Hobby API – Technical documentation

Scope

The integrator API allows control of the Niko Home Control platform by external systems, connected on the same local network.

The integrator API is intended for professional use by system integrators.

It offers following functionality:

- Access to the Niko Home Control Locations list
- Access to the Niko Home Control devices list
- Control of the Niko Home Control devices
- Status updates of the Niko Home Control devices
- Notification message updates from the Niko Home Control installation

This document details the API technical information and is intended for developers.

Document History

Version	Date	Description
1.0	**19/03/2019**	**Initial Version**
1.1	**23/09/2019**	**Support for Wireless Smart Hub** **Starting from release 2.6.x:** **Additional property for** **All Of Action** **Free Start Stop Action** **House Mode Action** **Mood Action**
1.2	**23/10/2020**	**Removed: internal parameter for Energy Metering module** **Added Generic ZigBee Smart plug** **Added Niko ZigBee Smart Plug** **Added Generic ZigBee Smart plug** **Added NHC Touch switch thermostat (Digital Black)** **Added NHC Virtual flag** **Changed: Typo in notifications examples** **Added: reference to the programming software manual on the Niko guide**
1.3	**30/08/2023**	**Added: Device model - Generic ZigBee Heating/Cooling Implementation** **Added: Device model NHC Player Status Action** **Added: Device model – NHC Thermo switch** **Added: Device model – NHC Virtual Thermostat** **Added: Device model – NHC NHC ZigBee Electricity Metering module (with clamp)** **Added in: Device model – Generic Zigbee Smart plug** **Property Status** **Added in: Device model – NHC Smart plug** **Parameter Groupid** **Parameter Groupid1-Groupid25** **Property Status**

Version	Date	Description
		Added in: Device model - NHC All Off Action **Property AllStarted** **Added in: Device model - NHC Free Start Stop Action** **Property AllStarted** **Added in: Device model - NHC House mode Action** **Property AllStarted** **Added in: Device model - NHC Mood** **Property AllStarted** **Added in: Device model Sonos Speaker** **Parameter API version** **Parameter Software version** **Added in Device model - NHC Access Control Action** **Property Callpending** **Property CallAnswered** **Added in Device model - NHC motor Action** **Property LastDirection** **Added: several parameters in various devices which are visible but not in use by the API** **Changed: several typo's**
1.4	**25/03/2025**	**Added "Iconcode" in parameter of various device models** **Added support for retrieving measurement data (for device properties having a logging feature)** **Added** **Device model - NHC Conditional action** **Device model - NHC PeakMode action** **Device model - NHC SolarMode action** **Device model - NHC Timeschedule action??** **Device model - NHC Electrical Heating Action??** **Device model - ZigBee Battery Metering Clamp** **Device model – NHC Battery Metering Clamp** **Device model – Generic Charging Station** **Device model – NHC Metering module (pulse meter)** **Device model – NHC Outdoor Video Door Station** **Updated** **Device model – NHC ZigBee Electricity Metering module (with clamp)** **Device model – NHC Electricity Metering module (with clamp)** **Device model – Energy Home** **Device model – NHC Zigbee Smart plug** **Device model – Generic Zigbee Smart plug**

Contents

System setup

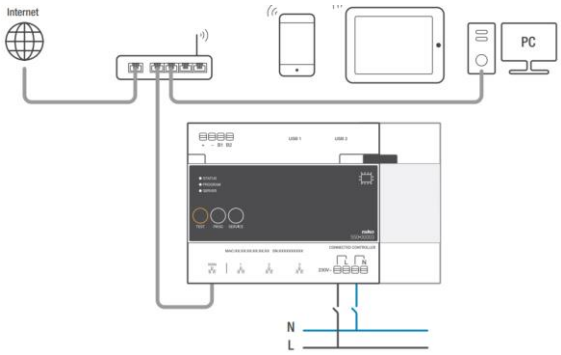
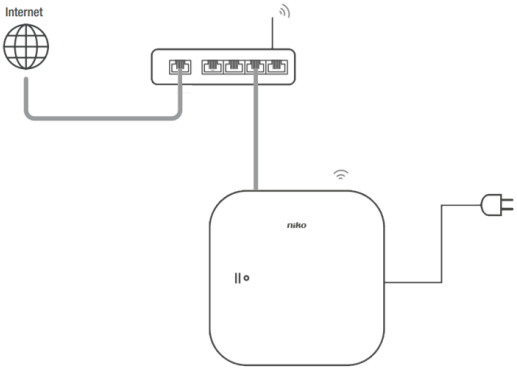
The local API allows access to the Niko Home Control players and actions, as configured during the commissioning phase of the Niko Home Control installation.

API data content could change due to configuration updates or new functionality that becomes available with future product evolutions (e.g. new functionality in future releases; new or removed items due to configuration changes).

When developing the application or driver, take into account that device objects could be extended with new traits, parameters and properties when new Niko Home Control software versions are released.

More information on how to program and configure a Niko Home Control installation can be found in the Niko guide (http://guide.niko.eu/), the section Niko Home Control II programming software.

Within the Niko Home Control programming software, the terminology players and actions/routines is used; on API level, those players and actions/routines are identified as “devices”.

Niko Home Control bus wiring	**Niko Home Control wireless**
	
The API is accessible via • The WAN port of the Connected Controller. The WAN port requires a DHCP server for the IP network setup. • The LAN port 3, when this port is configured to connect to a centralized network. The LAN port 3 requires in this case a DHCP server for the IP network setup. The Connected Controller requires internet connectivity for correct operation.	The API is accessible via • The WAN port of the Wireless smart hub. The WAN port requires a DHCP server for the IP network setup. • The WiFi connection of the Wireless smart hub. When the Wireless smart hub is connected to a WiFi access point, it requires also a DHCP server for the WiFi IP network setup The Wireless smart hub requires internet connectivity for correct operation.

General API information

The API uses two different technologies

- An MQTT interface for command and control
- A REST interface to retrieve historical measurement data

REST Interface

Scheme

HTTPS

Base URL: **Niko<last 4 characters of the MAC-Address of the controller>.local**/measurements/v1

Example: **Niko870A.local**/measurements/v1

The MAC-address of the Connected Controller and Smart Hub can also be retrieved via the hostname (cfr. discovery process)

MQTT communication protocol

The interface is an event driven solution in both directions, as a consequence continues polling requests are not needed.

States and status information updates can be captured by listening to the respective event topics.

All commands/methods are fire-and-forget: there is no response message, unless explicitly mentioned.

The API communication uses MQTT as transport with JSON payloads.

The Connected Controller and Smart Hub contains an MQTT broker, using IP port 8884.

The MQTT communication encrypted via SSL/TLS (TLSv1.2 or TLS1.3)

The CA certificate file will be delivered by Niko.

MQTT Topic

The MQTT Topics are “'logical channels” where API messages are exchanged and do have following format:

<connector>/<api-service>/<message class>/<message-type>

Field	Values	Description
connector	**hobby**	**Isolated and secure communication channel for a specific user or device profile**
api-service	**control system**	**Control service: to connect and control the Niko Home Control platform System service: system related information**

Field	Values	Description
	notification	**Notification service: notification message related information**
message-class	**devices locations**	**Application domain: defines the context of the message**
message-type	**cmd evt rsp err**	**cmd: Command messages evt: Event messages rsp: Response message as reaction upon a command, having an explicit reply. err: error message Note that the intended use of these channels is the following: The external application is allowed to publish on cmd topics and subscribe on evt/rsp and err ones.**

MQTT object format

Cmd/evt and rsp messages share a common structure, where the field “Params” is optional

```
MQTT method: publish
TOPIC:      <connector>/<api-service>/<message class>/<message-type>
DATA:
{
        "Method": <functionality>
        "Params": <message payload>
}
```

Err (error) messages do have following structure

```
MQTT method: subscribe
TOPIC:      <connector>/<api-service>/<message class>/<message-type>
DATA:
{
         "Method":"<command>",
        "ErrCode":"<error-tag>",
        "ErrMessage":"<descriptive-message>"
}
```

Discovery process

The Connected Controller and Smart Hub are discoverable via DNS-SD on the WAN port.

The published hostname has following format: Niko<last 4 characters of the MAC-Address of the controller>.local

Example hostname: Niko870A.local

API Authentication

The API is protected with authentication and authorization.
It requires a JWT token to communicate with the connected controller or Smart Hub.

The JWT token and username can be obtained for your installation via the Niko Home Control programming software. This JWT token is unique per installation and needs to be renewed on a yearly basis.

For the MQTT communication

MQTT username: username as, provided by Niko
MQTT password: JWT token, as provided by Niko

For the REST API communication

Authorization header, Bearer <JWT token>: JWT token, as provided by Niko

The connected controller or Smart Hub needs to be online when the token is used for the first time.

Device model description

The devices within the Niko Home Control system are modelled according to the following conventions.

Players and actions (terminology as used in Niko Home Control programming software) are collectively mapped to devices on the API.

Device descriptor

The device descriptor fields are mandatory for all devices and are describing the device

Device descriptor	Description
Uuid	**Unique Identifier within the Niko Home Control Platform, used for addressing the device in e.g. the location list and control device commands**
Type	**Device application type**
Technology	**Defines the manufacturer of the device**
Model	**Defines the hardware model**
Identifier	**Niko Home Control configuration identifier**
Name	**Human readable, display name of the device, can be updated by the user installer**
Traits	**List of device specific context features**
Parameters	**List of device configuration options**
Properties	**List of run-time functions**

Device Traits

Device traits are device specific details (which are fixed) providing more context about the device.

See Annex A device objects for the available traits (as they are specific per device class)

Some examples:

Trait example	Description
MacAddress	**The Niko Home Control bus mac address of this device**
Channel	**The channel on the physical module this device is connected to.**

Device parameters

Device parameters are typically fields which are filled in during configuration and commissioning of the installation. The values of those fields do not change during normal operational use of the installation. See Annex A device objects for the available parameters (as they are specific per device class).
Note that there are devices having the same device class and using different content.

Some examples:

Parameter example	Description
LocationName	**Name of the Location**
Location	**UUID of the assigned location**
LocationIcon	**Reference to the location icon**

Device properties

Device properties can be considered as run-time functionality of a device. The values of those properties are changing regularly during normal operation use of the system.

A property has the following format and definitions.

Property	Description
Name	**Name of the property** **Text field**
Type	**Indicates the type of variable.** **Text field with following options:** **Range (Minimum value, Maximum value, Stepsize)** **Boolean (True, False)** **Text (text field)** **Choice (List of discrete values)**
Status	**Indicates whether the property has status information and is capable to report it** **Boolean field**
Control	**Indicates whether the property can be controlled via the control command** **Boolean field**
Schedule	**Indicates whether the property can be used in a weekly schedule program** **Boolean field** **Remark: schedules cannot be accessed or configured via the API**

Property	Description
Logging	**Indicates whether the property reports historical measurement information** **Boolean field** **Remark: this measurement data can be retrieved via the REST API**

See Annex A device objects for the available properties (as they are specific per device type). Note that there are devices having the same device class and using different content.

Some examples:

Property example	Type	Status	Control	Schedule	Logging
Program	**Choice(Home, Away, Vacation, Day, Night, ...)**	**true**	**true**	**false**	**false**
AmbientTemperature	**Range(-50,100,1)**	**true**	**false**	**false**	**false**

API functions (methods)

Device management

List all devices

Command

Requests the list of all devices within the Niko Home Control installation

MQTT Topic format

hobby/control/devices/cmd

Application Data

Method: devices.list

Parameters: Not applicable

Response

Returns the list of all available devices in the installation.

MQTT Topic format

hobby/control/devices/rsp

Application Data

Method: devices.list

Parameters: list of all available devices (See Annex A device objects for all possibilities)

Error

Published by the Niko Home Control platform whenever an error occurs in the given device command, replaces the application response.

MQTT Topic format

hobby/control/devices/err

Application Data

Method: < originating command>

ErrCode:<error-tag, identifying the global error code>

ErrMessage:<descriptive message of the error>

Error codes:

Errorcode	Description
INVALID_JSON_STRING	**Method is not correctly formatted**
UNKNOWN_METHOD	**Method "unknown" not supported**
INTERNAL_ERROR	**Internal application error** **Illegal property for a device (ErrMessage: Failed to set property 'Unknown' to '100' for device '21a967a1-676d-487b-b8d4-9736ef16d450')** **Illegal value for device property (ErrMessage: Failed to set property 'Status' to '100' for device '21a967a1-676d-487b-b8d4-9736ef16d450')** **Illegal device (ErrMessage: No device found with uuid = 'unknown')**
ACCESS_VIOLATION	**Unknown device (ErrMessage":"Device (21a967a1-676d-487b-b8d4-9736ef16d450) is not accessible")**
UNKNOWN_ERROR	**Generic failure**

Example

Command

MQTT method: publish

TOPIC: hobby/control/devices/cmd

DATA:

```
{
        "Method": "devices.list"
}
```

Reponse

MQTT method: subscribe

TOPIC: hobby/control/devices/rsp

DATA:

{

```
"Method": "devices.list",
"Params": [{
        "Devices": [{
                "Properties": [{
                        "Brightness": "100"
                }, {
                        "Status": "Off"
                }, {
                        "Aligned": "True"
                }],
                "Name": "Dimmable lamp",
                "Technology": "nikohomecontrol",
                "Uuid": "21a967a1-676d-487b-b8d4-9736ef16d450",
                "Identifier": "a4fafca1-bde4-4ad7-94f9-292c60c26bf7",
                "PropertyDefinitions": [{
                        "Brightness": {
                                "Description": "Range(0.00,100.00,1.00)",
                                "HasStatus": "true",
                                "CanControl": "true"
                        }
                }, {
                        "Status": {
                                "Description": "Choice(On,Off)",
                                "HasStatus": "true",
                                "CanControl": "true"
                        }
                }, {
                        "Aligned": {
                                "Description": "Boolean",
                                "HasStatus": "true",
                                "CanControl": "false"
                        }
                }],
                "Online": "True",
                "Model": "dimmer",
                "Traits": [],
                "Type": "action",
                "Parameters": [{
                        "LocationId": "7f62f934-83d3-4c66-b4bd-df7065cb1c6a"
                }, {
                        "LocationName": "Demo"
                }, {
                        "LocationIcon": "general"
                }]

        }]
}]
}
```

Error

MQTT method: subscribe

TOPIC: hobby/control/devices/err

DATA:


```
{
	"ErrMessage": "Method 'unknown' not supported for topic 'hobby/control/devices/cmd'",
	"ErrCode": "UNKNOWN_METHOD",
	"Method": "unknown"
}
```


Device added event

Published by the Niko Home Control platform when a new device is added in the installation.

MQTT Topic format

hobby/control/devices/evt

Application Data

Method: devices.added

Parameters

Parameter	Description
Devices	**The list of new devices**
	See Device model description for details **Additional model changes could be reported later on in the process via the Device Parameter Changed event or via Device Property Definition changed event**

Example

MQTT method: subscribe

TOPIC: hobby/control/devices/evt

DATA:


```
{
	"Method": "devices.added",
	"Params": [{
		"Devices": [{
				"Name": "Single dimming control with LEDs",
				"Technology": "nikohomecontrol",
				"Uuid": "b6a06a67-ce6f-42e2-933b-c67227996f46",
				"Identifier": "071da53c-03ed-46b7-9036-082d8c1f47e2",
				"Model": "dimcontrollerfeedback",
				"Traits": [{
					"MacAddress": "002807d4"
				}],
				"Type": "panel",
				"Parameters": [{
						"LocationId": "7f62f934-83d3-4c66-b4bd-df7065cb1c6a"
					}, {
						"LocationName": "Demo"
```

```
                    }, {
                        "LocationIcon": "general"
                }]
            },  {
                "Name": "All-off",
                "Technology": "nikohomecontrol",
                "Uuid": "76924964-ae78-49ed-a011-f2939d0c6ff4",
                "Identifier": "fc7993cd-2711-41c1-aebc-4fcac32b8fa3",
                "Model": "alloff",
                "Traits": [],
                "Type": "action",
                "Parameters": [{
                        "LocationId": "7f62f934-83d3-4c66-b4bd-df7065cb1c6a"
                    }, {
                        "LocationName": "Demo"
                    }, {
                        "LocationIcon": "general"
                }]
        } ]
    }]
}
```


Device removed event

Published by the Niko Home Control platform when an existing device is removed from the installation.

MQTT Topic format

hobby/control/devices/evt

Application Data

Method: devices.removed

Parameters

Parameter	Description
Devices	**The list of removed devices**
Uuid	**Unique device identifier**

Example

MQTT method: subscribe

TOPIC: hobby/control/devices/evt

DATA:


```
{
    "Method": "devices.removed",
    ”Params": [{
        "Devices": [{
                "Uuid": "ab2e315e-a6df-4cc8-9518-5fa2a48226f5"
            }, {
                "Uuid": "ae56f142-03ca-4de6-8547-282489a615ca"
```

```
                }]
        }]
}
```

Device Display name changed event

Published by the Niko Home Control platform when the display name of a device is changed. The display name is visible on the various user interfaces of the Niko Home Control installation

MQTT Topic format

hobby/control/devices/evt

Application Data

Data Method: devices.displayname_changed

Parameters

Parameter		Description
Devices		**The list of changed devices**
	Uuid	**Unique device identifier**
	DisplayName	**Updated display name**

Example

MQTT method: subscribe
TOPIC: hobby/control/devices/evt
DATA:

```
{
        "Method": "devices.displayname_changed",
        "Params": [{
                "Devices": [{
                        "DisplayName": "Single push button",
                        "Uuid": "ae56f142-03ca-4de6-8547-282489a615ca"
                }]
        }]
}
```

Device Property Definition changed event

Published by the Niko Home Control platform when the definition of one or more device properties changed

MQTT Topic format

hobby/control/devices/evt

Application Data

Data Method: devices.changed

Parameters

Parameter	Description
Devices	**The list of given devices**
Uuid	**The unique identifier of the given device**
PropertyDefinitions	**List of changed property definitions for the device**
Property name: New property definition	**New definitions for the given property**

Example

MQTT method: subscribe

TOPIC: hobby/control/devices/evt

DATA:

```
{
	"Method": "devices.changed",
	"Params": [{
		"Devices": [{
				"PropertyDefinitions": [{
					"BasicState": {
						"Description": "Choice(On,Off,Triggered)",
						"HasStatus": "true",
						"CanControl": "true"
					}
				}],
				"Uuid": "76924964-ae78-49ed-a011-f2939d0c6ff4"
			}, {
				"PropertyDefinitions": [{
					"Status": {
						"Description": "Choice(On,Off)",
						"HasStatus": "true",
						"CanControl": "true"
					}
				}],
				"Uuid": "ab2e315e-a6df-4cc8-9518-5fa2a48226f5"
		}]
	}]
}
```

Device Parameter Changed event

Published by the Niko Home Control platform when a parameter of a device is changed

MQTT Topic format

hobby/control/devices/evt

Application Data

Data Method: devices.param_changed

Parameters

Parameter	Description
Devices	**The list of given devices**
Uuid	**The unique identifier of the given device**

Parameter	Description
Parameters	**List of changed parameters for the device**
Parameter name : New value	**New value for the given parameter**

Example

MQTT method: subscribe
TOPIC: hobby/control/devices/evt
DATA


```
{
    "Method": "devices.param_changed",
    "Params": [{
        "Devices": [{
            "Parameters": [{
                "LocationId": "7f62f934-83d3-4c66-b4bd-df7065cb1c6a"
            }, {
                "LocationName": "Demo"
            }, {
                "LocationIcon": "general"
            }],
            "Uuid": "ab2e315e-a6df-4cc8-9518-5fa2a48226f5"
        }, {
            "Parameters": [{
                "LongPressTime01": "1000"
            }, {
                "LocationId": "7f62f934-83d3-4c66-b4bd-df7065cb1c6a"
            }, {
                "LocationName": "Demo"
            }, {
                "ButtonMode01": "ShortPress"
            }, {
                "LocationIcon": "general"
            }],
            "Uuid": "ae56f142-03ca-4de6-8547-282489a615ca"
        }, {
            "Parameters": [{
                "LocationId": "7f62f934-83d3-4c66-b4bd-df7065cb1c6a"
            }, {
                "LocationName": "Demo"
            }, {
                "LocationIcon": "general"
            }],
            "Uuid": "d06d3d73-6820-4309-be16-1e201d4aa8b8"
        }]
    }]
}
```

Device control

Control device

Command

Controls a set of properties for the given devices.

MQTT Topic format

hobby/control/devices/cmd

Application Data

Data Method: devices.control

Parameters

Parameter	Description
Devices	**The list of given devices**
Uuid	**The unique identifier of the given device**
Properties	**Property list to be changed for the given device**
Property name : New value	**New value for the given property**

See Device model description for details.

Response

Not applicable.

Device status updates are published via the Devices status changed event

Error

Published by the Niko Home Control platform whenever an error occurs in the given device command, replaces the application response.

MQTT Topic format

hobby/control/devices/err

Application Data

Method: < originating command>

ErrCode:<error-tag, identifying the global error code>

ErrMessage:<descriptive message of the error>

Error codes:

Errorcode	Description
INVALID_JSON_STRING	**Method is not correctly formatted**
UNKNOWN_METHOD	**Method “unknown” not supported**

Errorcode	Description
INTERNAL_ERROR	**Internal application error** **Illegal property for a device (ErrMessage: Failed to set property 'Unknown' to '100' for device '21a967a1-676d-487b-b8d4-9736ef16d450')** **Illegal value for device property (ErrMessage: Failed to set property 'Status' to '100' for device '21a967a1-676d-487b-b8d4-9736ef16d450')** **Illegal device (ErrMessage: No device found with uuid = 'unknown')**
ACCESS_VIOLATION	**Unknown device (ErrMessage":"Device (21a967a1-676d-487b-b8d4-9736ef16d450) is not accessible")**
UNKNOWN_ERROR	**Generic failure**

Remarks:

When a device is offline while it is being controlled via the API:

- there will be no error event
- there will be no status update events

When a control command contains multiple actions to be executed and there is an error in one of the properties/values, the valid property commands will be executed and the invalid ones will be filtered out.

Example

Command

MQTT method: publish

TOPIC: hobby/control/devices/cmd

DATA:

```
{
        "Method": "devices.control",
        "Params": [{
                "Devices": [{
                        "Properties": [{
                                        "Brightness": "100"
                                }, {
                                        "Status": "On"
                        }],
                        "Uuid": "21a967a1-676d-487b-b8d4-9736ef16d450"
                }]
        }]
}
```

Error

MQTT method: subscribe

TOPIC: hobby/control/devices/err

DATA:

```
{
        "ErrMessage": "Failed to set property 'Status' to '100' for device '21a967a1-676d-487b-b8d4-9736ef16d450'",
```

"ErrCode": "INTERNAL_ERROR",
"Method": "devices.control"
}

Devices status changed event

Published by the Niko Home Control platform when a device property values or device parameter values are changed.

MQTT Topic format

hobby/control/devices/evt

Application Data

Method: devices.status

Parameters

Parameter	Description
Devices	**The list of changed devices**
Uuid	**Unique device identifier**
Properties	**List of changed properties**
Property name : New value	**New value for the given property**
Online	**Online status of the device**

Example

MQTT method: subscribe
TOPIC: hobby/control/devices/evt
DATA:

{
"Method": "devices.status",
"Params": [{
"Devices": [{
"Properties": [{
"BasicState": "Off"
}],
"Uuid": "76924964-ae78-49ed-a011-f2939d0c6ff4"
}, {
"Properties": [{
"Brightness": "100"
}, {
"Status": "On"
}],
"Uuid": "21a967a1-676d-487b-b8d4-9736ef16d450"
}]
}]
}

Locations

List locations

Command

Requests the list of all locations within the Niko Home Control installation

MQTT Topic format

hobby/control/locations/cmd

Application Data

Method: locations.list

Parameters: Not applicable

Response

Returns the list of all available locations in the installation.

MQTT Topic format

hobby/control/locations/rsp

Application Data

Method: locations.list

Parameters: list of all available locations

Parameter	Description
Uuid	**The unique identifier of this location**
Name	**Displayname, user given name for this location**
Index	**The index determines in what order the locations should be shown on the user interfaces in the Niko Home Control platform**
Icon	**Icon is a tag/name used as a reference to display the corresponding icon on the user interfaces in the Niko Home Control platform**

Error

Published by the Niko Home Control platform whenever an error occurs for the given location command.

MQTT Topic format

hobby/control/location/err

Application Data

Method: < originating command>

ErrCode:<error-tag, identifying the global error code>

ErrMessage:<descriptive message of the error>

Error codes:

Errorcode	Description
INVALID_JSON_STRING	**Method is not correctly formatted**
UNKNOWN_METHOD	**Method “unknown” not supported**
INTERNAL_ERROR	**Internal application error** **Illegal property for a device (ErrMessage: Failed to set property 'Unknown' to '100' for device '21a967a1-676d-487b-b8d4-9736ef16d450')** **Illegal value for device property (ErrMessage: Failed to set property 'Status' to '100' for device '21a967a1-676d-487b-b8d4-9736ef16d450')** **Illegal device (ErrMessage: No device found with uuid = 'unknown')**
ACCESS_VIOLATION	**Unknown device (ErrMessage":"Device (21a967a1-676d-487b-b8d4-9736ef16d450) is not accessible")**
UNKNOWN_ERROR	**Generic failure**

Example

Command

MQTT method: publish
TOPIC: hobby/control/locations/cmd
DATA:

```
{
        "Method":"locations.list"
}
```

Response

MQTT method: subscribe
TOPIC: hobby/control/locations/rsp
DATA:

```
{
        "Method": "locations.list",
        "Params": [{
                "Locations": [{
                                "Icon": "general",
                                "Name": "Home",
                                "Index": "1",
                                "Uuid": "b4e948b8-6378-498f-961c-b7c285c9f5b8"
                        }, {
                                "Icon": "general",
                                "Name": "Demo",
                                "Index": "2",
                                "Uuid": "7f62f934-83d3-4c66-b4bd-df7065cb1c6a"
                }]
        }]
}
```

Error

MQTT method: subscribe

TOPIC: hobby/control/location/err

DATA:


```
{
        "ErrMessage": "Method 'unknown' not supported for topic 'hobby/control/location/cmd'",
        "ErrCode": "UNKNOWN_METHOD",
        "Method": "unknown"
}
```


List devices in locations

Command

Requests the list of all devices for the given locations within the Niko Home Control installation

MQTT Topic format

hobby/control/locations/cmd

Application Data

Method: locations.listitems

Parameters: Not applicable

Parameter	Value
Location	**Array of the unique location identifiers (UUID's).**

Response

Returns the list of all available devices for the given locations within the Niko Home Control installation.

MQTT Topic format

hobby/control/locations/rsp

Application Data

Method: locations.listitems

Parameters: list of the all available devices per given location

Parameter	Description
Locations	**The list of given locations**
Uuid	**The unique identifier of the given location**
Items	**List of all devices for the given location**
Uuid	**The unique identifier of the device**
Index	**The index determines in what order the devices should be shown on the user interfaces in the Niko Home Control platform for the given location**

Error

Published by the Niko Home Control platform whenever an error occurs for the given location command.

MQTT Topic format

hobby/control/location/err

Application Data

Method: < originating command>

ErrCode:<error-tag, identifying the global error code>

ErrMessage:<descriptive message of the error>

Error codes:

Errorcode	Description
INVALID_JSON_STRING	**Method is not correctly formatted**
UNKNOWN_METHOD	**Method "unknown" not supported**
INTERNAL_ERROR	**Internal application error** **Illegal property for a device (ErrMessage: Failed to set property 'Unknown' to '100' for device '21a967a1-676d-487b-b8d4-9736ef16d450')** **Illegal value for device property (ErrMessage: Failed to set property 'Status' to '100' for device '21a967a1-676d-487b-b8d4-9736ef16d450')** **Illegal device (ErrMessage: No device found with uuid = 'unknown')**
ACCESS_VIOLATION	**Unknown device** **(ErrMessage":"Device (21a967a1-676d-487b-b8d4-9736ef16d450) is not accessible")**
UNKNOWN_ERROR	**Generic failure**

Remark: When an invalid location ID is used, an empty list will be returned

Example

Command

MQTT method: publish
TOPIC: hobby/control/locations/cmd
DATA:

```
{
        "Method":"locations.listitems"
        "Params": [{
                "Locations": [{
                                "Uuid": "b4e948b8-6378-498f-961c-b7c285c9f5b8"
                        }, {
                                "Uuid": "7f62f934-83d3-4c66-b4bd-df7065cb1c6a"
                } ]
        }]
}
```

Response

MQTT method: subscribe

TOPIC: hobby/control/locations/rsp

DATA:


```
{
	"Method": "locations.listitems",
	"Params": [{
		"Locations": [{
			"Items": [],
			"Uuid": "b4e948b8-6378-498f-961c-b7c285c9f5b8"
		}, {
			"Items": [{
				"Index": "0",
				"Uuid": "76924964-ae78-49ed-a011-f2939d0c6ff4"
			}, {
				"Index": "0",
				"Uuid": "21a967a1-676d-487b-b8d4-9736ef16d450"
			}],
			"Uuid": "7f62f934-83d3-4c66-b4bd-df7065cb1c6a"
		}]
	}]
}
```


Error

MQTT method: subscribe

TOPIC: hobby/control/location/err

DATA:


```
{
	"ErrMessage": "Method 'unknown' not supported for topic 'hobby/control/location/cmd'",
	"ErrCode": "UNKNOWN_METHOD",
	"Method": "unknown"
}
```


System information

Time information event

Time information published by the Niko Home Control platform every 30 seconds

MQTT Topic format

hobby/system/evt

Application Data

Method: time.published

Parameters

Parameter		Description
Timeinfo		
	GMT offset	**Unique device identifier**
	Timezone	**Timezone**
	IsDST	**Day light savings**
	UTCTime	**Current date time (UTC)**

Example

MQTT method: publish

TOPIC: hobby/system/evt
DATA:

```
{
        "Method": "time.published",
        "Params": [{
                "TimeInfo": [{
                        "GMTOffset": "3600",
                        "Timezone": "Europe/Brussels",
                        "IsDST": "0",
                        "UTCTime": "20190206093851"
                }]
        }]
}
```

System information request

Command

Requests the Niko Home Control system information

MQTT Topic format

hobby/system/cmd

Application Data

Method: systeminfo.publish

Parameters : Not applicable

Response

Returns the Niko Home Control system information

MQTT Topic format

hobby/system/rsp

Application Data

Method: systeminfo.published

Parameters

Parameter		Description
SystemInfo		
	LastConfig	**Date time stamp of last configuration change in Niko Home Control**
	WaterTariff	**Tariff for water (price per m^3)**
	Currency	**Tariff currency (€, $, £)**
	Units	**Always 0 (Metric system)**
	Language	**User language**

Parameter		Description
	SWversions	**Niko Home Control version and installed SW image of the Connected Controller**
	ElectricityTariff	**Tariff for electricity (price per kWh)**
	GasTariff	**Tariff for gas (price per m^3)**

Example

Command

MQTT method: publish

TOPIC: hobby/system/cmd

DATA:

```
{
        "Method": " systeminfo.publish "
}
```

Response

MQTT method: subscribe

TOPIC: hobby/control/time/rsp

DATA:

```
{
        "Method": "systeminfo.publish",
        "Params": [{
                "SystemInfo": [{
                        "LastConfig": "20190206093827",
                        "WaterTariff": "0",
                        "Currency": "EUR",
                        "Units": "0",
                        "Language": "EN",
                        "SWversions": [{
                                "NhcVersion": "2.5.1.0"
                            }, {
                                "CocoImage": "2019.1-20190118105507"
                        }],
                        "ElectricityTariff": "0",
                        "GasTariff": "0"
                }]
        }]
}
```

System information event

System information published by the Niko Home Control platform when configuration is updated.

MQTT Topic format

hobby/system/evt

Application Data

Method: systeminfo.published

Parameters

Parameter		Description
SystemInfo		
	LastConfig	**Date time stamp of last configuration change in Niko Home Control**
	WaterTariff	**Tariff for water (price per m^3)**
	Currency	**Tariff currency (€, $, £)**
	Units	**Always 0 (Metric system)**
	Language	**User language**
	SWversions	**Niko Home Control version and installed SW image of the Connected Controller**
	ElectricityTariff	**Tariff for electricity (price per kWh)**
	GasTariff	**Tariff for gas (price per m^3)**

Example

MQTT method: subscribe

TOPIC: hobby/control/time/evt
DATA:

```
{
        "Method": "systeminfo.published",
        "Params": [{
                "SystemInfo": [{
                        "LastConfig": "20190206093827",
                        "WaterTariff": "0",
                        "Currency": "EUR",
                        "Units": "0",
                        "Language": "EN",
                        "SWversions": [{
                                "NhcVersion": "2.5.1.0"
                        }, {
                                "CocoImage": "2019.1-20190118105507"
                        }],
                        "ElectricityTariff": "0",
                        "GasTariff": "0"
                }]
        }]
}
```

Notifications

List Notifications

Command

Requests the list of all notifications within the Niko Home Control installation

MQTT Topic format

hobby/notification/cmd

Application Data

Method: notifications.list

Parameters: Not applicable

Response

Returns the list of all available notifications in the installation.

Number of notifications is limited to 50. When number of notifications exceeds the limit, older notifications will be removed according (FIFO principle)

MQTT Topic format

hobby/notification/rsp

Application Data

Method: notifications.list

Parameters: list of all available notifications

Parameter	Description
Uuid	**The unique identifier of this notification**
TimeOccurred	**Date time stamp (<YYYYMMDDHHMMSS>;UTC) of the notification occurrence**
Type	**alarm: alarm notification (as defined via the programming software)** **notification: informative notification (as defined via the programming software)**
Status	**new: new notification** **read: notification is read**

Error

Published by the Niko Home Control platform whenever an error occurs for the given location command.

MQTT Topic format

hobby/notification/err

Application Data

Method: < originating command>

ErrCode:<error-tag, identifying the global error code>

ErrMessage:<descriptive message of the error>

Error codes:

Errorcode	Description
INVALID_JSON_STRING	**Method is not correctly formatted**
UNKNOWN_METHOD	**Method “unknown” not supported**
INTERNAL_ERROR	**Internal application error**
ACCESS_VIOLATION	**Unknown notification** **(ErrMessage":"Notification (21a967a1-676d-487b-b8d4-9736ef16d450) is not**

Errorcode	Description
	accessible")
UNKNOWN_ERROR	**Generic failure**

Example

Command

MQTT method: publish
TOPIC: hobby/notification/cmd
DATA:

```
{
        "Method":"notifications.list"
}
```

Response

MQTT method: subscribe
TOPIC: hobby/notification/rsp
DATA:

```
{
        "Method": "notification.list",
        "Params": [{
                "Notifications": [{
                        "Status": "new",
                        "Type": "alarm",
                        "TimeOccurred": "20190315140930",
                        "Uuid": "a5f576c6-7f4a-4541-bc39-28f617cff435",
                        "Text": "Dimmer ON"
                }]
        }]
}
```

Error

MQTT method: subscribe
TOPIC: hobby/notification/err
DATA:

```
{
        "ErrMessage": "Method-field not found within json string ({\n\t\"Method\": "notifications.update\",\n\t\"Params\":
        \n\t\t\"Notifications\": [{\n\t\t\t\t\"Uuid\": \"a5f576c6-7f4a-4541-bc39-28f617cff435\",\n\t\t\t\t\"Status\":
        \"read\"\n\t\t\t}\n\t\t]\n\t]\n}\n)",
        "ErrCode": "INVALID_JSON_STRING",
        "Method": "unknown"
}
```

Update Notification

Command

Updates an existing notification

MQTT Topic format

hobby/notification/cmd

Application Data

Method: notifications.update

Parameters

Parameter	Description
Uuid	**The unique identifier of this notification**
Status	

Response

Returns the list of updated notifications as a result of the update notification command.

MQTT Topic format

hobby/notification/rsp

Application Data

Method: notifications.list

Parameters: list of updated notifications

Parameter	Description
Uuid	**The unique identifier of this notification**
TimeOccurred	**Date time stamp (<YYYYMMDDHHMMSS>;UTC) of the notification occurrence**
Type	**Alarm: alarm notification (as defined via the programming software)** **Notification: informative notification (as defined via the programming software)**
Status	**new: new notification** **read: notification is read**

Error

Published by the Niko Home Control platform whenever an error occurs for the given location command.

MQTT Topic format

hobby/notification/err

Application Data

Method: < originating command>

ErrCode:<error-tag, identifying the global error code>

ErrMessage:<descriptive message of the error>

Error codes:

Errorcode	Description
INVALID_JSON_STRING	**Method is not correctly formatted**
UNKNOWN_METHOD	**Method “unknown” not supported**
INTERNAL_ERROR	**Internal application error**
ACCESS_VIOLATION	**Unknown notification (ErrMessage":"Notification (21a967a1-676d-487b-b8d4-9736ef16d450) is not accessible")**
UNKNOWN_ERROR	**Generic failure**

Example

Command

MQTT method: publish
TOPIC: hobby/notification/cmd
DATA:

```
{
        "Method":"notifications.update",
        "Params": [{
        "Notifications": [{
                        "Uuid":"a5f576c6-7f4a-4541-bc39-28f617cff435",
                        "Status":"read"
                }]
        }]
}
```

Response

MQTT method: subscribe
TOPIC: hobby/notification/rsp
DATA:

```
{
        "Method": "notifications.update",
        "Params": [{
                        "Notifications": [{
                        "Status": "read",
                        "Type": "alarm",
                        "TimeOccurred": "20190315140930",
                        "Uuid": "a5f576c6-7f4a-4541-bc39-28f617cff435",
                        "Text": "Dimmer ON"
                }]
        }]
}
```

Error

MQTT method: subscribe

TOPIC: hobby/control/notification/err

DATA:


```
{
	"ErrMessage": "Method-field not found within json string ({\n\t\"Method\": "notifications.update\",\n\t\"Params\":
	\n\t\t\"Notifications\": [{\n\t\t\t\t\"Uuid\": \"a5f576c6-7f4a-4541-bc39-28f617cff435\",\n\t\t\t\t\"Status\":
	\"read\"\n\t\t\t}\n\t\t]\n\t]\n}\n)",
	"ErrCode": "INVALID_JSON_STRING",
	"Method": "unknown"
}
```


Notification raised event

Published by the Niko Home Control platform when a new notification is generated.

MQTT Topic format

hobby/notification/evt

Application Data

Method: notifications.raised

Parameters: list of all new notifications

Parameter	Description
Uuid	**The unique identifier of this notification**
TimeOccurred	**Date time stamp (<YYYYMMDDHHMMSS>;UTC) of the notification occurrence**
Type	**Alarm: alarm notification (as defined via the programming software)** **Notification: informative notification (as defined via the programming software)**
Status	**new: new notification**

Example

MQTT method: subscribe

TOPIC: hobby/notification/evt

DATA:


```
{
	"Method": " notifications.raised",
	"Params": [{
		"Notifications": [{
			"Status": "new",
			"Type": "alarm",
			"TimeOccurred": "20190315140930",
			"Uuid": "a5f576c6-7f4a-4541-bc39-28f617cff435",
			"Text": "Dimmer ON"
		},]
	}]
}
```

Measurement data

The measurement data can be retrieved via the REST API

Measurement data can be retrieved for device properties having the “Logging” feature enabled

Get latest measurement values for all channels of a given device

GET	/devices/{Uuid}

Parameters

Name	Description
Uuid *string (path)*	The logical device UUID
Latest *Boolean (query)*	Flag to indicate the requested result are the latest measurements of a channel

Responses

Code	Description	Example

200	OK	{
		“Uuid”: “string”,
		“Properties”: [{
		“Property”: “string”,
		“Unit”: “string”,
		“Values”: [{
		“DateTime”: “2025-03-20T09:21:51.5162”,
		“Value”: 0
		}]
		}]
		}

400	Bad Request	{
		“Message”: “string”,
		“MessageDetail”: “string”
		}

404	Page Not Found	

500	Internal server error	{
		“Message”: “string”,
		“MessageDetail”: “string”
		}

Get raw measurement values for a given device property

GET	/devices/{Uuid}/properties/{property}

Parameters

Name	Description
Uuid *string (path)*	The logical device UUID
Property *string (path)*	Property name for the measurement

IntervalStart ***string($string) (query)***	**Start date/time for the interval in local time (ISO-8601).** **This measurement is excluded from the list**
IntervalEnd ***string($string) (query)***	**End date/time for the interval in local time (ISO-8601).** **This measurement is included in the list**

Responses

Code	Description	Example
200	**OK**	**{** **“Uuid”: “string”,** **“MeasurementProperty”: “string”,** **“Unit”: “string”,** **“Values”: [{** **“DateTime”: “2025-03-20T09:21:51.5162”,** **“Value”: 0** **}]** **}**
400	**Bad Request**	**{** **“Message”: “string”,** **“MessageDetail”: “string”** **}**
404	**Page Not Found**	
500	**Internal server error**	**{** **“Message”: “string”,** **“MessageDetail”: “string”** **}**

Get aggregated measurement values for a given device property

GET	**/devices/{Uuid}/properties/{property}/{Interval}**

Parameters

Name	Description
Interval ***string (path)***	**The interval** **Available options: hour, day, month, year**
Uuid ***string (path)***	**The logical device UUID**
Property ***string (path)***	**Property name for the measurement**
IntervalStart ***String($string) (query)***	**Start date/time for the interval in local time (ISO-8601).** **This measurement is excluded from the list**
IntervalEnd ***String($string) (query)***	**End date/time for the interval in local time (ISO-8601).** **This measurement is included in the list**
Aggregation ***String (query)***	**The aggregation function that will be executed on the values** **Available options: sum, avg, min, max**

Responses

Code	Description	Example

200	**OK**	**{** **“Uuid”: “string”,** **“MeasurementProperty”: “string”,** **“Unit”: “string”,** **“Values”: [{** **“DateTime”: “2025-03-20T09:21:51.5162”,** **“Value”: 0** **}],** **“Aggregation”: “sum”,** **“Interval”: “hour”** **}**
400	**Bad Request**	**{** **“Message”: “string”,** **“MessageDetail”: “string”** **}**
404	**Page Not Found**	
500	**Internal server error**	**{** **“Message”: “string”,** **“MessageDetail”: “string”** **}**

Get aggregated measurement values for all properties of a given device

GET	**/devices/{Uuid}/total**

Parameters

Name	Description
Uuid ***string (path)***	**The logical device UUID**
IntervalStart ***String($string) (query)***	**Start date/time for the interval in local time (ISO-8601).** **This measurement is excluded from the list**
IntervalEnd ***string($string) (query)***	**End date/time for the interval in local time (ISO-8601).** **This measurement is included in the list**
Aggregation ***String (query)***	**The aggregation function that will be executed on the values** **Available options: sum, avg, min, max**

Responses

Code	Description	Example
200	**OK**	**{** **“Uuid”: “string”,** **“Properties”: [{** **“Property”: “string”,** **“DateTime”: “2025-03-20T09:21:51.5162”,** **“Value”: 0** **}]** **}**
400	**Bad Request**	**{** **“Message”: “string”,** **“MessageDetail”: “string”** **}**

404	**Page Not Found**	
500	**Internal server error**	**{** **“Message”: “string”,** **“MessageDetail”: “string”** **}**

Models

Raw Measurements

RawMeasurements
{
Uuid *string*
MeasurementProperty *string*
Unit *string*
Values [MeasurementValue {
DateTime *string ($date-time)*
Value *number ($double)*
}]
}

Latest Measurements

LatestMeasurements
{
Uuid *string*
Properties [LatestMeasurementProperty {
Property *string*
Unit *string*
Values [MeasurementValue {
DateTime *string ($date-time)*
Value *number ($double)*
}]
}]
}

LatestMeasurementProperty

LatestMeasurementProperty
{
Property *string*
Unit *string*
Values [MeasurementValue {
DateTime *string ($date-time)*
Value *number ($double)*
}]
}

TotalMeasurements

TotalMeasurements
{
Uuid *string*
Properties [TotalMeasurementProperty {
Property *string*
Unit *string*
DateTime *string ($date-time)*
Value *number ($double)*
}]
}

TotalMeasurementsProperty

TotalMeasurementProperty
{
Property *string*
Unit *string*
DateTime *string ($date-time)*
Value *number ($double)*
}

AggregatedMeasurements

AggregatedMeasurements
{
Uuid *string*
MeasurementProperty *string*
Unit *string*
Values [MeasurementValue {
DateTime *string ($date-time)*
Value *number ($double)*
}]
Aggregation *string ($string)*
Enum: [sum, avg, min, max]
Interval *string ($string)*
Enum: [hour, day, month, year]
}

MeasurementsValue

MeasurementsValue
{
DateTime *string ($date-time)*
Value *number ($double)*
}

Errorresult

ErrorResult
{
Message *string*
MessageDetail *string*
}

Limitations and restrictions

MQTT Latency

The communication flow is based upon asynchronous events and commands, introducing a latency between action and reaction. This table gives an indication of typical latency that can be expected.

Flow	Typical latency
Device control command message to “physical device” action execution	**< 200 ms**
“physical device” action to device status changed event message	**< 200 ms**
Location or device list request message and response message	**< 200 ms**

Annex A device objects

This is the list of all objects, currently available in the Niko Home Control platform.

The API will return only objects, which are available within each specific installation.

This list is not a limited list: new devices, traits, properties and property definitions can be added during the lifecycle of the Niko Home Control Platform.

Device model - NHC Dimmer Action

Represents the action for a dimmer

Type	**action**
Technology (aka Manufacturer)	**nikohomecontrol**
Model (aka HWModel)	**dimmer**
Identifier	**<NikoConfigGUID>**

Traits	Information

Parameter	Type	Default	Information
LocationId	**Text**	**""**	**Location GUID**
LocationName	**Text**	**""**	**Location Name**

LocationIcon	**Text**	**""**	**Location Icon GUID**
IconCode	**Text**	**""**	**Name of the icon to show in the APP**

Property	Type	Status	Control	Schedule	Logging	Information
Status	**Choice(On, Off)**	☑	☑	☐	☐	**Turns dimmer On or Off Follows "All On" action**
Brightness	**Range(0, 100, 1)**	☑	☑	☐	☐	**Brightness of dimmer in %. Note that 0 means "no visible light", but is not the same as OFF.**
Aligned	**Boolean**	☑	☐	☐	☐	**True when: all dimmers are on and have the same brightness all dimmers are off, regardless of the brightness**

Device model - NHC Fan Action

Represents the action for a Fan

Type	**action**
Technology (aka Manufacturer)	**nikohomecontrol**
Model (aka HWModel)	**fan**
fanIdentifier	**<NikoConfigGUID>**

Traits	Information

Parameter	Type	Default	Information
LocationId	Text	""	Location GUID
LocationName	Text	""	Location Name
LocationIcon	Text	""	Location Icon GUID
IconCode	Text	""	Name of the icon to show in the APP

Property	Type	Status	Control	Schedule	Logging	Information
FanSpeed	Choice(Low, Medium, High, Boost)	☑	☑	☐	☐	Fan speed selection

Device model - NHC Motor Action

Represents the action for motor controle

Type	action
Technology (aka Manufacturer)	nikohomecontrol
Model (aka HWModel)	rolldownshutter | sunblind | gate | venetianblind
Identifier	<NikoConfigGUID>

Traits	Information

Parameter	Type	Default	Information
LocationId	Text	""	Location GUID
LocationName	Text	""	Location Name
LocationIcon	Text	""	Location Icon GUID
IconCode	Text	""	Name of the icon to show in app

Property	Type	Status	Control	Schedule	Logging	Information
Action	Choice(Open, Close, Stop)	☐	☑	☐	☐	Fully open or close the NHC motor or stop a running motor
Position	Range(0, 100, 1)	☑	☑	☐	☐	100% == Open 0% == Closed
Aligned	Boolean	☑	☐	☐	☐	True if all motors have the same position
Moving	Boolean	☑	☐	☐	☐	Any motor running or not
LastDirection	Choice(Open, Close)	☑	☐	☐	☐	Last movement direction, only used to keep the direction for "one button motor"

Device model - NHC Relay Action

Represents the action to control a relay or circuit

Type	**action**
Technology (aka Manufacturer)	**nikohomecontrol**
Model (aka HWModel)	**light, socket, switched-fan, switched-generic**
Identifier	**<NikoConfigGUID>**

Traits	Information

Parameter	Type	Default	Information
LocationId	**Text**	**""**	**Location GUID**
LocationName	**Text**	**""**	**Location Name**
LocationIcon	**Text**	**""**	**Location Icon GUID**

Property	Type	Status	Control	Schedule	Logging	Information
Status	**Choice(On, Off)**	☑	☑	☐	☐	**Turn on/off the relays Status feedback: When "On": all connected outputs are "On" When "Off": at least one output is off**

Device model - NHC Reynaers Action

Represents the action for Reynaers motor control

Type	**action**

Technology (aka Manufacturer)	**nikohomecontrol**
Model (aka HWModel)	**reynaers**
Identifier	**<NikoConfigGUID>**

Traits	Information

Parameter	Type	Default	Information
LocationId	**Text**	**""**	**Location GUID**
LocationName	**Text**	**""**	**Location Name**
LocationIcon	**Text**	**""**	**Location Icon GUID**

Property	Type	Status	Control	Schedule	Logging	Information
Action	**Choice(Open, Close, Stop)**	☐	☑	☐	☐	**Open, close or stop a running Reynaers motor**
Status	**Choice(Moving, FixedClosed, FixedNotClosed)**	☑	☐	☐	☐	**Status feedback of the Reynaers motor**

Device model - NHC Velux Action

Represents the action for a Velux motor control

Type	**action**
Technology (aka Manufacturer)	**nikohomecontrol**
Model (aka HWModel)	**velux**
Identifier	**<NikoConfigGUID>**

Traits	Information

Parameter	Type	Default	Information
LocationId	**Text**	**""**	**Location GUID**
LocationName	**Text**	**""**	**Location Name**
LocationIcon	**Text**	**""**	**Location Icon GUID**

Property	Type	Status	Control	Schedule	Logging	Information
Action	**Choice(Open, Close, Stop)**	☐	☑	☐	☐	**Open, close or stop a running Velux motor**

Device model - NHC Access Control Action

Represents the action for the "external video unit touch buttons" and "external video unit touch buttons with ring and come-in"

Type	**action**

Technology (aka Manufacturer)	**nikohomecontrol**
Model (aka HWModel)	**accesscontrol**
Identifier	**<NikoConfigGUID>**

Traits	Information

Parameter	Type	Default	Information
LocationId	**Text**	**""**	**Location GUID**
LocationName	**Text**	**""**	**Location Name**
LocationIcon	**Text**	**""**	**Location Icon GUID**
Action	**Text**	**""**	**UUID of the extra action configured for this button E.g. A light or set of lights near the entrance**
Ringtone	**Choice("dunes","savanna","suburbia","rimbu","metropolis")**		**Ringtone**
DeclineCallAppliedOnAllDevices	**Boolean**		**Decline call applied on all devices**
ButtonId	**Text**	**""**	**ButtonID of the VDS button linked to this routine Format <mac-address>_[01-04]**

Property	Type	Status	Control	Schedule	Logging	Information
BasicState	**Choice(On, Intermediate,**	☑	☑	☐	☐	**Only available for ring-and-come-in routine. BasicState (used to enable / disable ring-and-come-in)**

	Off, Triggered)					**Control: use the value "Triggered"** **Status feedback: returns values "On", "Off"**
Doorlock	**Choice(Open, Closed)**	☑	☑	☐	☐	**Control doorlock via "Open" in order to open the doorlock.** **After the timeout (as configured in the routine), the doorlock will close again and the state will be updated to "Closed".**
CallPending	**Boolean**	☑	☐	☐	☐	**Call is pending**
CallAnswered	**Boolean**	☑	☐	☐	☐	**Call is picked up**

Device model - NHC BellButton Action

Represents the action for additional bell buttons for the access control functionality

Type	**action**
Technology (aka Manufacturer)	**nikohomecontrol**
Model (aka HWModel)	**bellbutton**
Identifier	**<NikoConfigGUID>**

Traits	Information

Parameter	Type	Default	Information
LocationId	Text	""	Location GUID
LocationName	Text	""	Location Name
LocationIcon	Text	""	Location Icon GUID
IconCode	Text	""	Name of the icon to show in the APP
Action	Text	""	UUID of the extra action that can be configured for this button E.g. A light or set of lights near the entrance
Ringtone	Choice("dunes","savanna","suburbia","rimbu","metropolis")		Ringtone
DeclineCallAppliedOnAllDevices	Boolean		Decline call applied on all devices

Property	Type	Status	Control	Schedule	Logging	Information
BasicState	Choice(On, Intermediate, Off, Triggered)	☑	☑	☐	☐	Control: use the value "Triggered" Status feedback: returns "On" when bell button is pressed returns "Off" when no call active
Doorlock	Choice(Open, Closed)	☑	☑	☐	☐	Control doorlock via "Open" in order to open the doorlock. After the timeout (as configured in the routine), the doorlock will close again and the state will be updated to "Closed".

Device model - NHC Garage Door Action

Represents the action for the garage door control

Type	**action**
Technology (aka Manufacturer)	**nikohomecontrol**
Model (aka HWModel)	**garagedoor**
Identifier	**<NikoConfigGUID>**

Traits	Information

Parameter	Type	Default	Information
LocationId	**Text**	**""**	**Location GUID**
LocationName	**Text**	**""**	**Location Name**
LocationIcon	**Text**	**""**	**Location Icon GUID**
IconCode	**Text**	**""**	**Name of the icon to show in the APP**

Property	Type	Status	Control	Schedule	Logging	Information
BasicState	**Choice(On, Intermediate, Off, Triggered)**	☑	☑	☐	☐	**Control: use the value "Triggered" Status feedback When "On": gate is opened When "Intermediate" : gate is moving (only when optional moving sensor is available)**

						When "Off": gate closed

Device model - NHC Basic Alarm Action

Represents the action for intruder alarm

Type	**action**
Technology (aka Manufacturer)	**nikohomecontrol**
Model (aka HWModel)	**alarms**
Identifier	**<NikoConfigGUID>**

Traits	Information

Parameter	Type	Default	Information
LocationId	**Text**	**""**	**Location GUID**
LocationName	**Text**	**""**	**Location Name**
LocationIcon	**Text**	**""**	**Location Icon GUID**
IconCode	**Text**	**""**	**Name of the icon to show in the APP**

Property	Type	Status	Control	Schedule	Logging	Model
BasicState	**Choice (On, Intermediate, Off, Triggered)**	☑	☑	☐	☐	**BasicState (used to arm/disarm the alarm) Control: use the value "Triggered" Status feedback: returns values "On", "Intermediate", "Off"**

Device model - NHC Panic Mode Action

Represents the action for the Panic Mode

Type	**action**
Technology (aka Manufacturer)	**nikohomecontrol**
Model (aka HWModel)	**alarms**
Identifier	**<NikoConfigGUID>**

Traits	Information

Parameter	Type	Default	Information
LocationId	**Text**	**""**	**Location GUID**
LocationName	**Text**	**""**	**Location Name**
LocationIcon	**Text**	**""**	**Location Icon GUID**
IconCode	**Text**	**""**	**Name of the icon to show in app**

Property	Type	Status	Control	Schedule	Logging	Information
BasicState	**Choice(On, Off, Triggered)**	☑	☑	☐	☐	**Control: use the value "Triggered" Status feedback: returns values "On", "Off"**

Device model - NHC Mood Action

Represents the action for a mood (scene)

Type	**action**
Technology (aka Manufacturer)	**nikohomecontrol**
Model (aka HWModel)	**comfort**
Identifier	**<NikoConfigGUID>**

Traits	Information

Parameter	Type	Default	Information
LocationId	**Text**	**""**	**Location GUID**
LocationName	**Text**	**""**	**Location Name**
LocationIcon	**Text**	**""**	**Location Icon GUID**

IconCode	**Text**	**""**	**Name of the icon to show in app**
MoodIcon	**Range(-1, 32, 1)**	**0**	**Index of the mood icon. If this mood action is not linked to a moodbutton, the value is -1.**

Property	Type	Status	Control	Schedule	Logging	Information
BasicState	**Choice(On, Off, Triggered)**	☑	☑	☐	☐	**Control: use the value "Triggered" Status feedback: returns values "On", "Off" according the state of all assigned players as configured for that action**
MoodActive	**Boolean**	☑	☐	☐	☐	**Status feedback for the Mood Action True: only upon activation of the action False: when one of the assigned participants in the action had a state change**
AllStarted	**Boolean**	☑	☐	☐	☐	**Starting from Release 2.18: Set to "True" when all outputs have reached their "Started" value**

Device model - NHC All Off Action

Represents the All-off action and All-off with walkway assistance

Type	**action**
Technology (aka Manufacturer)	**nikohomecontrol**
Model (aka HWModel)	**alloff**
Identifier	**<NikoConfigGUID>**

Traits	Information

Parameter	Type	Default	Information
LocationId	**Text**	**""**	**Location GUID**
LocationName	**Text**	**""**	**Location Name**
LocationIcon	**Text**	**""**	**Location Icon GUID**
IconCode	**Text**	**""**	**Name of the icon to show in the APP**

Property	Type	Status	Control	Schedule	Logging	Information
BasicState	**Choice(On, Off, Triggered)**	☑	☑	☐	☐	**BasicState (used to execute the action)** **Control: use the value "Triggered"** **Status feedback: returns values "On", "Off" according the state of**

						all assigned players as configured for that action
AllOffActive	**Boolean**	☑	☐	☐	☐	**AllOffActive (status feedback for the All Off Action)** **True: only upon activation of the action** **False: when one of the assigned participants in the action had a state change**
AllStarted	**Boolean**	☑	☐	☐	☐	**Starting from Release 2.18:** **Set to "True" when all outputs have reached their "Started" value**

Device model - NHC Free Start Stop Actions

Represents the NHC Free Start stop action

Type	**action**
Technology (aka Manufacturer)	**nikohomecontrol**
Model (aka HWModel)	**generic**
Identifier	**<NikoConfigGUID>**

Traits	Information

Parameter	Type	Default	Information
LocationId	**Text**	**""**	**Location GUID**

LocationName	**Text**	**""**	**Location Name**
LocationIcon	**Text**	**""**	**Location Icon GUID**
IconCode	**Text**	**""**	**Name of the icon to show in the APP**
StartText	**Text**	**"Activated" (translated)**	**Text shown when the routine is activated**
StopText	**Text**	**"Deactivated" (translated)**	**Text shown when the routine is deactivated**

Property	Type	Status	Control	Schedule	Logging	Information
BasicState	**Choice(On, Off, Triggered)**	☑	☑	☐	☐	**Control: use the value "Triggered" Status feedback: returns values "On", "Off" according the state of all assigned players as configured for that action**
StartActive	**Boolean**	☑	☐	☐	☐	**Status feedback for the Free Start Stop Action True: only upon activation of the action False: when one of the assigned participants in the action had a state change**
AllStarted	**Boolean**	☑	☐	☐	☐	**Starting from Release 2.18: Set to “True” when all outputs have reached their “Started” value**

Device model - NHC House Mode Action

Represents the action to activate/deactivate NHC house status actions

Type	**action**

Technology (aka Manufacturer)	**nikohomecontrol**
Model (aka HWModel)	**overallcomfort**
Identifier	**<NikoConfigGUID>**

Traits	Information

Parameter	Type	Default	Information
LocationId	**Text**	**""**	**Location GUID**
LocationName	**Text**	**""**	**Location Name**
LocationIcon	**Text**	**""**	**Location Icon GUID**
IconCode	**Text**	**""**	**Name of the icon to show in the APP**

Property	Type	Status	Control	Schedule	Logging	Information
BasicState	**Choice(On, Off, Triggered)**	☑	☑	☐	☐	**Control: use the value "Triggered" Status feedback: returns values "On", "Off" according the state of all assigned players as configured for that action**
StartActive	**Boolean**	☑	☐	☐	☐	**Status feedback for the House Mode Action True: only upon activation of the action False: when one of the assigned participants in the action had a state change**

AllStarted	**Boolean**	☑	☐	☐	☐	**Starting from Release 2.18:** **Set to “True” when all outputs have reached their “Started” value**

Device model - NHC PIR Action

Represents the action for Motion detection enable/disable

Type	**action**
Technology (aka Manufacturer)	**nikohomecontrol**
Model (aka HWModel)	**pir**
Identifier	**<NikoConfigGUID>**

Traits	Information

Parameter	Type	Default	Information
LocationId	**Text**	**""**	**Location GUID**
LocationName	**Text**	**""**	**Location Name**
LocationIcon	**Text**	**""**	**Location Icon GUID**
IconCode	**Text**	**""**	**Name of the icon to show in app**

Property	Type	Status	Control	Schedule	Logging	Information
BasicState	**Choice(On, Off, Triggered)**	☑	☑	☐	☐	**Used to enable/disable the motion detection control** **Control: use the value "Triggered"** **Status feedback:** **When "On": motion detection is enabled** **When "Off": motion detection is disabled**

Device model - NHC Presence Simulation Action

Represents the action to enable/disable the presence simulation

Type	**action**
Technology (aka Manufacturer)	**nikohomecontrol**
Model (aka HWModel)	**simulation**
Identifier	**<NikoConfigGUID>**

Traits	Information

Parameter	Type	Default	Information
LocationId	**Text**	**""**	**Location GUID**
LocationName	**Text**	**""**	**Location Name**

LocationIcon	**Text**	**""**	**Location Icon GUID**
IconCode	**Text**	**""**	**Name of the icon to show in app**

Property	Type	Status	Control	Schedule	Logging	Information
BasicState	**Choice(On, Intermediate, Off, Triggered)**	☑	☑	☐	☐	**BasicState (used to enable / disable presence simulation) Control: use the value "Triggered" Status feedback: returns values "On", "Intermediate", "Off"**

Device model – NHC Player status action

Virtual device that shows the status for another player, used when direct control of the status feedback led on a button panel

Type	**Action**
Technology (aka Manufacturer)	**nikohomecontrol**
Model (aka HWModel)	**playerstatus**
Identifier	**<NikoConfigGUID>**

Traits	Information

Parameter	Type	Default	Information
LocationId	**Text**	**""**	**Location GUID**

LocationName	**Text**	**""**	**Location Name**
LocationIcon	**Text**	**""**	**Location Icon GUID**
IconCode	**Text**	**""**	**Name of the icon to show in app**

Property	Type	Status	Control	Schedule	Logging	Information
BasicState	**Choice(on, Off)**	☑	☐	☐	☐	**Follows On/Off state of the player**
FeedbackMessage	**Text**	☑	☐	☐	☐	**State description**

Device model - NHC Conditional action

Represents the conditional action

Type	**action**
Technology (aka Manufacturer)	**nikohomecontrol**
Model (aka HWModel)	**condition**
Identifier	**<NikoConfigGUID>**

Traits	Information

Parameter	Type	Default	Information
LocationId	Text	""	Location GUID
LocationName	Text	""	Location Name
LocationIcon	Text	""	Location Icon GUID

Property	Type	Status	Control	Schedule	Logging	Information
BasicState	Choice(On, Off, Triggered)	☑	☑	☐	☐	Control: use the value "Triggered" Status feedback: returns value "On" when the evaluation is in the IF state, returns value "Off" when he evaluation is in the ELSE state

Device model - NHC PeakMode action

Represents the peak mode routine

Type	action
Technology (aka Manufacturer)	nikohomecontrol
Model (aka HWModel)	peakmode
Identifier	<NikoConfigGUID>

Traits	Information

Parameter	Type	Default	Information
LocationId	Text	""	Location GUID
LocationName	Text	""	Location Name
LocationIcon	Text	""	Location Icon GUID
IconCode	Text	“”	Icon to use for this location in the APP

Property	Type	Status	Control	Schedule	Logging	Information
BasicState	Choice(On, Off, Triggered)	☑	☑	☐	☐	Control: use the value "Triggered" Status feedback: returns values "On", "Off" according the state of the action (active/inactive)

Device model - NHC SolarMode action

Represents the solar mode routine

Type	action
Technology (aka Manufacturer)	nikohomecontrol
Model (aka HWModel)	solarmode
Identifier	<NikoConfigGUID>

Traits	Information

Parameter	Type	Default	Information
LocationId	Text	""	Location GUID
LocationName	Text	""	Location Name
LocationIcon	Text	""	Location Icon GUID
IconCode	Text	“”	Icon to use for this location in the APP

Property	Type	Status	Control	Schedule	Logging	Information
BasicState	Choice(On, Off, Triggered)	☑	☑	☐	☐	Control: use the value "Triggered" Status feedback: returns values "On", "Off" according the state of the action (active/inactive)

Device model - NHC Timeschedule action??

Represents the virtual device that can be used to retrieve the time schedule state

Type	action
Technology (aka Manufacturer)	nikohomecontrol
Model (aka HWModel)	timeschedule

Identifier	<NikoConfigGUID>

Traits	Information

Parameter	Type	Default	Information
LocationId	Text	""	Location GUID
LocationName	Text	""	Location Name
LocationIcon	Text	""	Location Icon GUID
IconCode	Text	“”	Icon to use for this location in the APP

Property	Type	Status	Control	Schedule	Logging	Information
Active	Boolean	☑	☐	☐	☐	Time schedule is active

Device model - NHC HVAC Thermostat

Represents the action for an HVAC thermostat

Type	hvac

Technology (aka Manufacturer)	**nikohomecontrol**
Model (aka HWModel)	**hvacthermostat**
Identifier	**<NikoConfigGUID>**

Traits	Information
MacAddress	**The NHC bus mac address of this device.**

Parameter	Type	Default	Information
LocationId	**Text**	**""**	**Location GUID**
LocationName	**Text**	**""**	**Location Name**
LocationIcon	**Text**	**""**	**Location Icon GUID**

Property	Type	Status	Control	Schedule	Logging	Information
Program	**Choice(Day, Night, Custom, Prog1, Prog2)**	☑	☑	☐	☐	**Temperature control program**
AmbientTemperature	**Range(0, 50, 0.1)**	☑	☐	☐	☐	**Currently measured temperature**
SetpointTemperature	**Range(5, 30, 1)**	☑	☐	☐	☐	**Read-only. Desired setpoint in the current program**
OverruleActive	**Boolean**	☑	☑	☐	☐	**Marks if the overrule-time will be used instead of setpoint as defined in program mode**
OverruleSetpoint	**Range(5, 30, 1)**	☑	☑	☐	☐	**Current overruled setpoint temperature**
OverruleTime	**Range(1, 1439, 1)**	☑	☑	☐	☐	**Duration of the overrule period in minutes (max 23h**

						59min)
EcoSave	**Boolean**	☑	☑	☐	☐	**Puts the thermostat in ecosave mode (energy consumption reduction). This keeps the 'Program' going and influences the setpoint temperature. SetpointTemperature + 3°C when in cooling SetpointTemperature - 3°C when in heating**
ProtectMode	**Boolean**	☑	☑	☐	☐	**System off mode with temperature protection. Heating is activated when temperature is too low Cooling is activated when temperature is too high**
OperationMode	**Choice(Heating, Cooling)**	☑	☑	☐	☐	**Indicates wheter the thermostat is in heating or cooling**
FanSpeed	**Choice(Low, Medium, High)**	☑	☑	☐	☐	**Fan speed selection**
ThermostatOn	**Choice(On, Off)**	☑	☑	☐	☐	**Indicates whether the thermostat is turned on or off**
HvacOn	**Choice(On, Off)**	☑	☐	☐	☐	**Indicates that the HVAC indoor unit is online.**

Device model - NHC Thermostat

Represents the action for the thermostat

Type	**hvac**
Technology (aka Manufacturer)	**nikohomecontrol**
Model (aka HWModel)	**thermostat | touchswitch**
Identifier	**<NikoConfigGUID>**

Traits	Information
MacAddress	The NHC bus mac address of this device. Empty for model touchswitch

Parameter	Type	Default	Information
LocationId	Text	""	Location GUID
LocationName	Text	""	Location Name
LocationIcon	Text	""	Location Icon GUID

Property	Type	Status	Control	Schedule	Logging	Information
Program	Choice(Day, Night, Eco, Off, Prog1, Prog2, Prog3)	☑	☑	☐	☐	Temperature control program
AmbientTemperature	Range(-5, 45, 0.5)	☑	☐	☐	☐	Currently measured temperature
SetpointTemperature	Range(5, 30, 0.5)	☑	☐	☐	☐	Read-only Desired setpoint in the current program
OverruleActive	Boolean	☑	☑	☐	☐	Marks if the overrule-time will be used instead of setpoint as defined in program mode
OverruleSetpoint	Range(5, 30, 0.5)	☑	☑	☐	☐	Current overruled setpoint temperature
OverruleTime	Range(1, 1439, 1)	☑	☑	☐	☐	Duration of the overrule period in minutes (max 23h 59min)
EcoSave	Boolean	☑	☑	☐	☐	Puts the thermostat in ecosave mode (energy consumption reduction). This keeps the 'Program' going and influences the setpoint temperature. SetpointTemperature + 3°C when in cooling

						SetpointTemperature - 3°C when in heating
Demand	**Choice(Heating, Cooling, None)**	☑	☐	☐	☐	**Read-only, indicates whether thermostat is actively requesting heating, cooling or nothing towards the heating unit**

Device model - NHC Touch Switch Thermostat

Represents the Digital Black device, acting as a thermostat

Type	**thermostat**
Technology (aka Manufacturer)	**touchswitch**
Model (aka HWModel)	**thermostat**
Identifier	**<NikoConfigGUID>**

Traits	Information
MacAddress	**The WiFi mac address of this device.**

Parameter	Type	Default	Information
LocationId	**Text**	**""**	**Location GUID**
LocationName	**Text**	**""**	**Location Name**
LocationIcon	**Text**	**""**	**Location Icon GUID**

Property	Type	Status	Control	Schedule	Logging	Information
Program	**Choice(Day, Night, Eco, Cool, Off, Prog1, Prog2, Prog3)**	☑	☑	☐	☐	**Temperature control program**
AmbientTemperature	**Range(-5, 45, 0.5)**	☑	☐	☐	☐	**Currently measured temperature**
SetpointTemperature	**Range(5, 30, 0.5)**	☑	☐	☐	☐	**Read-only** **Desired setpoint in the current program**
OverruleActive	**Boolean**	☑	☑	☐	☐	**Marks if the overrule-time will be used instead of setpoint as defined in program mode**
OverruleSetpoint	**Range(5, 30, 0.5)**	☑	☑	☐	☐	**Current overruled setpoint temperature**
OverruleTime	**Range(1, 1439, 1)**	☑	☑	☐	☐	**Duration of the overrule period in minutes (max 23h 59min)**
EcoSave	**Boolean**	☑	☑	☐	☐	**Puts the thermostat in ecosave mode (energy consumption reduction).** **This keeps the 'Program' going but limits the temperature range to the value configured.**
Demand	**Choice(Heating, Cooling, None)**	☑	☐	☐	☐	**Read-only, indicates whether thermostat is actively requesting heating, cooling or nothing towards the heating unit**

Device model – NHC Thermo switch

Integrated temperature sensor information in the button panels with LED Feedback

Type	**multisensor**
Technology (aka Manufacturer)	**nikohomecontrol**
Model (aka HWModel)	**thermoswitchx1, thermoswitchx1feedback, thermoswitchx2feedback, thermoswitchx4feedback, thermoswitchx6feedback, thermoventilationcontrollerfeedback**
Identifier	**<NikoConfigGUID>**

Traits	Information
MacAddress	**The NHC bus mac address of this multisensor.**

Parameter	Type	Default	Information
LocationId	**Text**	**""**	**Location GUID**
LocationName	**Text**	**""**	**Location Name**
LocationIcon	**Text**	**""**	**Location Icon GUID**
ButtonModeXX	**Choice(ShortPress, LongPress, PressRelease)**	**"ShortPress"**	**Operation time: 'press briefly', 'press and hold' or 'push-button mode'**
LongPressTimeXX	**Range (min = 100, max = 60000, step = 100)**	**1000**	**Long press time in ms when in 'LongPress' mode.**
HeatIndexReporting	**Choice(Enabled**	**"Disabled"**	

	Disabled)		
AmbientTemperatureReporting	**Choice(Enabled Disabled)**	**"Enabled"**	
HumidityReporting	**Choice (Enabled Disabled)**	**"Disabled"**	
TemperatureCalibrationOffset	**Range (min = -6.0, max = 6.0, step = 0.5)**		

Property	Type	Status	Control	Schedule	Logging	Information
HeatIndex	**Range (13, 45, 1)**	☑	☐	☐	☐	**Units: °C**
AmbientTemperature	**Range (-10, 45, 0.1)**	☑	☐	☐	☐	**Units: °C**
Humidity	**Range (0, 100, 0.1)**	☑	☐	☐	☐	**Units: %**

Device model - NHC Virtual Thermostat

Represents the action for the virtual thermostat (in combination with a seperate temperatue sensor)

Type	**hvac**
Technology (aka Manufacturer)	**nikohomecontrol**
Model (aka HWModel)	**virtual**
Identifier	**<NikoConfigGUID>**

Traits	Information

Parameter	Type	Default	Information
LocationId	Text	""	Location GUID
LocationName	Text	""	Location Name
LocationIcon	Text	""	Location Icon GUID

Property	Type	Status	Control	Schedule	Logging	Information
Program	Choice(Day, Night, Eco, Off, Prog1, Prog2, Prog3)	☑	☑	☐	☐	Temperature control program.
AmbientTemperature	Range(-5, 45, 0.5)	☑	☐	☐	☐	Currently measured temperature
SetpointTemperature	Range(5, 30, 0.5)	☑	☐	☐	☐	Read-only. Desired setpoint in the current program
OverruleActive	Boolean	☑	☑	☐	☐	Marks if the overrule-time will be used instead of setpoint as defined in program mode
OverruleSetpoint	Range(5, 30, 0.5)	☑	☑	☐	☐	Current overruled setpoint temperature
OverruleTime	Range(1, 1439, 1)	☑	☑	☐	☐	Duration of the overrule period in minutes (max 23h 59min)
EcoSave	Boolean	☑	☑	☐	☐	Puts the thermostat in ecosave mode (energy consumption reduction). This keeps the 'Program' going and influences the setpoint temperature. SetpointTemperature + 3°C when in cooling SetpointTemperature - 3°C when in heating

Demand	**Choice(Heating, Cooling, None)**	☑	☐	☐	☐	**Read-only, indicates whether thermostat is actively requesting heating, cooling or nothing towards the heating unit**

Device model – NHC Virtual flag

Represents the virtual device flag

Type	**action**
Technology (aka Manufacturer)	**nikohomecontrol**
Model (aka HWModel)	**flag**
Identifier	**<NikoConfigGUID>**

Traits	Information

Parameter	Type	Default	Information
LocationId	**Text**	**""**	**Location GUID**
LocationName	**Text**	**""**	**Location Name**

Property	Type	Status	Control	Schedule	Logging	Information
Status	**Boolean**	☑	☑	☐	☐	**True is on** **False is off**

Device model - NHC Battery Metering Clamp

Represents the electricity metering module

Type	**centralmeter**
Technology (aka Manufacturer)	**nikohomecontrol**
Model (aka HWModel)	**battery-clamp**
Identifier	**<NikoConfigGUID>**

Traits	Information
MacAddress	**The NHC bus mac address of this device.**
Channel	**The channel on the physical NHC module this meter is connected to.**
MeterType	**1-Phase/3-Phase**

Parameter	Type	Default	Information
ClampType	**Choice(63A, 120A)**	**63A**	**Only for electricity-clamp**
ShortName	**Text**	**""**	**Name on eco display**
Inverted	**Boolean**	**False**	**MeterType = 1-Phase**
Inverted1	**Boolean**	**False**	**Phase 1 inverted (MeterType = 3-Phase)**
Inverted2	**Boolean**	**False**	**Phase 2 inverted (MeterType = 3-Phase)**

Inverted3	**Boolean**	**False**	**Phase 3 inverted (MeterType = 3-Phase)**

Property	Type	Status	Control	Schedule	Logging	Information
ElectricalEnergyCharged	**Range(-5461, 5461, 0.001)**	☐	☐	☐	☑	**Unit: Wh**
ElectricalEnergyDischarged	**Range(-5461, 5461, 0.001)**	☐	☐	☐	☑	**Unit: Wh**
ElectricalPower	**Range(-201326, 201326, 1)**	☑	☐	☐	☐	**For all phases Unit: W Positive = power consumed, Negative = power produced This property should be used for live energy mode.**
ElectricalPower1	**Range(-201326, 201326, 1)**	☑	☐	☐	☐	**For phase 1 Unit: W Positive = power consumed, Negative = power produced This property should be used for live energy mode.**
ElectricalPower2	**Range(-201326, 201326, 1)**	☑	☐	☐	☐	**For phase 2 Unit: W Positive = power consumed, Negative = power produced This property should be used for live energy mode.**
ElectricalPower3	**Range(-201326, 201326, 1)**	☑	☐	☐	☐	**For phase 3 Unit: W Positive = power consumed, Negative = power produced This property should be used for live energy mode.**
ReportInstantUsage	**Boolean**	☑	☑	☐	☐	**If true, the ElectricalPower will receive status updates every 2s. When enabled, it will automatically be disabled after 30s.**
ElectricalEnergy	**Range(-5461, 5461, 0.001)**	☐	☐	☐	☑	**Not available**

Device model - ZigBee Battery Metering Clamp

Represents a wireless electricity metering device for battery equipment

Type	**centralmeter**
Technology (aka Manufacturer)	**zigbee**
Model (aka HWModel)	**battery-clamp**
Identifier	**<NikoConfigGUID>**

Traits	Information
MacAddress	**The Zigbee mac address of this device**
Channel	**The channel on the physical module this meter is connected to**
Metertype	**1-Phase/3-Phase**

Parameter	Type	Default	Information
ClampType	**Choice(80A)**	**80A**	**Only 80A supported for now**
Inverted	**Boolean**	**False**	**MeterType = 1-Phase**
Inverted1	**Boolean**	**False**	**Phase 1 inverted (MeterType = 3-Phase)**
Inverted2	**Boolean**	**False**	**Phase 2 inverted (MeterType = 3-Phase)**
Inverted3	**Boolean**	**False**	**Phase 3 inverted (MeterType = 3-Phase)**

Property	Type	Status	Control	Schedule	Logging	Information

ElectricalEnergyCharged	**Range(-5461, 5461, 0.001)**	☐	☐	☐	☑	**Unit: Wh**
ElectricalEnergyDischarged	**Range(-5461, 5461, 0.001)**	☐	☐	☐	☑	**Unit: Wh**
ElectricalPower	**Range(-201326, 201326, 1)**	☑	☐	☐	☐	**For all phases Unit: W Positive = power consumed, Negative = power produced This property should be used for live energy mode.**
ElectricalPower1	**Range(-201326, 201326, 1)**	☑	☐	☐	☐	**For phase 1 Unit: W Positive = power consumed, Negative = power produced This property should be used for live energy mode.**
ElectricalPower2	**Range(-201326, 201326, 1)**	☑	☐	☐	☐	**For phase 2 Unit: W Positive = power consumed, Negative = power produced This property should be used for live energy mode.**
ElectricalPower3	**Range(-201326, 201326, 1)**	☑	☐	☐	☐	**For phase 3 Unit: W Positive = power consumed, Negative = power produced This property should be used for live energy mode.**
ReportInstantUsage	**Boolean**	☑	☑	☐	☐	**If true, the Electrical Power will receive status updates every 5s. When enabled, it will automatically be disabled after 30s.**

Device model – NHC ZigBee Electricity Metering module (with clamp)

Represents a wireless electricity metering device

Type	**centralmeter**
Technology (aka Manufacturer)	**zigbee**
Model (aka HWModel)	**Electricity-clamp**

Identifier	<NikoConfigGUID>

Traits	Information
MacAddress	The Zigbee mac address of this device
Channel	The channel on the physical module this meter is connected to
Metertype	1-Phase/3-Phase

Parameter	Type	Default	Information
ClampType	Choice(80A)	80A	Only 80A supported for now
Flow	Choice(Producer,Consumer)	Consumer	
Segment	Choice(Central,Subsegment)	Central	
InverterType	Choice (Production, Hybrid, Battery)	Production	
Inverted	Boolean	False	MeterType = 1-Phase
Inverted1	Boolean	False	Phase 1 inverted (MeterType = 3-Phase)
Inverted2	Boolean	False	Phase 2 inverted (MeterType = 3-Phase)
Inverted3	Boolean	False	Phase 3 inverted (MeterType = 3-Phase)

Property	Type	Status	Control	Schedule	Logging	Information
ElectricalEnergy	Range(-5461, 5461, 0.001)	☐	☐	☐	☑	Unit: Wh Positive = energy consumed, Negative = energy produced

ElectricalPower	**Range(-201326, 201326, 1)**	☑	☐	☐	☐	**For all phases Unit: W Positive = power consumed, Negative = power produced This property should be used for live energy mode.**
ElectricalPower1	**Range(-201326, 201326, 1)**	☑	☐	☐	☐	**For phase 1 Unit: W Positive = power consumed, Negative = power produced This property should be used for live energy mode.**
ElectricalPower2	**Range(-201326, 201326, 1)**	☑	☐	☐	☐	**For phase 2 Unit: W Positive = power consumed, Negative = power produced This property should be used for live energy mode.**
ElectricalPower3	**Range(-201326, 201326, 1)**	☑	☐	☐	☐	**For phase 3 Unit: W Positive = power consumed, Negative = power produced This property should be used for live energy mode.**
ReportInstantUsage	**Boolean**	☑	☑	☐	☐	**If true, the Electrical Power will receive status updates every 5s. When enabled, it will automatically be disabled after 30s.**

Device model – NHC Electricity Metering module (with clamp)

Represents the electricity metering module

Type	**centralmeter**
Technology (aka Manufacturer)	**nikohomecontrol**
Model (aka HWModel)	**Electricity-clamp**
Identifier	**<NikoConfigGUID>**

Traits	Information
MacAddress	The NHC bus mac address of this device.
Channel	The channel on the physical NHC module this meter is connected to.
MeterType	1-Phase/3-Phase

Parameter	Type	Default	Information
LocationId	Text	""	Location GUID
LocationName	Text	""	Location Name
LocationIcon	Text	""	Location Icon GUID
Flow	Choice(Producer,Consumer)	Consumer	
Segment	Choice(Central,Subsegment)	Central	
ClampType	Choice(63A, 120A)	63A	Only for electricity-clamp
ShortName	Text	""	Name on eco display
InverterType	Choice (Production, Hybrid, Battery)	Production	
Inverted	Boolean	False	MeterType = 1-Phase
Inverted1	Boolean	False	Phase 1 inverted (MeterType = 3-Phase)
Inverted2	Boolean	False	Phase 2 inverted (MeterType = 3-Phase)
Inverted3	Boolean	False	Phase 3 inverted (MeterType = 3-Phase)

Property	Type	Status	Control	Schedule	Logging	Information

ElectricalEnergy	**Range(-5461, 5461, 0.001)**	☐	☐	☐	☑	**Unit: Wh** **Positive = energy consumed, Negative = energy produced**
ElectricalPower	**Range(-201326, 201326, 1)**	☑	☐	☐	☐	**For all phases** **Unit: W** **Positive = power consumed, Negative = power produced** **This property should be used for live energy mode.**
ElectricalPower1	**Range(-201326, 201326, 1)**	☑	☐	☐	☐	**For phase 1** **Unit: W** **Positive = power consumed, Negative = power produced** **This property should be used for live energy mode.**
ElectricalPower2	**Range(-201326, 201326, 1)**	☑	☐	☐	☐	**For phase 2** **Unit: W** **Positive = power consumed, Negative = power produced** **This property should be used for live energy mode.**
ElectricalPower3	**Range(-201326, 201326, 1)**	☑	☐	☐	☐	**For phase 3** **Unit: W** **Positive = power consumed, Negative = power produced** **This property should be used for live energy mode.**
ReportInstantUsage	**Boolean**	☑	☑	☐	☐	**If true, the ElectricalPower will receive status updates every 2s.** **When enabled, it will automatically be disabled after 30s.**
ElectricalEnergy	**Range(-5461, 5461, 0.001)**	☐	☐	☐	☑	**Not available**

Device model – NHC Metering module (pulse meter)

Represents the electricity metering module

Type	**centralmeter**

Technology (aka Manufacturer)	**nikohomecontrol**
Model (aka HWModel)	**electricity-pulse/gas/water**
Identifier	**<NikoConfigGUID>**

Traits	Information
MacAddress	**The NHC bus mac address of this device.**
Channel	**The channel on the physical NHC module this meter is connected to.**

Parameter	Type	Default	Information
Flow	**Choice(Producer,Consumer)**	**Consumer**	
Segment	**Choice(Central,Subsegment)**	**Central**	
PulsesPerUnit	**Range(1, 10000, 1)**	**100**	**Pulse counters (electricity-pulse/gas/water) Unit: kWh for electricity m3 for Gas/Water**
ShortName	**Text**	**""**	**Name on eco display**

Property	Type	Status	Control	Schedule	Logging	Information
ElectricalEnergy	**Range(-5461, 5461, 0.001)**	☐	☐	☐	☑	**Unit: Wh Positive = energy consumed, Negative = energy produced**
Gasvolume	**Range(0, 3.2512, 0.0001)**	☐	☐	☐	☑	**Unit: m^3**
WaterVolume	**Range(0, 3.2512, 0.0001)**	☐	☐	☐	☑	**Unit: m^3**

Device model – NHC Zigbee Smart plug

Represents the connected socket devices

Type	**smartplug**
Technology (aka Manufacturer)	**zigbee**
Model (aka HWModel)	**naso**
Identifier	**<NikoConfigGUID>**

Traits	Information
MacAddress	**The Zigbee mac address of this device**

Parameter	Type	Default	Information
LocationId	**Text**	**""**	**Location GUID**
LocationName	**Text**	**""**	**Location Name**
LocationIcon	**Text**	**""**	**Location Icon GUID**
ShortName	**Text**	**""**	**Name on eco display (when used in bus wiring installations)**
FeedbackEnabled	**Boolean**	**True**	**If true, the feedback led will show the relay status. Otherwise, the feedback led is off**
MeasuringOnly	**Boolean**	**False**	**If true, the relay will always be on**
SwitchingOnly	**Boolean**	**True**	**If true, the device will only switch (no measurements)**

ElectricalPowerThreshold1	**Range(0, 201326, 1)**	**0**	**Unit: W** **Note: 0W ~ unused**
ElectricalPowerThreshold2	**Range(0, 201326, 1)**	**0**	**Unit: W** **Note: 0W ~ unused**
ElectricalPowerThreshold3	**Range(0, 201326, 1)**	**0**	**Unit: W** **Note: 0W ~ unused**
GroupId	**Range (0x0001, 0x0FFF, 1)**	**0x0FFF**	**Model 'nasogroup' only**

Property	Type	Status	Control	Schedule	Logging	Information
ElectricalPower	**Range(-201326, 201326, 1)**	☑	☐	☐	☐	**Unit: W** **Positive = power consumed, Negative = power produced** **This property should be used for live energy mode.**
ReportInstantUsage	**Boolean**	☑	☑	☐	☐	**If true, the ElectricalPower will receive status updates every 2s.** **When enabled, it will automatically be disabled after 30s.**
Status	**Choice(On, Off)**	☑	☑	☐	☐	**Turn on/off the Smart plug** **Status feedback:** **When "On": outputs is "On"** **When "Off": output is off**
ElectricalEnergy	**Range(-5461, 5461, 0.001)**	☐	☐	☐	☑	**Energy consumed** **Unit: Wh**

Device model – Generic Zigbee Smart plug

Represents the connected smart plugs

Type	**smartplug**

Technology (aka Manufacturer)	**zigbee**
Model (aka HWModel)	**generic**
Identifier	**<NikoConfigGUID>**

Traits	Information
MacAddress	**The Zigbee mac address of this device**

Parameter	Type	Default	Information
LocationId	**Text**	**""**	**Location GUID**
LocationName	**Text**	**""**	**Location Name**
LocationIcon	**Text**	**""**	**Location Icon GUID**
ShortName	**Text**	**""**	**Name on eco display (when used in bus wiring installations)**

Property	Type	Status	Control	Schedule	Logging	Information
ElectricalPower	**Range(-201326, 201326, 1)**	☑	☐	☐	☐	**Unit: W** **Positive = power consumed, Negative = power produced** **This property should be used for live energy mode.**
Status	**Choice(On, Off)**	☑	☑	☐	☐	**Turn on/off the Smart plug** **Status feedback:** **When "On": outputs is "On"** **When "Off": output is off**
ReportInstantUsage	**Boolean**	☑	☑	☐	☐	**If true, the ElectricalPower will receive status updates every 2s.** **When enabled, it will automatically be disabled after 30s.**

ElectricalEnergy	**Range(-5461, 5461, 0.001)**	☐	☐	☐	☑	**Energy consumed** **Unit: Wh**

Device model – Energy Home

Represents the electricity Home functionality

Type	**energyhome**
Technology (aka Manufacturer)	**nikohomecontrol**
Model (aka HWModel)	**generic**
Identifier	**<NikoUUID>**

Traits	Information

Parameter	Type	Default	Information
PeakMode	**Choice(Direct, Predict)**	**Direct**	**In programming software set via the Peak Mode routine**
PeakAggregation	**Choice(Maximum, Mean)**	**Maximum**	**In programming software set via the Peak Mode routine**
PeakPercentile	**Range(0, 100, 1)**	**90**	**In programming software set via the Peak Mode routine**
PeakEstimations	**Range(1, 100, 1)**	**20**	**In programming software set via the Peak Mode routine**
PeakModeOptimizedPrediction	**Boolean**	**False**	**In programming software set via the Peak Mode routine**

Property	Type	Status	Control	Schedule	Logging	Information
ElectricalPowerToGrid	**Range(0, 999999999, 0.001)**	☑	☐	☐	☐	**Unit: W Sum ElectricalPowerProduction for all central meters.**
ElectricalPowerFromGrid	**Range(0, 999999999, 0.001)**	☑	☐	☐	☐	**Unit: W Sum ElectricalPowerConsumption for all central meters.**
ReportInstantUsage	**Boolean**	☑	☑	☐	☐	**If true, the ElectricalPower will receive status updates every 2s. When enabled, it will automatically be disabled after 30s.**
ElectricalPowerProductionThresholdExceeded	**Boolean**	☑	☐	☐	☐	**True when the central meter's ElectricalPowerProduction is greater than the threshold of 300W (+ 5W hysteresis), false otherwise**
ElectricalEnergyToGrid	**Range(0, 999999999, 0.001)**	☐	☐	☐	☑	**Energy injected in the grid Unit Wh**
ElectricalEnergyFromGrid	**Range(0, 999999999, 0.001)**	☐	☐	☐	☑	**Energy consumed from the grid Unit Wh**
ElectricalEnergyProduction	**Range(0, 999999999, 0.001)**	☐	☐	☐	☑	**Energy produced in the installation Unit Wh**
ElectricalEnergySelfConsumption	**Range(0, 999999999, 0.001)**	☐	☐	☐	☑	**Energy consumed in he home ElectricalEnergyProduction - ElectricalEnergyToGrid Unit Wh**
ElectricalEnergyConsumption	**Range(0, 999999999, 0.001)**	☐	☐	☐	☑	**ElectricalEnergySelfConsumption + ElectricalEnergyFromGrid Unit Wh**

ElectricalPeakPowerToGrid	**Range(0, 999999999, 0.001)**	☐	☐	☐	☑	**Unit W**
ElectricalPeakPowerFromGrid	**Range(0, 999999999, 0.001)**	☐	☐	☐	☑	**Unit W**
ElectricalMonthlyPeakPowerFromGrid	**Range(0, 999999999, 0.001)**	☐	☐	☐	☑	**Monthly peak power from grid Unit W**
WaterVolume	**Range(0.000, 999999.999, 0.0001)**	☐	☐	☐	☑	**Unit m^3**
GasVolume	**Range(0.000, 999999.999, 0.0001)**	☐	☐	☐	☑	**Unit m^3**
ElectricalEnergyToGridCost	**Range(-100, 100, 0.00001)**	☐	☐	☐	☑	**Energy cost injected in the grid Unit <currency>**
ElectricalEnergyFromGridCost	**Range(-100, 100, 0.00001)**	☐	☐	☐	☑	**Energy cost consumed from the grid Unit<currency>**
WaterCost	**Range(0, 100, 0.000001)**	☐	☐	☐	☑	**Water cost Unit <currency>**
GasCost	**Range(0, 100, 0.000001)**	☐	☐	☐	☑	**Gas cost Unit <currency>**

Device model – NHC Outdoor Video Door Station

Represents the outdoor video station

Type	**videodoorstation**
Technology (aka Manufacturer)	**nikohomecontrol**
Model (aka HWModel)	**Robinsip**
Identifier	**<NikoConfigGUID>**

Traits	Information
MacAddress	The Ethernet MAC address of the video door station
NumberOfButtons	1, 2 or 4

Parameter	Type	Default	Information
LocationId	Text	""	Location GUID
LocationName	Text	""	Location Name
LocationIcon	Text	""	Location Icon GUID
ButtonName[01-04]			User-friendly name of this button (1, 2 or 4 buttons)

Property	Type	Status	Control	Schedule	Logging	Information
CallStatus[01-04]	Choice (Idle, Ringing, Active)	☑	☑	☐	☐	Call status for this VDS bell button (1, 2 or 4 properties depending on the number of buttons).
Status	Choice (Online, Offline)	☑	☐	☐	☐	Connection status for the VDS device. Used by e.g. the app to display an error message when a configured VDS is not online.
IPAddress	Range(0, 4294967295 , 1)	☑	☐	☐	☐	Current IP address of the VDS, set by the access control plugin (most-significant-byte holds A of A.B.C.D)

Device model - NHC Audio Control Action

Represents the action to control the Audio functions

Type	**action**
Technology (aka Manufacturer)	**nikohomecontrol**
Model (aka HWModel)	**audiocontrol**
Identifier	**<NikoConfigGUID>**

Traits	Information

Parameter	Type	Default	Information
LocationId	**Text**	**""**	**Location GUID**
LocationName	**Text**	**""**	**Location Name**
LocationIcon	**Text**	**""**	**Location Icon GUID**
Manufacturer	**Choice(Bose, Sonos)**		**Brand of the connected speakers or groups**
Speaker	**Text**	**""**	**UUID of the speaker to fetch favorites from**

Property	Type	Status	Control	Schedule	Logging	Information
Status	**Choice(On, Off)**	☑	☑	☐	☐	**Switch speaker on/off**
Playback	**Choice(Playing, Paused, Buffering)**	☑	☑	☐	☐	**Control: use the value "Playing" or “Paused” Status feedback: returns values "Playing", "Paused", "Buffering"**
Volume	**Range(0, 100, 1)**	☑	☑	☐	☐	**Control speaker volume**
Muted	**Boolean**	☑	☑	☐	☐	**Enable/disable mute**

Favourite	**Text**	☐	☑	☐	☐	**Select favourite to start playing. List of favourites can be fetched from the FavouriteXX parameters of the device mentioned in the Speaker parameter**
Title	**Text**	☑	☐	☐	☐	**Name of the currently playing track, radio station, ...**
VolumeAligned	**Boolean**	☑	☐	☐	☐	**True when all speakers / groups have the same volume**
TitleAligned	**Boolean**	☑	☐	☐	☐	**True when all speakers / groups have the title**
Connected	**Boolean**	☑	☐	☐	☐	**True when all speakers are connected**

Device model - Sonos Speaker

Represents the Sonos Speaker action (retrieving the favourites list)

Type	**audiocontrol**
Technology (aka Manufacturer)	**sonos**
Model (aka HWModel)	**generic**
Identifier	**<NikoConfigGUID>**

Traits	**Information**
HouseholdId	**Internal Sonos identifier**

Parameter	**Type**	**Default**	**Information**

PlayerId	**Text**		**Device Identifier**
GroupId	**Text**	**""**	**Speaker Group Identifier**
GroupName	**Text**	**""**	**Speaker Group Name**
GroupCoordinator	**Boolean**	**true**	**Indicates whether this devices acts as coordinator for the group**
FavouriteXX	**Text**	**""**	**For XX - 00..69**
ApiVersion	**Text**	**""**	
SoftwareVersion	**Text**	**""**	

Device model - Bose Speaker

Represents the Bose Speaker action (retrieving the favourites list)

Type	**audiocontrol**
Technology (aka Manufacturer)	**bose**
Model (aka HWModel)	**generic**
Identifier	**<NikoConfigGUID>**

Traits	Information

Parameter	Type	Default	Information

DeviceId	**Text**		**Device Identifier**
GroupId	**Text**	**""**	**Speaker Group Identifier**
GroupName	**Text**	**""**	**Speaker Group Name**
GroupCoordinator	**Boolean**	**true**	**Indicates whether this devices acts as coordinator for the group**
FavouriteXX	**Text**	**""**	**For XX - 00..05**

Device model - Generic Ventilation Implementation

Represents the generic ventilation action when using a connected system from a Niko partner. The list of available properties depends upon the capabilities of the connected partner device.

Type	**fan**
Technology (aka Manufacturer)	**<technology>**
Model (aka HWModel)	**<model>**
Identifier	**<partner identifier>**

Traits	Information
PlayerName	**Config software name (when coupled)**

Parameter	Type	Default	Information
Location	**Text**	**""**	**Location GUID**

LocationName	**Text**	**""**	**Location Name**
LocationIcon	**Text**	**""**	**Location Icon GUID**

Property	Type	Status	Control	Schedule	Logging	Information
Program	**Choice(Home, Away, Vacation, Day, Night, ...)**	☑	☑	☐	☐	**Max 8 choices Available values depend on the connected system**
FanSpeed	**Choice(Off, Low, Medium, High, Automatic, ...)**	☑	☑	☐	☐	**Max 8 choices Available values depend on the connected system**
FanSpeed	**Range(0, 100, 1)**	☑	☑	☐	☐	**unit: %**
Boost	**Boolean**	☑	☑	☐	☐	**Boost mode active**
Status	**Choice(On, Off)**	☑	☑	☐	☐	**Fan on or off**
CO_2	**Range(0, 1000000, 1)**	☑	☐	☐	☐	**unit: ppm**
Humidity	**Range(0, 100, 1)**	☑	☐	☐	☐	**unit: %**
CouplingStatus	**Choice(Ok, NoInternet, NoCredentials, InvalidCredentials, UnknownError)**	☑	☐	☐	☐	**Connectivity status of the system**

Device model - Generic Heating/Cooling Implementation

Represents the generic heating/cooling action when using a connected system from a Niko partner. The list of available properties depends upon the capabilities of the connected partner device.

Type	**hvac**

Technology (aka Manufacturer)	**<technology>**
Model (aka HWModel)	**<model>**
Identifier	**<partner identifier>**

Traits	Information
PlayerName	**Config software name (when coupled)**

Parameter	Type	Default	Information
Location	**Text**	**""**	**Location GUID**
LocationName	**Text**	**""**	**Location Name**
LocationIcon	**Text**	**""**	**Location Icon GUID**

Property	Type	Status	Control	Schedule	Logging	Information
SetpointTemperature	**Range(..., ..., ...)**	☑	☑	☐	☐	**Units: degrees Celsius**
AmbientTemperature	**Range(..., ..., ...)**	☑	☐	☐	☐	**Units: degrees Celsius**
OutdoorTemperature	**Range(..., ..., ...)**	☑	☐	☐	☐	**Units: degrees Celsius**
Program	**Choice(Home, Away, Vacation, Day, Night, ...)**	☑	☑	☐	☐	**Max 8 choices Available values depend on the connected system**
OperationMode	**Choice(Cool, Heat, Auto)**	☑	☑	☐	☐	**Max 8 choices Available values depend on the connected system**

FanSpeed	**Choice(Off, Low, Medium, High, Automatic, ...)**	☑	☑	☐	☐	**Max 8 choices Available values depend on the connected system**
FanSpeed	**Range(0,100,1)**	☑	☑	☐	☐	**Unit: %**
Status	**Choice(On, Off)**	☑	☑	☐	☐	**System on or off**
OverruleActive	**Boolean**	☑	☑		☐	**Overrule mode active or not**
CouplingStatus	**Choice(Ok, NoInternet, NoCredentials, InvalidCredentials, UnknownError)**	☑	☐	☐	☐	**Connectivity status of the system**

Device model - Generic Warm Water Implementation

Represents the generic warm water action when using a connected system from a Niko partner. The list of available properties depends upon the capabilities of the connected system.

Type	**domestichotwaterunit**
Technology (aka Manufacturer)	**<technology>**
Model (aka HWModel)	**<model>**
Identifier	**<partner identifier>**

Traits	Information
PlayerName	**Config software name (when coupled)**

Parameter	Type	Default	Information

Location	**Text**	**""**	**Location GUID**
LocationName	**Text**	**""**	**Location Name**
LocationIcon	**Text**	**""**	**Location Icon GUID**

Property	Type	Status	Control	Schedule	Logging	Information
DomesticHotWaterTemperature	**Range(..., ..., ...)**	☑	☑	☐	☐	**unit: degrees Celcius**
Program	**Choice(Home, Away, Vacation, Day, Night, ...)**	☑	☑		☐	**Max 8 choices Available values depend on the connected system**
Boost	**Boolean**	☑	☑	☐	☐	**Boost mode activation**
CouplingStatus	**Choice(Ok, NoInternet, NoCredentials, InvalidCredentials, UnknownError)**	☑	☐	☐	☐	**Connectivity status of the system**

Device model - Generic ZigBee Heating/Cooling Implementation

Represents the generic warm water action when using a connected system from a Niko partner. The list of available properties depends upon the capabilities of the connected system.

Type	**hvac**
Technology (aka Manufacturer)	**ZigBee**
Model (aka HWModel)	**thermostat**
Identifier	**<partner identifier>**

Traits	Information
Partner	Partner technology
Model	Partner model
MacAddress	The Zigbee mac address of this device
SupportsWeeklyProgram	Indicates whether weekly schedule can be set

Parameter	Type	Default	Information
Location	Text	""	Location GUID
LocationName	Text	""	Location Name
LocationIcon	Text	""	Location Icon GUID

Property	Type	Status	Control	Schedule	Logging	Information
SetpointTemperature	Range(..., ..., ...)	☑	☑	☐	☐	unit: degrees Celcius
AmbientTemperature	Range(..., ..., ...)	☑	☐	☐	☐	unit: degrees Celcius
OutdoorTemperature	Range(..., ..., ...)	☑	☐	☐	☐	unit: degrees Celcius
Program	Choice(Home, Away, Vacation, Day, Night, ...)	☑	☐	☐	☐	Max 8 choices Available values depend on the connected system
OperationMode	Choice(Cool, Heat, Auto)	☑	☑	☐	☐	Max 8 choices Available values depend on the connected system
FanSpeed	Choice(Off, Low, Medium, High,	☑	☑	☐	☐	Max 8 choices

	Automatic, ...)					**Available values depend on the connected system**
FanSpeed	**Range(0, 100, 1)**	☑	☑	☐	☐	**Available values depend on the connected system**
Status	**Choice(On, Off)**	☑	☑	☐	☐	**System on or off**
OverruleActive	**Boolean**	☑	☑	☐	☐	**Overrule mode active or not**

Device model - Generic Charging Station

Represents a generic EV charging station when using a connected system from a Niko partner. The list of available properties depends upon the capabilities of the connected partner device.

Type	**chargingstation**
Technology (aka Manufacturer)	**<technology>**
Model (aka HWModel)	**<model>**
Identifier	**<partner identifier>**

Traits	**Information**
PlayerName	**Config software name (when coupled)**

Parameter	**Type**	**Default**	**Information**
LocationId	**Text**	**""**	**Location GUID**

LocationName	**Text**	**""**	**Location Name**
LocationIcon	**Text**	**""**	**Location Icon GUID**

Property	Type	Status	Control	Schedule	Logging	Information
Status	**Choice(On, Off)**	☑	☑	☐	☐	**Switch charging station On/Off. When Off, the EV won't be able to charge**
Chargingmode	**Choice(Solar, Normal, Smart)**	☑	☑	☐	☐	**Based on this mode, the smart charging algorithm will automatically adjust the maximum charging power Solar: charge using excessive power as fast as possible Normal: charge as fast as possible. but respect capacity tariff Smart: charge as economical as possible, but respect capacity tariff**
Chargingstatus	**Choice(Active, Inactive, BatteryFull, Error)**	☑	☐	☐	☐	**Status of the charging session**
EVStatus	**Choice(Idle, Connected, Charging, Error)**	☑	☐	☐	☐	**Connection state of the car, based on SAE_J1772**
ElectricalPower	**Range(0,999999900, 100)**	☑	☐	☐	☐	**Unit: W**
ElectricalEnergy	**Range(0,999999999, 0.001)**	☐	☐	☐	☑	**Charged energy Unit: Wh**
CouplingStatus	**Choice(Ok, NoInternet, NoCredentials, InvalidCredentials, UnknownError)**	☑	☐	☐	☐	**Connectivity status of the system**
Boost	**Boolean**	☑	☑	☐	☐	**Boost mode for capacity tariff Flanders**

TargetDistance	**Range(0,1000,1)**	☑	☑	☐	☐	**Distance to be charged additionally when in Smart mode**
TargetTime	**Text**	☑	☑	☐	☐	**Charging Completion Time when in Smart mode**
ReachableDistance	**Range(0,10000,1)**	☑	☑	☐	☐	**Estimated max driving distance that could be charged during the Smart mode session**
TargetReached	**Boolean**	☑	☐	☐	☐	**Charging target is reached during this Smart mode session**
NextChargingTime	**Text**	☑	☑	☐	☐	**Estimated time when charging will start in Smart Mode**