

Certified Capability List

This Capability List is based on a certification session performed by the *TALQ Certification Tool (v2.4.1-update.11) on 2022-11-05* 18:24:34.327 +0200.

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

The tool has succesfully performed 83 tests.

Product details

Product Name Flashnet IoT Platform

Company Flashnet

Type GATEWAY

Notes

Generated on 2022-11-05 18:24:34.327 +0200

Supported profiles

Environmental Monitoring

Lighting

API version certified: 2.4.1

Certification performed by app version: 2.4.1-update.11

Capability list

Security

Enabled 🗸

Functions

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

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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
communicationType	Type of communication technology implemented by the ODN (e.g. power line, wireless).
✓ 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.
communicationQuality	Indicator of the quality of the communication with the device. 100% means good quality.
✓ communicationFailure	This attribute is updated by the ODN when the communication function is not operating as expected.

Events

#	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.
✓ 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

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✓ 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.

#	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
✓ switchOnCounter	Cumulative number of ON/OFF cycles since installation of the lamp. The wrap around value is 2e32 - 1.
✓ operatingHours	Number of hours the lamp is on. This is the value used in CLO and may be set by the CMS.
✓ temperature	Temperature of the device implementing this function. [DEPRECATED: This attribute has been deprecated and it will be removed in the next MAJOR release. Please use the new TemperatureSensorFunction.temperature instead.]
✓ supplyVoltage	RMS supply volts when supplyType is AC, supply voltage (V) when supplyType is DC.

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~	supplyCurrent	RMS supply current (A) when supplyType is AC, supply current (A) when supplyType is DC.
~	activePower	Active power.
~	reactivePower	Reactive power.
~	apparentPower	Apparent 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.
~	currentTooHigh	Supply current is above the highCurrentThreshold defined in the lamp type.
~	currentTooLow	Supply current is below the lowCurrentThreshold defined in the lamp type.
~	powerFactorTooLow	The power factor is below powerFactorThreshold.
✓	highTemperature	Indicates temperature is above the high threshold [DEPRECATED: This attribute has been deprecated and it will be removed in the next MAJOR release. Please use the new TemperatureSensorFunction.temperatureTooHigh instead.]
~	relayFailure	Set in case of internal relay is failing (e.g. it may be stuck in either on or off position). Typically if contactor error is used as well.
~	absoluteLampPowerTooHigh	Indicates the power is above the lampPowerHighThreshold in the lamp type
~	absoluteLampPowerTooLow	Indicates the power is below the lampPowerLowThreshold in the lamp type
~	controlGearCommFailure	Indicates failure of the control gear.
~	cyclingFailure	Indicates the lamp is constantly switching ON and OFF in an unexpected manner. This event shall be used to indicate a lamp which cycles while it should be on. The actual detection algorithm is outside the scope of this specification.
~	supplyLoss	Indicates loss of mains power.
~	leakageDetected	Indicates that an earth leakage fault has been detected.
~	supplyVoltageTooHigh	Level of supply voltage is above the highLampVoltageThreshold.
~	supplyVoltageTooLow	Level of supply voltage is below the lowSupplyVoltageThreshold.
~	highSupplyVoltageThreshold	Supply voltage above which the supplyVoltageTooHigh event is triggered.
~	lowSupplyVoltageThreshold	Supply voltage below which the supplyVoltageTooLow event is triggered.

# Event type	Description
✓ currentTooHigh	Supply current is above the highCurrentThreshold defined in the lamp type
✓ currentTooLow	Supply current is below the lowCurrentThreshold defined in the lamp type
✓ powerFactorTooLow	The power factor is below powerFactorThreshold
✓ lampFailure	The lamp is not operating as it is supposed to
✓ highTemperature	Indicates temperature is above the high threshold
✓ relayFailure	Set in case of internal relay is failing

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✓ absoluteLampPowerTooHigh	Indicates the power is above the lampPowerHighThreshold in the lamp type
✓ absoluteLampPowerTooLow	Indicates the power is below the lampPowerLowThreshold in the lamp type
✓ controlGearCommFailure	Indicates failure of the control gear
✓ cyclingFailure	Indicates the lamp is constantly switching ON and OFF in an unexpected manner
✓ supplyLoss	Indicates loss of mains power
✓ supplyLoss✓ leakageDetected	Indicates loss of mains power Indicates that an earth leakage fault has been detected
	<u> </u>

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

#	Attribute	Description
~	phase1VoltageHighThreshold	RMS voltage above which the phase1VoltageTooHigh event is triggered.
~	phase1VoltageLowThreshold	RMS voltage below which the phase1VoltageTooLow event is triggered.
~	phase2VoltageHighThreshold	RMS voltage above which the phase2VoltageTooHigh event is triggered.
~	phase2VoltageLowThreshold	RMS voltage below which the phase2VoltageTooLow event is triggered.
~	phase3VoltageHighThreshold	RMS voltage above which the phase3VoltageTooHigh event is triggered.
~	phase3VoltageLowThreshold	RMS voltage below which the phase3VoltageTooLow event is triggered.
~	neutralCurrentHighThreshold	RMS current above which the neutralCurrentTooHigh event is triggered.
~	phase1CurrentHighThreshold	RMS current above which the phase1CurrentTooHigh event is triggered.
~	phase1CurrentLowThreshold	RMS current below which the phase1CurrentTooLow event is triggered.
~	phase2CurrentHighThreshold	RMS current above which the phase2CurrentTooHigh event is triggered.
~	phase2CurrentLowThreshold	RMS current below which the phase2CurrentTooLow event is triggered.
~	phase3CurrentHighThreshold	RMS current above which the phase3CurrentTooHigh event is triggered.
~	phase3CurrentLowThreshold	RMS current below which the phase3CurrentTooLow event is triggered.
~	phase1ActivePowerHighThreshold	Power above which the phase1ActivePowerTooHigh event is triggered.
~	phase1ActivePowerLowThreshold	Power below which the phase1ActivePowerTooLow event is triggered.

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~	phase2ActivePowerHighThreshold	Power above which the phase2ActivePowerTooHigh event is triggered
~	phase2ActivePowerLowThreshold	Power below which the phase2ActivePowerTooLow event is triggered
~	phase3ActivePowerHighThreshold	Power above which the phase3ActivePowerTooHigh event is triggered
/	phase3ActivePowerLowThreshold	Power below which the phase3ActivePowerTooLow event is triggered
~	totalActiveEnergy	Total cumulative kWh measured by the meter since installation date (counter reset).
~	totalReactiveEnergy	Total cumulative kWh measured by the meter since installation date (counter reset).
/	frequency	Frequency on the line.
/	phase1PowerFactor	Power factor on phase 1.
~	phase2PowerFactor	Power factor on phase 2.
~	phase3PowerFactor	Power factor on phase 3.
~	phase1Voltage	RMS Voltage between phase 1 and neutral.
/	phase2Voltage	RMS Voltage between phase 2 and neutral.
/	phase3Voltage	RMS Voltage between phase 3 and neutral.
/	neutralCurrent	RMS current on neutral.
/	phase1Current	RMS current on phase 1.
/	phase2Current	RMS current on phase 2.
/	phase3Current	RMS current on phase 3.
/	phase1ActivePower	Active Power on phase 1.
/	phase2ActivePower	Active Power on phase 2.
/	phase3ActivePower	Active Power on phase 3.
/	phase1ApparentPower	Apparent Power on phase 1.
/	phase2ApparentPower	Apparent Power on phase 2.
/	phase3ApparentPower	Apparent Power on phase 3.
/	phase1ReactivePower	Reactive Power on phase 1.
/	phase2ReactivePower	Reactive Power on phase 2.
/	phase3ReactivePower	Reactive Power on phase 3.
~	phase1VoltageTooHigh	Indicates phase 1 supply voltage is above the phase1SupplyVoltageHighThreshold.
~	phase1VoltageTooLow	Indicates phase 1 supply voltage is below the phase1SupplyVoltageLowThreshold.
~	phase2VoltageTooHigh	Indicates phase 2 supply voltage is above the phase2SupplyVoltageHighThreshold.
~	phase2VoltageTooLow	Indicates phase 2 supply voltage is below the phase2SupplyVoltageLowThreshold.
~	phase3VoltageTooHigh	Indicates phase 3 supply voltage is above the phase3SupplyVoltageHighThreshold.
~	phase3VoltageTooLow	Indicates phase 3 supply voltage is below the phase3SupplyVoltageLowThreshold.
~	neutralCurrentTooHigh	Indicates the neutral current is above the neutralCurrentHighThreshole

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✓ phase1CurrentTooHigh	Indicates the phase 1 current is above the phase1CurrentHighThreshold.
✓ phase1CurrentTooLow	Indicates the phase 1 current is below the phase1CurrentLowThreshold.
✓ phase2CurrentTooHigh	Indicates the phase 2 current is above the phase2CurrentHighThreshold.
✓ phase2CurrentTooLow	Indicates the phase 2 current is below the phase2CurrentLowThreshold.
✓ phase3CurrentTooHigh	Indicates the phase 3 current is above the phase3CurrentHighThreshold.
✓ phase3CurrentTooLow	Indicates the phase 3 current is below the phase3CurrentLowThreshold.
✓ phase1ActivePowerTooHigh	Indicates the phase 1 active power is above the phase1ActivePowerHighThreshold.
✓ phase1ActivePowerTooLow	Indicates the phase 1 active power is below the phase1ActivePowerLowThreshold.
✓ phase2ActivePowerTooHigh	Indicates the phase 2 active power is above the phase2ActivePowerHighThreshold.
✓ phase2ActivePowerTooLow	Indicates the phase 2 active power is below the phase2ActivePowerLowThreshold.
✓ phase3ActivePowerTooHigh	Indicates the phase 3 active power is above the phase3ActivePowerHighThreshold.
✓ phase3ActivePowerTooLow	Indicates the phase 3 active power is below the phase3ActivePowerLowThreshold.
✓ supplyLoss	Indicates loss of supply (power).

# Event type	Description
✓ neutralCurrentTooHigh	Indicates the neutral current is above the neutralCurrentHighThreshold
✓ phase1VoltageTooHigh	Indicates phase 1 supply voltage is above the phase1SupplyVoltageHighThreshold
✓ phase1VoltageTooLow	Indicates phase 1 supply voltage is below the phase1SupplyVoltageLowThreshold
✓ phase1CurrentTooHigh	Indicates the phase 1 current is above the phase1CurrentHighThreshold
✓ phase1CurrentTooLow	Indicates the phase 1 current is below the phase1CurrentLowThreshold
✓ phase1ActivePowerTooHigh	Indicates the phase 1 active power is above the phase1ActivePowerHighThreshold
✓ phase1ActivePowerTooLow	Indicates the phase 1 active power is below the phase1ActivePowerLowThreshold
✓ phase2VoltageTooHigh	Indicates phase 2 supply voltage is above the phase2SupplyVoltageHighThreshold
✓ phase2VoltageTooLow	Indicates phase 2 supply voltage is below the phase2SupplyVoltageLowThreshold
✓ phase2CurrentTooHigh	Indicates the phase 2 current is above the phase2CurrentHighThreshold

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✓ phase2CurrentTooLow	Indicates the phase 2 current is below the phase2CurrentLowThreshold
✓ phase2ActivePowerTooHigh	Indicates the phase 2 active power is above the phase2ActivePowerHighThreshold
✓ phase2ActivePowerTooLow	Indicates the phase 2 active power is below the phase2ActivePowerLowThreshold
✓ phase3VoltageTooHigh	Indicates phase 3 supply voltage is above the phase3SupplyVoltageHighThreshold
✓ phase3VoltageTooLow	Indicates phase 3 supply voltage is below the phase3SupplyVoltageLowThreshold
✓ phase3CurrentTooHigh	Indicates the phase 3 current is above the phase3CurrentHighThreshold
✓ phase3CurrentTooLow	Indicates the phase 3 current is below the phase3CurrentLowThreshold
✓ phase3ActivePowerTooHigh	Indicates the phase 3 active power is above the phase3ActivePowerHighThreshold
✓ phase3ActivePowerTooLow	Indicates the phase 1 active power is below the phase2ActivePowerLowThreshold
✓ supplyLoss	Indicates loss of supply (power).

Binary Sensor

A Binary Sensor function can be used to model any sensor that provides a digital, binary output. This function is optional for both CMS and Gateway, but when supported the requirements in this section shall apply.

Attributes

#	Attribute	Description
✓	level	Sensor Output level.

Events

# Event type	Description
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Generic Actuator

The Generic Actuator function includes attributes related to generic control and it represents the smallest unit for control purposes.

Attributes

#	Attribute	Description
~	defaultState	Sets the default state output for the generic actuator. This shall be applicable if no other command is active.
~	actualState	This attribute should reflect the physical state of the source as much as possible. It may be calculated or measured, depending on the specific ODN implementation, which is outside the scope of this specification.
~	targetCommand	Latest command for the generic actuator.
~	feedbackCommand	This attribute reflects the command in effect and it might deviate from the actualState due to propagation time or due to internal ODN specific mechanisms to handle the priority of the requests.

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✓ stateChange	The state has changed.
✓ calendarID	TALQ Address of the calendar controlling this generic 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	This event is generated when a calendar has been allocated and can not be implemented it.

#	Event type	Description
~	stateChange	The state has changed.
~	invalidCalendar	This event is generated when a calendar has been allocated and can not be implemented it.

Presence Sensor

The Presence Sensor function allows a CMS to detect presence. This function may be used in Parking Place detectors as well as in dynamic outdoor lighting scenario.

Attributes

# Attribute Description		Description
✓ presenceStatus Presence status.		Presence status.
✓ presenceStatusChanged Indicates		Indicates the presence status changed.

Events

#	Event type	Description
~	presenceStatusChanged	Indicates the presence status changed.

Battery Level Sensor

The Battery Level Sensor function allows to measure the charge of the battery, monitor the battery and send events in case the value is above/below configurable thresholds.

Attributes

#	Attribute	Description
✓	batteryLevel	Battery level.

Events

#	Event type	Description

Location Sensor[★]

The Location Sensor Function is used to indicate that an object has changed position attributes configurable by the CMS or based on internal setup of the vendor. For example, a specific location (latitude, longitude) of a device could be defined by the vendor. If the device is equipped with a GPS, it could send a specific event indicating that its position is different to the one

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defined by the CMS. We might also want to let the configuration to the vendor itself and simply define events notifying the CMS that the default configuration has changed. For example, a garbage bin could have its location defined based on a sensor placed on the floor. If the bin is not above this sensor, the vendor will trigger an event. In this last case, the CMS does not need to configure anything.

Attributes

# Attribute	Description	
✓ expectedLocation	Nominal location of the device	
✓ locationChangedThreshold	Distance (meters)	
✓ location	Location of the device	
✓ locationChanged	Triggered when the difference between location and expectedLocation is above locationChangedThreshold	

Events

#	Event type	Description
~	locationChanged	Triggered when the difference between location and expectedLocation is above locationChangedThreshold

Orientation*

The Orientation function is used to indicate that an object has changed orientation based on attributes configurable by the CMS or based on internal setup of the vendor. The target orientation of the object could be configured by the CMS or could be handled by the vendor. In the latter case, the configuration is let to the vendor itself and events are triggered depending on internal configuration.

Attributes

# Attribute	Description
✓ orientationChangedThreshold	Threshold above which orientationChanged is triggered
✓ orientation	Orientation of the device
✓ orientationChanged	Triggered when orientation differs from expectedOrientation by more than orientationChangedThreshold on any angle, or when the device determines itself that its orientation has changed.

Events

#	Event type	Description	
~	orientationChanged	Triggered when orientation differs from expectedOrientation by more than orientationChangedThreshold on any angle, or when the device determines itself that its orientation has changed.	

Simple Actuator

The Simple Actuator function includes attributes related to generic control and it represents the smallest unit for control purposes.

Attributes

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~	defaultState	Sets the default state output for the simple actuator. This shall be applicable if the actuator is not under an override control (OverrideCommand).
~	actualState	This attribute should reflect the physical state of the source as much as possible. It may be calculated or measured, depending on the specific ODN implementation, which is outside the scope of this specification.
~	targetCommand	Latest command for the simple actuator.
~	feedbackCommand	This attribute reflects the command in effect and it might deviate from the actualState due to propagation time or due to internal ODN specific mechanisms to handle the priority of the requests.
~	stateChange	The state has changed.

#	Event type	Description
~	stateChange	The state has changed.

Time*

The Time function includes attributes related to generic control and it represents the smallest unit for control purposes.

Attributes

# Attribute	Description
✓ timeZone	Time zone of the device. Time zone may be expressed in two formats. where 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].
✓ currentTim	e Current time of the device defined as local time with time zone designator.

Events

#	Event type	Description
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Segment Monitor*

The Segment Monitor function enables monitoring of segment parameters. Multiple segment monitor functions may be implemented by a single device.

Attributes

#	Attribute	Description
~	cabinetDoorOpen	Cabinet door is open.

Events

#	Event type	Description
~	cabinetDoorOpen	Cabinet door is open.

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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	 AbsoluteActivePeriod AstroClockActivePeriod AstroClockTimeControl* ccDate* ccDay* 	Control Program and calendar options supported are defined by announcing support for the given modes
✓ maximumCalendars		Maximum number of calendars supported
✓ maximumPrograms		Maximum number of control programs supported
✓ maxProgramsPerCalendar		Maximum number of control programs per calendar
✓ maxSwitchPointsPerProgra	nm	Maximum number of switching points per control program
✓ maxActivePeriodsPerProgra	am	Maximum number of active periods per control program
✓ dayOffset	• 1 • 2	Offset of start of day
✓ ccDateSupport		Indicates the ccDate options supported
✓ ccDaySupport		Indicates the ccDay options supported
✓ programSecondsSupported	4 *	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

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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	 EventRecordingMode PeriodicRecordingMode VendorRecordingMode ImmediateReportingMode ScheduledReportingMode 	Recording and Reporting modes supported
✓ maximumDataLogs		Maximum number of dat loggers supported
✓ loggableAttributes	 cls:FRE_v1_8/LampMonitorFunction/operatingHours cls:FRE_v1_8/LampMonitorFunction/supplyVoltage cls:FRE_v1_8/LampMonitorFunction/supplyCurrent cls:FRE_v1_8/LampMonitorFunction/activePower cls:FRE_v1_8/LampMonitorFunction/reactivePower cls:FRE_v1_8/LampMonitorFunction/apparentPower cls:FRE_v1_8/LampMonitorFunction/powerFactor cls:FRE_v1_8/LampMonitorFunction/activeEnergy cls:FRE_v1_8/LampMonitorFunction/switchOnCounter cls:FRE_v1_8/LampActuatorFunction/operatingHours cls:FRE_v1_8/LampActuatorFunction/feedbackLightCommand 	List of descriptions of the attributes within device classes that ca be logged usin periodic recording
 samplingPeriodSupport 	ed	Indicates whether the ODN supports periodic sampling for a data logger in periodic recording mod
✓ attributeScopeSupporte	ed The second of	Indicates whether the ODN supports filtering attributes by scope (attributeScop for a data logg in periodic or vendor recording mod

Events

Event Type Description

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✓ 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

Group Management Service

This service provides the mechanisms to define and manage groups

Options

#	Option	Value	Description
~	maximumNumberOfGroups		Maximum number of groups per Gateway

Test Service

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

Objects

Lam	р	ty	pe
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Properties

1 Toportios	
# 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
✓ lowCurrentThreshold	Level of the luminaire RMS supply current under which the ODN shall detect a currentTooLow event
✓ highCurrentThreshold	Level of the luminaire RMS supply current above which the ODN shall detect a currentTooHigh event
✓ lampPowerHighThreshold	The absolute number of watts above which the absolutLampPowerTooHigh event is triggered
✓ lampPowerLowThreshold	The absolute number of watts below which the absolutLampPowerTooLow event is triggered
✓ powerFactorThreshold	The threshold below which powerFactorTooLow event is triggered

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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

✓ startEndFlag If the event denotes either the start or end of a 'special' period, this flag shall be included

or to which this event applies

Command			
Properties	Properties		
# Property	Description		
✓ state	Light state to be applied to the lamp actuator		
✓ reason	Indicates the command was triggered by override, sensor or control program		
✓ cmsRefld	CMS reference, which can be used for data logging		
✓ refAddress	Reference to the source of the command, e.g. sensor or control program		
✓ start	Time when the control action resulting from command shall start. This attribute is used only with override commands to set a time to start an override action. If not specified, the override command starts immediately.		
✓ expiration	Time when the control action resulting from command shall be terminated. This attribute is used only with override commands to set a time to stop an override action. After the expiration of an override command, the system should go back to the state defined by the active control program. If not specified, there is no expiration for the override command.		

Grou	Υ	
Prop	erties	
#	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 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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This Capability List is based on a certification session performed by the TALQ Certification Tool (v2.4.1-update.11) on 2022-11-05 18:24:34.327 +0200.

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