

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 succesfully performed 29 tests.

Product details

Product Name	wixliportalgw
Company	Nexiode
Туре	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
 displayName 	Display name of the asset.
✓ 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. [DEPRECATED: This attribute has been deprecated and it will be removed in the next MAJOR release. Please use the new LocationSensorFunction.location instead.]
✓ 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.]</timezone></timezone>
 currentTime Events 	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 nex MAJOR release. Please use the new TimeFunction.currentTime instead.]
# Event type	Description

# 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. [DEPRECATED: This attribute has been deprecated and it will be removed in the next MAJOR release. Please use the new GatewayFunction.gatewayRetryPeriod instead.]

✓ 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.

ŧ	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.
Eve	ents	
#	Event type D	escription

IampFailure 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.

Services

Co	nfiguration Service			
	e TALQ Configuration Servi Dtions	ice enables discovery	y and configuration of dev	rices and services
#	Option	Value	Description	
~	commissioningSuppo	orted*	This ODN can suppo	rt commissioning from the CMS side.
~	devicesPaginationSu	pported *	This ODN can suppo	rt pagination of devices.
Co	ntrol Service			
ove	e Control service describes erride control otions	the mechanisms to	operate the actuator func	tions in order to enable schedule based and
#	Option	Value		Description
~	supportedTypes		osoluteActivePeriod stroClockActivePeriod	Control Program and calendar options supported are defined by announcing

:10 Nexiode-wixliportalgw-2021-04-15 16:06:25.712 +0200-GATEWAY-TALQv2.3.0-update.6-Capability		
✓ maxProgram	msPerCalendar	Maximum number of control programs per calendar
 maxSwitchl 	PointsPerProgram	Maximum number of switching points per control program
✓ maxActiveF	PeriodsPerProgram	Maximum number of active periods per control program
✓ dayOffset	• 1 • 2	Offset of start of day
✓ ccDateSup	port	Indicates the ccDate options supported
✓ ccDaySupp	port	Indicates the ccDay options supported
✓ programSee	condsSupported *	Indicates whether the field of seconds is supported in programs.
Events		
# Event Type	Description	
 invalidCaler 	ndar An invalid calendar has been	provided by the CMS to the ODN
 invalidProgr 	ram A control program has been p by the ODN	provided by the CMS, which cannot be implemented

logged, and when or under what conditions the logged data is transferred to the CMS

Options

# Option	Value	Description
✓ supportedModes	 EventRecordingMode VendorRecordingMode ImmediateReportingMode ScheduledReportingMode 	Recording and Reporting modes supported
✓ loggableAttribute	 wixliPortalDevClass/wixliPortalLamp1ActuatorFunc/actualLightStat wixliPortalDevClass/wixliPortalLamp1MonitorFunc/lampFailure wixliPortalDevClass/wixliPortalLamp1MonitorFunc/supplyVoltage wixliPortalDevClass/wixliPortalLamp1MonitorFunc/supplyCurrent wixliPortalDevClass/wixliPortalLamp1MonitorFunc/activePower wixliPortalDevClass/wixliPortalLamp1MonitorFunc/powerFactor wixliPortalDevClass/wixliPortalLamp1MonitorFunc/activeEnergy 	e List of descriptions of the attributes within device classes that can be logged using periodic recording
Evonto		

#	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

The lamp type consists of a set of attributes that together characterize a given lamp and control gear combination. When modelling a Lighting ODN with many luminaires, there are attributes' values that are the same for many lamps, e.g.: the expected consumed power of the lamp and control gear (wattage) would be the same for many lamp monitors. The concept of LampType is created to avoid including the same attributes' values in every lamp monitor and actuator of the same type, for this reason a reference to a lamp type is included in the lamp actuator and lamp monitor functions, as these attributes are required for proper operation of these functions. Thus, the definition of lamp types enables the CMS to efficiently set attributes in many lamp actuators/monitors by just setting the address of the 'lampType' attribute in each function. Lamp types can be created by both CMS and TALQ Gateway as separate entities. The TALQ Gateway shall also announce the lamp type whenever it changes. The CMS may also send lamp types to the TALQ Gateway.

Properties

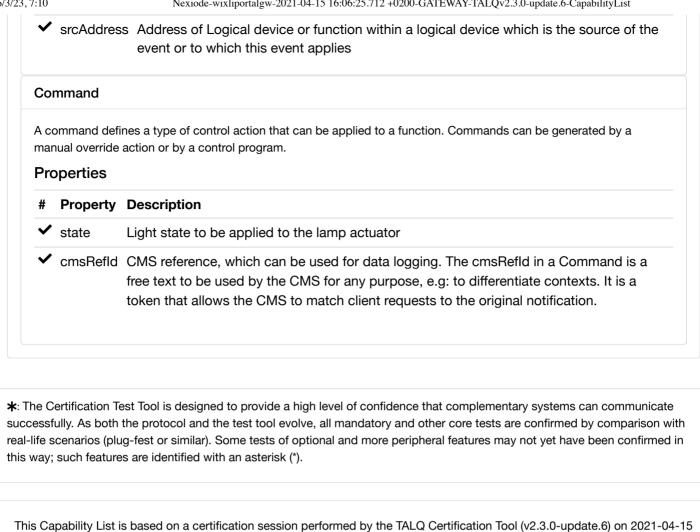
#	Property	Description
~	name	Descriptive name of the lamp type
~	address	TALQ Address of the lamp type
✓	controlType	Type of control/dimming interface between the lamp actuator function and the control gear or within the control gear in case lamp actuator is embedded in the control gear

Event log data

Event log data contains a single event, with eventType and value, in each single log entry. It also includes information about whether the log denotes the start or end of the event. Furthermore additional information can be added with the info attribute.

Properties

#	Property	Description
~	eventType	Identifier of event reported



16:06:25.712 +0200.

(()) and TALQ are trademarks owned by the TALQ Consortium.

G TALQ Consortium

