

Certified Capability List

This Capability List is based on a certification session performed by the TALQ Certification Tool (v2.3.0-update.21) on 2022-05-18 22:39:31.788 +0200.

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

The tool has succesfully performed 34 tests.

Product details

Product Name	Interact City
Company	Signify Netherlands B.V.
Туре	GATEWAY
Notes	
Generated on	2022-05-18 22:39:31.788 +0200
Supported profiles	Lighting
API version certified:	2.3.0
Certification performed by app version:	2.3.0-update.21

Capability list

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unctions	
Basic	
The Basic function and location inform Attributes	describes the properties related to the physical asset to which the logical device is associated, such as identification (assetId) nation.
# Attribute	Description
✓ serial	Serial number of the device.
✓ swVersion	Software version installed on the device.

Signify Netherlands B.V.-Interact City-2022-05-18 22:39:31.788 +0200-GATEWAY-TALQv2.3.0-update.21-CapabilityList

✓ 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

Communication

The Communication Function contains attributes related to the communication within the ODN, and between ODN devices and Gateways. Although communication within the ODN is outside the scope of the TALQ Smart City Protocol, this Function enables access to a minimum set of configuration and state information of the ODN communication interface in order to facilitate system management from the CMS.

Attributes

#	Attribute	Description
~	physicalAddress	Physical address of the device. For example, IEEE MAC address. This attribute can be used to map between logical and physical devices. The format is specific to the ODN implementation.

Events

# I	Event type	Description
✓ (communicationFailure	This event is generated by the ODN when the communication function is not operating as expected

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 MAJOF 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
✓ 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.

16/3/23, 7:04

#	Event type	Light state has changed
Event	ts	
✓ ca	alendarID	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.
✓ ac	ctualLightState	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.
✔ fe	edbackLightCommand	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.
✓ ta	rgetLightCommand	Latest command for the lamp actuator.

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
~	activePower	Active power.
~	activeEnergy	Cumulative active energy (since installation or counter reset).

Events

#	Event type	Description
~		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.

Electrical Meter

The electrical meter function supports electrical metering capabilities including measurements of voltage, current, power, energy, and power factor. This function may be associated with Luminaire Controllers, Cabinet Controllers or electrical meters installed in switch boxes. ODNs may implement both single phase and three phase meters. Typically meters within a control device will be single phase and stand-alone meters. A street side cabinet may have single phase or three phase meters.

Attributes

ActiveEnergy Event type	Total cumulative kWh measured by the meter since installation date (or counter reset). Description
Event type	Description
Event type	Description
S	
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The TALQ Configuration Service enables discovery and configuration of devices and services

16/3/23, 7:04

	Option	Value	Description		
~	commissioningSupported*		This ODN can su	upport commissioning fro	om the CMS side.
~	devicesPaginationSupported*	This ODN can support pagination of devices.			
Con	trol Service				
	Control service describes the mechanis	ms to operate th	ne actuator functions	in order to enable schedule	based and override control
#	Option		Value	9	Description
~	supportedTypes		•	AbsoluteActivePeriod AstroClockActivePeriod ccDay *	Control Program and calendar options supported are defined by announcing support for the given modes
~	dayOffset		•	0	Offset of start of day
~	programSecondsSupported*				Indicates whether the field of seconds is supported in programs.
~	maxNumberOfPowerFactorThresholdDimmingCurveItems $lpha$				Maximum number of items at the powerFactorThresholdDimmingCurr of the LampType.
	invalidCalendar An invalid caler			INIS to the UDN	
~	invalidProgram A control progr	am has been p		MS to the ODN MS, which cannot be imp	elemented by the ODN
	invalidProgram A control progr	am has been p			elemented by the ODN
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#	Option		Value	Description			
~	maximun	NumberOfGroups		Maximum number of groups per Gateway			
~	maximun	nGroupSize		Maximum number of group members per group			
Test	Service						
	service prov mation	ce provides a mechanism to reduce the human intervention during the certification tests, enabling the certification tests to maximise In					
bje	ects						
Ever	nt log data						
leno	vent log data contains a single event, with eventType and value, in each single log entry. It also includes information about whether the log enotes the start or end of the event. Furthermore additional information can be added with the info attribute.						
#	Property	Description					
~	eventType	Identifier of event reported	Ł				
~	srcAddress Address of Logical device or function within a logical device which is the source of the event or to which th event applies						
Corr	nmand						
contr	mmand defir rol program. perties	nes a type of control action that	can be applied	t to a function. Commands can be generated by a manual override action or by a			
#	Property	Description					
~	state	Light state to be applied to	the lamp act	uator			
~			.g: to differer	lata logging. The cmsRefld in a Command is a free text to be used by ntiate contexts. It is a token that allows the CMS to match client			
Grou	qu						
A gro	oup is set of	entities that can be addressed b	by the same gro s.	oup address. Devices and functions within devices can be assigned to a group. A			

#	Property	Description
~	address	Group address
~	members	TALQ Addresses of members of the group
~	purpose	Main purpose of the group

*: 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 This Capability List is based on a certification session performed by the TALQ Certification Tool (v2.3.0-update.21) on 2022-05-18 22:39:31.788 +0200.

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