



# Certified Capability List

This Capability List is based on a certification session performed by the *TALQ Certification Tool (v2.3.0-update.6)* on *2021-04-15 16:06:25.712 +0200*.

The Capability List is a consolidated list of TALQ features which are implemented in a product.

The tool has successfully performed *29 tests*.

## Product details

**Product Name** wixliportalgw

**Company** Nexiode

**Type** GATEWAY

**Notes**

**Generated on** 2021-04-15 16:06:25.712 +0200

**Supported profiles** • LIGHTING

**Certification performed by app version:** 2.3.0-update.6

## Capability list

### Security

Enabled ✓

### Functions

#### Basic

The Basic function describes the properties related to the physical asset to which the logical device is associated, such as identification (assetId) and location information.

#### Attributes

#	Attribute	Description
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✓	displayName	Display name of the asset.
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✓ assetId	Customer identifier of the asset. If multiple devices have the same assetId it means they belong to the same asset.
✓ hwType	Hardware type of the device.
✓ swVersion	Software version installed on the device.
✓ location	Latitude, Longitude and Altitude.
✓ deviceReset	The physical device containing the logical device was reset.
✓ timeZone	Time zone of the device. Time zone may be expressed in two formats. <timezone> where <timezone> is a time zone as defined in the zone.tab of the IANA timezone database [IANA]; and stdoffset[dst[offset][,start[/time],en d[/time]]] as defined by the Open Group for posix systems [POSIX]. [DEPRECATED: This attribute has been deprecated and it will be removed in the next MAJOR release. Please use the new TimeFunction.timeZone instead.]
✓ currentTime	Current time of the device defined as local time with time zone designator. [DEPRECATED: This attribute has been deprecated and it will be removed in the next MAJOR release. Please use the new TimeFunction.currentTime instead.]

## Events

#	Event type	Description
✓	deviceReset	The physical device containing the logical device was reset

## Gateway

The Gateway function includes the necessary attributes to enable the communication between the CMS and the Gateway according to the TALQ Specification.

### Attributes

#	Attribute	Description
✓	cmsUri	Base URI for TALQ communication that allows the Gateway to access the CMS. Must be an absolute URI. Other URI's for accessing CMS can be relative to this base.
✓	cmsAddress	CMS UUID address
✓	gatewayUri	Base URI for TALQ communication that allows the CMS to access the Gateway. Must be an absolute URI. Other URI's for accessing Gateway can be relative to this base.
✓	gatewayAddress	Gateway UUID address
✓	retryPeriod	Time duration before the Gateway retransmits a message for which expected response has not been received.
✓	crlUrn	URI where the Gateway can obtain the Certification Revocation List (CRL).
✓	vendor	Vendor identification.

## Lamp Actuator

The Lamp Actuator function includes attributes related to lighting control and it represents the smallest unit for control purposes. In practice, however, a Lamp Actuator function can control combinations of several lamps and control gear but all in the same way, as if they are all one individual unit.

### Attributes

#	Attribute	Description
✓	lampTypeId	TALQ Address of an existing lampType.

✓ defaultLightState	Sets the default light output for the lamp actuator. This shall be applicable if no other command is active. This attribute shall be set to 100% as default value.
✓ targetLightCommand	Latest command for the lamp actuator.
✓ feedbackLightCommand	This attribute reflects the command in effect and it might deviate from the actualLightState due to propagation time or due to internal ODN specific mechanisms to handle the priority of the requests.
✓ actualLightState	This attribute should reflect the physical state of the light source as much as possible, including factors such as CLO. It may be calculated or measured, depending on the specific ODN implementation, which is outside the scope of this specification.
✓ calendarID	TALQ Address of the calendar controlling this lamp actuator. If this attribute is empty, the behavior shall be determined by the ODN. If the attribute is invalid, the ODN shall trigger a generic invalid address event and the behavior shall be determined by the ODN.
✓ invalidCalendar	The lamp actuator function has been allocated a calendar that it cannot implement.
✓ invalidProgram	The lamp actuator function has been allocated a control program that it cannot implement.
✓ lightStateChange	Light state has changed.

## Events

#	Event type	Description
✓	lightStateChange	Light state has changed
✓	invalidCalendar	The lamp actuator function has been allocated a calendar that it cannot implement
✓	invalidProgram	The lamp actuator function has been allocated a control program that it cannot implement

## Lamp Monitor

The Lamp Monitor function enables monitoring of lamp parameters. A Lamp Monitor function should be associated with a specific lamp/control gear combination. Multiple lamp monitor functions may be implemented by a single device.

### Attributes

#	Attribute	Description
✓	supplyVoltage	RMS supply volts when supplyType is AC, supply voltage (V) when supplyType is DC.
✓	supplyCurrent	RMS supply current (A) when supplyType is AC, supply current (A) when supplyType is DC.
✓	activePower	Active power.
✓	powerFactor	Active power/Apparent power.
✓	activeEnergy	Cumulative active energy (since installation or counter reset).
✓	lampFailure	The lamp is not operating as it is supposed to (e.g. the lamp is broken). This event shall be used to detect a situation where the lamp (or LED module(s)) should be lit, but produce no light. This could be detected by the current flowing or power consumed.

### Events

#	Event type	Description
✓	lampFailure	The lamp is not operating as it is supposed to

## Services

### Configuration Service

The TALQ Configuration Service enables discovery and configuration of devices and services

#### Options

#	Option	Value	Description
✓	commissioningSupported*		This ODN can support commissioning from the CMS side.
✓	devicesPaginationSupported*		This ODN can support pagination of devices.

### Control Service

The Control service describes the mechanisms to operate the actuator functions in order to enable schedule based and override control

#### Options

#	Option	Value	Description
✓	supportedTypes	<ul style="list-style-type: none"><li>AbsoluteActivePeriod</li><li>AstroClockActivePeriod*</li></ul>	Control Program and calendar options supported are defined by announcing support for the given modes
✓	maxProgramsPerCalendar		Maximum number of control programs per calendar
✓	maxSwitchPointsPerProgram		Maximum number of switching points per control program
✓	maxActivePeriodsPerProgram		Maximum number of active periods per control program
✓	dayOffset	<ul style="list-style-type: none"><li>1</li><li>2</li></ul>	Offset of start of day
✓	ccDateSupport		Indicates the ccDate options supported
✓	ccDaySupport		Indicates the ccDay options supported
✓	programSecondsSupported*		Indicates whether the field of seconds is supported in programs.

#### Events

#	Event Type	Description
✓	invalidCalendar	An invalid calendar has been provided by the CMS to the ODN
✓	invalidProgram	A control program has been provided by the CMS, which cannot be implemented by the ODN

### Data Collection Service

The TALQ Data Collection Service is a provision to configure how ODN measurements, status information and events are logged, and when or under what conditions the logged data is transferred to the CMS

## Options

#	Option	Value	Description
✓	supportedModes	<ul style="list-style-type: none"> <li>EventRecordingMode</li> <li>VendorRecordingMode*</li> <li>ImmediateReportingMode</li> <li>ScheduledReportingMode</li> </ul>	Recording and Reporting modes supported
✓	loggableAttributes	<ul style="list-style-type: none"> <li>wixliPortalDevClass/wixliPortalLamp1ActuatorFunc/actualLightState</li> <li>wixliPortalDevClass/wixliPortalLamp1MonitorFunc/lampFailure</li> <li>wixliPortalDevClass/wixliPortalLamp1MonitorFunc/supplyVoltage</li> <li>wixliPortalDevClass/wixliPortalLamp1MonitorFunc/supplyCurrent</li> <li>wixliPortalDevClass/wixliPortalLamp1MonitorFunc/activePower</li> <li>wixliPortalDevClass/wixliPortalLamp1MonitorFunc/powerFactor</li> <li>wixliPortalDevClass/wixliPortalLamp1MonitorFunc/activeEnergy</li> </ul>	List of descriptions of the attributes within device classes that can be logged using periodic recording

## Events

#	Event Type	Description
✓	invalidLoggerConfig	The CMS has provided a data logger configuration that cannot be implemented by the ODN

### On Demand Data Request Service

This service provides the mechanism to access attributes in the logical devices by requesting attribute values from the ODN

### Test Service

This service provides a mechanism to reduce the human intervention during the certification tests, enabling the certification tests to maximise automation

## Objects

### Lamp type

#### Properties

#	Property	Description
✓	name	Descriptive name of the lamp type
✓	address	TALQ Address of the lamp type

- ✓ controlType Type of control/dimming interface between the lamp actuator function and the control gear or within the control gear in case lamp actuator is embedded in the control gear

#### Event log data

##### Properties

#	Property	Description
✓	eventType	Identifier of event reported
✓	srcAddress	Address of Logical device or function within a logical device which is the source of the event or to which this event applies

#### Command

##### Properties

#	Property	Description
✓	state	Light state to be applied to the lamp actuator
✓	cmsRefId	CMS reference, which can be used for data logging

\*: The Certification Test Tool is designed to provide a high level of confidence that complementary systems can communicate successfully. As both the protocol and the test tool evolve, all mandatory and other core tests are confirmed by comparison with real-life scenarios (plug-fest or similar). Some tests of optional and more peripheral features may not yet have been confirmed in this way; such features are identified with an asterisk (\*).

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