectionStatus">
   <InputParameterList/>
   <OutputParameterList/>
</Service>
```

(5)GetIcon service metadata

```
<?xml version="1.0" ?>
<Service
      type="http://www.pucc.jp/2007/09/Device/Echonet/FireSensor/Service/GetIcon" name="GetIcon">
   <InputParameterList>
      <Parameter name="url" datatype="string"/>
   </InputParameterList>
   <OutputParameterList>
      <Parameter name="mimeType" datatype="string"/>
      <Parameter name="base64Data" datatype="base64Binary"/>
   </OutputParameterList>
</Service>
```

# 15. Emergency Button Devices

This chapter defines the PUCC metadata for emergency button devices.

## 15.1. Device Model

Emergency button devices adopt the device model shown below.

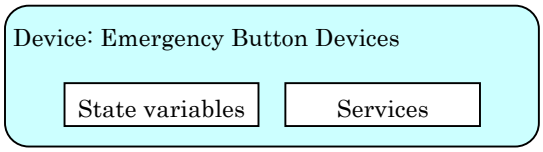


**Figure 15.1-1. Emergency button device model**

## 15.2. Device Type

The device type identifier of emergency button devices is shown below.

http://www.pucc.jp/2007/09/Device/Echonet/EmergencyButton

## 15.3. State Variables

The state variable so of emergency button devices are shown below.

**Table 15.3-1: State variables of emergency button devices**

| | State Variable Name | Description | Data Type | Event Generation (Yes/No) |
|---|---|---|---|---|
| 1 | OperationStatus | Operation status (6.1.1) | string | Yes |
| 2 | InstallationLocation | Installation location (6.1.2) | hexBinary | Yes |
| 3 | SpecVersionInfoCode | Specification version information (6.1.3) | string | No |
| 4 | LowerNodeIdCode | Node identification code (6.1.4) (lower-layer communication software ID field) | string | No |
| 5 | NodeIdCode | Node identification code (6.1.4) (individual number field) | string | No |
| 6 | ManufacturerErrorCode | Manufacturer error code (6.1.5) | string | No |
| 7 | PowerLimit | Power limit (6.1.6) | integer | No |
| 8 | FaultStatus | Fault status (6.1.7) | string | Yes |
| 9 | FaultContent | Fault content (6.1.8) | hexBinary | No |
| 10 | MakerCode | Manufacturer code (6.1.9) | string | No |
| 11 | PlaceOfBuisinessCode | Place-of-business code (6.1.10) | string | No |
| 12 | EnergySavingStatus | Energy saving status (6.1.11) | string | No |
| 13 | PresentTime | P resent time (6.1.12) | time | No |
| 14 | PresentDate | Present date (6.1.13) | date | No |
| 15 | CumulatedRunTimeValue | Cumulative run-time (6.1.14) | hexBinary | No |
| 16 | EmergencyStatus | Emergency status | string | Yes |

The details of each state variable are shown below.

※ See 6.1 for the details of the state variables common to devices.

### 15.3.1. Emergency Status (EmergencyStatus)

Table15.3.1-1 shows the setting values for the “Emergency Status (EmergencyStatus).”

**Table 15.3.1-1: Setting values for the “Emergency Status(EmergencyStatus)”**

| | Value | Meaning | Relationship with ECHONET Specification Values |
|---|---|---|---|
| 1 | Found | Emergency Status YES | 0x41(Emergency Status YES) |
| 2 | NotFound | Emergency Status NO | 0x42(Emergency Status NO) |

## 15.4. Services

The services of emergency button devices are shown below.

**Table 15.4-1: Service offered by emergency button devices**

| | Service Name | Description | |
|---|---|---|---|
| 1 | GetOperationStatus | Obtains the operation status | (6.2.1) |
| 2 | SetOperationStatus | Sets the operation status | (6.2.2) |
| 3 | GetInstallationLocation | Obtains the installation location | (6.2.3) |
| 4 | SetInstallationLocation | Sets the installation location | (6.2.4) |
| 5 | GetSpecVersionInfoCode | Obtains the specification version information | (6.2.5) |
| 6 | GetLowerNodeIdCode | Obtains the node identification code (lower-layer communication software ID field) | (6.2.6) |
| 7 | GetNodeIdCode | Obtains the node identification code (individual number field) | (6.2.7) |
| 8 | GetManufacturerErrorCode | Obtains the manufacturer error code | (6.2.8) |
| 9 | ReadPowerLimit | Obtains the power limit | (6.2.9) |
| 10 | WritePowerLimit | Sets the power limit | (6.2.10) |
| 11 | GetFaultStatus | Obtains the fault status | (6.2.11) |
| 12 | GetFaultContent | Obtains the fault content | (6.2.12) |
| 13 | GetMakerCode | Obtains the manufacturer code | (6.2.13) |
| 14 | GetPlaceOfBuisinessCode | Obtains the place-of-business code | (6.2.14) |
| 15 | GetEnergySavingStatus | Obtains the energy saving status | (6.2.15) |
| 16 | SetEnergySavingStatus | Sets the energy saving status | (6.2.16) |
| 17 | GetPresentTime | Obtains the present time | (6.2.17) |
| 18 | SetPresentTime | Sets the present time | (6.2.18) |
| 19 | GetPresentDate | Obtains the present date | (6.2.19) |
| 20 | SetPresentDate | Sets the present date | (6.2.20) |
| 21 | GetCumulatedRunTimeValue | Obtains the cumulative run-time | (6.2.21) |
| 24 | GetEmergencyStatus | Obtains the Emergency Status | |
| 25 | ResetEmergencyStatus | Reset the Emergency Status | |
| 26 | GetIcon | Obtains the icon | |

The details of each service are shown below.

※ See 6.2 for the details of the services common to devices

### 15.4.1. GetEmergencyStatus

(1)Description

Obtains the Emergency Status 状態

(2) Service type identifier

http://www.pucc.jp/2007/09/Device/Echonet/EmergencyButton/Service/GetEmergencyStatus

(3) Input parameter

None

(4) Output parameter

**Table 15.4.1-1: Output parameter of the GetEmergencyStatus service**

| | parameter | Related State Variable | Remarks |
|---|---|---|---|
| 1 | CurrentEmergencyStatus | EmergencyStatus | See also 15.3.1 |

### 15.4.2. ResetEmergencyStatus

(1)Description

Reset the Emergency Status

(2) Service type identifier

http://www.pucc.jp/2007/09/Device/Echonet/EmergencyButton/Service/ResetEmergencyStatus

(3) Input parameter

None

(4) Output parameter

None

### 15.4.3. GetIcon

(1)Description

Obtains the icon

(2) Service type identifier

http://www.pucc.jp/2007/09/Device/Echonet/EmergencyButton/Service/GetIcon

(3) Input parameter

**Table 15.4.3-1: Input parameter of the GetIcon service**

| | Parameter | Related State Variable | Data Type | Remarks |
|---|---|---|---|---|
| 1 | url | - | string | Sets the URL of an icon image |

(4) Output parameter

**Table 15.4.3-2: Output parameters of the GetIcon service**

| | Parameter | Related State Variable | Data Type | Remarks |
|---|---|---|---|---|
| 1 | mimeType | - | string | Sets the MIME type of an icon image |
| 2 | base64Data | - | base64Binary | Sets the data of the BASE64-encoded image of an icon |

## 15.5. Metadata

### 15.5.1. Device Metadata

The metadata template of emergency button devices is shown below.

*Italic letters in red*: differ by the entity of each emergency button device

```
<?xml version="1.0"?>
<Device    type="http://www.pucc.jp/2007/09/Device/Echonet/EmergencyButton"
                id="global unique ID for this device"    name="short user-friendly title">
  <Specification>
    <URLBase>base URL for all relative URLs</URLBase>
    <Manufacturer>manufacturer name</Manufacturer>
    <ManufacturerURL>URL to manufacturer site</ManufacturerURL>
    <ManufactureDate>date of manufacture</ManufactureDate>
    <ModelDescription>long user-friendly title</ModelDescription>
    <ModelName>model name</ModelName>
    <ModelNumber>model number</ModelNumber>
    <ModelURL>URL to model site</ModelURL>
    <SerialNumber>manufacturer's serial number</SerialNumber>
    <UDN>uuid:UUID</UDN>
    <UPC>Universal Product Code</UPC>
    <IconList>
      <Icon>
        <Mimetype>image/format</Mimetype>
        <Width>horizontal pixels</width>
        <Height>vertical pixels</height>
        <Depth>color depth</depth>
        <Url>URL to icon</Url>
      </icon>
      XML to declare other icons, if any, go here
    </IconList>
  </Specification>
  <StateVariableList>
          :
      (Insert the metadata definition of the state variables common to devices shown in 6.3.1)
          :
    <StateVariable    name="EmergencyStatus"    datatype="string"    sendEvents="yes">
      <AllowedValueList>
        <AllowedValue>Found</AllowedValue>
        <AllowedValue>NotFound</AllowedValue>
      </AllowedValueList>
    </StateVariable>
```

```
  </StateVariableList>
  <ServiceList>
          :
       (Insert the metadata definition of the services common to devices shown in 6.3.2)
          :
    <Service   name="GetEmergencyStatus"
      type="http://www.pucc.jp/2007/09/Device/Echonet/EmergencyButton/Service/GetEmergencyStatus"/>
    <Service   name="ResetEmergencyStatus"
      type="http://www.pucc.jp/2007/09/Device/Echonet/EmergencyButton/Service/ResetEmergencyStatus
"/>
    <Service   name="GetIcon"
      type="http://www.pucc.jp/2007/09/Device/Echonet/ EmergencyButton/Service/GetIcon/>
  </ServiceList>
  <PrimitiveDeviceList/>
</Device>
```

### 15.5.2. Service Metadata

The metadata templates of the services that emergency button devices have are shown below.

※ See 6.3.2.for the metadata of the services common to devices.

(1)GetEmergencyStatus service metadata

```
<?xml version="1.0" ?>
<Service
      type="http://www.pucc.jp/2007/09/Device/Echonet/EmergencyButton/Service/GetEmergencyStatus"
      name="GetEmergencyStatus">
   <InputParameterList/>
   <OutputParameterList>
      <Parameter name="CurrentEmergencyStatus" relatedStateVariable="EmergencyStatus"/>
   </OutputParameterList>
</Service>
```

(2)ResetEmergencyStatus service metadata

```
<?xml version="1.0" ?>
<Service
      type="http://www.pucc.jp/2007/09/Device/Echonet/EmergencyButton/Service/ResetEmergencyStatus"
      name=" ResetEmergencyStatus">
   <InputParameterList/>
   <OutputParameterList/>
</Service>
```

(3)GetIcon service metadata

```
<?xml version="1.0" ?>
<Service
      type="http://www.pucc.jp/2007/09/Device/Echonet/EmergencyButton/Service/GetIcon" name="GetIcon">
   <InputParameterList>
      <Parameter name="url" datatype="string"/>
   </InputParameterList>
   <OutputParameterList>
      <Parameter name="mimeType" datatype="string"/>
      <Parameter name="base64Data" datatype="base64Binary"/>
   </OutputParameterList>
</Service>
```

# 16. Instantaneous Water Heater Devices

This chapter defines the PUCC metadata for instantaneous water heater devices.

## 16.1. Device Model

Instantaneous water heater devices adopt the device model shown below.

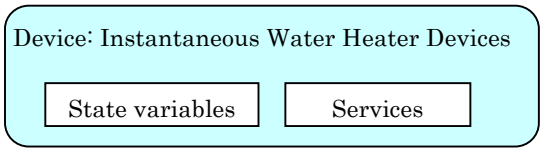


**Figure 16.1-1. Instantaneous water heater device model**

## 16.2. Device Type

The device type identifier of instantaneous water heater devices is shown below.

http://www.pucc.jp/2007/09/Device/Echonet/InstantaneousWaterHeater

## 16.3. State Variables

The state variables of instantaneous water heater devices are shown below.

**Table 16.3-1: State variables of instantaneous water heater devices (1/2)**

| | State Variable Name | Description | Data Type | Event Generation (Yes/No) |
|---|---|---|---|---|
| 1 | OperationStatus | Operation status (6.1.1) | string | Yes |
| 2 | InstallationLocation | Installation location (6.1.2) | hexBinary | Yes |
| 3 | SpecVersionInfoCode | Specification version information (6.1.3) | string | No |
| 4 | LowerNodeIdCode | Node identification code (6.1.4) (lower-layer communication software ID field) | string | No |
| 5 | NodeIdCode | Node identification code (6.1.4) (individual number field) | string | No |
| 6 | ManufacturerErrorCode | Manufacturer error code (6.1.5) | string | No |
| 7 | PowerLimit | Power limit (6.1.6) | integer | No |
| 8 | FaultStatus | Fault status (6.1.7) | string | Yes |
| 9 | FaultContent | Fault content (6.1.8) | hexBinary | No |
| 10 | MakerCode | Manufacturer code (6.1.9) | string | No |
| 11 | PlaceOfBuisinessCode | Place-of-business code (6.1.10) | string | No |
| 12 | EnergySavingStatus | Energy saving status (6.1.11) | string | No |
| 13 | PresentTime | P resent time (6.1.12) | time | No |
| 14 | PresentDate | Present date (6.1.13) | date | No |
| 15 | CumulatedRunTimeValue | Cumulative run-time (6.1.14) | hexBinary | No |
| 16 | BoilerBurningStatus | Boiler burning status | string | No |
| 17 | HotWaterTemp | Hot water temperature setting value | integer | No |

| | | | | |
|---|---|---|---|---|
| 18 | WarmerStatus | Warmer Status | string | No |
| 19 | AutoDurationTimeSet | Automatic operation duration time setting value | hexBinary | No |
| 20 | AutoRemainTimeSet | Automatic operation remaining time setting value | hexBinary | No |
| 21 | BathTemp | Bath temperature setting value | integer | No |
| 22 | BathBoilerBurningStatus | Bath boiler burning status | string | No |
| 23 | BathAutoModeStatus | Bath automatic mode status | string | No |

**Table 16.3-1: State variables of Instantaneous water heater devices (2/2)**

| | State Variable Name | Description | Data Type | Event Generation (Yes/No) |
|---|---|---|---|---|
| 24 | BathReheatStatus | Bath reheat status | string | No |
| 25 | BathWaterSupplyStatus | Bath water supply status | string | No |
| 26 | TepidBathWaterStatus | Tepid bath water status | string | No |
| 27 | BathWater1Volume | Bath water 1 volume | integer | No |
| 28 | BathWaterLevel | Bath water 2 volume | string | No |
| 29 | BathHotWater3Volume | Bath water 3 volume | integer | No |
| 30 | BathPriorityStatus | Bath priority status | string | No |
| 31 | ShowerWaterSupplyStatus | Shower water supply status | string | No |
| 32 | KitchenWaterSupplyStatus | Kitchen water supply status | string | No |
| 33 | WarmerOnTimerStatus | Warmer ON timer reservation status | string | No |
| 34 | WarmerOnTimerTime | Warmer ON timer setting time value | time | No |
| 35 | BathOnTimerStatus | Bath automatic ON timer reservation status | string | No |
| 36 | BathOnTimerAbsoluteTime | Bath automatic ON timer setting time value | time | No |
| 37 | BathOnTimerRelativeTime | Bath automatic ON timer setting relative time value | time | No |

The details of each state variable are shown below.

※ See 6.1 for the details of the state variables common to devices.

### 16.3.1. Boiler Burning Status (BoilerBurningStatus)

Table16.3.1-1 shows the setting values for the "Boiler burning status (BoilerBurningStatus)."

**Table 16.3.1-1: Setting values for the "Boiler burning status(BoilerBurningStatus)"**

| | Value | Meaning | Relationship with ECHONET Specification Values |
|---|---|---|---|
| 1 | ON | Boiler burning status YES | 0x41(Boiler burning status YES) |
| 2 | OFF | Boiler burning status NO | 0x42(Boiler burning status NO) |

### 16.3.2. Hot Water Temperature Setting Value (HotWaterTemp)

This is an integral value from 0 to 100.

### 16.3.3. Warmer Status (WarmerStatus)

Table16.3.3-1 shows the setting values for the "Warmer Status (WarmerStatus)."

**Table 16.3.3-1: Setting values for the "Warmer Status(WarmerStatus)"**

| | Value | Meaning | Relationship with ECHONET Specification Values |
|---|---|---|---|
| 1 | ON | Warmer operation ON | 0x41(Warmer operation ON) |
| 2 | OFF | Warmer operation OFF | 0x42(Warmer operation OFF) |

### 16.3.4. Automatic operation duration time setting value (AutoDurationTimeSet)

This is a character string of a 4-digit hexadecimal number.

The first 2-digits are set to a value from 0x00 to 0x17 (, which corresponds to 0 to 23).

The last 2-digits are set to a value from 0x00-0x3B (, which corresponds to 0 to 59).

0xFFFF is set for an infinite value.

### 16.3.5. Automatic Operation Remaining Time Setting Value (AutoRemainTimeSet)

This is a character string of a 4-digit hexadecimal number.

The first 2-digits are set to a value from 0x00 to 0x17 (, which corresponds to 0 to 23).

The last 2-digits are set to a value from 0x00-0x3B (, which corresponds to 0 to 59).

0xFFFF is set for an infinite value.

### 16.3.6. Bath temperature setting value (BathTemp)

This is an integral value from 0 to 100.

### 16.3.7. Bath boiler burning status (BathBoilerBurningStatus)

Table16.3.7-1 shows the setting values for the “Bath boiler burning status (BathBoilerBurningStatus).”

**Table 16.3.7-1: Setting values for the “Bath boiler burning status (BathBoilerBurningStatus)”**

| | Value | Meaning | Relationship with ECHONET Specification Values |
|---|---|---|---|
| 1 | ON | Burning status YES | 0x41(Burning status YES) |
| 2 | OFF | Burning status NO | 0x42(Burning status NO) |

### 16.3.8. Bath automatic mode status (BathAutoModeStatus)

Table16.3.8-1 shows the setting values for the “Bath automatic mode status(BathAutoModeStatus).”

**Table 16.3.8-1: Setting values for the “Bath automatic mode status(BathAutoModeStatus)”**

| | Value | Meaning | Relationship with ECHONET Specification Values |
|---|---|---|---|
| 1 | ON | Automatic ON | 0x41(Automatic ON) |
| 2 | OFF | Automatic OFF | 0x42(Automatic OFF) |

### 16.3.9. Bath reheat status (BathReheatStatus)

Table16.3.9-1 shows the setting values for the “Bath reheat status (BathReheatStatus).”

**Table 16.3.9-1: Setting values for the “Bath reheat status(BathReheatStatus)”**

| | Value | Meaning | Relationship with ECHONET Specification Values |
|---|---|---|---|
| 1 | ON | Reheat ON | 0x41(Reheat ON) |

| | | | |
|---|---|---|---|
| 2 | OFF | Reheat OFF | 0x42(Reheat OFF) |

### 16.3.10. Bath water supply status (BathWaterSupplyStatus)

Table16.3.10-1 shows the setting values for the "Bath water supply status(BathWaterSupplyStatus)."

**Table 16.3.10-1: Setting values for the "Bath water supply status (BathWaterSuppplyStatus)"**

| | Value | Meaning | Relationship with ECHONET Specification Values |
|---|---|---|---|
| 1 | ON | Water supply ON | 0x41(Water supply ON) |
| 2 | OFF | Water supply OFF | 0x42(Water supply OFF) |

### 16.3.11. Tepid bath water status (TapidBathWaterStatus)

Table16.3.11-1 shows the setting values for the "Tepid bath water status(TapidBathWaterStatus)."

**Table 16.3.11-1: Setting values for the "Tepid bath water status(TapidBathWaterStatus)"**

| | Value | Meaning | Relationship with ECHONET Specification Values |
|---|---|---|---|
| 1 | ON | Tepid bath water ON | 0x41(Tepid bath water ON) |
| 2 | OFF | Tepid bath water OFF | 0x42(Tepid bath water OFF) |

### 16.3.12. Bath water 1 volume (BathWater1Volume)

This is an integral value from 0 to 253.

### 16.3.13. Bath water 2 volume (BathWaterLevel)

Table16.3.13-1 shows the setting values for the "Bath water 2 volume (BathWaterLevel)."

**Table 16.3.13-1: Setting values for the "Bath water 2 volume(BathWaterLevel)"**

| | Value | Meaning | Relationship with ECHONET Specification Values |
|---|---|---|---|
| 1 | 1 | 1 | 0x31 |
| 2 | 2 | 2 | 0x32 |
| 3 | 3 | 3 | 0x33 |
| 4 | 4 | 4 | 0x34 |
| 5 | 5 | 5 | 0x35 |

| | | | |
|---|---|---|---|
| 6 | 6 | 6 | 0x36 |
| 7 | 7 | 7 | 0x37 |
| 8 | 8 | 8 | 0x38 |

### 16.3.14. Bath water 3 volume (BathHotWater3Volume)

This is an integral value from 0 to 6553.

### 16.3.15. Bath priority status (BathPriorityStatus)

Table16.3.15-1 shows the setting values for the "Bath priority status (BathPriorityStatus)."

**Table 16.3.15-1: Setting values for the "Bath priority status(BathPriorityStatus)"**

| | Value | Meaning | Relationship with ECHONET Specification Values |
|---|---|---|---|
| 1 | ON | Bath priority status ON | 0x41(Bath priority status ON) |
| 2 | OFF | Bath priority status OFF | 0x42(Bath priority status OFF) |

### 16.3.16. Shower water supply status (ShowerWaterSupplyStatus)

Table16.3.16-1 shows the setting values for the "Shower water supply status (ShowerWaterSupplyStatus)."

**Table 16.3.16-1: Setting values for the "Shower water supply status ShowerWaterSupplyStatus)"**

| | Value | Meaning | Relationship with ECHONET Specification Values |
|---|---|---|---|
| 1 | Supply | Shower water supply status YES | 0x41(Shower water supply status YES) |
| 2 | NotSupply | Shower water supply status NO | 0x42(Shower water supply status NO) |

### 16.3.17. Kitchen water supply status (KitchenWaterSupplyStatus)

Table16.3.17-1 shows the setting values for the "Kitchen water supply status (KitchenWaterSupplyStatus)."

**Table 16.3.17-1: Setting values for the "Kitchen water supply status(KitchenWaterSupplyStatus)"**

| | Value | Meaning | Relationship with ECHONET Specification Values |
|---|---|---|---|
| 1 | Supply | Kitchen water supply status YES | 0x41(Kitchen water supply status YES) |
| 2 | NotSupply | Kitchen water supply status NO | 0x42(Kitchen water supply status NO) |

### 16.3.18. Warmer On timer reservation status (WarmerOnTimerStatus)

Table16.3.18-1 shows the setting values for the "Warmer On timer reservation setting (WarmerOnTimerStatus)."

**Table 16.3.18-1: Setting values for the "Warmer On timer reservation setting (WarmerOnTimerStatus)"**

| | Value | Meaning | Relationship with ECHONET Specification Values |
|---|---|---|---|
| 1 | ON | Reservation ON | 0x41(Reservation ON) |
| 2 | OFF | Reservation OFF | 0x42(Reservation OFF) |

### 16.3.19. Warmer ON timer setting time value (WarmerOnTimerTime)

The present time is set as a character string of "HH-MM-SS" in the ISO8601 format. Note that the SS is fixed to 00.

### 16.3.20. Bath automatic ON timer reservation status (BathOnTimerStatus)

Table16.3.20-1 shows the setting values for the "Bath automatic ON timer reservation status (BathOnTimerStatus)."

**Table 16.3.20-1: Setting values for the "Bath automatic ON timer reservation status (BathOnTimerStatus)"**

| | Value | Meaning | Relationship with ECHONET Specification Values |
|---|---|---|---|
| 1 | ON | Reservation ON | 0x41(Reservation ON) |
| 2 | OFF | Reservation OFF | 0x42(Reservation OFF) |

### 16.3.21. Bath automatic ON timer setting time value (BathOnTimerAbsoluteTime)

The present time is set as a character string of "HH-MM-SS" in the ISO8601 format. Note that the SS is fixed to 00.

### 16.3.22. Bath automatic ON timer setting relative time value (BathOnTimerRelativeTime)

The present time is set as a character string of "HH-MM-SS" in the ISO8601 format. Note that the SS is fixed to 00.

## 16.4. Services

The services of instantaneous water heater devices are shown below.

**Table 16.4-1: Services offered by Instantaneous water heater devices (1/3)**

| | Service Name | Description | |
|---|---|---|---|
| 1 | GetOperationStatus | Obtains the operation status | (6.2.1) |
| 2 | SetOperationStatus | Sets the operation status | (6.2.2) |
| 3 | GetInstallationLocation | Obtains the installation location | (6.2.3) |
| 4 | SetInstallationLocation | Sets the installation location | (6.2.4) |
| 5 | GetSpecVersionInfoCode | Obtains the specification version information | (6.2.5) |
| 6 | GetLowerNodeIdCode | Obtains the node identification code (lower-layer communication software ID field) | (6.2.6) |
| 7 | GetNodeIdCode | Obtains the node identification code (individual number field) | (6.2.7) |
| 8 | GetManufacturerErrorCode | Obtains the manufacturer error code | (6.2.8) |
| 9 | ReadPowerLimit | Obtains the power limit | (6.2.9) |
| 10 | WritePowerLimit | Sets the power limit | (6.2.10) |
| 11 | GetFaultStatus | Obtains the fault status | (6.2.11) |
| 12 | GetFaultContent | Obtains the fault content | (6.2.12) |
| 13 | GetMakerCode | Obtains the manufacturer code | (6.2.13) |
| 14 | GetPlaceOfBuisinessCode | Obtains the place-of-business code | (6.2.14) |
| 15 | GetEnergySavingStatus | Obtains the energy saving status | (6.2.15) |
| 16 | SetEnergySavingStatus | Sets the energy saving status | (6.2.16) |
| 17 | GetPresentTime | Obtains the present time | (6.2.17) |
| 18 | SetPresentTime | Sets the present time | (6.2.18) |
| 19 | GetPresentDate | Obtains the present date | (6.2.19) |
| 20 | SetPresentDate | Sets the present date | (6.2.20) |
| 21 | GetCumulatedRunTimeValue | Obtains the cumulative run-time | (6.2.21) |
| 22 | GetBoilerBurningStatus | Boiler burning status | |
| 23 | ReadHotWaterTemp | Obtains the hot water temperature setting value | |
| 24 | WriteHotWaterTemp | Sets the hot water temperature setting value | |
| 25 | GetWarmerStatus | Obtains the warmer Status | |
| 26 | SetWarmerStatus | Sets the warmer Status | |

**Table 16.4-1: Services offered by instantaneous water heater devices (2/3)**

| | Service Name | Description |
|---|---|---|
| 27 | GetAutoDurationTimeSet | Obtains the automatic operation duration time setting value |
| 28 | SetAutoDurationTimeSet | Sets the automatic operation duration time setting value |
| 39 | GetAutoRemainTimeSet | Obtains the automatic operation remaining time setting value |
| 40 | ReadBathTemp | Obtains the Bath temperature setting value |
| 41 | WriteBathTemp | Sets the bath temperature setting value |
| 42 | GetBathBoilerBurningStatus | Obtains the bath boiler burning status |
| 43 | GetBathAutoModeStatus | Obtains the bath automatic mode status |
| 44 | SetBathAutoModeStatus | Sets the bath automatic mode status |
| 45 | GetBathReheatStatus | Obtains the Bath reheat status |
| 46 | SetBathReheatStatus | Sets the bath reheat status |
| 47 | GetBathWaterSupplyStatus | Obtains the bath water supply status |
| 48 | SetBathWaterSupplyStatus | Sets the bath water supply status |
| 49 | GetTepidBathWaterStatus | Obtains the Tepid bath water status |
| 50 | SetTepidBathWaterStatus | Sets the tepid bath water status |
| 51 | ReadBathWater1Volume | Obtains the Bath water 1 volume |
| 52 | WriteBathWater1Volume | Sets the bath water 1 volume |
| 53 | GetBathWaterLevel | Obtains the Bath water 2 volume |
| 54 | SetBathWaterLevel | Sets the bath water 2 volume |
| 55 | ReadBathHotWater3Volume | Obtains the Bath water 3 volume |
| 56 | WriteBathHotWater3Volume | Sets the bath water 3 volume |
| 57 | GetBathPriorityStatus | Obtains the Bath priority status |
| 58 | SetBathPriorityStatus | Sets the bath priority status |
| 50 | GetShowerWaterSupplyStatus | Obtains the Shower water supply status |
| 59 | GetKitchenWaterSupplyStatus | Obtains the Kitchen water supply status |
| 60 | GetWarmerOnTimerStatus | Obtains the Warmer ON timer reservation status |
| 61 | SetWarmerOnTimerStatus | Sets the warmer On timer reservation setting |
| 62 | GetWarmerOnTimerTime | Obtains the Warmer ON timer setting time value |
| 63 | SetWarmerOnTimerTime | Sets the warmer ON timer setting time value |
| 64 | GetBathOnTimerStatus | Obtains the Bath automatic ON timer reservation status |
| 65 | SetBathOnTimerStatus | Sets the bath automatic ON timer reservation status |
| 66 | GetBathOnTimerAbsoluteTime | Obtains the Bath automatic ON timer setting time value |

**Table 16.4-1: Services offered by instantaneous water heater devices (3/3)**

| | Service Name | Description |
|---|---|---|
| 67 | SetBathOnTimerAbsoluteTime | Sets the bath automatic ON timer setting time value |
| 68 | GetBathOnTimerRelativeTime | Obtains the Bath automatic ON timer setting relative time value |
| 69 | SetBathOnTimerRelativeTime | Obtains the Bath automatic ON timer setting relative time value |
| 70 | GetIcon | Obtains the icon |

The details of each service are shown below.

※ See 6.2 for the details of the services common to devices

### 16.4.1. GetBoilerBurningStatus

(1)Description

Obtains the Boiler burning status

(2) Service type identifier

http://www.pucc.jp/2007/09/Device/Echonet/InstantaneousWaterHeater/Service/GetBoilerBurningStatus

(3) Input parameter

None

(4) Output parameter

**Table 16.4.1-1: Output parameter of the GetBoilerBurningStatus service**

| | parameter | Related State Variable | Remarks |
|---|---|---|---|
| 1 | CurrentBoilerBurningStatus | BoilerBurningStatus | See also 16.3.1 |

### 16.4.2. ReadHotWaterTemp

(1)Description

Obtains the hot water temperature setting value

(2) Service type identifier

http://www.pucc.jp/2007/09/Device/Echonet/InstantaneousWaterHeater/Service/ReadHotWaterTemp

(3) Input parameter

None

(4) Output parameter

**Table 16.4.2-1: Output parameter of the ReadHotWaterTemp service**

| | parameter | Related State Variable | Remarks |
|---|---|---|---|
| 1 | CurrentHotWaterTemp | HotWaterTemp | See also 16.3.2 |

### 16.4.3. WriteHotWaterTemp

(1)Description

Sets the hot water temperature setting value

(2) Service type identifier

http://www.pucc.jp/2007/09/Device/Echonet/InstantaneousWaterHeater/Service/WriteHotWaterTemp

(3) Input parameter

**Table 16.4.3-1: Input parameter of the WriteHotWaterTemp service**

| | parameter | Related State Variable | Remarks |
|---|---|---|---|
| 1 | NewHotWaterTemp | HotWaterTemp | See also 16.3.2 |

(4) Output parameter

None

### 16.4.4. GetWarmerStatus

(1)Description

Obtains the warmer Status

(2) Service type identifier

http://www.pucc.jp/2007/09/Device/Echonet/InstantaneousWaterHeater/Service/GetWarmerStatus

(3) Input parameter

None

(4) Output parameter

**Table 16.4.4-1: Output parameter of the GetWarmerStatus service**

| | parameter | Related State Variable | Remarks |
|---|---|---|---|
| 1 | CurrentWarmerStatus | WarmerStatus | See also 16.3.3 |

### 16.4.5. SetWarmerStatus

(1)Description

Sets the warmer Status

(2) Service type identifier

http://www.pucc.jp/2007/09/Device/Echonet/InstantaneousWaterHeater/Service/SetWarmerStatus

(3) Input parameter

**Table 16.4.5-1: Input parameter of the SetWarmerStatus service**

| | parameter | Related State Variable | Remarks |
|---|---|---|---|
| 1 | NewWarmerStatus | WarmerStatus | See also 16.3.3 |

(4) Output parameter

None

### 16.4.6. GetAutoDurationTimeSet

(1)Description

Obtains the automatic operation duration time setting value

(2) Service type identifier

http://www.pucc.jp/2007/09/Device/Echonet/InstantaneousWaterHeater/Service/GetAutoDurationTimeSet

(3) Input parameter

None

(4) Output parameter

**Table 16.4.6-1: Output parameter of the GetAutoDurationTimeSet service**

| | parameter | Related State Variable | Remarks |
|---|---|---|---|
| 1 | CurrentAutoDurationTimeSet | AutoDurationTimeSet | See also 16.3.4 |

### 16.4.7. SetAutoDurationTimeSet

(1)Description

Sets the automatic operation duration time setting value

(2) Service type identifier

http://www.pucc.jp/2007/09/Device/Echonet/InstantaneousWaterHeater/Service/SetAutoDurationTimeSet

(3) Input parameter

**Table 16.4.7-1: Input parameter of the AutoDurationTimeSet service**

| | parameter | Related State Variable | Remarks |
|---|---|---|---|
| 1 | NewAutoDurationTimeSet | AutoDurationTimeSet | See also 16.3.4 |

(4) Output parameter

None

### 16.4.8. GetAutoRemainTimeSet

(1)Description

Obtains the automatic operation remaining time setting value

(2) Service type identifier

http://www.pucc.jp/2007/09/Device/Echonet/InstantaneousWaterHeater/Service/GetAutoRemainTimeSet

(3) Input parameter

None

(4) Output parameter

**Table 16.4.8-1: Output parameter of the GetAutoRemainTimeSet service**

| | parameter | Related State Variable | Remarks |
|---|---|---|---|
| 1 | CurrentAutoRemainTimeSet | AutoRemainTimeSet | See also 16.3.5 |

### 16.4.9. ReadBathTemp

(1)Description

Obtains the bath temperature setting value

(2) Service type identifier

http://www.pucc.jp/2007/09/Device/Echonet/InstantaneousWaterHeater/Service/ReadBathTemp

(3) Input parameter

None

(4) Output parameter

**Table 16.4.9-1: Output parameter of the ReadBathTemp service**

| | parameter | Related State Variable | Remarks |
|---|---|---|---|
| 1 | CurrentBathTemp | BathTemp | See also 16.3.6 |

### 16.4.10. WriteBathTemp

(1)Description

Sets the bath temperature setting value

(2) Service type identifier

http://www.pucc.jp/2007/09/Device/Echonet/InstantaneousWaterHeater/Service/WriteBathTemp

(3) Input parameter

**Table 16.4.10-1: Input parameter of the WriteBathTemp service**

| | parameter | Related State Variable | Remarks |
|---|---|---|---|
| 1 | NewBathTemp | BathTemp | See also 16.3.6 |

(4) Output parameter

None

### 16.4.11. GetBathBoilerBurningStatus

(1)Description

Obtains the bath boiler burning status

(2) Service type identifier

http://www.pucc.jp/2007/09/Device/Echonet/InstantaneousWaterHeater/Service/GetBathBoilerBurningStatus

(3) Input parameter

None

(4) Output parameter

**Table 16.4.11-1: Output parameter of the GetBathBoilerBurningStatus service**

| | parameter | Related State Variable | Remarks |
|---|---|---|---|
| 1 | CurrentBathBoilerBurningStatus | BathBoilerBurningStatus | See also 16.3.7 |

### 16.4.12. GetBathAutoModeStatus

(1)Description

Obtains the bath automatic mode status

(2) Service type identifier

http://www.pucc.jp/2007/09/Device/Echonet/InstantaneousWaterHeater/Service/GetBathAutoModeStatus

(3) Input parameter

None

(4) Output parameter

**Table 16.4.12-1: Output parameter of the GetBathAutoModeStatus service**

| | parameter | Related State Variable | Remarks |
|---|---|---|---|
| 1 | CurrentBathAutoModeStatus | BathAutoModeStatus | See also 16.3.8 |

### 16.4.13. SetBathAutoModeStatus

(1)Description

Sets the bath automatic mode status

(2) Service type identifier

http://www.pucc.jp/2007/09/Device/Echonet/InstantaneousWaterHeater/Service/SetBathAutoModeStatus

(3) Input parameter

**Table 16.4.13-1: Input parameter of the SetBathAutoModeStatus service**

| | parameter | Related State Variable | Remarks |
|---|---|---|---|
| 1 | NewBathAutoModeStatus | BathAutoModeStatus | See also 16.3.8 |

(4) Output parameter

None

### 16.4.14. GetBathReheatStatus

(1)Description

Obtains the bath reheat status

(2) Service type identifier

http://www.pucc.jp/2007/09/Device/Echonet/InstantaneousWaterHeater/Service/GetBathReheatStatus

(3) Input parameter

None

(4) Output parameter

**Table 16.4.14-1: Output parameter of the GetBathReheatStatus service**

| | parameter | Related State Variable | Remarks |
|---|---|---|---|
| 1 | CurrentBathReheatStatus | BathReheatStatus | See also 16.3.9 |

### 16.4.15. SetBathReheatStatus

(1)Description

Sets the bath reheat status

(2) Service type identifier

http://www.pucc.jp/2007/09/Device/Echonet/InstantaneousWaterHeater/Service/SetBathReheatStatus

(3) Input parameter

**Table 16.4.15-1: Input parameter of the SetBathReheatStatus service**

| | parameter | Related State Variable | Remarks |
|---|---|---|---|
| 1 | NewBathReheatStatus | BathReheatStatus | See also 16.3.9 |

(4) Output parameter

None

### 16.4.16. GetBathWaterSupplyStatus

(1)Description

Obtains the bath water supply status

(2) Service type identifier

http://www.pucc.jp/2007/09/Device/Echonet/InstantaneousWaterHeater/Service/GetBathWaterSupplyStatus

(3) Input parameter

None

(4) Output parameter

**Table 16.4.16-1: Output parameter of the GetBathWaterSupplyStatus service**

| | parameter | Related State Variable | Remarks |
|---|---|---|---|
| 1 | CurrentBathWaterSupplyStatus | BathWaterSupplyStatus | See also 16.3.10 |

### 16.4.17. SetBathWaterSupplyStatus

(1)Description

Sets the bath water supply status

(2) Service type identifier

http://www.pucc.jp/2007/09/Device/Echonet/InstantaneousWaterHeater/Service/SetBathWaterSupplyStatus

(3) Input parameter

**Table 16.4.17-1: Input parameter of the SetBathWaterSupplyStatus service**

| | parameter | Related State Variable | Remarks |
|---|---|---|---|
| 1 | NewBathWaterSupplyStatus | BathWaterSupplyStatus | See also 16.3.10 |

(4) Output parameter

None

### 16.4.18. GetTepidBathWaterStatus

(1)Description

Obtains the tepid bath water status

(2) Service type identifier

http://www.pucc.jp/2007/09/Device/Echonet/InstantaneousWaterHeater/Service/GetTepidBathWaterStatus

(3) Input parameter

None

(4) Output parameter

**Table 16.4.18-1: Output parameter of the GetTepidBathWaterStatus service**

| | parameter | Related State Variable | Remarks |
|---|---|---|---|
| 1 | CurrentTepidBathWaterStatus | TepidBathWaterStatus | See also 16.3.11 |

### 16.4.19. SetTepidBathWaterStatus

(1)Description

Sets the tepid bath water status

(2) Service type identifier

http://www.pucc.jp/2007/09/Device/Echonet/InstantaneousWaterHeater/Service/SetTepidBathWaterStatus

(3) Input parameter

**Table 16.4.19-1: Input parameter of the SetTepidBathWaterStatus service**

| | parameter | Related State Variable | Remarks |
|---|---|---|---|
| 1 | NewTepidBathWaterStatus | TepidBathWaterStatus | See also 16.3.11 |

(4) Output parameter

None

### 16.4.20. ReadBathWater1Volume

(1)Description

Obtains the bath water 1 volume

(2) Service type identifier

http://www.pucc.jp/2007/09/Device/Echonet/InstantaneousWaterHeater/Service/ReadBathWater1Volume

(3) Input parameter

None

(4) Output parameter

**Table 16.4.20-1: Output parameter of the ReadBathWater1Volume service**

| | parameter | Related State Variable | Remarks |
|---|---|---|---|
| 1 | CurrentBathWater1Volume | BathWater1Volume | See also 16.3.12 |

### 16.4.21. WriteBathWater1Volume

(1)Description

Sets the bath water 1 volume

(2) Service type identifier

http://www.pucc.jp/2007/09/Device/Echonet/InstantaneousWaterHeater/Service/WriteBathWater1Volume

(3) Input parameter

**Table 16.4.21-1: Input parameter of the WriteBathWater1Volume service**

| | parameter | Related State Variable | Remarks |
|---|---|---|---|
| 1 | NewBathWater1Volume | BathWater1Volume | See also 16.3.12 |

(4) Output parameter

None

### 16.4.22. GetBathWaterLevel

(1)Description

Obtains the bath water 2 volume

(2) Service type identifier

http://www.pucc.jp/2007/09/Device/Echonet/InstantaneousWaterHeater/Service/GetBathWaterLevel

(3) Input parameter

None

(4) Output parameter

**Table 16.4.22-1: Output parameter of the GetBathWaterLevel service**

| | parameter | Related State Variable | Remarks |
|---|---|---|---|
| 1 | CurrentBathWaterLevel | BathWaterLevel | See also 16.3.13 |

### 16.4.23. SetBathWaterLevel

(1)Description

Sets the bath water 2 volume

(2) Service type identifier

http://www.pucc.jp/2007/09/Device/Echonet/InstantaneousWaterHeater/Service/SetBathWaterLevel

(3) Input parameter

**Table 16.4.23-1: Input parameter of the SetBathWaterLevel service**

| | parameter | Related State Variable | Remarks |
|---|---|---|---|
| 1 | NewBathWaterLevel | BathWaterLevel | See also 16.3.13 |

(4) Output parameter

None

### 16.4.24. ReadBathHotWater3Volume

(1)Description

Obtains the bath water 3 volume

(2) Service type identifier

http://www.pucc.jp/2007/09/Device/Echonet/InstantaneousWaterHeater/Service/ReadBathHotWater3Volume

(3) Input parameter

None

(4) Output parameter

**Table 16.4.24-1: Output parameter of the ReadBathHotWater3Volume service**

| | parameter | Related State Variable | Remarks |
|---|---|---|---|
| 1 | CurrentBathHotWater3Volume | BathHotWater3Volumel | See also 16.3.14 |

### 16.4.25. WriteBathHotWater3Volume

(1)Description

Sets the bath water 3 volume

(2) Service type identifier

http://www.pucc.jp/2007/09/Device/Echonet/InstantaneousWaterHeater/Service/WriteBathHotWater3Volume

(3) Input parameter

**Table 16.4.25-1: Input parameter of the WriteBathHotWater3Volume service**

| | parameter | Related State Variable | Remarks |
|---|---|---|---|
| 1 | NewBathHotWater3Volume | BathHotWater3Volumel | See also 16.3.14 |

(4) Output parameter

None

### 16.4.26. GetBathPriorityStatus

(1)Description

Obtains the bath priority status

(2) Service type identifier

http://www.pucc.jp/2007/09/Device/Echonet/InstantaneousWaterHeater/Service/GetBathPriorityStatus

(3) Input parameter

None

(4) Output parameter

**Table 16.4.26-1: Output parameter of the GetBathPriorityStatus service**

| | parameter | Related State Variable | Remarks |
|---|---|---|---|
| 1 | CurrentBathPriorityStatus | BathPriorityStatus | See also 16.3.15 |

### 16.4.27. SetBathPriorityStatus

(1)Description

Bath priority status

(2) Service type identifier

http://www.pucc.jp/2007/09/Device/Echonet/InstantaneousWaterHeater/Service/SetBathPriorityStatus

(3) Input parameter

**Table 16.4.27-1: Input parameter of the SetBathPriorityStatus service**

| | parameter | Related State Variable | Remarks |
|---|---|---|---|
| 1 | NewBathPriorityStatus | BathPriorityStatus | See also 16.3.15 |

(4) Output parameter

None

### 16.4.28. GetShowerWaterSupplyStatus

(1)Description

Obtains the shower water supply status

(2) Service type identifier

http://www.pucc.jp/2007/09/Device/Echonet/InstantaneousWaterHeater/Service/GetShowerWaterSupplyStatus

(3) Input parameter

None

(4) Output parameter

**Table 16.4.28-1: Output parameter of the GetShowerWaterSupplyStatus service**

| | parameter | Related State Variable | Remarks |
|---|---|---|---|
| 1 | CurrentShowerWaterSupplyStatus | ShowerWaterSupplyStatus | See also 16.3.16 |

### 16.4.29. GetKitchenWaterSupplyStatus

(1)Description

Obtains the kitchen water supply status

(2) Service type identifier

http://www.pucc.jp/2007/09/Device/Echonet/InstantaneousWaterHeater/Service/GetKitchenWaterSupplyStatus

(3) Input parameter

None

(4) Output parameter

**Table 16.4.29-1: Output parameter of the GetKitchenWaterSupplyStatus service**

| | parameter | Related State Variable | Remarks |
|---|---|---|---|
| 1 | CurrentKitchenWaterSupplyStatus | KitchenWaterSupplyStatus | See also 16.3.17 |

### 16.4.30. GetWarmerOnTimerStatus

(1)Description

Obtains the warmer On timer reservation setting

(2) Service type identifier

http://www.pucc.jp/2007/09/Device/Echonet/InstantaneousWaterHeater/Service/GetWarmerOnTimerStatus

(3) Input parameter

None

(4) Output parameter

**Table 16.4.30-1: Output parameter of the GetWarmerOnTimerStatus service**

| | parameter | Related State Variable | Remarks |
|---|---|---|---|
| 1 | CurrentWarmerOnTimerStatus | WarmerOnTimerStatus | See also 16.3.18 |

### 16.4.31. SetWarmerOnTimerStatus

(1)Description

Sets the warmer On timer reservation setting

(2) Service type identifier

http://www.pucc.jp/2007/09/Device/Echonet/InstantaneousWaterHeater/Service/SetWarmerOnTimerStatus

(3) Input parameter

**Table 16.4.31-1: Input parameter of the SetWarmerOnTimerStatus service**

| | parameter | Related State Variable | Remarks |
|---|---|---|---|
| 1 | NewWarmerOnTimerStatus | WarmerOnTimerStatus | See also 16.3.18 |

(4) Output parameter

None

### 16.4.32. GetWarmerOnTimerTime

(1)Description

Obtains the warmer ON timer setting time value

(2) Service type identifier

http://www.pucc.jp/2007/09/Device/Echonet/InstantaneousWaterHeater/Service/GetWarmerOnTimerTime

(3) Input parameter

None

(4) Output parameter

**Table 16.4.32-1: Output parameter of the GetWarmerOnTimerTime service**

| | parameter | Related State Variable | Remarks |
|---|---|---|---|
| 1 | CurrentWarmerOnTimerTime | WarmerOnTimerTime | See also 16.3.19 |

### 16.4.33. SetWarmerOnTimerTime

(1)Description

Sets the warmer ON timer setting time value

(2) Service type identifier

http://www.pucc.jp/2007/09/Device/Echonet/InstantaneousWaterHeater/Service/SetWarmerOnTimerTime

(3) Input parameter

**Table 16.4.33-1: Input parameter of the SetWarmerOnTimerTime service**

| | parameter | Related State Variable | Remarks |
|---|---|---|---|
| 1 | NewWarmerOnTimerTime | WarmerOnTimerTime | See also 16.3.19 |

(4) Output parameter

None

### 16.4.34. GetBathOnTimerStatus

(1)Description

Obtains the bath automatic ON timer reservation status

(2) Service type identifier

http://www.pucc.jp/2007/09/Device/Echonet/InstantaneousWaterHeater/Service/GetBathOnTimerStatus

(3) Input parameter

None

(4) Output parameter

**Table 16.4.34-1: Output parameter of the GetBathOnTimerStatus service**

| | parameter | Related State Variable | Remarks |
|---|---|---|---|
| 1 | CurrentBathOnTimerStatus | BathOnTimerStatus | See also 16.3.20 |

### 16.4.35. SetBathOnTimerStatus

(1)Description

Sets the bath automatic ON timer reservation status

(2) Service type identifier

http://www.pucc.jp/2007/09/Device/Echonet/InstantaneousWaterHeater/Service/SetBathOnTimerStatus

(3) Input parameter

**Table 16.4.35-1: Input parameter of the SetBathOnTimerStatus service**

| | parameter | Related State Variable | Remarks |
|---|---|---|---|
| 1 | NewBathOnTimerStatus | BathOnTimerStatus | See also 16.3.20 |

(4) Output parameter

None

### 16.4.36. GetBathOnTimerAbsoluteTime

(1)Description

Obtains the bath automatic ON timer setting time value

(2) Service type identifier

http://www.pucc.jp/2007/09/Device/Echonet/InstantaneousWaterHeater/Service/GetBathOnTimerAbsoluteTime

(3) Input parameter

None

(4) Output parameter

**Table 16.4.36-1: Output parameter of the GetBathOnTimerAbsoluteTime service**

| | parameter | Related State Variable | Remarks |
|---|---|---|---|
| 1 | CurrentBathOnTimerAbsoluteTime | BathOnTimerAbsoluteTime | See also 16.3.21 |

### 16.4.37. SetBathOnTimerAbsoluteTime

(1)Description

Sets the bath automatic ON timer setting time value

(2) Service type identifier

http://www.pucc.jp/2007/09/Device/Echonet/InstantaneousWaterHeater/Service/SetBathOnTimerAbsoluteTime

(3) Input parameter

**Table 16.4.37-1: Input parameter of the SetBathOnTimerAbsoluteTime service**

| | parameter | Related State Variable | Remarks |
|---|---|---|---|
| 1 | NewBathOnTimerAbsoluteTime | BathOnTimerAbsoluteTime | See also 16.3.21 |

(4) Output parameter

None

### 16.4.38. GetBathOnTimerRelativeTime

(1)Description

Obtains the bath automatic ON timer setting relative time value

(2) Service type identifier

http://www.pucc.jp/2007/09/Device/Echonet/InstantaneousWaterHeater/Service/GetBathOnTimerRelativeTime

(3) Input parameter

None

(4) Output parameter

**Table 16.4.38-1: Output parameter of the GetBathOnTimerRelativeTime service**

| | parameter | Related State Variable | Remarks |
|---|---|---|---|
| 1 | CurrentBathOnTimerRelativeTime | BathOnTimerRelativeTime | See also 16.3.22 |

### 16.4.39. SetBathOnTimerRelativeTime

(1)Description

Sets the bath automatic ON timer setting relative time value

(2) Service type identifier

http://www.pucc.jp/2007/09/Device/Echonet/InstantaneousWaterHeater/Service/SetBathOnTimerRelativeTime

(3) Input parameter

**Table 16.4.39-1: Input parameter of the SetBathOnTimerRelativeTime service**

| | parameter | Related State Variable | Remarks |
|---|---|---|---|
| 1 | NewtBathOnTimerRelativeTime | BathOnTimerRelativeTime | See also 16.3.22 |

(4) Output parameter

None

### 16.4.40. GetIcon

(1)Description

Obtains the icon

(2) Service type identifier

http://www.pucc.jp/2007/09/Device/ InstantaneousWaterHeater /Service/GetIcon

(3) Input parameter

**Table 16.4.40-1: Input parameter of the GetIcon service**

| | Parameter | Related State Variable | Data Type | Remarks |
|---|---|---|---|---|
| 1 | url | - | string | Sets the URL of an icon image |

(4) Output parameter

**Table 16.4.40-2: Output parameters of the GetIcon service**

| | Parameter | Related State Variable | Data Type | Remarks |
|---|---|---|---|---|
| 1 | mimeType | - | string | Sets the MIME type of an icon image |
| 2 | base64Data | - | base64Binary | Sets the data of the BASE64-encoded image of an icon |

## 16.5. Metadata

### 16.5.1. Device Metadata

The metadata template of instantaneous water heater devices is shown below.

*Italic letters in red*: differ by the entity of each instantaneous water heater device

```
<?xml version="1.0"?>
<Device    type="http://www.pucc.jp/2007/09/Device/Echonet/InstantaneousWaterHeater"
                id="global unique ID for this device"    name="short user-friendly title">
  <Specification>
    <URLBase>base URL for all relative URLs</URLBase>
    <Manufacturer>manufacturer name</Manufacturer>
    <ManufacturerURL>URL to manufacturer site</ManufacturerURL>
    <ManufactureDate>date of manufacture</ManufactureDate>
    <ModelDescription>long user-friendly title</ModelDescription>
    <ModelName>model name</ModelName>
    <ModelNumber>model number</ModelNumber>
    <ModelURL>URL to model site</ModelURL>
    <SerialNumber>manufacturer's serial number</SerialNumber>
    <UDN>uuid:UUID</UDN>
    <UPC>Universal Product Code</UPC>
    <IconList>
      <Icon>
        <Mimetype>image/format</Mimetype>
        <Width>horizontal pixels</width>
        <Height>vertical pixels</height>
        <Depth>color depth</depth>
        <Url>URL to icon</Url>
      </icon>
      XML to declare other icons, if any, go here
    </IconList>
  </Specification>
  <StateVariableList>
          :
        (Insert the metadata definition of the state variables common to devices shown in 6.3.1)
          :
    <StateVariable    name="BoilerBurningStatus"    datatype="string"    sendEvents="no">
      <AllowedValueList>
        <AllowedValue>ON</AllowedValue>
        <AllowedValue>OFF</AllowedValue>
      </AllowedValueList>
    </StateVariable>
```

```
<StateVariable name="HotWaterTemp" datatype="integer" sendEvents="no">
  <AllowedValueRange>
    <Minimum>0</Minimum>
    <Maximum>100</Maximum>
    <Step>1</Step>
  </AllowedValueRange>
</StateVariable>
<StateVariable name="WarmerStatus" datatype="string" sendEvents="no">
  <AllowedValueList>
    <AllowedValue>ON</AllowedValue>
    <AllowedValue>OFF</AllowedValue>
  </AllowedValueList>
</StateVariable>
<StateVariable name="AutoDurationTimeSet" datatype="hexBinary" sendEvents="no"/>
<StateVariable name="AutoRemainTimeSet" datatype=" hexBinary " sendEvents="no"/>
<StateVariable name="BathTemp" datatype="integer" sendEvents="no">
  <AllowedValueRange>
    <Minimum>0</Minimum>
    <Maximum>100</Maximum>
    <Step>1</Step>
  </AllowedValueRange>
</StateVariable>
<StateVariable name="BathBoilerBurningStatus" datatype="string" sendEvents="no">
  <AllowedValueList>
    <AllowedValue>ON</AllowedValue>
    <AllowedValue>OFF</AllowedValue>
  </AllowedValueList>
</StateVariable>
<StateVariable name="BathAutoModeStatus" datatype="string" sendEvents="no">
  <AllowedValueList>
    <AllowedValue>ON</AllowedValue>
    <AllowedValue>OFF</AllowedValue>
  </AllowedValueList>
</StateVariable>
<StateVariable name="BathReheatStatus" datatype="string" sendEvents="no">
  <AllowedValueList>
    <AllowedValue>ON</AllowedValue>
    <AllowedValue>OFF</AllowedValue>
  </AllowedValueList>
</StateVariable>
<StateVariable name="BathWaterSupplyStatus" datatype="string" sendEvents="no">
  <AllowedValueList>
    <AllowedValue>ON</AllowedValue>
    <AllowedValue>OFF</AllowedValue>
  </AllowedValueList>
</StateVariable>
<StateVariable name="TepidBathWaterStatus" datatype="string" sendEvents="no">
```

```
    <AllowedValueList>
      <AllowedValue>ON</AllowedValue>
      <AllowedValue>OFF</AllowedValue>
    </AllowedValueList>
  </StateVariable>
  <StateVariable name="BathWater1Volume" datatype="integer" sendEvents="no">
    <AllowedValueRange>
      <Minimum>0</Minimum>
      <Maximum>253</Maximum>
      <Step>1</Step>
    </AllowedValueRange>
  </StateVariable>
  <StateVariable name="BathWaterLevel" datatype="string" sendEvents="no">
    <AllowedValueList>
      <AllowedValue>1</AllowedValue>
      <AllowedValue>2</AllowedValue>
      <AllowedValue>3</AllowedValue>
      <AllowedValue>4</AllowedValue>
      <AllowedValue>5</AllowedValue>
      <AllowedValue>6</AllowedValue>
      <AllowedValue>7</AllowedValue>
      <AllowedValue>8</AllowedValue>
    </AllowedValueList>
  </StateVariable>
  <StateVariable name="BathHotWater3Volume" datatype="integer" sendEvents="no">
    <AllowedValueRange>
      <Minimum>0</Minimum>
      <Maximum>65533</Maximum>
      <Step>1</Step>
    </AllowedValueRange>
  </StateVariable>
  <StateVariable name="BathPriorityStatus" datatype="string" sendEvents="no">
    <AllowedValueList>
      <AllowedValue>ON</AllowedValue>
      <AllowedValue>OFF</AllowedValue>
    </AllowedValueList>
  </StateVariable>
  <StateVariable name="ShowerWaterSupplyStatus" datatype="string" sendEvents="no">
    <AllowedValueList>
      <AllowedValue>Supply</AllowedValue>
      <AllowedValue>NotSupply</AllowedValue>
    </AllowedValueList>
  </StateVariable>
  <StateVariable name="KitchenWaterSupplyStatus" datatype="string" sendEvents="no">
    <AllowedValueList>
      <AllowedValue>Supply</AllowedValue>
      <AllowedValue>NotSupply</AllowedValue>
```

```
      </AllowedValueList>
    </StateVariable>
    <StateVariable    name="WarmerOnTimerStatus" datatype="string" sendEvents="no">
      <AllowedValueList>
        <AllowedValue>ON</AllowedValue>
        <AllowedValue>OFF</AllowedValue>
      </AllowedValueList>
    </StateVariable>
    <StateVariable    name="WarmerOnTimerTime" datatype="time" sendEvents="no"/>
    <StateVariable    name="BathOnTimerStatus" datatype="string" sendEvents="no">
      <AllowedValueList>
        <AllowedValue>ON</AllowedValue>
        <AllowedValue>OFF</AllowedValue>
      </AllowedValueList>
    </StateVariable>
    <StateVariable    name="BathOnTimerAbsoluteTime" datatype="time" sendEvents="no"/>
    <StateVariable    name="BathOnTimerRelativeTime" datatype="time" sendEvents="no"/>
  </StateVariableList>
  <ServiceList>
        :
      (Insert the metadata definition of the services common to devices shown in 6.3.2)
        :
    <Service    name="GetBoilerBurningStatus"
        type="http://www.pucc.jp/2007/09/Device/Echonet/InstantaneousWaterHeater/Service/GetOperationMo
        deStatus"/>
    <Service    name="ReadHotWaterTemp"
        type="http://www.pucc.jp/2007/09/Device/Echonet/InstantaneousWaterHeater/Service/ReadHotWaterTe
        mp"/>
    <Service    name="WriteHotWaterTemp"
        type="http://www.pucc.jp/2007/09/Device/Echonet/InstantaneousWaterHeater/Service/WriteHotWaterT
        emp"/>
    <Service    name="GetWarmerStatus"
        type="http://www.pucc.jp/2007/09/Device/Echonet/InstantaneousWaterHeater/Service/GetWarmerStatu
        s"/>
    <Service    name="SetWarmerStatus"
        type="http://www.pucc.jp/2007/09/Device/Echonet/InstantaneousWaterHeater/Service/SetWarmerStatus
        "/>
    <Service    name="GetAutoDurationTimeSet"
        type="http://www.pucc.jp/2007/09/Device/Echonet/InstantaneousWaterHeater/Service/GetAutoDuration
        TimeSet"/>
    <Service    name="SetAutoDurationTimeSet"
        type="http://www.pucc.jp/2007/09/Device/Echonet/InstantaneousWaterHeater/Service/SetAutoDuration
        TimeSet"/>
    <Service    name="GetAutoRemainTimeSet"
        type="http://www.pucc.jp/2007/09/Device/Echonet/InstantaneousWaterHeater/Service/GetAutoRemain
        TimeSet"/>
    <Service    name="ReadBathTemp"
```

```
        type="http://www.pucc.jp/2007/09/Device/Echonet/InstantaneousWaterHeater/Service/ReadBathTemp"/
        >
    <Service    name="WriteBathTemp"
        type="http://www.pucc.jp/2007/09/Device/Echonet/InstantaneousWaterHeater/Service/WriteBathTemp"
        />
    <Service    name="GetBathBoilerBurningStatus"
        type="http://www.pucc.jp/2007/09/Device/Echonet/InstantaneousWaterHeater/Service/GetAutoRemain
        TimeSet"/>
    <Service    name="GetBathAutoModeStatus"
        type="http://www.pucc.jp/2007/09/Device/Echonet/InstantaneousWaterHeater/Service/GetAutoRemain
        TimeSet"/>
    <Service    name="SetBathAutoModeStatus"
        type="http://www.pucc.jp/2007/09/Device/Echonet/InstantaneousWaterHeater/Service/SetAutoRemainT
        imeSet"/>
    <Service    name="GetBathReheatStatus"
        type="http://www.pucc.jp/2007/09/Device/Echonet/InstantaneousWaterHeater/Service/GetBathReheatSt
        atus"/>
    <Service    name="SetBathReheatStatus"
        type="http://www.pucc.jp/2007/09/Device/Echonet/InstantaneousWaterHeater/Service/SetBathReheatSt
        atus"/>
    <Service    name="GetBathWaterSupplyStatus"
        type="http://www.pucc.jp/2007/09/Device/Echonet/InstantaneousWaterHeater/Service/GetBathWaterSu
        pplyStatus"/>
    <Service    name="SetBathWaterSupplyStatus"
        type="http://www.pucc.jp/2007/09/Device/Echonet/InstantaneousWaterHeater/Service/SetBathWaterSu
        pplyStatus"/>
    <Service    name="GetTepidBathWaterStatus"
        type="http://www.pucc.jp/2007/09/Device/Echonet/InstantaneousWaterHeater/Service/GetTepidBathWa
        terStatus"/>
    <Service    name="SetTepidBathWaterStatus"
        type="http://www.pucc.jp/2007/09/Device/Echonet/InstantaneousWaterHeater/Service/SetTepidBathWa
        terStatus"/>
    <Service    name="ReadBathWater1Volume"
        type="http://www.pucc.jp/2007/09/Device/Echonet/InstantaneousWaterHeater/Service/ReadBathWater1
        Volume"/>
    <Service    name="WriteBathWater1Volume"
        type="http://www.pucc.jp/2007/09/Device/Echonet/InstantaneousWaterHeater/Service/WriteBathWater
        1Volume"/>
    <Service    name="GetBathWaterLevel"
        type="http://www.pucc.jp/2007/09/Device/Echonet/InstantaneousWaterHeater/Service/GetBathWaterLe
        vel "/>
    <Service    name="SetBathWaterLevel"
        type="http://www.pucc.jp/2007/09/Device/Echonet/InstantaneousWaterHeater/Service/SetBathWaterLe
        vel "/>
    <Service    name="GetBathHotWater3Volume"
        type="http://www.pucc.jp/2007/09/Device/Echonet/InstantaneousWaterHeater/Service/GetBathHotWate
        r3Volume "/>
```

```
    <Service   name="GetBathPriorityStatus"
        type="http://www.pucc.jp/2007/09/Device/Echonet/InstantaneousWaterHeater/Service/GetBathPriorityS
        tatus"/>
    <Service   name="SetBathPriorityStatus"
        type="http://www.pucc.jp/2007/09/Device/Echonet/InstantaneousWaterHeater/Service/SetBathPrioritySt
        atus"/>
    <Service   name="GetShowerWaterSupplyStatus"
        type="http://www.pucc.jp/2007/09/Device/Echonet/InstantaneousWaterHeater/Service/GetShowerWater
        SupplyStatus "/>
    <Service   name="GetKitchenWaterSupplyStatus"
        type="http://www.pucc.jp/2007/09/Device/Echonet/InstantaneousWaterHeater/Service/GetKitchenWater
        SupplyStatus"/>
    <Service   name="GetWarmerOnTimerStatus"
        type="http://www.pucc.jp/2007/09/Device/Echonet/InstantaneousWaterHeater/Service/GetWarmerOnTi
        merStatus"/>
    <Service   name="SetWarmerOnTimerStatus"
        type="http://www.pucc.jp/2007/09/Device/Echonet/InstantaneousWaterHeater/Service/SetWarmerOnTi
        merStatus"/>
    <Service   name="GetWarmerOnTimerTime"
        type="http://www.pucc.jp/2007/09/Device/Echonet/InstantaneousWaterHeater/Service/GetWarmerOnTi
        merTime"/>
    <Service   name="SetWarmerOnTimerTime"
        type="http://www.pucc.jp/2007/09/Device/Echonet/InstantaneousWaterHeater/Service/SetWarmerOnTi
        merTime"/>
    <Service   name="GetBathOnTimerStatus"
        type="http://www.pucc.jp/2007/09/Device/Echonet/InstantaneousWaterHeater/Service/GetBathOnTimer
        Status"/>
    <Service   name="SetBathOnTimerStatus"
        type="http://www.pucc.jp/2007/09/Device/Echonet/InstantaneousWaterHeater/Service/SetBathOnTimer
        Status"/>
    <Service   name="GetBathOnTimerAbsoluteTime"
        type="http://www.pucc.jp/2007/09/Device/Echonet/InstantaneousWaterHeater/Service/GetBathOnTimer
        AbsoluteTime"/>
    <Service   name="SetBathOnTimerAbsoluteTime"
        type="http://www.pucc.jp/2007/09/Device/Echonet/InstantaneousWaterHeater/Service/SetBathOnTimer
        AbsoluteTime"/>
    <Service   name="GetBathOnTimerRelativeTime"
        type="http://www.pucc.jp/2007/09/Device/Echonet/InstantaneousWaterHeater/Service/GetBathOnTimer
        RelativeTime"/>
    <Service   name="SetBathOnTimerRelativeTime"
        type="http://www.pucc.jp/2007/09/Device/Echonet/InstantaneousWaterHeater/Service/SetBathOnTimer
        RelativeTime"/>
    <Service   name="GetIcon"
        type="http://www.pucc.jp/2007/09/Device/Echonet/InstantaneousWaterHeater/Service/GetIcon"/>
  </ServiceList>
  <PrimitiveDeviceList/>
</Device>
```

### 16.5.2. Service Metadata

The metadata templates of the services that instantaneous water heater devices have are shown below.

※ See 6.3.2.for the metadata of the services common to devices.

(1)GetBoilerBurningStatus service metadata

```
<?xml version="1.0" ?>
<Service
      type="http://www.pucc.jp/2007/09/Device/Echonet/InstantaneousWaterHeater/Service/GetBoilerBurningStat
      us" name="GetBoilerBurningStatus ">
   <InputParameterList/>
   <OutputParameterList>
      <Parameter name="CurrentBoilerBurningStatus" relatedStateVariable="BoilerBurningStatus"/>
   </OutputParameterList>
</Service>
```

(2)ReadHotWaterTemp service metadata

```
<?xml version="1.0" ?>
<Service
      type="http://www.pucc.jp/2007/09/Device/Echonet/InstantaneousWaterHeater/Service/ReadHotWaterTemp"
      name="GetHotWaterTemp">
   <InputParameterList/>
   <OutputParameterList>
      <Parameter name="CurrentHotWaterTemp" relatedStateVariable="HotWaterTemp"/>
   </OutputParameterList>
</Service>
```

(3)WriteHotWaterTemp service metadata

```
<?xml version="1.0" ?>
<Service
      type="http://www.pucc.jp/2007/09/Device/Echonet/InstantaneousWaterHeater/Service/WriteHotWaterTemp"
      name="WriteHotWaterTemp">
   <InputParameterList>
      <Parameter name="NewHotWaterTemp" relatedStateVariable="HotWaterTemp"/>
   </InputParameterList>
   <OutputParameterList/>
</Service>
```

(4)GetWarmerStatus service metadata

```
<?xml version="1.0" ?>
<Service
      type="http://www.pucc.jp/2007/09/Device/Echonet/InstantaneousWaterHeater/Service/GetWarmerStatus"
      name="GetWarmerStatus">
   <InputParameterList/>
   <OutputParameterList>
      <Parameter name="CurrentWarmerStatus" relatedStateVariable="WarmerStatus"/>
   </OutputParameterList>
</Service>
```

(5)SetWarmerStatus service metadata

```
<?xml version="1.0" ?>
<Service
      type="http://www.pucc.jp/2007/09/Device/Echonet/InstantaneousWaterHeater/Service/SetWarmerStatus"
      name="SetWarmerStatus">
   <InputParameterList>
      <Parameter name="NewWarmerStatus" relatedStateVariable="WarmerStatus"/>
   </InputParameterList>
   <OutputParameterList/>
 </Service>
```

(6)GetAutoDurationTimeSet service metadata

```
<?xml version="1.0" ?>
<Service
      type="http://www.pucc.jp/2007/09/Device/Echonet/InstantaneousWaterHeater/Service/GetAutoDurationTim
      eSet" name="GetAutoDurationTimeSet">
   <InputParameterList/>
   <OutputParameterList>
      <Parameter name="CurrentAutoDurationTimeSet" relatedStateVariable="AutoDurationTimeSet"/>
   </OutputParameterList>
</Service>
```

(7)SetAutoDurationTimeSet service metadata

```
<?xml version="1.0" ?>
<Service
      type="http://www.pucc.jp/2007/09/Device/Echonet/InstantaneousWaterHeater/Service/SetAutoDurationTime
      Set" name="SetAutoDurationTimeSet">
   <InputParameterList>
      <Parameter name="NewAutoDurationTimeSet" relatedStateVariable="AutoDurationTimeSet"/>
   </InputParameterList>
   <OutputParameterList/>
</Service>
```

(8)GetAutoRemainTimeSet service metadata

```
<?xml version="1.0" ?>
<Service
      type="http://www.pucc.jp/2007/09/Device/Echonet/InstantaneousWaterHeater/Service/GetAutoRemainTime
      Set" name="GetAutoRemainTimeSet">
   <InputParameterList/>
   <OutputParameterList>
      <Parameter name="CurrentAutoRemainTimeSet" relatedStateVariable="AutoRemainTimeSet"/>
   </OutputParameterList>
</Service>
```

(9)ReadBathTemp service metadata

```
<?xml version="1.0" ?>
<Service
      type="http://www.pucc.jp/2007/09/Device/Echonet/InstantaneousWaterHeater/Service/ReadBathTemp"
      name="BathTemp">
   <InputParameterList/>
   <OutputParameterList>
      <Parameter name="CurrentBathTemp" relatedStateVariable="BathTemp"/>
   </OutputParameterList>
</Service>
```

(10)WriteBathTemp service metadata

```
<?xml version="1.0" ?>
<Service
      type="http://www.pucc.jp/2007/09/Device/Echonet/InstantaneousWaterHeater/Service/WriteBathTemp"
      name="BathTemp">
   <InputParameterList>
      <Parameter name="NewBathTemp" relatedStateVariable="BathTemp"/>
   </InputParameterList>
   </OutputParameterList>
</Service>
```

(11)GetBathBoilerBurningStatus service metadata

```
<?xml version="1.0" ?>
<Service
      type="http://www.pucc.jp/2007/09/Device/Echonet/InstantaneousWaterHeater/Service/GetBathBoilerBurningSta
      tus" name="BathBoilerBurningStatus">
   <InputParameterList/>
   <OutputParameterList>
      <Parameter name="CurrentBathBoilerBurningStatus" relatedStateVariable="BathBoilerBurningStatus"/>
   </OutputParameterList>
</Service>
```

(12)GetBathAutoModeStatus service metadata

```
<?xml version="1.0" ?>
<Service
      type="http://www.pucc.jp/2007/09/Device/Echonet/InstantaneousWaterHeater/Service/GetBathAutoModeSta
      tus" name="BathAutoModeStatus">
   <InputParameterList/>
   <OutputParameterList>
      <Parameter name="CurrentBathAutoModeStatus" relatedStateVariable="BathAutoModeStatus"/>
   </OutputParameterList>
</Service>
```

(13)SetBathAutoModeStatus service metadata

```
<?xml version="1.0" ?>
<Service
      type="http://www.pucc.jp/2007/09/Device/Echonet/InstantaneousWaterHeater/Service/SetBathAutoModeStat
      us" name="BathAutoModeStatus">
   <InputParameterList>
      <Parameter name="NewBathAutoModeStatus" relatedStateVariable="BathAutoModeStatus"/>
   </InputParameterList>
   </OutputParameterList>
</Service>
```

(14)GetBathReheatStatus service metadata

```
<?xml version="1.0" ?>
<Service
      type="http://www.pucc.jp/2007/09/Device/Echonet/InstantaneousWaterHeater/Service/GetBathReheatStatus"
      name="BathReheatStatus">
   <InputParameterList/>
   <OutputParameterList>
      <Parameter name="CurrentBathReheatStatus" relatedStateVariable="BathReheatStatus"/>
   </OutputParameterList>
</Service>
```

(15)SetBathReheatStatus service metadata

```
<?xml version="1.0" ?>
<Service
      type="http://www.pucc.jp/2007/09/Device/Echonet/InstantaneousWaterHeater/Service/SetBathReheatStatus"
      name="BathReheatStatus">
   <InputParameterList>
      <Parameter name="NewBathReheatStatus" relatedStateVariable="BathReheatStatus"/>
   </InputParameterList>
   </OutputParameterList>
</Service>
```

(16)GetBathWaterSupplyStatus service metadata

```
<?xml version="1.0" ?>
<Service
      type="http://www.pucc.jp/2007/09/Device/Echonet/InstantaneousWaterHeater/Service/GetBathWaterSupplySt
      atus" name="BathWaterSupplyStatus">
   <InputParameterList/>
   <OutputParameterList>
      <Parameter name="CurrentBathWaterSupplyStatus" relatedStateVariable="BathWaterSupplyStatus"/>
   </OutputParameterList>
</Service>
```

(17)SetBathWaterSupplyStatus service metadata

```
<?xml version="1.0" ?>
<Service
      type="http://www.pucc.jp/2007/09/Device/Echonet/InstantaneousWaterHeater/Service/SetBathWaterSupplySt
      atus" name="BathWaterSupplyStatus">
   <InputParameterList>
      <Parameter name="NewBathWaterSupplyStatus" relatedStateVariable="BathWaterSupplyStatus"/>
   </InputParameterList>
   <OutputParameterList/>
</Service>
```

(18)GetTepidBathWaterStatus service metadata

```
<?xml version="1.0" ?>
<Service
      type="http://www.pucc.jp/2007/09/Device/Echonet/InstantaneousWaterHeater/Service/GetTepidBathWaterSta
      tus" name="GetTepidBathWaterStatus">
   <InputParameterList/>
   <OutputParameterList>
      <Parameter name="CurrentTepidBathWaterStatus" relatedStateVariable="TepidBathWaterStatus"/>
   </OutputParameterList>
</Service>
```

(19)SetTepidBathWaterStatus service metadata

```
<?xml version="1.0" ?>
<Service
    type="http://www.pucc.jp/2007/09/Device/Echonet/InstantaneousWaterHeater/Service/SetTepidBathWaterSta
    tus" name="SetTepidBathWaterStatus">
  <InputParameterList>
    <Parameter name="NewTepidBathWaterStatus" relatedStateVariable="TepidBathWaterStatus"/>
  </InputParameterList>
  <OutputParameterList/>
</Service>
```

(20)ReadBathWater1Volume service metadata

```
<?xml version="1.0" ?>
<Service
    type="http://www.pucc.jp/2007/09/Device/Echonet/InstantaneousWaterHeater/Service/ReadBathWater1Volu
    me" name="ReadBathWater1Volume">
  <InputParameterList/>
  <OutputParameterList>
    <Parameter name="CurrentBathWater1Volume" relatedStateVariable="BathWater1Volume"/>
  </OutputParameterList>
</Service>
```

(21)WriteBathWater1Volume service metadata

```
<?xml version="1.0" ?>
<Service
    type="http://www.pucc.jp/2007/09/Device/Echonet/InstantaneousWaterHeater/Service/WriteBathWater1Volu
    me" name="WriteBathWater1Volume">
  <InputParameterList>
    <Parameter name="NewBathWater1Volume" relatedStateVariable="BathWater1Volume"/>
  </InputParameterList>
  <OutputParameterList/>
</Service>
```

(22)GetBathWaterLevel service metadata

```
<?xml version="1.0" ?>
<Service
      type="http://www.pucc.jp/2007/09/Device/Echonet/InstantaneousWaterHeater/Service/GetBathWaterLevel"
      name="GetBathWaterLevel">
   <InputParameterList/>
   <OutputParameterList>
      <Parameter name="CurrentBathWaterLevel" relatedStateVariable="BathWaterLevel"/>
   </OutputParameterList>
</Service>
```

(23)SetBathWaterLevel service metadata

```
<?xml version="1.0" ?>
<Service
      type="http://www.pucc.jp/2007/09/Device/Echonet/InstantaneousWaterHeater/Service/SetBathWaterLevel"
      name="SetBathWaterLevel">
   <InputParameterList>
      <Parameter name="NewBathWaterLevel" relatedStateVariable="BathWaterLevel"/>
   </InputParameterList>
   <OutputParameterList/>
</Service>
```

(24)ReadBathHotWater3Volume service metadata

```
<?xml version="1.0" ?>
<Service
      type="http://www.pucc.jp/2007/09/Device/Echonet/InstantaneousWaterHeater/Service/ReadBathHotWater3Vol
      ume" name="ReadBathHotWater3Volume">
   <InputParameterList/>
   <OutputParameterList>
      <Parameter name="CurrentBathHotWater3Volume" relatedStateVariable="BathHotWater3Volume"/>
   </OutputParameterList>
</Service>
```

(25)WriteBathHotWater3Volume service metadata

```
<?xml version="1.0" ?>
<Service
      type="http://www.pucc.jp/2007/09/Device/Echonet/InstantaneousWaterHeater/Service/WriteBathHotWater3Vol
      ume" name="WriteBathHotWater3Volume">
   <InputParameterList>
      <Parameter name="NewBathHotWater3Volume" relatedStateVariable="BathHotWater3Volume"/>
   </InputParameterList>
   <OutputParameterList/>
</Service>
```

(26)GetBathPriorityStatus service metadata

```
<?xml version="1.0" ?>
<Service
      type="http://www.pucc.jp/2007/09/Device/Echonet/InstantaneousWaterHeater/Service/GetBathPriorityStatus"
      name="GetBathPriorityStatus">
   <InputParameterList/>
   <OutputParameterList>
      <Parameter name="CurrentBathPriorityStatus" relatedStateVariable="BathPriorityStatus"/>
   </OutputParameterList>
</Service>
```

(27)SetBathPriorityStatus service metadata

```
<?xml version="1.0" ?>
<Service
      type="http://www.pucc.jp/2007/09/Device/Echonet/InstantaneousWaterHeater/Service/SetBathPriorityStatus"
      name="SetBathPriorityStatus">
   <InputParameterList>
      <Parameter name="NewBathPriorityStatus" relatedStateVariable="BathPriorityStatus"/>
   </InputParameterList>
   <OutputParameterList/>
</Service>
```

(28)GetShowerWaterSupplyStatus service metadata

```
<?xml version="1.0" ?>
<Service
      type="http://www.pucc.jp/2007/09/Device/Echonet/InstantaneousWaterHeater/Service/GetShowerWaterSupplySt
      atus" name="GetShowerWaterSupplyStatus">
   <InputParameterList/>
   <OutputParameterList>
      <Parameter name="CurrentShowerWaterSupplyStatus" relatedStateVariable="ShowerWaterSupplyStatus"/>
   </OutputParameterList>
</Service>
```

(29)GetKitchenWaterSupplyStatus service metadata

```
<?xml version="1.0" ?>
<Service
      type="http://www.pucc.jp/2007/09/Device/Echonet/InstantaneousWaterHeater/Service/GetKitchenWaterSupplySt
      atus" name="GetKitchenWaterSupplyStatus">
   <InputParameterList/>
   <OutputParameterList>
      <Parameter name="CurrentKitchenWaterSupplyStatus" relatedStateVariable="KitchenWaterSupplyStatus"/>
   </OutputParameterList>
</Service>
```

(30)GetWarmerOnTimerStatus service metadata

```
<?xml version="1.0" ?>
<Service
      type="http://www.pucc.jp/2007/09/Device/Echonet/InstantaneousWaterHeater/Service/GetWarmerOnTimerStatu
      s" name="GetWarmerOnTimerStatus">
   <InputParameterList/>
   <OutputParameterList>
      <Parameter name="CurrentWarmerOnTimerStatus" relatedStateVariable="WarmerOnTimerStatus"/>
   </OutputParameterList>
</Service>
```

(31)SetWarmerOnTimerStatus service metadata

```
<?xml version="1.0" ?>
<Service
      type="http://www.pucc.jp/2007/09/Device/Echonet/InstantaneousWaterHeater/Service/SetWarmerOnTimerStatu
      s" name="SetWarmerOnTimerStatus">
   <InputParameterList>
      <Parameter name="NewWarmerOnTimerStatus" relatedStateVariable="WarmerOnTimerStatus"/>
   </InputParameterList>
   <OutputParameterList/>
</Service>
```

(32)GetWarmerOnTimerTime service metadata

```
<?xml version="1.0" ?>
<Service
      type="http://www.pucc.jp/2007/09/Device/Echonet/InstantaneousWaterHeater/Service/GetWarmerOnTimerTime
      " name="GetWarmerOnTimerTime">
   <InputParameterList/>
   <OutputParameterList>
      <Parameter name="CurrentWarmerOnTimerTime" relatedStateVariable="WarmerOnTimerTime"/>
   </OutputParameterList>
</Service>
```

(33)SetWarmerOnTimerTime service metadata

```
<?xml version="1.0" ?>
<Service
      type="http://www.pucc.jp/2007/09/Device/Echonet/InstantaneousWaterHeater/Service/SetWarmerOnTimerTime
      " name="SetWarmerOnTimerTime">
   <InputParameterList>
      <Parameter name="NewWarmerOnTimerTime" relatedStateVariable="WarmerOnTimerTime"/>
   </InputParameterList>
   <OutputParameterList/>
</Service>
```

(34)GetBathOnTimerStatus service metadata

```
<?xml version="1.0" ?>
<Service
      type="http://www.pucc.jp/2007/09/Device/Echonet/InstantaneousWaterHeater/Service/GetBathOnTimerStatus"
      name="GetBathOnTimerStatus">
   <InputParameterList/>
   <OutputParameterList>
      <Parameter name="CurrentBathOnTimerStatus" relatedStateVariable="BathOnTimerStatus"/>
   </OutputParameterList>
</Service>
```

(35)SetBathOnTimerStatus service metadata

```
<?xml version="1.0" ?>
<Service
      type="http://www.pucc.jp/2007/09/Device/Echonet/InstantaneousWaterHeater/Service/SetBathOnTimerStatus"
      name="SetBathOnTimerStatus">
   <InputParameterList>
      <Parameter name="NewBathOnTimerStatus" relatedStateVariable="BathOnTimerStatus"/>
   </InputParameterList>
   <OutputParameterList/>
</Service>
```

(36)GetBathOnTimerAbsoluteTime service metadata

```
<?xml version="1.0" ?>
<Service
      type="http://www.pucc.jp/2007/09/Device/Echonet/InstantaneousWaterHeater/Service/GetBathOnTimerAbsolute
      Time" name="GetBathOnTimerAbsoluteTime">
   <InputParameterList/>
   <OutputParameterList>
      <Parameter name="CurrentBathOnTimerAbsoluteTime" relatedStateVariable="BathOnTimerAbsoluteTime"/>
   </OutputParameterList>
</Service>
```

(37)SetBathOnTimerAbsoluteTime service metadata

```
<?xml version="1.0" ?>
<Service
      type="http://www.pucc.jp/2007/09/Device/Echonet/InstantaneousWaterHeater/Service/SetBathOnTimerAbsolute
      Time" name="SetBathOnTimerAbsoluteTime">
   <InputParameterList>
      <Parameter name="NewBathOnTimerAbsoluteTime" relatedStateVariable="BathOnTimerAbsoluteTime"/>
   </InputParameterList>
   <OutputParameterList/>
</Service>
```

(38)GetBathOnTimerRelativeTime service metadata

```
<?xml version="1.0" ?>
<Service
      type="http://www.pucc.jp/2007/09/Device/Echonet/InstantaneousWaterHeater/Service/GetBathOnTimerRelativeT
      ime" name="GetBathOnTimerRelativeTime">
   <InputParameterList/>
   <OutputParameterList>
      <Parameter name="CurrentBathOnTimerRelativeTime" relatedStateVariable="BathOnTimerRelativeTime"/>
   </OutputParameterList>
</Service>
```

(39)SetBathOnTimerRelativeTime service metadata

```
<?xml version="1.0" ?>
<Service
      type="http://www.pucc.jp/2007/09/Device/Echonet/InstantaneousWaterHeater/Service/SetBathOnTimerRelativeTi
      me" name="SetBathOnTimerRelativeTime">
   <InputParameterList>
      <Parameter name="NewBathOnTimerRelativeTime" relatedStateVariable="BathOnTimerRelativeTime"/>
   </InputParameterList>
   <OutputParameterList/>
</Service>
```

(40)GetIcon service metadata

```
<?xml version="1.0" ?>
<Service
      type=http://www.pucc.jp/2007/09/Device/Echonet/InstantaneousWaterHeater/Service/GetIcon
      name="GetIcon">
   <InputParameterList>
      <Parameter name="url" datatype="string"/>
   </InputParameterList>
   <OutputParameterList>
      <Parameter name="mimeType" datatype="string"/>
      <Parameter name="base64Data" datatype="base64Binary"/>
   </OutputParameterList>
</Service>
```

# 17. Floor Heating Devices

This chapter defines the PUCC metadata specification for floor heating devices.

## 17.1. Device Model

Floor heating devices adopt the device model shown below.

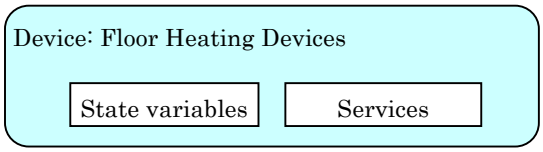


**Figure 17.1-1. Floor heating devices model**

## 17.2. Device Type

The device type identifier of floor heating device is shown below.

http://www.pucc.jp/2007/09/Device/Echonet/FloorHeating

## 17.3. State Variables

The state variables of floor heating devices are shown below.

**Table 17.3-1:State variables of Floor heating devices (1/2)**

| | State Variable Name | Description | Data Type | Event Generation (Yes/No) |
|---|---|---|---|---|
| 1 | OperationStatus | Operation status (6.1.1) | string | Yes |
| 2 | InstallationLocation | Installation location (6.1.2) | hexBinary | Yes |
| 3 | SpecVersionInfoCode | Specification version information (6.1.3) | string | No |
| 4 | LowerNodeIdCode | Node identification code (6.1.4) (lower-layer communication software ID field) | string | No |
| 5 | NodeIdCode | Node identification code (6.1.4) (individual number field) | string | No |
| 6 | ManufacturerErrorCode | Manufacturer error code (6.1.5) | string | No |
| 7 | PowerLimit | Power limit (6.1.6) | integer | No |
| 8 | FaultStatus | Fault status (6.1.7) | string | Yes |
| 9 | FaultContent | Fault content (6.1.8) | hexBinary | No |
| 10 | MakerCode | Manufacturer code (6.1.9) | string | No |
| 11 | PlaceOfBuisinessCode | Place-of-business code (6.1.10) | string | No |
| 12 | EnergySavingStatus | Energy saving status (6.1.11) | string | No |
| 13 | PresentTime | P resent time (6.1.12) | time | No |
| 14 | PresentDate | Present date (6.1.13) | date | No |
| 15 | CumulatedRunTimeValue | Cumulative run-time (6.1.14) | hexBinary | No |
| 16 | Desired1TempSetting | Temperature setting value 1 | hexBinary | No |
| 17 | Desired2TempSetting | Temperature setting value 2 | hexBinary | No |
| 18 | MeasuredRoomTemp | Measured value of room temperature | integer | No |
| 19 | MeasuredFloorTemp | Measured floor temperature value | integer | No |
| 20 | 0ZoneSwitchStatus | Zone switch status (Zone 0) | string | No |
| 21 | 1ZoneSwitchStatus | Zone switch status (Zone 1) | string | No |
| 22 | 2ZoneSwitchStatus | Zone switch status (Zone 2) | string | No |
| 23 | 3ZoneSwitchStatus | Zone switch status (Zone 3) | string | No |

**Table 17.3-1: State variables of Floor heating devices (2/2)**

| | State Variable Name | Description | Data Type | Event Generation (Yes/No) |
|---|---|---|---|---|
| 24 | 4ZoneSwitchStatus | Zone switch status (Zone 4) | string | No |
| 25 | 5ZoneSwitchStatus | Zone switch status (Zone 5) | string | No |
| 26 | 6ZoneSwitchStatus | Zone switch status (Zone 6) | string | No |
| 27 | 7ZoneSwitchStatus | Zone switch status (Zone 7) | string | No |
| 28 | SpecialOperationStatus | Special operation status | string | No |
| 29 | DailyTimerStatus | Daily timer status | string | No |
| 30 | DailyTimer1 | Daily timer 1 setting value | hexBinary | No |
| 31 | DailyTimer2 | Daily timer 2 setting value | hexBinary | No |
| 32 | OnTimerStatus | On timer reservation status | string | No |
| 33 | OnTimerAbsoluteTime | ON timer setting time value | time | No |
| 34 | OnTimerRelativeime | ON timer setting relative time value | time | No |
| 35 | OffTimerStatus | OFF timer reservation status | string | No |
| 36 | OffTimerAbsoluteTime | OFF timer setting time value | time | No |
| 37 | OffTimerRelativeTime | OFF timer setting relative time value | time | No |

The details of each state variable are shown below.

※ See 6.1 for the details of the state variables common to devices.

### 17.3.1. Temperature setting value 1(Desired1TempSetting)

This is a hexadecimal value from 0x00-0x32.

This value is set to 0x41 for AUTO.

### 17.3.2. Temperature setting value 2(Desired2TempSetting)

This is a hexadecimal value from 0x31-0x3F.

This value is set to 0x41 for AUTO.

### 17.3.3. Measured room temperature value (MeasuredRoomTemp)

This is an integral value from -127 to 125.

### 17.3.4. Floor Temperature Setting Values (MeasuredFloorTemp)

This is an integral value from 0 to 50.

### 17.3.5. Zone switch status (Zone 0) (0ZoneSwitchStatus)

Table17.3.5-1 shows the setting values for the "Zone switch status (Zone 0) (0ZoneSwitchStatus)."

**Table 17.3.5-1: Setting values for the "Zone switch status (Zone 0)(0ZoneSwitchStatus)"**

| | Value | Meaning | Relationship with ECHONET Specification Values |
|---|---|---|---|
| 1 | ON | Control Yes | Bit0 of "Zone switch" is "1" (Control Yes) |
| 2 | OFF | Control No | Bit0 of "Zone switch" is"0" (Control No) |

### 17.3.6. Zone switch status (Zone 1)(1ZoneSwitchStatus)

Table17.3.6-1 shows the setting values for the "Zone switch status (Zone 1)(1ZoneSwitchStatus)."

**Table 17.3.6-1: Setting values for the "Zone switch status (Zone 1)(1ZoneSwitchStatus)"**

| | Value | Meaning | Relationship with ECHONET Specification Values |
|---|---|---|---|
| 1 | ON | Control Yes | Bit1 of "Zone switch" is "1" (Control Yes) |
| 2 | OFF | Control No | Bit1 of "Zone switch" is"0" (Control No) |

### 17.3.7. Zone switch status (Zone 2)(2ZoneSwitchStatus)

Table17.3.7-1 shows the setting values for the "Zone switch status (Zone 2)(2ZoneSwitchStatus)."

**Table 17.3.7-1: Setting values for the "Zone switch status (Zone 2)(2ZoneSwitchStatus)"**

| | Value | Meaning | Relationship with ECHONET Specification Values |
|---|---|---|---|
| 1 | ON | Control Yes | Bit2 of "Zone switch" is "1" (Control Yes) |
| 2 | OFF | Control No | Bit2 of "Zone switch" is"0" (Control No) |

### 17.3.8. Zone switch status (Zone 3) 3ZoneSwitchStatus)

Table17.3.8-1 shows the setting values for the "Zone switch status (Zone 3))(3ZoneSwitchStatus)."

**Table 17.3.8-1: Setting values for the "Zone switch status (Zone 3))(3ZoneSwitchStatus)"**

| | Value | Meaning | Relationship with ECHONET Specification Values |
|---|---|---|---|
| 1 | ON | Control Yes | Bit3 of "Zone switch" is "1" (Control Yes) |
| 2 | OFF | Control No | Bit3 of "Zone switch" is"0" (Control No) |

### 17.3.9. Zone switch status (Zone 4)(4ZoneSwitchStatus)

Table17.3.9-1 shows the setting values for the "Zone switch status (Zone 4)(4ZoneSwitchStatus)."

**Table 17.3.9-1: Setting values for the "Zone switch status (Zone 4)(4ZoneSwitchStatus)"**

| | Value | Meaning | Relationship with ECHONET Specification Values |
|---|---|---|---|
| 1 | ON | Control Yes | Bit4 of "Zone switch" is "1" (Control Yes) |
| 2 | OFF | Control No | Bit4 of "Zone switch" is"0" (Control No) |

### 17.3.10. Zone switch status (Zone 5)(5ZoneSwitchStatus)

Table17.3.10-1 shows the setting values for the "Zone switch status (Zone 5)(5ZoneSwitchStatus)."

**Table 17.3.10-1: Setting values for the "Zone switch status (Zone 5)(5ZoneSwitchStatus)"**

| | Value | Meaning | Relationship with ECHONET Specification Values |
|---|---|---|---|
| 1 | ON | Control Yes | Bit5 of "Zone switch" is "1" (Control Yes) |
| 2 | OFF | Control No | Bit5 of "Zone switch" is"0" (Control No) |

### 17.3.11. Zone switch status (Zone 6)(6ZoneSwitchStatus)

Table17.3.11-1 shows the setting values for the "Zone switch status (Zone 6)(6ZoneSwitchStatus)."

**Table 17.3.11-1: Setting values for the "Zone switch status (Zone 6)(6ZoneSwitchStatus)"**

| | Value | Meaning | Relationship with ECHONET Specification Values |
|---|---|---|---|
| 1 | ON | Control Yes | Bit6 of "Zone switch" is "1" (Control Yes) |
| 2 | OFF | Control No | Bit6 of "Zone switch" is"0" (Control No) |

### 17.3.12. Zone switch status (Zone 7)(7ZoneSwitchStatus)

Table17.3.12-1 shows the setting values for the "Zone switch status (Zone 7)(7ZoneSwitchStatus)."

**Table 17.3.12-1: Setting values for the "Zone switch status (Zone 7)(7ZoneSwitchStatus)"**

| | Value | Meaning | Relationship with ECHONET Specification Values |
|---|---|---|---|
| 1 | ON | Control Yes | Bit7 of "Zone switch" is "1" (Control Yes) |
| 2 | OFF | Control No | Bit7 of "Zone switch" is"0" (Control No) |

### 17.3.13. Special operation status (SpecialOperationStatus)

Table17.3.13-1 shows the setting values for the "Special operation status (SpecialOperationStatus)."

**Table 17.3.13-1: Setting values for the "Special operation status(SpecialOperationStatus)"**

| | Value | Meaning | Relationship with ECHONET Specification Values |
|---|---|---|---|
| 1 | Normal | Normal operation | 0x41(Normal operation) |
| 2 | Gently | Gentle operation | 0x42(Gentle operation) |
| 3 | HighPower | High power operation | 0x43(High power operation) |

### 17.3.14. Daily timer status (DailyTimerStatus)

Table17.3.14-1 shows the setting values for the "Daily timer status (DailyTimerStatus)."

**Table 17.3.14-1: Setting values for the "Daily timer status(DailyTimerStatus)"**

| | Value | Meaning | Relationship with ECHONET Specification Values |
|---|---|---|---|
| 1 | OFF | Timer OFF | 0x40(Normal operation) |
| 2 | Timer1 | Timer1 | 0x41(Gentle operation) |
| 3 | Timer2 | Timer2 | 0x42(High power operation) |

### 17.3.15. Daily timer 1 setting (DailyTimer1)

Table17.3.15-1 shows the setting values for the "Daily timer 1 setting(DailyTimer1)."

**Table 17.3.15-1: Setting values for the "Daily timer 1 setting(DailyTimer1)"**

| | Value | Meaning | Relationship with ECHONET Specification Values |
|---|---|---|---|
| 1 | 0-0xFFFFFFFFFFFF | Divides 24 hours into units of 30 minutes. Allocates 6 bytes in total. | Each Bit:1(Operation)<br>Each Bit:0(No operation) |

### 17.3.16. Daily timer 2 setting (DailyTimer2)

Table17.3.16-1 shows the setting values for the "Daily timer 2 setting (DailyTimer2)."

**Table 17.3.16-1: Setting values for the "Daily timer 2 setting(DailyTimer2)"**

| | Value | Meaning | Relationship with ECHONET Specification Values |
|---|---|---|---|
| 1 | 0-0xFFFFFFFFFFFF | Divides 24 hours into units of 30 minutes. Allocates 6 bytes in total. | Each Bit:1(Operation)<br>Each Bit:0(No operation) |

### 17.3.17. On timer reservation status (OnTimerStatus)

Table17.3.17-1 shows the setting values for the "On timer reservation status (OnTimerStatus)."

**Table 17.3.17-1: Setting values for the "On timer reservation status (OnTimerStatus)"**

| | Value | Meaning | Relationship with ECHONET Specification Values |
|---|---|---|---|
| 1 | ON | Reservation ON | 0x41(Reservation ON) |
| 3 | OFF | Reservation OFF | 0x42(Reservation OFF) |

### 17.3.18. ON timer setting time value (OnTimerAbsoluteTime)

The present time is set as a character string of "HH-MM-SS" in the ISO8601 format. Note that the SS is fixed to 00.

### 17.3.19. ON timer setting relative time value (OnTimerRelativeTime)

The present time is set as a character string of "HH-MM-SS" in the ISO8601 format. Note that the SS is fixed to 00.

### 17.3.20. OFF timer reservation status (OffTimerStatus)

Table17.3.20-1 shows the setting values for the "OFF timer reservation status (OffTimerStatus)."

**Table 17.3.20-1: Setting values for the "OFF timer reservation status (OffTimerStatus)"**

| | Value | Meaning | Relationship with ECHONET Specification Values |
|---|---|---|---|
| 1 | ON | Reservation ON | 0x41(Reservation ON) |
| 3 | OFF | Reservation OFF | 0x42(Reservation OFF) |

### 17.3.21. OFF timer setting time value (OffTimerAbsoluteTime)

The present time is set as a character string of "HH-MM-SS" in the ISO8601 format. Note that the SS is fixed to 00.

### 17.3.22. OFF timer setting relative time value (OffTimerRelativeTime)

The present time is set as a character string of "HH-MM-SS" in the ISO8601 format. Note that the SS is fixed to 00.

## 17.4. Services

The services of Floor heating devices are shown below.

**Table 17.4-1: Services offered by floor heating devices (1/3)**

| | Service Name | Description | |
|---|---|---|---|
| 1 | GetOperationStatus | Obtains the operation status | (6.2.1) |
| 2 | SetOperationStatus | Sets the operation status | (6.2.2) |
| 3 | GetInstallationLocation | Obtains the installation location | (6.2.3) |
| 4 | SetInstallationLocation | Sets the installation location | (6.2.4) |
| 5 | GetSpecVersionInfoCode | Obtains the specification version information | (6.2.5) |
| 6 | GetLowerNodeIdCode | Obtains the node identification code (lower-layer communication software ID field) | (6.2.6) |
| 7 | GetNodeIdCode | Obtains the node identification code (individual number field) | (6.2.7) |
| 8 | GetManufacturerErrorCode | Obtains the manufacturer error code | (6.2.8) |
| 9 | ReadPowerLimit | Obtains the power limit | (6.2.9) |
| 10 | WritePowerLimit | Sets the power limit | (6.2.10) |
| 11 | GetFaultStatus | Obtains the fault status | (6.2.11) |
| 12 | GetFaultContent | Obtains the fault content | (6.2.12) |
| 13 | GetMakerCode | Obtains the manufacturer code | (6.2.13) |
| 14 | GetPlaceOfBuisinessCode | Obtains the place-of-business code | (6.2.14) |
| 15 | GetEnergySavingStatus | Obtains the energy saving status | (6.2.15) |
| 16 | SetEnergySavingStatus | Sets the energy saving status | (6.2.16) |
| 17 | GetPresentTime | Obtains the present time | (6.2.17) |
| 18 | SetPresentTime | Sets the present time | (6.2.18) |
| 19 | GetPresentDate | Obtains the present date | (6.2.19) |
| 20 | SetPresentDate | Sets the present date | (6.2.20) |
| 21 | GetCumulatedRunTimeValue | Obtains the cumulative run-time | (6.2.21) |
| 22 | GetDesired1TempSetting | Obtains the Temperature setting value 1 | |
| 23 | SetDesired1TempSetting | Sets the Temperature setting value 1 | |
| 24 | GetDesired2TempSetting | Obtains the Temperature setting value 2 | |
| 25 | SetDesired2TempSetting | Sets the Temperature setting value 2 | |
| 26 | ReadMeasuredRoomTemp | Obtains the Measured room temperature value | |

**Table 17.4-1: Services offered by floor heating devices (2/3)**

| | Service Name | Description |
|---|---|---|
| 27 | ReadMeasuredFloorTemp | 床 Temperature 測定 Value |
| 28 | Get0ZoneSwitchStatus | Zone switch status (Zone 0) |
| 39 | Set0ZoneSwitchStatus | Zone switch status (Zone 0) |
| 40 | Get1ZoneSwitchStatus | Zone switch status (Zone 1) |
| 41 | Set1ZoneSwitchStatus | Zone switch status (Zone 1) |
| 42 | Get2ZoneSwitchStatus | Zone switch status (Zone 2) |
| 43 | Set2ZoneSwitchStatus | Zone switch status (Zone 2) |
| 44 | Get3ZoneSwitchStatus | Zone switch status (Zone 3)) |
| 45 | Set3ZoneSwitchStatus | Zone switch status (Zone 3)) |
| 46 | Get4ZoneSwitchStatus | Zone switch status (Zone 4) |
| 47 | Set4ZoneSwitchStatus | Zone switch status (Zone 4) |
| 48 | Get5ZoneSwitchStatus | Zone switch status (Zone 5) |
| 49 | Set5ZoneSwitchStatus | Zone switch status (Zone 5) |
| 50 | Get6ZoneSwitchStatus | Zone switch status (Zone 6) |
| 51 | Set6ZoneSwitchStatus | Zone switch status (Zone 6) |
| 52 | Get7ZoneSwitchStatus | Zone switch status (Zone 7) |
| 53 | Set7ZoneSwitchStatus | Zone switch status (Zone 7) |
| 54 | GetSpecialOperationStatus | Special operation status |
| 55 | SetSpecialOperationStatus | Special operation status |
| 56 | GetDailyTimerStatus | Daily timer status |
| 57 | SetDailyTimerStatus | Daily timer status |
| 58 | GetDailyTimer1 | Daily timer 1 setting value |
| 50 | SetDailyTimer1 | Daily timer 1 setting value |
| 59 | GetDailyTimer2 | Daily timer 2 setting value |
| 60 | SetDailyTimer2 | Daily timer 2 setting value |
| 61 | GetOnTimerStatus | On timer reservation status |
| 62 | SetOnTimerStatus | On timer reservation status |
| 63 | GetOnTimerAbsoluteTime | ON timer setting time value |
| 64 | SetOnTimerAbsoluteTime | ON timer setting time value |
| 65 | GetOnTimerRelativeTime | ON timer setting relative time value |
| 66 | SetOnTimerRelativeTime | ON timer setting relative time value |

**Table 17.4-1: Services offered by floor heating devices (3/3)**

| | Service Name | Description |
|---|---|---|
| 67 | GetOffTimerStatus | OFF timer reservation status |
| 68 | SetOffTimerStatus | OFF timer reservation status |
| 69 | GetOffTimerAbsoluteTime | OFF timer setting time value |
| 70 | SetOffTimerAbsoluteTime | OFF timer setting time value |
| 71 | GetOffTimerRelativeTime | OFF timer setting relative time value |
| 72 | SetOffTimerRelativeTime | OFF timer setting relative time value |

The details of each service are shown below.

※ See 6.2 for the details of the services common to devices

### 17.4.1. GetDesired1TempSetting

(1)Description

Obtains the temperature setting value 1

(2) Service type identifier

http://www.pucc.jp/2007/09/Device/Echonet/FloorHeating/Service/GetDesired1TempSetting

(3) Input parameter

None

(4) Output parameter

**Table 17.4.1-1: Output parameter of the GetDesired1TempSetting service**

| | parameter | Related State Variable | Remarks |
|---|---|---|---|
| 1 | CurrentDesired1TempSetting | Desired1TempSetting | See also 17.3.1 |

### 17.4.2. SetDesired1TempSetting

(1)Description

Sets the temperature setting value 1

(2) Service type identifier

http://www.pucc.jp/2007/09/Device/Echonet/FloorHeating/Service/SetDesired1TempSetting

(3) Input parameter

**Table 17.4.2-1: Input parameter of theGetDesired1TempSetting service**

| | parameter | Related State Variable | Remarks |
|---|---|---|---|
| 1 | NewDesired1TempSetting | Desired1TempSetting | See also 17.3.1 |

(4) Output parameter

None

### 17.4.3. GetDesired2TempSetting

(1)Description

Obtains the temperature setting value 2

(2) Service type identifier

http://www.pucc.jp/2007/09/Device/Echonet/FloorHeating/Service/GetDesired2TempSetting

(3) Input parameter

None

(4) Output parameter

**Table 17.4.2-1: Output parameter of the GetDesired2TempSetting" service**

| | parameter | Related State Variable | Remarks |
|---|---|---|---|
| 1 | CurrentDesired2TempSetting | Desired2TempSetting | See also 17.3.2 |

### 17.4.4. SetDesired2TempSetting

(1)Description

Sets the temperature setting value 2

(2) Service type identifier

http://www.pucc.jp/2007/09/Device/Echonet/FloorHeating/Service/SetDesired1TempSetting

(3) Input parameter

**Table 17.4.4-1: Input parameter of the SetDesired2TempSetting service**

| | parameter | Related State Variable | Remarks |
|---|---|---|---|
| 1 | NewDesired2TempSetting | Desired2TempSetting | See also 17.3.2 |

(4) Output parameter

None

### 17.4.5. ReadMeasuredRoomTemp

(1)Description

Obtains the measured room temperature value

(2) Service type identifier

http://www.pucc.jp/2007/09/Device/Echonet/FloorHeating/Service/ReadMeasuredRoomTemp

(3) Input parameter

None

(4) Output parameter

**Table 17.4.5-1: Output parameter of the GetDesired2TempSetting" service**

| | parameter | Related State Variable | Remarks |
|---|---|---|---|
| 1 | CurrentMeasuredRoomTemp | MeasuredRoomTemp | See also 17.3.3 |

### 17.4.6. ReadMeasuredFloorTemp

(1)Description

Obtains the measured floor temperature value

(2) Service type identifier

http://www.pucc.jp/2007/09/Device/Echonet/FloorHeating/Service/ReadMeasuredFloorTemp

(3) Input parameter

None

(4) Output parameter

**Table 17.4.6-1: Output parameter of the GetDesired2TempSetting" service**

| | parameter | Related State Variable | Remarks |
|---|---|---|---|
| 1 | CurrentMeasuredFloorTemp | MeasuredFloorTemp | See also 17.3.4 |

### 17.4.7. Get0ZoneSwitchStatus

(1)Description

Obtains the zone switch status (Zone 0)

(2) Service type identifier

http://www.pucc.jp/2007/09/Device/Echonet/FloorHeating/Service/Get0ZoneSwitchStatus

(3) Input parameter

None

(4) Output parameter

**Table 17.4.7-1: Output parameter of the Get0ZoneSwitchStatus service**

| | parameter | Related State Variable | Remarks |
|---|---|---|---|
| 1 | Current0ZoneSwitchStatus | 0ZoneSwitchStatus | See also 17.3.5 |

### 17.4.8. Set0ZoneSwitchStatus

(1)Description

Sets the zone switch status (Zone 0)

(2) Service type identifier

http://www.pucc.jp/2007/09/Device/Echonet/FloorHeating/Service/Set0ZoneSwitchStatus

(3) Input parameter

**Table 17.4.8-1: Input parameter of the Set0ZoneSwitchStatus service**

| | parameter | Related State Variable | Remarks |
|---|---|---|---|
| 1 | New0ZoneSwitchStatus | 0ZoneSwitchStatus | See also 17.3.5 |

(4) Output parameter

None

### 17.4.9. Get1ZoneSwitchStatus

(1)Description

Obtains the zone switch status (Zone 1)

(2) Service type identifier

http://www.pucc.jp/2007/09/Device/Echonet/FloorHeating/Service/Get1ZoneSwitchStatus

(3) Input parameter

None

(4) Output parameter

**Table 17.4.9-1: Output parameter of the Get1ZoneSwitchStatus service**

| | parameter | Related State Variable | Remarks |
|---|---|---|---|
| 1 | Current1ZoneSwitchStatus | 1ZoneSwitchStatus | See also 17.3.6 |

### 17.4.10. Set1ZoneSwitchStatus

(1)Description

Sets the zone switch status (Zone 1)

(2) Service type identifier

http://www.pucc.jp/2007/09/Device/Echonet/FloorHeating/Service/Set1ZoneSwitchStatus

(3) Input parameter

**Table 17.4.10-1: Input parameter of the Set1ZoneSwitchStatus service**

| | parameter | Related State Variable | Remarks |
|---|---|---|---|
| 1 | New1ZoneSwitchStatus | 1ZoneSwitchStatus | See also 17.3.6 |

(4) Output parameter

None

### 17.4.11. Get2ZoneSwitchStatus

(1)Description

Obtains the zone switch status (Zone 2)

(2) Service type identifier

http://www.pucc.jp/2007/09/Device/Echonet/FloorHeating/Service/Get2ZoneSwitchStatus

(3) Input parameter

None

(4) Output parameter

**Table 17.4.11-1: Output parameter of the Get2ZoneSwitchStatus service**

| | parameter | Related State Variable | Remarks |
|---|---|---|---|
| 1 | Current2ZoneSwitchStatus | 2ZoneSwitchStatus | See also 17.3.7 |

### 17.4.12. Set2ZoneSwitchStatus

(1)Description

Sets the zone switch status (Zone 2)

(2) Service type identifier

http://www.pucc.jp/2007/09/Device/Echonet/FloorHeating/Service/Set2ZoneSwitchStatus

(3) Input parameter

**Table 17.4.12-1: Input parameter of the Set2ZoneSwitchStatus service**

| | parameter | Related State Variable | Remarks |
|---|---|---|---|
| 1 | New2ZoneSwitchStatus | 2ZoneSwitchStatus | See also 17.3.7 |

(4) Output parameter

None

### 17.4.13. Get3ZoneSwitchStatus

(1)Description

Obtains the zone switch status (Zone 3))

(2) Service type identifier

http://www.pucc.jp/2007/09/Device/Echonet/FloorHeating/Service/Get3ZoneSwitchStatus

(3) Input parameter

None

(4) Output parameter

**Table 17.4.13-1: Output parameter of the Get3ZoneSwitchStatus service**

| | parameter | Related State Variable | Remarks |
|---|---|---|---|
| 1 | Current3ZoneSwitchStatus | 3ZoneSwitchStatus | See also 17.3.8 |

### 17.4.14. Set3ZoneSwitchStatus

(1)Description

Sets the zone switch status (Zone 3))

(2) Service type identifier

http://www.pucc.jp/2007/09/Device/Echonet/FloorHeating/Service/Set3ZoneSwitchStatus

(3) Input parameter

**Table 17.4.14-1: Input parameter of the Set3ZoneSwitchStatus service**

| | parameter | Related State Variable | Remarks |
|---|---|---|---|
| 1 | New3ZoneSwitchStatus | 3ZoneSwitchStatus | See also 17.3.8 |

(4) Output parameter

None

### 17.4.15. Get4ZoneSwitchStatus

(1)Description

Obtains the zone switch status (Zone 4)

(2) Service type identifier

http://www.pucc.jp/2007/09/Device/Echonet/FloorHeating/Service/Get4ZoneSwitchStatus

(3) Input parameter

None

(4) Output parameter

**Table 17.4.15-1: Output parameter of the Get4ZoneSwitchStatus service**

| | parameter | Related State Variable | Remarks |
|---|---|---|---|
| 1 | Current4ZoneSwitchStatus | 4ZoneSwitchStatus | See also 17.3.9 |

### 17.4.16. Set4ZoneSwitchStatus

(1)Description

Sets the zone switch status (Zone 4)

(2) Service type identifier

http://www.pucc.jp/2007/09/Device/Echonet/FloorHeating/Service/Set4ZoneSwitchStatus

(3) Input parameter

**Table 17.4.16-1: Input parameter of the Set4ZoneSwitchStatus service**

| | parameter | Related State Variable | Remarks |
|---|---|---|---|
| 1 | New4ZoneSwitchStatus | 4ZoneSwitchStatus | See also 17.3.9 |

(4) Output parameter

None

### 17.4.17. Get5ZoneSwitchStatus

(1)Description

Obtains the zone switch status (Zone 5)

(2) Service type identifier

http://www.pucc.jp/2007/09/Device/Echonet/FloorHeating/Service/Get5ZoneSwitchStatus

(3) Input parameter

None

(4) Output parameter

**Table 17.4.17-1: Output parameter of the Get5ZoneSwitchStatus service**

| | parameter | Related State Variable | Remarks |
|---|---|---|---|
| 1 | Current5ZoneSwitchStatus | 5ZoneSwitchStatus | See also 17.3.10 |

### 17.4.18. Set5ZoneSwitchStatus

(1)Description

Sets the zone switch status (Zone 5)

(2) Service type identifier

http://www.pucc.jp/2007/09/Device/Echonet/FloorHeating/Service/Set5ZoneSwitchStatus

(3) Input parameter

**Table 17.4.12-1: Input parameter of the Set2ZoneSwitchStatus service**

| | parameter | Related State Variable | Remarks |
|---|---|---|---|
| 1 | New5ZoneSwitchStatus | 5ZoneSwitchStatus | See also 17.3.10 |

(4) Output parameter

None

### 17.4.19. Get6ZoneSwitchStatus

(1)Description

Obtains the zone switch status (Zone 6)

(2) Service type identifier

http://www.pucc.jp/2007/09/Device/Echonet/FloorHeating/Service/Get6ZoneSwitchStatus

(3) Input parameter

None

(4) Output parameter

**Table 17.4.19-1: Output parameter of the Get6ZoneSwitchStatus service**

| | parameter | Related State Variable | Remarks |
|---|---|---|---|
| 1 | Current6ZoneSwitchStatus | 6ZoneSwitchStatus | See also 17.3.11 |

### 17.4.20. Set6ZoneSwitchStatus

(1)Description

Sets the zone switch status (Zone 6)

(2) Service type identifier

http://www.pucc.jp/2007/09/Device/Echonet/FloorHeating/Service/Set6ZoneSwitchStatus

(3) Input parameter

**Table 17.4.20-1: Input parameter of the Set6ZoneSwitchStatus service**

| | parameter | Related State Variable | Remarks |
|---|---|---|---|
| 1 | New6ZoneSwitchStatus | 6ZoneSwitchStatus | See also 17.3.11 |

(4) Output parameter

None

### 17.4.21. Get7ZoneSwitchStatus

(1)Description

Obtains the zone switch status (Zone 7)

(2) Service type identifier

http://www.pucc.jp/2007/09/Device/Echonet/FloorHeating/Service/Get7ZoneSwitchStatus

(3) Input parameter

None

(4) Output parameter

**Table 17.4.21-1: Output parameter of the Get7ZoneSwitchStatus service**

| | parameter | Related State Variable | Remarks |
|---|---|---|---|
| 1 | Current7ZoneSwitchStatus | 7ZoneSwitchStatus | See also 17.3.12 |

### 17.4.22. Set7ZoneSwitchStatus

(1)Description

Sets the zone switch status (Zone 7)

(2) Service type identifier

http://www.pucc.jp/2007/09/Device/Echonet/FloorHeating/Service/Set7ZoneSwitchStatus

(3) Input parameter

**Table 17.4.22-1: Input parameter of the Set7ZoneSwitchStatus service**

| | parameter | Related State Variable | Remarks |
|---|---|---|---|
| 1 | New7ZoneSwitchStatus | 7ZoneSwitchStatus | See also 17.3.12 |

(4) Output parameter

None

### 17.4.23. GetSpecialOperationStatus

(1)Description

Obtains the special operation status

(2) Service type identifier

http://www.pucc.jp/2007/09/Device/Echonet/FloorHeating/Service/GetSpecialOperationStatus

(3) Input parameter

None

(4) Output parameter

**Table 17.4.23-1: Output parameter of the GetSpecianOperationStatus service**

| | parameter | Related State Variable | Remarks |
|---|---|---|---|
| 1 | CurrentSpecialOperationStatus | SpecialOperationStatus | See also 17.3.13 |

### 17.4.24. SetSpecialOperationStatus

(1)Description

Sets the special operation status

(2) Service type identifier

http://www.pucc.jp/2007/09/Device/Echonet/FloorHeating/Service/SetSpecialOperationStatus

(3) Input parameter

**Table 17.4.24-1: Input parameter of the SetSpecianOperationStatus service**

| | parameter | Related State Variable | Remarks |
|---|---|---|---|
| 1 | NewSpecialOperationStatus | SpecialOperationStatus | See also 17.3.13 |

(4) Output parameter

None

### 17.4.25. GetDailyTimerStatus

(1)Description

Obtains the daily timer status

(2) Service type identifier

http://www.pucc.jp/2007/09/Device/Echonet/FloorHeating/Service/GetDailyTimerStatus

(3) Input parameter

None

(4) Output parameter

**Table 17.4.25-1: Output parameter of the GetDailyTimerStatus service**

| | parameter | Related State Variable | Remarks |
|---|---|---|---|
| 1 | CurrentDailyTimerStatus | DailyTimerStatus | See also 17.3.14 |

### 17.4.26. SetDailyTimerStatus

(1)Description

Sets the daily timer status

(2) Service type identifier

http://www.pucc.jp/2007/09/Device/Echonet/FloorHeating/Service/SetDailyTimerStatus

(3) Input parameter

**Table 17.4.26-1: Input parameter of the GetDailyTimerStatus service**

| | parameter | Related State Variable | Remarks |
|---|---|---|---|
| 1 | NewDailyTimerStatus | DailyTimerStatus | See also 17.3.14 |

(4) Output parameter

None

### 17.4.27. GetDailyTimer1

(1)Description

Obtains the daily timer 1 setting value

(2) Service type identifier

http://www.pucc.jp/2007/09/Device/Echonet/FloorHeating/Service/GetDailyTimer1

(3) Input parameter

None

(4) Output parameter

**Table 17.4.27-1: Output parameter of the GetDailyTimer1 service**

| | parameter | Related State Variable | Remarks |
|---|---|---|---|
| 1 | CurrentDailyTimer1 | DailyTimer1 | See also 17.3.15 |

### 17.4.28. SetDailyTimer1

(1)Description

Sets the daily timer 1 setting value

(2) Service type identifier

http://www.pucc.jp/2007/09/Device/Echonet/FloorHeating/Service/SetDailyTimer1

(3) Input parameter

**Table 17.4.28-1: Input parameter of the SetDailyTimer1 service**

| | parameter | Related State Variable | Remarks |
|---|---|---|---|
| 1 | NewDailyTimer1 | DailyTimer1 | See also 17.3.15 |

(4) Output parameter

None

### 17.4.29. GetDailyTimer2

(1)Description

Obtains the daily timer 2 setting value

(2) Service type identifier

http://www.pucc.jp/2007/09/Device/Echonet/FloorHeating/Service/GetDailyTimer2

(3) Input parameter

None

(4) Output parameter

**Table 17.4.29-1: Output parameter of the GetDailyTimer2 service**

| | parameter | Related State Variable | Remarks |
|---|---|---|---|
| 1 | CurrentDailyTimer2 | DailyTimer2 | See also 17.3.16 |

### 17.4.30. SetDailyTimer2

(1)Description

Sets the daily timer 2 setting value

(2) Service type identifier

http://www.pucc.jp/2007/09/Device/Echonet/FloorHeating/Service/SetDailyTimer2

(3) Input parameter

**Table 17.4.30-1: Input parameter of the SetDailyTimer2 service**

| | parameter | Related State Variable | Remarks |
|---|---|---|---|
| 1 | NewDailyTimer2 | DailyTimer2 | See also 17.3.16 |

(4) Output parameter

None

### 17.4.31. GetOnTimerStatus

(1)Description

Obtains the ON timer reservation status

(2) Service type identifier

http://www.pucc.jp/2007/09/Device/Echonet/FloorHeating/Service/GetOnTimerStatus

(3) Input parameter

None

(4) Output parameter

**Table 17.4.31-1: Output parameter of the GetOnTimerStatus service**

| | parameter | Related State Variable | Remarks |
|---|---|---|---|
| 1 | CurrentOnTimerStatus | OnTimerStatus | See also 17.3.17 |

### 17.4.32. SetOnTimerStatus

(1)Description

Sets the ON timer reservation status

(2) Service type identifier

http://www.pucc.jp/2007/09/Device/Echonet/FloorHeating/Service/SetOnTimerStatus

(3) Input parameter

**Table 17.4.32-1: Input parameter of the GetOnTimerStatus service**

| | parameter | Related State Variable | Remarks |
|---|---|---|---|
| 1 | NewOnTimerStatus | OnTimerStatus | See also 17.3.17 |

(4) Output parameter

None

### 17.4.33. GetOnTimerAbsoluteTime

(1)Description

Obtains the ON timer setting time value

(2) Service type identifier

http://www.pucc.jp/2007/09/Device/Echonet/FloorHeating/Service/GetOnTimerAbsoluteTime

(3) Input parameter

None

(4) Output parameter

**Table 17.4.33-1: Output parameter of the GetOnTimerAbsoluteTime service**

| | parameter | Related State Variable | Remarks |
|---|---|---|---|
| 1 | CurrentOnTimerAbsoluteTime | OnTimerAbsoluteTime | See also 17.3.18 |

### 17.4.34. SetOnTimerAbsoluteTime

(1)Description

Sets the ON timer setting time value

(2) Service type identifier

http://www.pucc.jp/2007/09/Device/Echonet/FloorHeating/Service/SetOnTimerAbsoluteTime

(3) Input parameter

**Table 17.4.34-1: Input parameter of the SetOnTimerAbsoluteTime service**

| | parameter | Related State Variable | Remarks |
|---|---|---|---|
| 1 | NewOnTimerAbsoluteTime | OnTimerAbsoluteTime | See also 17.3.18 |

(4) Output parameter

None

### 17.4.35. GetOnTimerRelativeTime

(1)Description

Obtains the ON timer setting relative time value

(2) Service type identifier

http://www.pucc.jp/2007/09/Device/Echonet/FloorHeating/Service/GetOnTimerRelativeTime

(3) Input parameter

None

(4) Output parameter

**Table 17.4.35-1: Output parameter of the GetOnTimerRelativeTime service**

| | parameter | Related State Variable | Remarks |
|---|---|---|---|
| 1 | CurrentOnTimerRelativeTime | OnTimerRelativeTime | See also 17.3.19 |

### 17.4.36. SetOnTimerRelativeTime

(1)Description

Sets the ON timer setting relative time value

(2) Service type identifier

http://www.pucc.jp/2007/09/Device/Echonet/FloorHeating/Service/SetOnTimerRelativeTime

(3) Input parameter

**Table 17.4.36-1: Input parameter of the SetOnTimerRelativeTime service**

| | parameter | Related State Variable | Remarks |
|---|---|---|---|
| 1 | NewOnTimerRelativeTime | NewRelativeTime | See also 17.3.19 |

(4) Output parameter

None

### 17.4.37. GetOffTimerStatus

(1)Description

Obtains the OFF timer reservation status

(2) Service type identifier

http://www.pucc.jp/2007/09/Device/Echonet/FloorHeating/Service/GetOffTimerStatus

(3) Input parameter

None

(4) Output parameter

**Table 17.4.37-1: Output parameter of the GetOffTimerStatus service**

| | parameter | Related State Variable | Remarks |
|---|---|---|---|
| 1 | CurrentOffTimerStatus | OffTimerStatus | See also 17.3.20 |

### 17.4.38. SetOffTimerStatus

(1)Description

Sets the OFF timer reservation status

(2) Service type identifier

http://www.pucc.jp/2007/09/Device/Echonet/FloorHeating/Service/SetOffTimerStatus

(3) Input parameter

**Table 17.4.38-1: Input parameter of the SetOffTimerStatus service**

| | parameter | Related State Variable | Remarks |
|---|---|---|---|
| 1 | NewOffTimerStatus | OffTimerStatus | See also 17.3.20 |

(4) Output parameter

None

### 17.4.39. GetOffTimerAbsoluteTime

(1)Description

Obtains the OFF timer setting time value

(2) Service type identifier

http://www.pucc.jp/2007/09/Device/Echonet/FloorHeating/Service/GetOffTimerAbsoluteTime

(3) Input parameter

None

(4) Output parameter

**Table 17.4.39-1: Output parameter of the GetOffTimerAbsoluteTime service**

| | parameter | Related State Variable | Remarks |
|---|---|---|---|
| 1 | CurrentOffTimerAbsoluteTime | OffTimerAbsoluteTime | See also 17.3.21 |

### 17.4.40. SetOffTimerAbsoluteTime

(1)Description

Sets the OFF timer setting time value

(2) Service type identifier

http://www.pucc.jp/2007/09/Device/Echonet/FloorHeating/Service/SetOffTimerAbsoluteTime

(3) Input parameter

**Table 17.4.40-1: Input parameter of the SetOffTimerAbsoluteTime service**

| | parameter | Related State Variable | Remarks |
|---|---|---|---|
| 1 | NewOffTimerAbsoluteTime | OffTimerAbsoluteTime | See also 17.3.21 |

(4) Output parameter

None

### 17.4.41. GetOffTimerRelativeTime

(1)Description

Obtains the OFF timer setting relative time value

(2) Service type identifier

http://www.pucc.jp/2007/09/Device/Echonet/FloorHeating/Service/GetOffTimerRelativeTime

(3) Input parameter

None

(4) Output parameter

**Table 17.4.41-1: Output parameter of the GetOffTimerRelativeTime service**

| | parameter | Related State Variable | Remarks |
|---|---|---|---|
| 1 | CurrentOffTimerRelativeTime | OffTimerRelativeTime | See also 17.3.22 |

### 17.4.42. SetOffTimerRelativeTime

(1)Description

Sets the OFF timer setting relative time value

(2) Service type identifier

http://www.pucc.jp/2007/09/Device/Echonet/FloorHeating/Service/SetOffTimerRelativeTime

(3) Input parameter

**Table 17.4.42-1: Input parameter of the SetOffTimerRelativeTime service**

| | parameter | Related State Variable | Remarks |
|---|---|---|---|
| 1 | NewOffTimerRelativeTime | OffTimerRelativeTime | See also 17.3.22 |

(4) Output parameter

None

### 17.4.43. GetIcon

(1)Description

Obtains the icon

(2) Service type identifier

http://www.pucc.jp/2007/09/Device/FloorHeating/Service/GetIcon

(3) Input parameter

**Table 17.4.43-1: Input parameter of the GetIcon service**

| | parameter | Related State Variable | Data Type | Remarks |
|---|---|---|---|---|
| 1 | url | - | string | sets the URL of an icon image |

(4) Output parameter

**Table 17.4.43-2: Output parameters of the GetIcon service**

| | parameter | Related State Variable | Data Type | Remarks |
|---|---|---|---|---|
| 1 | mimeType | - | string | Sets the MIME type of an icon image |
| 2 | base64Data | - | base64Binary | Sets the data of the BASE64-encoded image of an icon |

## 17.5. Metadata

### 17.5.1. Device Metadata

The template of floor heating devices is shown below.

*Italic letters in red*: differ by the entity of each floor heating device

```
<?xml version="1.0"?>
<Device  type="http://www.pucc.jp/2007/09/Device/Echonet/FloorHeating"
          id="global unique ID for this device"  name="short user-friendly title">
  <Specification>
    <URLBase>base URL for all relative URLs</URLBase>
    <Manufacturer>manufacturer name</Manufacturer>
    <ManufacturerURL>URL to manufacturer site</ManufacturerURL>
    <ManufactureDate>date of manufacture</ManufactureDate>
    <ModelDescription>long user-friendly title</ModelDescription>
    <ModelName>model name</ModelName>
    <ModelNumber>model number</ModelNumber>
    <ModelURL>URL to model site</ModelURL>
    <SerialNumber>manufacturer's serial number</SerialNumber>
    <UDN>uuid:UUID</UDN>
    <UPC>Universal Product Code</UPC>
    <IconList>
      <Icon>
        <Mimetype>image/format</Mimetype>
        <Width>horizontal pixels</width>
        <Height>vertical pixels</height>
        <Depth>color depth</depth>
        <Url>URL to icon</Url>
      </icon>
      XML to declare other icons, if any, go here
    </IconList>
  </Specification>
  <StateVariableList>
        :
    (Insert the metadata definition of the state variables common to devices shown in 6.3.1)
        :
    <StateVariable  name="Desired1TempSetting"  datatype="hexBinary"  sendEvents="no"/>
    <StateVariable  name="Desired2TempSetting "  datatype="hexBinary"  sendEvents="no"/>
    <StateVariable  name="MeasuredRoomTemp"  datatype="integer"  sendEvents="no">
      <AllowedValueRange>
        <Minimum>-127</Minimum>
        <Maximum>125</Maximum>
```

```
        <Step>1</Step>
      </AllowedValueRange>
    </StateVariable>
    <StateVariable  name="MeasuredFloorTemp"  datatype="integer"  sendEvents="no">
      <AllowedValueRange>
        <Minimum>0</Minimum>
        <Maximum>50</Maximum>
        <Step>1</Step>
      </AllowedValueRange>
    </StateVariable>
    <StateVariable  name="0ZoneSwitchStatus"  datatype="string"  sendEvents="no">
      <AllowedValueList>
        <AllowedValue>ON</AllowedValue>
        <AllowedValue>OFF</AllowedValue>
      </AllowedValueList>
    </StateVariable>
    <StateVariable  name="1ZoneSwitchStatus"  datatype="string"  sendEvents="no">
      <AllowedValueList>
        <AllowedValue>ON</AllowedValue>
        <AllowedValue>OFF</AllowedValue>
      </AllowedValueList>
    </StateVariable>
    <StateVariable  name="2ZoneSwitchStatus"  datatype="string"  sendEvents="no">
      <AllowedValueList>
        <AllowedValue>ON</AllowedValue>
        <AllowedValue>OFF</AllowedValue>
      </AllowedValueList>
    </StateVariable>
    <StateVariable  name="3ZoneSwitchStatus"  datatype="string"  sendEvents="no">
      <AllowedValueList>
        <AllowedValue>ON</AllowedValue>
        <AllowedValue>OFF</AllowedValue>
      </AllowedValueList>
    </StateVariable>
    <StateVariable  name="4ZoneSwitchStatus"  datatype="string"  sendEvents="no">
      <AllowedValueList>
        <AllowedValue>ON</AllowedValue>
        <AllowedValue>OFF</AllowedValue>
      </AllowedValueList>
    </StateVariable>
    <StateVariable  name="5ZoneSwitchStatus"  datatype="string"  sendEvents="no">
      <AllowedValueList>
        <AllowedValue>ON</AllowedValue>
        <AllowedValue>OFF</AllowedValue>
      </AllowedValueList>
    </StateVariable>
     <StateVariable  name="6ZoneSwitchStatus"  datatype="string"  sendEvents="no">
```

```
        <AllowedValueList>
          <AllowedValue>ON</AllowedValue>
          <AllowedValue>OFF</AllowedValue>
        </AllowedValueList>
      </StateVariable>
      <StateVariable  name="7ZoneSwitchStatus"  datatype="string"  sendEvents="no">
        <AllowedValueList>
          <AllowedValue>ON</AllowedValue>
          <AllowedValue>OFF</AllowedValue>
        </AllowedValueList>
      </StateVariable>
      <StateVariable  name="SpecialOperationStatus" datatype="string" sendEvents="no">
        <AllowedValueList>
          <AllowedValue>Normal</AllowedValue>
          <AllowedValue>Gently</AllowedValue>
          <AllowedValue>HighPower</AllowedValue>
        </AllowedValueList>
      </StateVariable>
      <StateVariable  name="DailyTimerStatus" datatype="string" sendEvents="no">
        <AllowedValueList>
          <AllowedValue>OFF</AllowedValue>
          <AllowedValue>Timer1</AllowedValue>
          <AllowedValue>Timer2</AllowedValue>
        </AllowedValueList>
      </StateVariable>
      <StateVariable  name="DailyTimer1" datatype="hexBinary" sendEvents="no"/>
      <StateVariable  name="DailyTimer2" datatype="hexBinary" sendEvents="no"/>
      <StateVariable  name="OnTimerStatus" datatype="string" sendEvents="no">
        <AllowedValueList>
          <AllowedValue>ON</AllowedValue>
          <AllowedValue>OFF</AllowedValue>
        </AllowedValueList>
      </StateVariable>
      <StateVariable  name="OnTimerAbsoluteTime" datatype="time" sendEvents="no"/>
      <StateVariable  name="OnTimerRelativeTime" datatype="time" sendEvents="no"/>
      <StateVariable  name="OffTimerStatus" datatype="string" sendEvents="no">
        <AllowedValueList>
          <AllowedValue>ON</AllowedValue>
          <AllowedValue>OFF</AllowedValue>
        </AllowedValueList>
      </StateVariable>
      <StateVariable  name="OffTimerAbsoluteTime" datatype="time" sendEvents="no"/>
      <StateVariable  name="OffTimerRelativeTime" datatype="time" sendEvents="no"/>
    </StateVariableList>
    <ServiceList>
          :
    (Insert the metadata definition of the services common to devices shown in 6.3.2)
```

```
        :
    <Service    name="GetDesired1TempSetting"
        type="http://www.pucc.jp/2007/09/Device/Echonet/FloorHeating/Service/GetDesired1TempSetting"/>
    <Service    name="SetDesired1TempSetting"
        type="http://www.pucc.jp/2007/09/Device/Echonet/FloorHeating/Service/SetDesired1TempSetting"/>
    <Service    name="GetDesired2TempSetting"
        type="http://www.pucc.jp/2007/09/Device/Echonet/FloorHeating/Service/GetDesired2TempSetting"/>
    <Service    name="SetDesired2TempSetting"
        type="http://www.pucc.jp/2007/09/Device/Echonet/FloorHeating/Service/SetDesired2TempSetting"/>
    <Service    name="ReadMeasuredRoomTemp
        type="http://www.pucc.jp/2007/09/Device/Echonet/FloorHeating/Service/ReadMeasuredRoomTemp"/>
    <Service    name="ReadMeasuredFloorTemp
        type="http://www.pucc.jp/2007/09/Device/Echonet/FloorHeating/Service/ReadMeasuredFloorTemp"/>
    <Service    name="Get0ZoneSwitchStatus
        type="http://www.pucc.jp/2007/09/Device/Echonet/FloorHeating/Service/Get0ZoneSwitchStatus"/>
    <Service    name="Set0ZoneSwitchStatus
        type="http://www.pucc.jp/2007/09/Device/Echonet/FloorHeating/Service/Set0ZoneSwitchStatus"/>
    <Service    name="Get1ZoneSwitchStatus
        type="http://www.pucc.jp/2007/09/Device/Echonet/FloorHeating/Service/Get1ZoneSwitchStatus"/>
    <Service    name="Set1ZoneSwitchStatus
        type="http://www.pucc.jp/2007/09/Device/Echonet/FloorHeating/Service/Set1ZoneSwitchStatus"/>
    <Service    name="Get2ZoneSwitchStatus
        type="http://www.pucc.jp/2007/09/Device/Echonet/FloorHeating/Service/Get2ZoneSwitchStatus"/>
    <Service    name="Set2ZoneSwitchStatus
        type="http://www.pucc.jp/2007/09/Device/Echonet/FloorHeating/Service/Set2ZoneSwitchStatus"/>
    <Service    name="Get3ZoneSwitchStatus
        type="http://www.pucc.jp/2007/09/Device/Echonet/FloorHeating/Service/Get3ZoneSwitchStatus"/>
    <Service    name="Set3ZoneSwitchStatus
        type="http://www.pucc.jp/2007/09/Device/Echonet/FloorHeating/Service/Set3ZoneSwitchStatus"/>
    <Service    name="Get4ZoneSwitchStatus
        type="http://www.pucc.jp/2007/09/Device/Echonet/FloorHeating/Service/Get4ZoneSwitchStatus"/>
    <Service    name="Set4ZoneSwitchStatus
        type="http://www.pucc.jp/2007/09/Device/Echonet/FloorHeating/Service/Set4ZoneSwitchStatus"/>
    <Service    name="Get5ZoneSwitchStatus
        type="http://www.pucc.jp/2007/09/Device/Echonet/FloorHeating/Service/Get5ZoneSwitchStatus"/>
    <Service    name="Set5ZoneSwitchStatus
        type="http://www.pucc.jp/2007/09/Device/Echonet/FloorHeating/Service/Set5ZoneSwitchStatus"/>
    <Service    name="Get6ZoneSwitchStatus
        type="http://www.pucc.jp/2007/09/Device/Echonet/FloorHeating/Service/Get6ZoneSwitchStatus"/>
    <Service    name="Set6ZoneSwitchStatus
        type="http://www.pucc.jp/2007/09/Device/Echonet/FloorHeating/Service/Set6ZoneSwitchStatus"/>
    <Service    name="Get7ZoneSwitchStatus
        type="http://www.pucc.jp/2007/09/Device/Echonet/FloorHeating/Service/Get7ZoneSwitchStatus"/>
    <Service    name="Set7ZoneSwitchStatus
        type="http://www.pucc.jp/2007/09/Device/Echonet/FloorHeating/Service/Set7ZoneSwitchStatus"/>
    <Service    name="GetSpecialOperationStatus
        type="http://www.pucc.jp/2007/09/Device/Echonet/FloorHeating/Service/GetSpecialOperationStatus"/>
```

```
    <Service   name="SetSpecialOperationStatus
        type="http://www.pucc.jp/2007/09/Device/Echonet/FloorHeating/Service/SetSpecialOperationStatus"/>
    <Service   name="GetDailyTimerStatus
        type="http://www.pucc.jp/2007/09/Device/Echonet/FloorHeating/Service/GetDailyTimerStatus"/>
    <Service   name="SetDailyTimerStatus
        type="http://www.pucc.jp/2007/09/Device/Echonet/FloorHeating/Service/SetDailyTimerStatus"/>
    <Service   name="GetDailyTimer1
        type="http://www.pucc.jp/2007/09/Device/Echonet/FloorHeating/Service/GetDailyTimer1"/>
    <Service   name="SetDailyTimer1
        type="http://www.pucc.jp/2007/09/Device/Echonet/FloorHeating/Service/SetDailyTimer1"/>
    <Service   name="GetDailyTimer2
        type="http://www.pucc.jp/2007/09/Device/Echonet/FloorHeating/Service/GetDailyTimer2"/>
    <Service   name="SetDailyTimer2
        type="http://www.pucc.jp/2007/09/Device/Echonet/FloorHeating/Service/SetDailyTimer2"/>
    <Service   name="GetOnTimerStatus
        type="http://www.pucc.jp/2007/09/Device/Echonet/FloorHeating/Service/GetOnTimerStatus"/>
    <Service   name="SetOnTimerStatus
        type="http://www.pucc.jp/2007/09/Device/Echonet/FloorHeating/Service/SetOnTimerStatus"/>
    <Service   name="GetOnTimerAbsoluteTime
        type="http://www.pucc.jp/2007/09/Device/Echonet/FloorHeating/Service/GetOnTimerAbsoluteTime"/>
    <Service   name="SetOnTimerAbsoluteTime
        type="http://www.pucc.jp/2007/09/Device/Echonet/FloorHeating/Service/SetOnTimerAbsoluteTime"/>
    <Service   name="GetOnTimerRelativeTime
        type="http://www.pucc.jp/2007/09/Device/Echonet/FloorHeating/Service/GetOnTimerRelativeTime"/>
    <Service   name="SetOnTimerRelativeTime
        type="http://www.pucc.jp/2007/09/Device/Echonet/FloorHeating/Service/SetOnTimerRelativeTime"/>
    <Service   name="GetOffTimerStatus
        type="http://www.pucc.jp/2007/09/Device/Echonet/FloorHeating/Service/GetOffTimerStatus"/>
    <Service   name="SetOffTimerStatus
        type="http://www.pucc.jp/2007/09/Device/Echonet/FloorHeating/Service/SetOffTimerStatus"/>
    <Service   name="GetOffTimerAbsoluteTime
        type="http://www.pucc.jp/2007/09/Device/Echonet/FloorHeating/Service/GetOffTimerAbsoluteTime"/>
    <Service   name="SetOffTimerAbsoluteTime
        type="http://www.pucc.jp/2007/09/Device/Echonet/FloorHeating/Service/SetOffTimerAbsoluteTime"/>
    <Service   name="GetOffTimerRelativeTime
        type="http://www.pucc.jp/2007/09/Device/Echonet/FloorHeating/Service/GetOffTimerRelativeTime"/>
    <Service   name="SetOffTimerRelativeTime
        type="http://www.pucc.jp/2007/09/Device/Echonet/FloorHeating/Service/SetOffTimerRelativeTime"/>
    <Service   name="GetIcon"
        type="http://www.pucc.jp/2007/09/Device/Echonet/FloorHeating/Service/GetIcon"/>
  </ServiceList>
  <PrimitiveDeviceList/>
</Device>
```

### 17.5.2. Service Metadata

The metadata templates of the services that floor heating devices have are shown below.

※ See 6.3.2.for the metadata of the services common to devices.

(1)GetDesired1TempSetting service metadata

```
<?xml version="1.0" ?>
<Service      type="http://www.pucc.jp/2007/09/Device/Echonet/FloorHeating/Service/GetDesired1TempSetting"
      name="GetDesired1TempSetting">
   <InputParameterList/>
   <OutputParameterList>
      <Parameter name="CurrentDesired1TempSetting" relatedStateVariable="Desired1TempSetting"/>
   </OutputParameterList>
</Service>
```

(2)SetDesired1TempSetting service metadata

```
<?xml version="1.0" ?>
<Service      type="http://www.pucc.jp/2007/09/Device/Echonet/FloorHeating/Service/SetDesired1TempSetting"
      name="SetDesired1TempSetting">
   <InputParameterList>
      <Parameter name="NewDesired1TempSetting" relatedStateVariable="Desired1TempSetting"/>
   </InputParameterList>
   <OutputParameterList/>
</Service>
```

(3)GetDesired2TempSetting service metadata

```
<?xml version="1.0" ?>
<Service      type="http://www.pucc.jp/2007/09/Device/Echonet/FloorHeating/Service/GetDesired2TempSetting"
      name="GetDesired2TempSetting">
   <InputParameterList/>
   <OutputParameterList>
      <Parameter name="CurrentDesired2TempSetting" relatedStateVariable="Desired2TempSetting"/>
   </OutputParameterList>
</Service>
```

(4)SetDesired2TempSetting service metadata

```
<?xml version="1.0" ?>
<Service     type="http://www.pucc.jp/2007/09/Device/Echonet/FloorHeating/Service/SetDesired2TempSetting"
      name="SetDesired2TempSetting">
  <InputParameterList>
    <Parameter name="NewDesired2TempSetting" relatedStateVariable="Desired2TempSetting"/>
  </InputParameterList>
  <OutputParameterList/>
</Service>
```

(5)ReadMeasuredRoomTemp service metadata

```
<?xml version="1.0" ?>
<Service     type="http://www.pucc.jp/2007/09/Device/Echonet/FloorHeating/Service/ReadMeasuredRoomTemp"
      name="ReadMeasuredRoomTemp">
  <InputParameterList/>
  <OutputParameterList>
    <Parameter name="CurrentMeasuredRoomTemp" relatedStateVariable="MeasuredRoomTemp"/>
  </OutputParameterList>
</Service>
```

(6)ReadMeasuredFloorTemp service metadata

```
<?xml version="1.0" ?>
<Service     type="http://www.pucc.jp/2007/09/Device/Echonet/FloorHeating/Service/ReadMeasuredFloorTemp"
      name="ReadMeasuredFloorTemp">
  <InputParameterList/>
  <OutputParameterList>
    <Parameter name="CurrentMeasuredFloorTemp" relatedStateVariable="MeasuredFloorTemp"/>
  </OutputParameterList>
</Service>
```

(7)Get0ZoneSwitchStatus service metadata

```
<?xml version="1.0" ?>
<Service     type="http://www.pucc.jp/2007/09/Device/Echonet/FloorHeating/Service/Get0ZoneSwitchStatus"
      name="Get0ZoneSwitchStatus">
  <InputParameterList/>
  <OutputParameterList>
    <Parameter name="Current0ZoneSwitchStatus" relatedStateVariable="0ZoneSwitchStatus"/>
  </OutputParameterList>
</Service>
```

(8)Set0ZoneSwitchStatus service metadata

```
<?xml version="1.0" ?>
<Service      type="http://www.pucc.jp/2007/09/Device/Echonet/FloorHeating/Service/Set0ZoneSwitchStatus"
      name="Set0ZoneSwitchStatus">
   <InputParameterList>
      <Parameter name="New0ZoneSwitchStatus" relatedStateVariable="1ZoneSwitchStatus"/>
   </InputParameterList>
   <OutputParameterList/>
</Service>
```

(9)Get1ZoneSwitchStatus service metadata

```
<?xml version="1.0" ?>
<Service      type="http://www.pucc.jp/2007/09/Device/Echonet/FloorHeating/Service/Get1ZoneSwitchStatus"
      name="Get1ZoneSwitchStatus">
   <InputParameterList/>
   <OutputParameterList>
      <Parameter name="Current1ZoneSwitchStatus" relatedStateVariable="1ZoneSwitchStatus"/>
   </OutputParameterList>
</Service>
```

(10)Set1ZoneSwitchStatus service metadata

```
<?xml version="1.0" ?>
<Service      type="http://www.pucc.jp/2007/09/Device/Echonet/FloorHeating/Service/Set1ZoneSwitchStatus"
      name="Set1ZoneSwitchStatus">
   <InputParameterList>
      <Parameter name="New1ZoneSwitchStatus" relatedStateVariable="1ZoneSwitchStatus"/>
   </InputParameterList>
   <OutputParameterList/>
</Service>
```

(11)Get2ZoneSwitchStatus service metadata

```
<?xml version="1.0" ?>
<Service      type="http://www.pucc.jp/2007/09/Device/Echonet/FloorHeating/Service/Get2ZoneSwitchStatus"
      name="Get2ZoneSwitchStatus">
   <InputParameterList/>
   <OutputParameterList>
      <Parameter name="Current2ZoneSwitchStatus" relatedStateVariable="2ZoneSwitchStatus"/>
   </OutputParameterList>
</Service>
```

(12)Set2ZoneSwitchStatus service metadata

```
<?xml version="1.0" ?>
<Service     type="http://www.pucc.jp/2007/09/Device/Echonet/FloorHeating/Service/Set2ZoneSwitchStatus"
      name="Set2ZoneSwitchStatus">
  <InputParameterList>
     <Parameter name="New2ZoneSwitchStatus" relatedStateVariable="2ZoneSwitchStatus"/>
  </InputParameterList>
  <OutputParameterList/>
</Service>
```

(13)Get3ZoneSwitchStatus service metadata

```
<?xml version="1.0" ?>
<Service     type="http://www.pucc.jp/2007/09/Device/Echonet/FloorHeating/Service/Get3ZoneSwitchStatus"
      name="Get3ZoneSwitchStatus">
  <InputParameterList/>
  <OutputParameterList>
     <Parameter name="Current3ZoneSwitchStatus" relatedStateVariable="3ZoneSwitchStatus"/>
  </OutputParameterList>
</Service>
```

(14)Set3ZoneSwitchStatus service metadata

```
<?xml version="1.0" ?>
<Service     type="http://www.pucc.jp/2007/09/Device/Echonet/FloorHeating/Service/Set3ZoneSwitchStatus"
      name="Set3ZoneSwitchStatus">
  <InputParameterList>
     <Parameter name="New3ZoneSwitchStatus" relatedStateVariable="3ZoneSwitchStatus"/>
  </InputParameterList>
  <OutputParameterList/>
</Service>
```

(15)Get4ZoneSwitchStatus service metadata

```
<?xml version="1.0" ?>
<Service     type="http://www.pucc.jp/2007/09/Device/Echonet/FloorHeating/Service/Get4ZoneSwitchStatus"
      name="Get4ZoneSwitchStatus">
  <InputParameterList/>
  <OutputParameterList>
     <Parameter name="Current4ZoneSwitchStatus" relatedStateVariable="4ZoneSwitchStatus"/>
  </OutputParameterList>
</Service>
```

(16)Set4ZoneSwitchStatus service metadata

```
<?xml version="1.0" ?>
<Service     type="http://www.pucc.jp/2007/09/Device/Echonet/FloorHeating/Service/Set4ZoneSwitchStatus"
      name="Set4ZoneSwitchStatus">
  <InputParameterList>
     <Parameter name="New4ZoneSwitchStatus" relatedStateVariable="4ZoneSwitchStatus"/>
  </InputParameterList>
  <OutputParameterList/>
</Service>
```

(17)Get5ZoneSwitchStatus service metadata

```
<?xml version="1.0" ?>
<Service     type="http://www.pucc.jp/2007/09/Device/Echonet/FloorHeating/Service/Get5ZoneSwitchStatus"
      name="Get5ZoneSwitchStatus">
  <InputParameterList/>
  <OutputParameterList>
     <Parameter name="Current5ZoneSwitchStatus" relatedStateVariable="5ZoneSwitchStatus"/>
  </OutputParameterList>
</Service>
```

(18)Set5ZoneSwitchStatus service metadata

```
<?xml version="1.0" ?>
<Service     type="http://www.pucc.jp/2007/09/Device/Echonet/FloorHeating/Service/Set5ZoneSwitchStatus"
      name="Set5ZoneSwitchStatus">
  <InputParameterList>
     <Parameter name="New5ZoneSwitchStatus" relatedStateVariable="5ZoneSwitchStatus"/>
  </InputParameterList>
  <OutputParameterList/>
</Service>
```

(19)Get6ZoneSwitchStatus service metadata

```
<?xml version="1.0" ?>
<Service     type="http://www.pucc.jp/2007/09/Device/Echonet/FloorHeating/Service/Get6ZoneSwitchStatus"
      name="Get5ZoneSwitchStatus">
  <InputParameterList/>
  <OutputParameterList>
     <Parameter name="Current6ZoneSwitchStatus" relatedStateVariable="6ZoneSwitchStatus"/>
  </OutputParameterList>
</Service>
```

(20)Set6ZoneSwitchStatus service metadata

```
<?xml version="1.0" ?>
<Service     type="http://www.pucc.jp/2007/09/Device/Echonet/FloorHeating/Service/Set6ZoneSwitchStatus"
      name="Set6ZoneSwitchStatus">
  <InputParameterList>
     <Parameter name="New6ZoneSwitchStatus" relatedStateVariable="6ZoneSwitchStatus"/>
  </InputParameterList>
  <OutputParameterList/>
</Service>
```

(21)Get7ZoneSwitchStatus service metadata

```
<?xml version="1.0" ?>
<Service     type="http://www.pucc.jp/2007/09/Device/Echonet/FloorHeating/Service/Get7ZoneSwitchStatus"
      name="Get7ZoneSwitchStatus">
  <InputParameterList/>
  <OutputParameterList>
     <Parameter name="Current7ZoneSwitchStatus" relatedStateVariable="7ZoneSwitchStatus"/>
  </OutputParameterList>
</Service>
```

(22)Set7ZoneSwitchStatus service metadata

```
<?xml version="1.0" ?>
<Service     type="http://www.pucc.jp/2007/09/Device/Echonet/FloorHeating/Service/Set7ZoneSwitchStatus"
      name="Set7ZoneSwitchStatus">
  <InputParameterList>
     <Parameter name="New7ZoneSwitchStatus" relatedStateVariable="7ZoneSwitchStatus"/>
  </InputParameterList>
  <OutputParameterList/>
</Service>
```

(23)GetSpecialOperationStatus service metadata

```
<?xml version="1.0" ?>
<Service     type="http://www.pucc.jp/2007/09/Device/Echonet/FloorHeating/Service/GetSpecialOperationStatus"
      name="GetSpecialOperationStatus">
  <InputParameterList/>
  <OutputParameterList>
     <Parameter name="CurrentSpecialOperationStatus" relatedStateVariable="SpecialOperationStatus"/>
  </OutputParameterList>
</Service>
```

(24)SetSpecialOperationStatus service metadata

```
<?xml version="1.0" ?>
<Service      type="http://www.pucc.jp/2007/09/Device/Echonet/FloorHeating/Service/SetSpecialOperationStatus"
      name="SetSpecialOperationStatus">
   <InputParameterList>
      <Parameter name="NewSpecialOperationStatus" relatedStateVariable="SpecialOperationStatus"/>
   </InputParameterList>
   <OutputParameterList/>
</Service>
```

(25)GetDailyTimerStatus service metadata

```
<?xml version="1.0" ?>
<Service      type="http://www.pucc.jp/2007/09/Device/Echonet/FloorHeating/Service/GetDailyTimerStatus"
      name="GetDailyTimerStatus">
   <InputParameterList/>
   <OutputParameterList>
      <Parameter name="CurrentDailyTimerStatus" relatedStateVariable="DailyTimerStatus"/>
   </OutputParameterList>
</Service>
```

(26)SetDailyTimerStatus service metadata

```
<?xml version="1.0" ?>
<Service      type="http://www.pucc.jp/2007/09/Device/Echonet/FloorHeating/Service/SetDailyTimerStatus"
      name="SetDailyTimerStatus">
   <InputParameterList>
      <Parameter name="NewDailyTimerStatus" relatedStateVariable="DailyTimerStatus"/>
   </InputParameterList>
   <OutputParameterList/>
</Service>
```

(27)GetDailyTimer1 service metadata

```
<?xml version="1.0" ?>
<Service      type="http://www.pucc.jp/2007/09/Device/Echonet/FloorHeating/Service/GetDailyTimer1"
      name="GetDailyTimer1">
   <InputParameterList/>
   <OutputParameterList>
      <Parameter name="CurrentDailyTimer1" relatedStateVariable="DailyTimer1"/>
   </OutputParameterList>
</Service>
```

(28)SetDailyTimer1 service metadata

```
<?xml version="1.0" ?>
<Service      type="http://www.pucc.jp/2007/09/Device/Echonet/FloorHeating/Service/SetDailyTimer1"
      name="SetDailyTimer1">
   <InputParameterList>
      <Parameter name="NewDailyTimer1" relatedStateVariable="DailyTimer1"/>
   </InputParameterList>
   <OutputParameterList/>
</Service>
```

(29)GetDailyTimer2 service metadata

```
<?xml version="1.0" ?>
<Service      type="http://www.pucc.jp/2007/09/Device/Echonet/FloorHeating/Service/GetDailyTimer2"
      name="GetDailyTimer2">
   <InputParameterList/>
   <OutputParameterList>
      <Parameter name="CurrentDailyTimer2" relatedStateVariable="DailyTimer2"/>
   </OutputParameterList>
</Service>
```

(30)SetDailyTimer2 service metadata

```
<?xml version="1.0" ?>
<Service      type="http://www.pucc.jp/2007/09/Device/Echonet/FloorHeating/Service/SetDailyTimer2"
      name="SetDailyTimer2">
   <InputParameterList>
      <Parameter name="NewDailyTimer2" relatedStateVariable="DailyTimer2"/>
   </InputParameterList>
   <OutputParameterList/>
</Service>
```

(31)GetOnTimerStatus service metadata

```
<?xml version="1.0" ?>
<Service      type="http://www.pucc.jp/2007/09/Device/Echonet/FloorHeating/Service/GetOnTimerStatus"
      name="GetOnTimerStatus">
   <InputParameterList/>
   <OutputParameterList>
      <Parameter name="CurrentOnTimerStatus" relatedStateVariable="OnTimerStatus"/>
   </OutputParameterList>
</Service>
```

(32)SetOnTimerStatus service metadata

```
<?xml version="1.0" ?>
<Service      type="http://www.pucc.jp/2007/09/Device/Echonet/FloorHeating/Service/SetOnTimerStatus"
      name="SetOnTimerStatus">
   <InputParameterList>
      <Parameter name="NewOnTimerStatus" relatedStateVariable="OnTimerStatus"/>
   </InputParameterList>
   <OutputParameterList/>
</Service>
```

(33)GetOnTimerAbsoluteTime service metadata

```
<?xml version="1.0" ?>
<Service      type="http://www.pucc.jp/2007/09/Device/Echonet/FloorHeating/Service/GetOnTimerAbsoluteTime"
      name="GetOnTimerAbsoluteTime">
   <InputParameterList/>
   <OutputParameterList>
      <Parameter name="CurrentOnTimerAbsoluteTime" relatedStateVariable="OnTimerAbsoluteTime"/>
   </OutputParameterList>
</Service>
```

(34)SetOnTimerAbsoluteTime service metadata

```
<?xml version="1.0" ?>
<Service      type="http://www.pucc.jp/2007/09/Device/Echonet/FloorHeating/Service/SetOnTimerAbsoluteTime"
      name="SetOnTimerAbsoluteTime">
   <InputParameterList>
      <Parameter name="NewOnTimerAbsoluteTime" relatedStateVariable="OnTimerAbsoluteTime"/>
   </InputParameterList>
   <OutputParameterList/>
</Service>
```

(35)GetOnTimerRelativeTime service metadata

```
<?xml version="1.0" ?>
<Service      type="http://www.pucc.jp/2007/09/Device/Echonet/FloorHeating/Service/GetOnTimerRelative
Time" name="GetOnTimerRelativeTime">
   <InputParameterList/>
   <OutputParameterList>
      <Parameter name="CurrentOnTimerRelativeTime" relatedStateVariable="OnTimerRelativeTime"/>
   </OutputParameterList>
</Service>
```

(36)SetOnTimerRelativeTime service metadata

```
<?xml version="1.0" ?>
<Service      type="http://www.pucc.jp/2007/09/Device/Echonet/FloorHeating/Service/SetOnTimerRelativeTime"
      name="SetOnTimerAbsoluteTime">
   <InputParameterList>
      <Parameter name="NewOnTimerAbsoluteTime" relatedStateVariable="OnTimerAbsoluteTime"/>
   </InputParameterList>
   <OutputParameterList/>
</Service>
```

(37)GetOffTimerStatus service metadata

```
<?xml version="1.0" ?>
<Service      type="http://www.pucc.jp/2007/09/Device/Echonet/FloorHeating/Service/GetOffTimerStatus
Time" name="GetOffTimerStatus">
   <InputParameterList/>
   <OutputParameterList>
      <Parameter name="CurrentOffTimerStatus" relatedStateVariable="OffTimerStatus"/>
   </OutputParameterList>
</Service>
```

(38)SetOffTimerStatus service metadata

```
<?xml version="1.0" ?>
<Service      type="http://www.pucc.jp/2007/09/Device/Echonet/FloorHeating/Service/SetOffTimerStatus
Time" name="SetOffTimerStatus">
   <InputParameterList>
      <Parameter name="NewOffTimerStatus" relatedStateVariable="OffTimerStatus"/>
   </InputParameterList>
   <OutputParameterList/>
</Service>
```

(39)GetOffTimerAbsoluteTime service metadata

```
<?xml version="1.0" ?>
<Service
      type="http://www.pucc.jp/2007/09/Device/Echonet/FloorHeating/Service/GetOffTimerAbsoluteTime"
      name="GetOffTimerAbsoluteTime">
   <InputParameterList/>
   <OutputParameterList>
      <Parameter name="CurrentOffTimerAbsoluteTime" relatedStateVariable="OffTimerAbsoluteTime"/>
   </OutputParameterList>
</Service>
```

(40)SetOffTimerAbsoluteTime service metadata

```
<?xml version="1.0" ?>
<Service      type="http://www.pucc.jp/2007/09/Device/Echonet/FloorHeating/Service/SetOffTimerAbsoluteTime"
      name="SetOffTimerAbsoluteTime">
   <InputParameterList>
      <Parameter name="NewOffTimerAbsoluteTime" relatedStateVariable="OffTimerAbsoluteTime"/>
   </InputParameterList>
   <OutputParameterList/>
</Service>
```

(41)GetOffTimerRelativeTime service metadata

```
<?xml version="1.0" ?>
<Service      type="http://www.pucc.jp/2007/09/Device/Echonet/FloorHeating/Service/GetOffTimerRelative
Time" name="GetOffTimerRelativeTime">
   <InputParameterList/>
   <OutputParameterList>
      <Parameter name="CurrentOffTimerRelativeTime" relatedStateVariable="OffTimerRelativeTime"/>
   </OutputParameterList>
</Service>
```

(42)SetOffTimerRelativeTime service metadata

```
<?xml version="1.0" ?>
<Service      type="http://www.pucc.jp/2007/09/Device/Echonet/FloorHeating/Service/SetOffTimerRelativeTime"
      name="SetOffTimerAbsoluteTime">
   <InputParameterList>
      <Parameter name="NewOffTimerAbsoluteTime" relatedStateVariable="OffTimerAbsoluteTime"/>
   </InputParameterList>
   <OutputParameterList/>
</Service>
```

(43)GetIcon service metadata

```
<?xml version="1.0" ?>
<Service
      type=http://www.pucc.jp/2007/09/Device/Echonet/FloorHeating/Service/GetIcon name="GetIcon">
   <InputParameterList>
      <Parameter name="url" datatype="string"/>
   </InputParameterList>
   <OutputParameterList>
      <Parameter name="mimeType" datatype="string"/>
      <Parameter name="base64Data" datatype="base64Binary"/>
   </OutputParameterList>
</Service>
```

## Appendix A. Version History

| Document number | Date | Note |
|---|---|---|
| PUCC Metadata Specification – Home Appliance Part 3 ECHONET Devices | 30 Sep, 2007 | Version 1.0 |
| | | |
| | | |
| | | |
| | | |
| | | |

# Appendix B. Interphone Devices

This chapter defines the PUCC metadata specification for interphone devices, which represent visitor sensor devices with an additional function of obtaining images.

## B.1. Device Model

Interphone devices adopt the device model shown below.

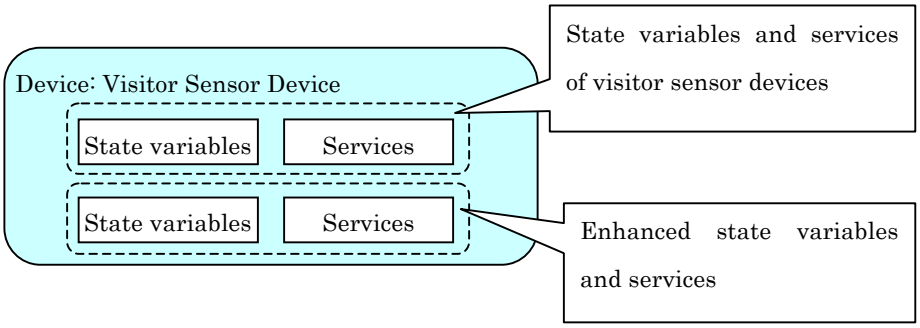


**Figure B.1-1.Interphone device model**

## B.2. Device Type

Interphone devices are enhanced visitor sensor devices. The device type identifier of interphone devices is the same as that of visitor sensor devices.

http://www.pucc.jp/2007/09/Device/Echonet/VisitorSensor

### B.3. State Variables

The state variables of interphone devices are shown below.

**Table B.3-1: State variables of interphone devices (1/2)**

| | State Variable Name | Description | Data Type | Event Generation (Yes/No) |
|---|---|---|---|---|
| 1 | OperationStatus | Operation status (6.1.1) | string | Yes |
| 2 | InstallationLocation | Installation location (6.1.2) | hexBinary | Yes |
| 3 | SpecVersionInfoCode | Specification version information (6.1.3) | string | No |
| 4 | LowerNodeIdCode | Node identification code (6.1.4) (lower-layer communication software ID field) | string | No |
| 5 | NodeIdCode | Node identification code (6.1.4) (individual number field) | string | No |
| 6 | ManufacturerErrorCode | Manufacturer error code (6.1.5) | string | No |
| 7 | PowerLimit | Power limit (6.1.6) | integer | No |
| 8 | FaultStatus | Fault status (6.1.7) | string | Yes |
| 9 | FaultContent | Fault content (6.1.8) | hexBinary | No |
| 10 | MakerCode | Manufacturer code (6.1.9) | string | No |
| 11 | PlaceOfBuisinessCode | Place-of-business code (6.1.10) | string | No |
| 12 | EnergySavingStatus | Energy saving status (6.1.11) | string | No |
| 13 | PresentTime | P resent time (6.1.12) | time | No |
| 14 | PresentDate | Present date (6.1.13) | date | No |
| 15 | CumulatedRunTimeValue | Cumulative run-time (6.1.14) | hexBinary | No |
| 16 | DetectionLevel | Detection threshold value level (11.3.1) | string | No |
| 17 | VisitorDetectionStatus | Visitor detection status (11.3.2) | string | Yes |

| | | | | |
|---|---|---|---|---|
| 18 | DetectionHoldSecond | Visitor detection hold time (11.3.3) | integer | No |
| 19 | DetectionID | Visitor detectionID | integer | No |
| 20 | VisitorImageWidth | Visitor image width | integer | No |
| 21 | VisitorImageHeight | Visitor image height | integer | No |
| 22 | VisitorImageDepth | The number of Bits per pixel of an visitor image | integer | No |
| 23 | VisitorImageMimeType | Visitor image mime type | string | No |
| 24 | VisitorImageFilename | Visitor image file name | string | No |

**Table B.3-1: State variables of interphone devices (2/2)**

| | State Variable Name | Description | Data Type | Event Generation (Yes/No) |
|---|---|---|---|---|
| 25 | VisitorImage | visitor image | base64Binary | No |
| 26 | SecurityStatus | Absence/Presence mode | string | Yes |

The details of each state variable are shown below.

※ See 6.1 for the details of the state variables common to devices.

※ See 11.3 for the details of the services of visitor sensor devices

### B.3.1. Visitor detectionID (DetectionID)

Visitor detectionID

### B.3.2. Visitor image width (VisitorImageWidth)

Visitor image width

### B.3.3. Visitor image width (VisitorImageHeight)

Visitor image height

### B.3.4 Number of Bits per pixels of an visitor image (VisitorImageDepth)

The number of Bits per pixel of a visitor image

### B.3.5. Visitor image mime type (VisitorImageMimeType)

Visitor image mime type

### B.3.6. Visitor image file name (VisitorImageFilename)

Visitor image file name

### B.3.7. Visitor image (VisitorImage)

Visitor image

### B.3.8. Absence/Presence mode (SecurityStatus)

TableB.3.8-1 shows the setting values for the “Absence/Presence mode (SecurityStatus).”

**Table B.3.8-1: Setting values for the “Absence/Presence mode (SecurityStatus)”**

| | Value | Meaning |
|---|---|---|
| 1 | Absence | Absence |
| 2 | Presence | Presence |

### B.4. Services

The services of interphone devices are shown below.

**Table B.4-1: Services offered by interphone devices (1/2)**

| | Service Name | Description | |
|---|---|---|---|
| 1 | GetOperationStatus | Obtains the operation status | (6.2.1) |
| 2 | SetOperationStatus | Sets the operation status | (6.2.2) |
| 3 | GetInstallationLocation | Obtains the installation location | (6.2.3) |
| 4 | SetInstallationLocation | Sets the installation location | (6.2.4) |
| 5 | GetSpecVersionInfoCode | Obtains the specification version information | (6.2.5) |
| 6 | GetLowerNodeIdCode | Obtains the node identification code (lower-layer communication software ID field) | (6.2.6) |
| 7 | GetNodeIdCode | Obtains the node identification code (individual number field) | (6.2.7) |
| 8 | GetManufacturerErrorCode | Obtains the manufacturer error code | (6.2.8) |
| 9 | ReadPowerLimit | Obtains the power limit | (6.2.9) |
| 10 | WritePowerLimit | Sets the power limit | (6.2.10) |
| 11 | GetFaultStatus | Obtains the fault status | (6.2.11) |
| 12 | GetFaultContent | Obtains the fault content | (6.2.12) |
| 13 | GetMakerCode | Obtains the manufacturer code | (6.2.13) |
| 14 | GetPlaceOfBuisinessCode | Obtains the place-of-business code | (6.2.14) |
| 15 | GetEnergySavingStatus | Obtains the energy saving status | (6.2.15) |
| 16 | SetEnergySavingStatus | Sets the energy saving status | (6.2.16) |
| 17 | GetPresentTime | Obtains the present time | (6.2.17) |
| 18 | SetPresentTime | Sets the present time | (6.2.18) |
| 19 | GetPresentDate | Obtains the present date | (6.2.19) |
| 20 | SetPresentDate | Sets the present date | (6.2.20) |
| 21 | GetCumulatedRunTimeValue | Obtains the cumulative run-time | (6.2.21) |
| 22 | GetDetectionLevel | Obtains the detection threshold value level | (11.4.1) |
| 23 | SetDetectionLevel | Sets the detection threshold value level | (11.4.2) |
| 24 | GetVisitorDetectionStatus | Obtains the visitor detection status | (11.4.3) |

**Table B.4-1: Services offered by interphone devices (2/2)**

| | Service Name | Description | |
|---|---|---|---|
| 25 | ReadDetectionHoldSecond | Obtains the visitor detection hold time | (11.4.4) |
| 26 | WriteDetectionHoldSecond | Sets the visitor detection hold time | (11.4.5) |
| 27 | GetVisitorImage | Obtains the visitor image | |
| 28 | GetSecurityStatus | Obtains the absence/presence mode | |
| 29 | SetSecurityStatus | Sets the absence/presence mode | |
| 30 | GetIcon | Obtains the icon | (11.4.6) |

The details of each service are shown below.

※ See 6.2 for the details of the services common to devices

※ See 11.4 for the details of the services of visitor sensor devices

### B.4.1. GetVisitorImage

(1)Description

Obtains a visitor image

(2) Service type identifier

http://www.pucc.jp/2007/09/Device/Echonet/VisitorSensor/Service/GetVisitorImage

(3) Input parameter

**Table B.4.1-1: Input parameter of the GetVisitorImage service**

| | parameter | Related State Variable | Data Type | Remarks |
|---|---|---|---|---|
| 1 | mimeType | - | string | Sets the MIME type of a visitor image |
| 2 | detectionID | DetectionID | string | See also B.3.1 |

(4) Output parameter

**Table B.4.1-2: Output parameter of the GetVisitorImage service**

| | parameter | Related State Variable | Data Type | Remarks |
|---|---|---|---|---|
| 1 | visitorImage | VisitorImage | base64Binary | Sets a BASE64-encoded data of a visitor image |

### B.4.2. GetSecurityStatus

(1)Description

Obtains the Absence/Presence mode

(2) Service type identifier

http://www.pucc.jp/2007/09/Device/Echonet/VisitorSensor/Service/GetSecurityStatus

(3) Input parameter

None

(4) Output parameter

**Table B.4.2-1: Output parameter of the GetSecurityStatus service**

| | parameter | Related State Variable | Remarks |
|---|---|---|---|
| 1 | CurrentSecurityStatus | SecurityStatus | See also B.3.8 |

### B.4.3. SetSecurityStatus

(1)Description

Sets the Absence/Presence mode

(2) Service type identifier

http://www.pucc.jp/2007/09/Device/Echonet/VisitorSensor/Service/SetSecurityStatus

(3) Input parameter

**Table B.4.3-1: Input parameter of the SetSecurityStatus service**

| | parameter | Related State Variable | Remarks |
|---|---|---|---|
| 1 | NewSecurityStatus | SecurityStatus | See also B.3.8 |

(4) Output parameter

None

## B.5. Metadata

### B.5.1. Device Metadata

The template of interphone devices is shown below.

*Italic letters in red*: differ by the entity of each interphone device.

```
<?xml version="1.0"?>
<Device    type="http://www.pucc.jp/2007/09/Device/Echonet/VisitorSensor"
              id="global unique ID for this device"    name="short user-friendly title">
  <Specification>
    <URLBase>base URL for all relative URLs</URLBase>
    <Manufacturer>manufacturer name</Manufacturer>
    <ManufacturerURL>URL to manufacturer site</ManufacturerURL>
    <ManufactureDate>date of manufacture</ManufactureDate>
    <ModelDescription>long user-friendly title</ModelDescription>
    <ModelName>model name</ModelName>
    <ModelNumber>model number</ModelNumber>
    <ModelURL>URL to model site</ModelURL>
    <SerialNumber>manufacturer's serial number</SerialNumber>
    <UDN>uuid:UUID</UDN>
    <UPC>Universal Product Code</UPC>
    <IconList>
      <Icon>
        <Mimetype>image/format</Mimetype>
        <Width>horizontal pixels</width>
        <Height>vertical pixels</height>
        <Depth>color depth</depth>
        <Url>URL to icon</Url>
      </icon>
      XML to declare other icons, if any, go here
    </IconList>
  </Specification>
  <StateVariableList>
        :
    (Insert the metadata definition of the state variables common to devices shown in 6.3.1)
        :
    <StateVariable    name="DetectionLevel"    datatype="string"    sendEvents="no">
      <AllowedValueList>
        <AllowedValue>1</AllowedValue>
        <AllowedValue>2</AllowedValue>
        <AllowedValue>3</AllowedValue>
        <AllowedValue>4</AllowedValue>
        <AllowedValue>5</AllowedValue>
```

```
          <AllowedValue>6</AllowedValue>
          <AllowedValue>7</AllowedValue>
          <AllowedValue>8</AllowedValue>
        </AllowedValueList>
      </StateVariable>
      <StateVariable  name="VisitorDetectionStatus"  datatype="string"  sendEvents="yes">
        <AllowedValueList>
          <AllowedValue>Found</AllowedValue>
          <AllowedValue>NotFound</AllowedValue>
        </AllowedValueList>
      </StateVariable>
      <StateVariable  name="DetectionHoldSecond"  datatype="integer"  sendEvents="no">
        <AllowedValueRange>
          <Minimum>0</Minimum>
          <Maximum>655330</Maximum>
          <Step>10</Step>
        </AllowedValueRange>
      </StateVariable>
      <StateVariable  name="DetectionID"  datatype="string"  sendEvents="no"/>
      <StateVariable  name="VisitorImageWidth"  datatype="integer"  sendEvents="no"/>
      <StateVariable  name="VisitorImageHeight"  datatype="integer"  sendEvents="no"/>
      <StateVariable  name="VisitorImageDepth"  datatype="integer"  sendEvents="no"/>
      <StateVariable  name="VisitorImageMimeType"  datatype="string"  sendEvents="no"/>
      <StateVariable  name="VisitorImageFilename"  datatype="string"  sendEvents="no"/>
      <StateVariable  name="VisitorImage"  datatype="base64Binary"  sendEvents="no"/>
      <StateVariable  name="SecurityStatus"  datatype="string"  sendEvents="yes"/>
    </StateVariableList>
    <ServiceList>
            :
        (Insert the metadata definition of the services common to devices shown in 6.3.2)
            :
      <Service  name="GetDetectionLevel"
          type="http://www.pucc.jp/2007/09/Device/Echonet/VisitorSensor/Service/GetDetectionLevel"/>
      <Service  name="SetDetectionLevel"
          type="http://www.pucc.jp/2007/09/Device/Echonet/VisitorSensor/Service/SetDetectionLevel"/>
      <Service  name="GetVisitorDetectionStatus"
          type="http://www.pucc.jp/2007/09/Device/Echonet/VisitorSensor/Service/GetVisitorDetectionStatus
"/>
      <Service  name="ReadDetectionHoldSecond"
           type="http://www.pucc.jp/2007/09/Device/Echonet/VisitorSensor/Service/ReadDetectionHoldSecond
"/>
      <Service  name="WriteDetectionHoldSecond"
          type="http://www.pucc.jp/2007/09/Device/Echonet/VisitorSensor/Service/WriteDetectionHoldSecond
"/>
      <Service  name="GetVisitorImage"
          type="http://www.pucc.jp/2007/09/Device/Echonet/VisitorSensor/Service/GetVisitorImage"/>
      <Service  name="GetSecurityStatus"
```

```
        type="http://www.pucc.jp/2007/09/Device/Echonet/VisitorSensor/Service/GetSecurityStatus"/>
    <Service   name="SetSecurityStatus"
        type="http://www.pucc.jp/2007/09/Device/Echonet/VisitorSensor/Service/SetSecurityStatus"/>
    <Service   name="GetIcon"
        type="http://www.pucc.jp/2007/09/Device/Echonet/VisitorSensor/Service/GetIcon"/>
  </ServiceList>
  <PrimitiveDeviceList/>
</Device>
```

### B.5.2. Service Metadata

The metadata templates of the services that interphone devices have are shown below.

※ See 6.3 for the metadata of the services common to devices.

※ See 11.5 for the metadata of the services of visitor sensor devices

(1)GetVisitorImage service metadata

```
<?xml version="1.0" ?>
<Service
    type=http://www.pucc.jp/2007/09/Device/Echonet/ VisitorSensor /Service/GetVisitorImage
    name="GetVisitorImage">
  <InputParameterList>
    <Parameter name="mimeType" datatype="string"/>
    <Parameter name="detectionID" relatedStateVariable="DetectionID"/>
  </InputParameterList>
  <OutputParameterList>
    <Parameter name="visitorImage" relatedStateVariable="VisitorImage"/>
  </OutputParameterList>
</Service>
```

(2)GetSecurityStatus service metadata

```
<?xml version="1.0" ?>
<Service
    type=http://www.pucc.jp/2007/09/Device/Echonet/VisitorSensor /Service/GetSecurityStatus
    name="GetSecurityStatus">
  <InputParameterList/>
  <OutputParameterList>
    <Parameter name="CurrentSecurityStatus" relatedStatueVariable="SecurityStatus"/>
  </OutputParameterList>
</Service>
```

(3)SetSecurityStatus service metadata

```
<?xml version="1.0" ?>
<Service
      type=http://www.pucc.jp/2007/09/Device/Echonet/VisitorSensor /Service/SetSecurityStatus
      name="SetSecurityStatus">
   <InputParameterList>
      <Parameter name="NewSecurityStatus" relatedStatueVariable="SecurityStatus"/>
   </InputParameterList>
   <OutputParameterList/>
</Service>
```

# Appendix C. Home Sensor Devices

This chapter describes a home sensor device as an example of a composite device, which combines a visitor sensor device and a fire sensor device.

## C.1. Device Model

Home sensor devices adopt the device model shown below.

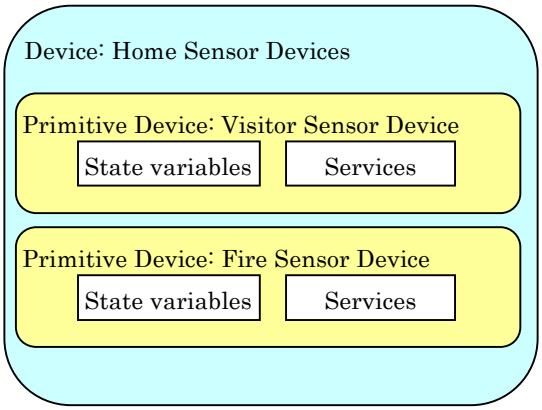


**Figure C.1-1. Home sensor device model**

## C.2. Device Type

The device type identifier of home sensor devices is shown below.

http://www.pucc.jp/2007/09/BundledDevice/Echonet/HomeSensor

## C.3. State variables

This specification does not specify the state variables for home sensor devices here.

## C.4. Services

This specification does not specify the services for home sensor devices here.

## C.5. Metadata

### C.5.1. Device Metadata

The template of home sensor devices is shown below.

*Italic letters in red*: differ by the entity of each home sensor device

```
<?xml version="1.0"?>
<Device    type="http://www.pucc.jp/2007/09/BundledDevice/Echonet/HomeSensor"
                id="global unique ID for this device"    name="short user-friendly title">
  <Specification>
    <URLBase>base URL for all relative URLs</URLBase>
    <Manufacturer>manufacturer name</Manufacturer>
    <ManufacturerURL>URL to manufacturer site</ManufacturerURL>
    <ManufactureDate>date of manufacture</ManufactureDate>
    <ModelDescription>long user-friendly title</ModelDescription>
    <ModelName>model name</ModelName>
    <ModelNumber>model number</ModelNumber>
    <ModelURL>URL to model site</ModelURL>
    <SerialNumber>manufacturer's serial number</SerialNumber>
    <UDN>uuid:UUID</UDN>
    <UPC>Universal Product Code</UPC>
    <IconList>
      <Icon>
        <Mimetype>image/format</Mimetype>
        <Width>horizontal pixels</width>
        <Height>vertical pixels</height>
        <Depth>color depth</depth>
        <Url>URL to icon</Url>
      </icon>
      XML to declare other icons, if any, go here
    </IconList>
  </Specification>
  <StateVariableList/>
  <ServiceList/>
  <PrimitiveDeviceList>
   <PrimitiveDevice    type="http://www.pucc.jp/2007/09/Device/Echonet/VisitorSensor"
                id="global unique ID for this device"    name="short user-friendly title">
     <Specification>
       <URLBase>base URL for all relative URLs</URLBase>
       <Manufacturer>manufacturer name</Manufacturer>
       <ManufacturerURL>URL to manufacturer site</ManufacturerURL>
       <ManufactureDate>date of manufacture</ManufactureDate>
       <ModelDescription>long user-friendly title</ModelDescription>
```

```
    <ModelName>model name</ModelName>
    <ModelNumber>model number</ModelNumber>
    <ModelURL>URL to model site</ModelURL>
    <SerialNumber>manufacturer's serial number</SerialNumber>
    <UDN>uuid:UUID</UDN>
    <UPC>Universal Product Code</UPC>
    <IconList>
      <Icon>
        <Mimetype>image/format</Mimetype>
        <Width>horizontal pixels</width>
        <Height>vertical pixels</height>
        <Depth>color depth</depth>
        <Url>URL to icon</Url>
      </icon>
      XML to declare other icons, if any, go here
    </IconList>
  </Specification>
  <StateVariableList>
      :
  (Insert the metadata definition of the state variables common to devices shown in 6.3.1)
      :
    <StateVariable  name="DetectionLevel"  datatype="string"  sendEvents="no">
      <AllowedValueList>
        <AllowedValue>1</AllowedValue>
        <AllowedValue>2</AllowedValue>
        <AllowedValue>3</AllowedValue>
        <AllowedValue>4</AllowedValue>
        <AllowedValue>5</AllowedValue>
        <AllowedValue>6</AllowedValue>
        <AllowedValue>7</AllowedValue>
        <AllowedValue>8</AllowedValue>
      </AllowedValueList>
    </StateVariable>
    <StateVariable  name="VisitorDetectionStatus"  datatype="string"  sendEvents="yes">
      <AllowedValueList>
        <AllowedValue>Found</AllowedValue>
        <AllowedValue>NotFound</AllowedValue>
      </AllowedValueList>
    </StateVariable>
    <StateVariable  name="DetectionHoldSecond"  datatype="integer"  sendEvents="no">
      <AllowedValueRange>
        <Minimum>0</Minimum>
        <Maximum>655330</Maximum>
        <Step>10</Step>
      </AllowedValueRange>
    </StateVariable>
  </StateVariableList>
```

```
      <ServiceList>
          :
(Insert the metadata definition of the services common to devices shown in 6.3.2)
          :
        <Service   name="GetDetectionLevel"
         type="http://www.pucc.jp/2007/09/Device/Echonet/VisitorSensor/Service/GetDetectionLevel"/>
        <Service   name="SetDetectionLevel"
         type="http://www.pucc.jp/2007/09/Device/Echonet/VisitorSensor/Service/SetDetectionLevel"/>
        <Service   name="GetVisitorDetectionStatus"
         type="http://www.pucc.jp/2007/09/Device/Echonet/VisitorSensor/Service/GetVisitorDetectionStatus
       "/>
        <Service   name="ReadDetectionHoldSecond"
          type="http://www.pucc.jp/2007/09/Device/Echonet/VisitorSensor/Service/ReadDetectionHoldSecond
       "/>
        <Service   name="WriteDetectionHoldSecond"
         type="http://www.pucc.jp/2007/09/Device/Echonet/VisitorSensor/Service/WriteDetectionHoldSecond
       "/>
        <Service   name="GetIcon"
         type="http://www.pucc.jp/2007/09/Device/Echonet/VisitorSensor/Service/GetIcon"/>
      </ServiceList>
    </PrimitiveDevice>
    <PrimitiveDevice type="http://www.pucc.jp/2007/09/Device/Echonet/CrimePreventionSensor"
            id="global unique ID for this device"   name="short user-friendly title">
      <Specification>
        <URLBase>base URL for all relative URLs</URLBase>
        <Manufacturer>manufacturer name</Manufacturer>
        <ManufacturerURL>URL to manufacturer site</ManufacturerURL>
        <ManufactureDate>date of manufacture</ManufactureDate>
        <ModelDescription>long user-friendly title</ModelDescription>
        <ModelName>model name</ModelName>
        <ModelNumber>model number</ModelNumber>
        <ModelURL>URL to model site</ModelURL>
        <SerialNumber>manufacturer's serial number</SerialNumber>
        <UDN>uuid:UUID</UDN>
        <UPC>Universal Product Code</UPC>
        <IconList>
          <Icon>
            <Mimetype>image/format</Mimetype>
            <Width>horizontal pixels</width>
            <Height>vertical pixels</height>
            <Depth>color depth</depth>
            <Url>URL to icon</Url>
          </icon>
          XML to declare other icons, if any, go here
        </IconList>
      </Specification>
      <StateVariableList>
```

```
            :
        (Insert the metadata definition of the state variables common to devices shown in 6.3.1)
            :
          <StateVariable   name="DetectionLevel"   datatype="string"   sendEvents="no">
            <AllowedValueList>
              <AllowedValue>1</AllowedValue>
              <AllowedValue>2</AllowedValue>
              <AllowedValue>3</AllowedValue>
              <AllowedValue>4</AllowedValue>
              <AllowedValue>5</AllowedValue>
              <AllowedValue>6</AllowedValue>
              <AllowedValue>7</AllowedValue>
              <AllowedValue>8</AllowedValue>
            </AllowedValueList>
          </StateVariable>
          <StateVariable   name="FireDetecitonStatus"   datatype="string"   sendEvents="yes">
            <AllowedValueList>
              <AllowedValue>Found</AllowedValue>
              <AllowedValue>NotFound</AllowedValue>
            </AllowedValueList>
          </StateVariable>
        </StateVariableList>
        <ServiceList>
            :
         (Insert the metadata definition of the services common to devices shown in 6.3.2)
            :
          <Service   name="GetDetectionLevel"
            type="http://www.pucc.jp/2007/09/Device/Echonet/FireSensor/Service/GetDetectionLevel"/>
          <Service   name="SetDetectionLevel"
            type="http://www.pucc.jp/2007/09/Device/Echonet/FireSensor/Service/SetDetectionLevel"/>
          <Service   name="GetFireDetectionStatus"
            type="http://www.pucc.jp/2007/09/Device/Echonet/FireSensor/Service/GetFireDetectionStatus"/>
          <Service   name="ResetFireDetectionStatus"
            type="http://www.pucc.jp/2007/09/Device/Echonet/FireSensor/Service/ResetFireDetectionStatus"/>
          <Service   name="GetIcon"
            type="http://www.pucc.jp/2007/09/Device/Echonet/FireSensor/Service/GetIcon/>
        </ServiceList>
      </PrimitiveDevice>
    </PrimitiveDeviceList>
</Device>
```

# Appendix D. IC Card Key Devices

This chapter defines the PUCC device metadata for IC card key devices.

## D.1. Device Model

IC card key devices adopt the device model shown below.

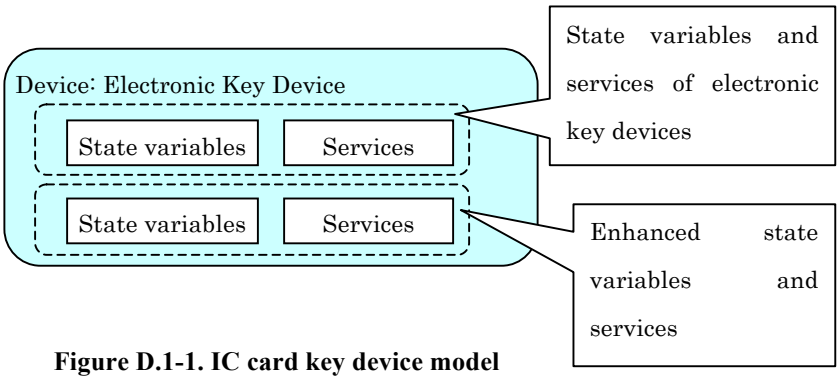


**Figure D.1-1. IC card key device model**

## D.2. Device Type

IC card key devices are enhanced electronic locking devices. The device type identifier of IC card key devices is the same as that of electronic locking devices.

http://www.pucc.jp/2007/09/Device/Echonet/ElectricLock

### D.3. State variables

The state variables of IC card key devices are shown below.

**Table D.3-1: State variables of IC card key devices**

| | State Variable Name | Description | Data Type | Event Generation (Yes/No) |
|---|---|---|---|---|
| 1 | OperationStatus | Operation status (6.1.1) | string | Yes |
| 2 | InstallationLocation | Installation location (6.1.2) | hexBinary | Yes |
| 3 | SpecVersionInfoCode | Specification version information (6.1.3) | string | No |
| 4 | NodeIdCode | Node identification code (6.1.4) (lower-layer communication software ID field) | string | No |
| 5 | NodeIdCode | Node identification code (6.1.4) (individual number field) | string | No |
| 6 | ManufacturerErrorCode | Manufacturer error code (6.1.5) | string | No |
| 7 | PowerLimit | Power limit (6.1.6) | integer | No |
| 8 | FaultStatus | Fault status (6.1.7) | string | Yes |
| 9 | FaultContent | Fault content (6.1.8) | hexBinary | No |
| 10 | MakerCode | Manufacturer code (6.1.9) | string | No |
| 11 | PlaceOfBuisinessCode | Place-of-business code (6.1.10) | string | No |
| 12 | EnergySavingStatus | Energy saving status (6.1.11) | string | No |
| 13 | PresentTime | P resent time (6.1.12) | time | No |
| 14 | PresentDate | Present date (6.1.13) | date | No |
| 15 | CumulatedRunTimeValue | Cumulative run-time (6.1.14) | hexBinary | No |
| 16 | Lockup1Status | Lockup status1 (9.3.1) | string | Yes |
| 17 | Lockup2Status | Lockup status2 (9.3.2) | string | No |

| | | | | |
|---|---|---|---|---|
| 18 | DoorGuardLockupStatus | Door Guard Lockup Status (9.3.3) | string | No |
| 19 | DoorOpenCloseStatus | Door open/close status (9.3.4) | string | No |
| 20 | PresenceStatus | Presence/absence status (9.3.5) | string | No |
| 21 | AlarmStatus | Alarm status (9.3.6) | string | Yes |
| 22 | AutoLockModeStatus | Automatic lock mode status (9.3.7) | string | No |
| 23 | ICID | ID of a card which has changed the lockup status | string | No |
| 24 | DetectionID | Unlock/lock detection ID | string | No |

The details of each state variable are shown below.

※ See 6.1 for the details of the state variables common to devices.

※ See 9.3 for the details of the services of electronic locking devices.

### D.3.1. ID of a card which has changed the lockup status (ICID)

The ID of a card which has changed the lockup status Lockup Status

### D.3.2. Unlock/lock detection ID (DetectionID)

Unlock/lock detection ID

## D.4. Services

TableD.4-1 shows the services of IC card key devices.

**Table D.4-1: Services offered by IC card key devices (1/2)**

| | Service Name | Description | |
|---|---|---|---|
| 1 | GetOperationStatus | Obtains the operation status | (6.2.1) |
| 2 | SetOperationStatus | Sets the operation status | (6.2.2) |
| 3 | GetInstallationLocation | Obtains the installation location | (6.2.3) |
| 4 | SetInstallationLocation | Sets the installation location | (6.2.4) |
| 5 | GetSpecVersionInfoCode | Obtains the specification version information | (6.2.5) |
| 6 | GetLowerNodeIdCode | Obtains the node identification code (lower-layer communication software ID field) | (6.2.6) |
| 7 | GetNodeIdCode | Obtains the node identification code (individual number field) | (6.2.7) |
| 8 | GetManufacturerErrorCode | Obtains the manufacturer error code | (6.2.8) |
| 9 | ReadPowerLimit | Obtains the power limit | (6.2.9) |
| 10 | WritePowerLimit | Sets the power limit | (6.2.10) |
| 11 | GetFaultStatus | Obtains the fault status | (6.2.11) |
| 12 | GetFaultContent | Obtains the fault content | (6.2.12) |
| 13 | GetMakerCode | Obtains the manufacturer code | (6.2.13) |
| 14 | GetPlaceOfBuisinessCode | Obtains the place-of-business code | (6.2.14) |
| 15 | GetEnergySavingStatus | Obtains the energy saving status | (6.2.15) |
| 16 | SetEnergySavingStatus | Sets the energy saving status | (6.2.16) |
| 17 | GetPresentTime | Obtains the present time | (6.2.17) |
| 18 | SetPresentTime | Sets the present time | (6.2.18) |
| 19 | GetPresentDate | Obtains the present date | (6.2.19) |
| 20 | SetPresentDate | Sets the present date | (6.2.20) |
| 21 | GetCumulatedRunTimeValue | Obtains the cumulative run-time | (6.2.21) |

**Table D.4-1: Services offered by IC card key devices (2/2)**

| | Service Name | Description |
|---|---|---|
| 22 | GetLockup1Status | Obtains the Lockup status1 (9.4.1) |
| 23 | SetLockup1Status | Sets the Lockup status1 (9.4.2) |
| 24 | GetLockup2Status | Obtains the Lockup status2 (9.4.3) |
| 25 | SetLockup2Status | Sets the Lockup status2 (9.4.4) |
| 26 | GetDoorGuardLockupStatus | Obtains the Door Guard Lockup Status (9.4.5) |
| 27 | GetDoorOpenCloseStatus | Obtains the Door open/close status (9.4.6) |
| 28 | GetPresenceStatus | Obtains the Presence/absence status (9.4.7) |
| 29 | GetAlarmStatus | Obtains the Alarm status (9.4.8) |
| 30 | GetAutoLockModeStatus | Obtains the Automatic lock mode status (9.4.9) |
| 31 | SetAutoLockModeStatus | Sets the Automatic lock mode status (9.4.10) |
| 32 | GetICID | Obtains the ID of an IC card which has changed the Lockup Status |
| 33 | GetIcon | Obtains the icon (9.4.11) |

The details of each service are shown below.

※ See 6.2 for the details of the services common to devices

※ See 9.4 for the details of the services of electronic locking devices

### D.4.1. GetICID

(1)Description

Obtains the ID of an IC card which has changed the Lockup Status

(2) Service type identifier

http://www.pucc.jp/2007/09/Device/Echonet/ElectricLock/Service/GetICID

(3) Input parameter

**Table D.4.1-1: Input parameter of the GetICID service**

| | parameter | Related State Variable | Remarks |
|---|---|---|---|
| 1 | detectionID | DetectionID | See also D.3.2 |

(4) Output parameter

**Table D.4.1-2: Output parameter of the GetICID service**

| | parameter | Related State Variable | Remarks |
|---|---|---|---|
| 1 | CurrentICID | ICID | See also 9.3.1 |

## D.5. Metadata

### D.5.1. Device Metadata

The template of IC card key devices is shown below.

*Italic letters in red*: differ by the entity of each IC card key device

```
<?xml version="1.0"?>
<Device    type="http://www.pucc.jp/2007/09/Device/Echonet/ElectricLock"
              id="global unique ID for this device"    name="short user-friendly title">
  <Specification>
    <URLBase>base URL for all relative URLs</URLBase>
    <Manufacturer>manufacturer name</Manufacturer>
    <ManufacturerURL>URL to manufacturer site</ManufacturerURL>
    <ManufactureDate>date of manufacture</ManufactureDate>
    <ModelDescription>long user-friendly title</ModelDescription>
    <ModelName>model name</ModelName>
    <ModelNumber>model number</ModelNumber>
    <ModelURL>URL to model site</ModelURL>
    <SerialNumber>manufacturer's serial number</SerialNumber>
    <UDN>uuid:UUID</UDN>
    <UPC>Universal Product Code</UPC>
    <IconList>
      <Icon>
        <Mimetype>image/format</Mimetype>
        <Width>horizontal pixels</width>
        <Height>vertical pixels</height>
        <Depth>color depth</depth>
        <Url>URL to icon</Url>
      </icon>
      XML to declare other icons, if any, go here
    </IconList>
  </Specification>
  <StateVariableList>
          :
    (Insert the metadata definition of the state variables common to devices shown in 6.3.1)
          :
    <StateVariable    name="Lockup1Status"    datatype="string"    sendEvents="yes">
      <AllowedValueList>
        <AllowedValue>Locked</AllowedValue>
        <AllowedValue>UnLocked</AllowedValue>
      </AllowedValueList>
    </StateVariable>
    <StateVariable    name="Lockup2Status"    datatype="string"    sendEvents="no">
```

```
      <AllowedValueList>
        <AllowedValue>Locked</AllowedValue>
        <AllowedValue>UnLocked</AllowedValue>
      </AllowedValueList>
    </StateVariable>
    <StateVariable  name="DoorGuardLockupStatus"  datatype="string"  sendEvents="no">
      <AllowedValueList>
        <AllowedValue>Locked</AllowedValue>
        <AllowedValue>UnLocked</AllowedValue>
      </AllowedValueList>
    </StateVariable>
    <StateVariable  name="DoorOpenCloseStatus"  datatype="string"  sendEvents="no">
      <AllowedValueList>
        <AllowedValue>Open</AllowedValue>
        <AllowedValue>Close</AllowedValue>
      </AllowedValueList>
    </StateVariable>
    <StateVariable  name="PresenceStatus"  datatype="string"  sendEvents="no">
      <AllowedValueList>
        <AllowedValue>Presence</AllowedValue>
        <AllowedValue>Absence</AllowedValue>
      </AllowedValueList>
    </StateVariable>
    <StateVariable  name="AlarmStatus"  datatype="string"  sendEvents="yes">
      <AllowedValueList>
        <AllowedValue>Normal</AllowedValue>
        <AllowedValue>Picking</AllowedValue>
        <AllowedValue>LeaveDoorOpen</AllowedValue>
        <AllowedValue>ManualOpen</AllowedValue>
        <AllowedValue>Tamper</AllowedValue>
      </AllowedValueList>
    </StateVariable>
    <StateVariable  name="AutoLockModeStatus"  datatype="string"  sendEvents="no">
      <AllowedValueList>
        <AllowedValue>ON</AllowedValue>
        <AllowedValue>OFF</AllowedValue>
      </AllowedValueList>
    </StateVariable>
    <StateVariable  name="ICID"  datatype="string"  sendEvents="no" />
    <StateVariable  name="DetectionID"  datatype="string"  sendEvents="no" />
  </StateVariableList>
  <ServiceList>
          :
      (Insert the metadata definition of the services common to devices shown in 6.3.2)
          :
    <Service  name="GetLockup1Status"
        type="http://www.pucc.jp/2007/09/Device/Echonet/ElectricLock/Service/GetLockup1Status"/>
```

```
    <Service   name="SetLockup1Status"
        type="http://www.pucc.jp/2007/09/Device/Echonet/ElectricLock/Service/SetLockup1Status"/>
    <Service   name="GetLockup2Status"
        type="http://www.pucc.jp/2007/09/Device/Echonet/ElectricLock/Service/GetLockup2Status"/>
    <Service   name="SetLockup2Status"
        type="http://www.pucc.jp/2007/09/Device/Echonet/ElectricLock/Service/SetLockup2Status"/>
    <Service   name="GetDoorGuardLockupStatus"
        type="http://www.pucc.jp/2007/09/Device/Echonet/ElectricLock/Service/GetDoorGuardLockup
Status"/>
    <Service   name="GetDoorOpenCloseStatus"
        type="http://www.pucc.jp/2007/09/Device/Echonet/ElectricLock/Service/GetDoorOpenCloseStatus"/>
    <Service   name="GetPresenceStatus"
        type="http://www.pucc.jp/2007/09/Device/Echonet/ElectricLock/Service/GetPresenceStatus"/>
    <Service   name="GetAlarmStatus"
        type="http://www.pucc.jp/2007/09/Device/Echonet/ElectricLock/Service/GetAlarmStatus"/>
    <Service   name="GetAutoLockModeStatus"
        type="http://www.pucc.jp/2007/09/Device/Echonet/ElectricLock/Service/GetAutoLockModeStatus"/>
    <Service   name="SetAutoLockModeStatus"
        type="http://www.pucc.jp/2007/09/Device/Echonet/ElectricLock/Service/SetAutoLockModeStatus"/>
    <Service   name="GetICID"
        type="http://www.pucc.jp/2007/09/Device/Echonet/ElectricLock/Service/GetICID"/>
    <Service   name="GetIcon"
        type="http://www.pucc.jp/2007/09/Device/Echonet/ElectricLock/Service/GetIcon"/>
  </ServiceList>
  <PrimitiveDeviceList/>
</Device>
```

**D.5.2. Service Metadata**

The metadata templates of the services that IC card key devices have are shown below.

※ See 6.3.2.for the metadata of the services common to devices.

※ See 9.5 for the metadata of the services of electronic locking devices.

(1)GetICID service metadata

```
<?xml version="1.0" ?>
<Service
      type="http://www.pucc.jp/2007/09/Device/Echonet/ElectricLock/Service/GetICID"
      name="GetICID">
   <InputParameterList>
      <Parameter name="detectionID"    relatedStateVariable="DetectionID"/>
   </InputParameterList>
   <OutputParameterList>
      <Parameter name="CurrentICID"    relatedStateVariable="ICID"/>
   </OutputParameterList>
</Service>
```

# Appendix E. Addition of a State Variable and Services to Indicate Readable Installation Locations

This Appendix defines additional state variable and services used to indicate readable installation locations as shown below.

## E.1. Device Model

The "installation location description" is added as a state variable common to the ECHONET devices. In addition, services are added in order to obtain/set the "installation location description (LocationDescription)."

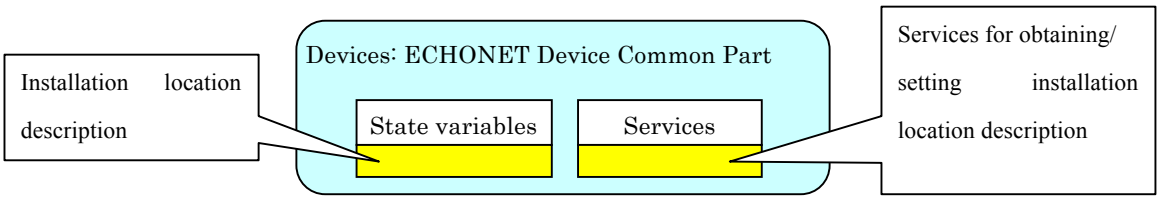


**Figure E.1-1. Device Model to add state variable and services for readable installation description**

## E2. State Variables

The state variable added to the common part is shown below.

**Table E.2-1: Added state variable**

| | State Variable Name | Description | Data Type | Event Generation (Yes/No) |
|---|---|---|---|---|
| 1 | LocationDescription | Installation location description<br>Sets the installation location (InstallationLocation) with a character string highly readable for the user | string | No |

### E.3. Services

The services added to the common part are shown below.

**Table E.3-1: Services added to the common part**

| | Service Name | Description |
|---|---|---|
| 1 | GetLocationDescription | Obtains the installation location description |
| 2 | SetLocationDescription | Sets the installation location description |

### E.3.1. GetLocationDescription

(1)Description

Obtains the installation location description

(2) Service type identifier

http://www.pucc.jp/2007/09/Device/Echonet/Service/GetLocationDescription

(3) Input parameter

Non

(4) Output parameter

**Table E.3.1-2: Output parameter of the GetLocationDescription service**

| | parameter | Related State Variable | Remarks |
|---|---|---|---|
| 1 | CurrentLocationDescription | LocationDescription | Obtains the installation location description |

### E.3.2. SetLocationDescription

(1)Description

Sets the installation location

(2) Service type identifier

http://www.pucc.jp/2007/09/Device/Echonet/Service/SetLocationDescription

(3) Input parameter

**Table E.3.2-1: Input parameter of the SetLocationDescription service**

| | parameter | Related State Variable | Remarks |
|---|---|---|---|
| 1 | CurrentLocationDescription | LocationDescription | Sets the installation location |

(4) Output parameter

Non

## E.4. Metadata

### E.4.1. Device Metadata

The metadata template of the device added to the common part is shown below.

```
    :(Omitted)
  <StateVariableList>
    :(Omitted)
    <StateVariable  name="LocationDescription"  datatype="string"  sendEvents="no" />
  </StateVariableList>
  <ServiceList>
    :(Omitted)
    <Service  name="GetLocationDescription"
        type="http://www.pucc.jp/2007/09/Device/Echonet/Service/GetLocationDescription"/>
    <Service  name="SetLocationDescription"
        type="http://www.pucc.jp/2007/09/Device/Echonet/Service/SetLocationDescription"/>
  </ServiceList>
  <PrimitiveDeviceList/>
</Device>
```

**E.4.2. Services Metadata**

The metadata templates of the services added to the common part are shown below.

(1)GetLocationDescription service metadata

```
<?xml version="1.0" ?>
<Service type="http://www.pucc.jp/2007/09/Device/Echonet/Service/GetLocationDescription"
      name="GetLocationDescription">
   <InputParameterList/>
   <OutputParameterList>
      <Parameter name="CurrentLocationDescription" relatedStateVariable="LocationDescription"/>
   </OutputParameterList>
</Service>
```

(2)SetLocationDescription service metadata

```
<?xml version="1.0" ?>
<Service type="http://www.pucc.jp/2007/09/Device/Echonet/Service/SetLocationDescription"
      name="SetLocationDescription">
   <InputParameterList>
      <Parameter name="NewLocationDescription" relatedStateVariable="LocationDescription"/>
   </InputParameterList>
   <OutputParameterList/>
</Service>
```