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RPC methods

Homegear Cloudconnect provides the following RPC methods:

getDeviceDescription

- (1) Struct getDeviceDescription(Integer peerId)
- (2) Struct getDeviceDescription(String interfaceId)
- (3) Struct getDeviceDescription()

This method returns information about an actual device connected to Homegear (1), a communication interface (2) or the system (3).

Parameters

Parameter	Description
peerId	The Homegear ID of the peer information should be returned for.
interfaceId	The Homegear ID of the communication interface information should be returned for.

Return values

Returns a Struct containing information about the requested entity.

Signature (1) (device)

The returned Struct has the following properties:

Property	Туре	Optional	Description
type	String	no	The name of the product.
name	String	yes	The name assigned to the device.
equipmentId	String	yes	The equipment ID of the device (e.g. the German AKS code).

Return values

Property	Туре	Optional	Description
parent	String	yes	The parent of this device. This entry is a string that contains the location ID of the edge client and the parent's peer ID in the following form: <location id="">_<peer id=""> . E. g. 21:15211.2_23 . Careful: location ID must be the location ID of the edge client the parent device is connected to and NOT the location ID of the parent device.</peer></location>
parentDirection	Integer	yes	Only set when parent is set. 0 for input or subtraction, 1 for output or addition.
serialNumber	String	no	The serial number of the device.
softwareVersion	String	no	The software or firmware version of the device.
description	String	yes	A short description of the device.
longDescription	String	yes	A longer description of the device.
interface	String	no	The interface used to communicate with the device.
roles	Array <string></string>	yes	The list of all roles assigned to the device. When empty, the device can be ignored. Not all roles require an implementation. Roles of level 0 (first two digits) and level 1 (second two digits) are placed here.
tags	Array <string></string>	yes	A list of tags to further specify what the device is used for. E. g. heat-pump for a power meter when the power meter is used to measure the power usage of a heat pump. When the tag is prefixed with section- (e. g. section-primary-facilities), this device is associated to this section. Multiple sections are allowed.
dataPoints	Struct	yes	

Property	Туре	Optional	Description
			The list of data points that are being exposed to Sensaru Cloud.

dataPoints is a Struct, which contains the channel numbers as property name. The value of the channel property is a Struct with the datapoint's id as property name and a Struct with the following properties as value:

]	Property	Туре	Optional	Description
	type	String	no	The type of the datapoint. One of: boolean , string , action , integer , enum , double , array , struct
	operations	Array <string></string>	no	Possible elements are: transmit, read and write. Only read and write are relevant.
	flags	Array <string></string>	no	Possible elements are: visible, internal, transform, service and sticky. See the Homegear documentation for a description of these elements.
	minimumValue	Double or Integer	yes	The minimum possible value of the datapoint. Only relevant for numerical datapoints.
	maximumValue	Double or Integer	yes	The maximum possible value of the datapoint. Only relevant for numerical datapoints.
	special	Struct	yes	Special values with string identifiers. These values can be outside of the scope specified by minimumValue and maximumValue. The property name of the Struct is the string identifier. The value is the special value.
	valueList	Array <string></string>	yes	Defines the names for a datapoint of type enum . The array index of the name is the associated value. If an array element is an empty string, the value is not defined.
	unit	String	yes	The unit of the datapoint (e. g. $^{\circ}$ C).
	priority	Integer	no	A priority between 1 and 5, where 1 means critical, 2 error, 3 warning, 4 info and 5 debug.

Return values

Property	Туре	Optional	Description
au	String	yes	Only set when the location ID of the variable differs from the location ID of the edge client.
roles	Array <struct></struct>	yes	The list of roles assigned to the data point. Every Struct has the following properties: id : The role ID level : The role level: 0 (first two digits are not zero, all digits after this are zero), 1 (second two digits are not zero, last two digits are zero) or 2 (last two digits are not zero).
aggregation	String	no	A recommendation on how to aggregate the data point. Possible values are: none, count (e.g. strings and actions), count-distinct (e.g. enumerations and booleans), average and meter.
label	Struct	yes	The label of the datapoint. The property name of the Struct is the language code and property value the translation. The language code can be either only the ISO 639 language code or the ISO 639 language code and the ISO 3166 country code separated by a dash (-).
description	Struct	yes	The description of the datapoint. The property name of the Struct is the language code and property value the translation. The language code can be either only the ISO 639 language code or the ISO 639 language code and the ISO 3166 country code separated by a dash (-).

EXAMPLE:

"read"], "priority": 4, "type": "double", "unit": "ppm" }, "HUMIDITY": { "flags": ["visible"], "maximumValue": 670760, "minimumValue": 0, "operations": ["transmit", "read"], "priority": 4, "roles": [{ "direction": 0, "id": 700004, "level": 2 }, { "direction": 0, "id": 700000, "level": 0 }], "type": "double", "unit": "%" }, "TEMPERATURE": { "flags": ["visible"], "maximumValue": 670760, "minimumValue": -273, "operations": ["transmit", "read"], "priority": 4, "roles": [{ "direction": 0, "id": 700010, "level": 2 }, { "direction": 0, "id": 700000, "level": 0 }], "type": "double", "unit": "°C"

```
}
   }
  },
  "interface": "KNX",
  "name": "Schlafzimmer - Präsenzmelder",
  "roles": [
   700000
  ],
  "tags": [
   "my-tag-1",
   "my-tag-2"
  ],
  "serialNumber": "KNX00000024",
  "softwareVersion": "1.0",
  "type": "2.2.3"
}
}
```

Signature (2) (interface)

The returned Struct has the following properties:

Property	Туре	Optional	Description
name	String	no	The name of the interface.
serialNumber	String	yes	The serial number of the interface.
softwareVersion	String	yes	The software of firmware version of the interface.
associatedDevices	Array <integer></integer>	no	An array with all peer IDs associated to this interface.
dataPoints	Struct	yes	The list of data points that are being exposed to Sensaru Cloud.

The dataPoints Struct is the same as in signature (1).

EXAMPLE:

```
{
    "id": 12,
    "jsonrpc": "2.0",
    "result": {
        "name": "KNX interface (KNX)",
        "associatedDevices": [12, 27, 28, 49, 54],
        "dataPoints": {
        "online": {
    }
}
```

```
"flags": [
    "visible",
    "service"
    ],
    "operations": [
        "read"
    ],
    "priority": 2,
    "type": "boolean"
    }
    },
    "serialNumber": "ENO14230050002",
    "softwareVersion": "15"
    }
}
```

Signature (3) (system)

The returned Struct has the following properties:

Property	Туре	Optional	Description
hasPhysicalHa	Boolean	no	true when this is a high-availability environment using two physical devices in the same installation. When true, there are two devices: A master and a slave device. Otherwise there is only one physical device.
hasVirtualHa	Boolean	no	true when this is a high-availability environment using one physical device and one virtual backup. The virtual device does not have a serial number or firmware version.
masterSerialNumber	String	no	Serial number of master device.
slaveSerialNumber	String	yes	Serial number of slave device.
masterFirmwareVersion	String	no	Firmware version of master device.
slaveFirmwareVersion	String	yes	Firmware version of slave device.
distribution	String	no	The linux distribution installed on the device.

Return values

Property	Туре	Optional	Description
codename	String	no	The codename of the linux distribution installed on the device.
architecture	String	no	The architecture of the system (e.g. amd64 or armhf).
version	String	no	The Homegear version installed on the system.
activeHaInstance	String	yes	Only available in high-availability environments. Can be either master or slave .
associatedInterfaces	Array <string></string>	no	An array with the IDs of all communication interfaces associated to this edge client.
dataPoints	Struct	yes	The list of data points that are being exposed to Sensaru Cloud.

The dataPoints Struct is the same as in signature (1).

EXAMPLE:

```
{
"id": 12,
"jsonrpc": "2.0",
"result": {
 "activeHaInstance": "master",
 "architecture": "armhf",
 "associatedInterfaces": [
  "5.virtual",
   "My-Sonos-1234",
   "BK90x0",
   "KNX",
   "ENO14230050002",
  "254.virtual"
  ],
  "codename": "bullseye",
  "distribution": "Raspbian",
  "hasPhysicalHa": true,
  "masterFirmwareVersion": "15",
  "masterSerialNumber": "COR14260430001",
  "slaveFirmwareVersion": "13",
  "slaveSerialNumber": "COR14260430002",
  "version": "0.8.0-3392"
```

} }