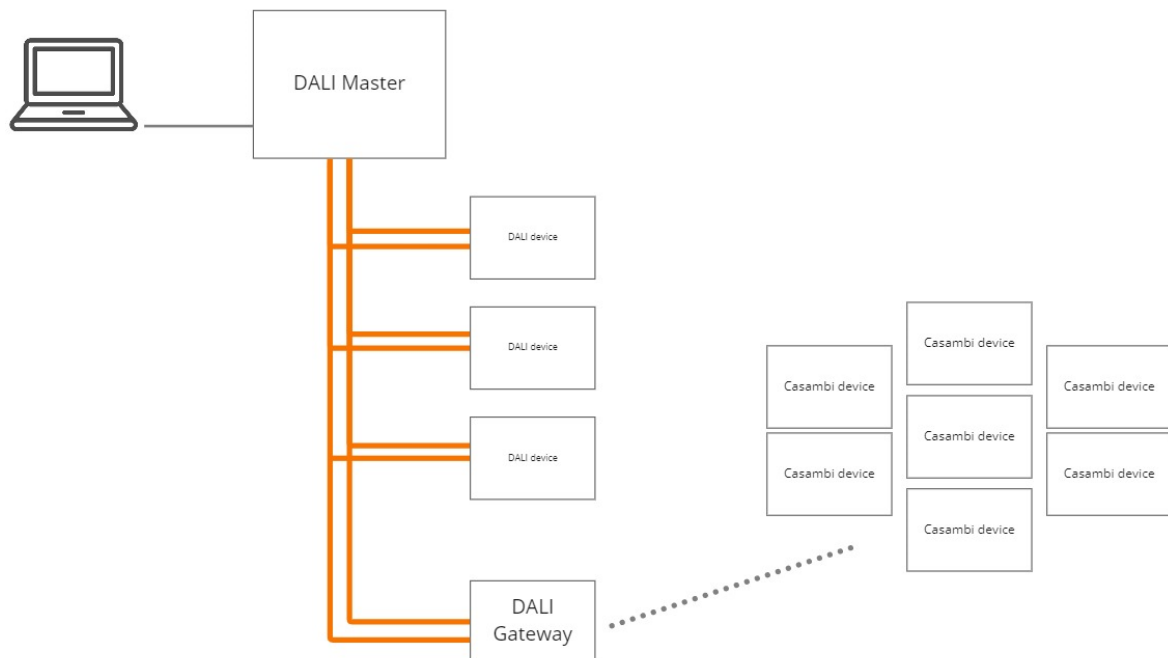


LEDsGO®

What is a Casambi gateway

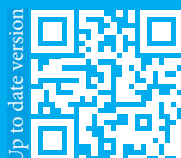
A Casambi gateway is, as it were, a connection between DALI and Casambi. The Casambi gateway makes it possible to expand an existing DALI installation with Casambi.



CBU-DCS + DALI gateway profile

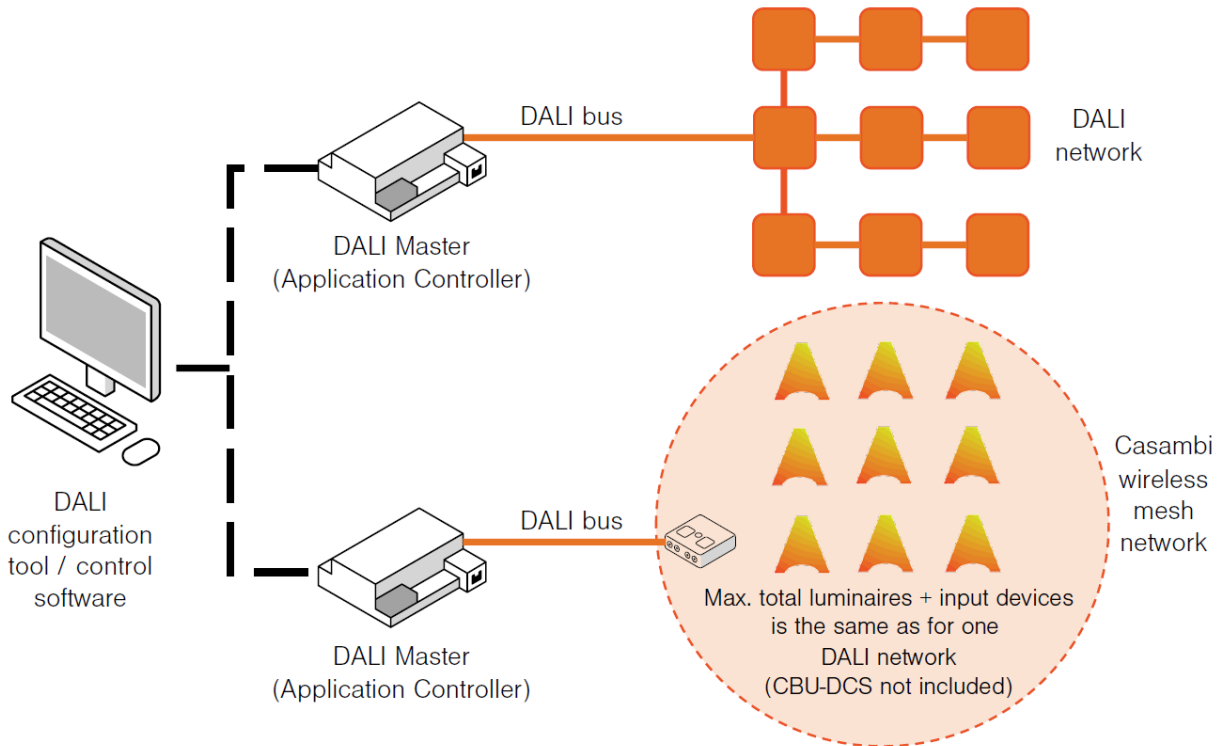
The cbu-dcs is crucial for a dali network to communicate with casambi. The module has a profile that converts the module into a gateway. If you configure the module in the DALI gateway profile, it became possible to:

- Integrate Casambi wireless network with DALI
- Program, control & monitor a Casambi network from DALI
 - Device discovery, Grouping, Scenes...
- Wirelessly extend the 300m maximum DALI wiring distance
- Use DALI with non-DALI devices
 - Casambi enabled devices appear as standard DALI devices to the DALI system
 - Casambi enabled luminaires do not need DALI capabilities
 - Casambi enabled switches & sensors appear as DALI-2 devices
- DALI DT6 (dimming) & DT8 (Tuneable white, RGB, XY) support

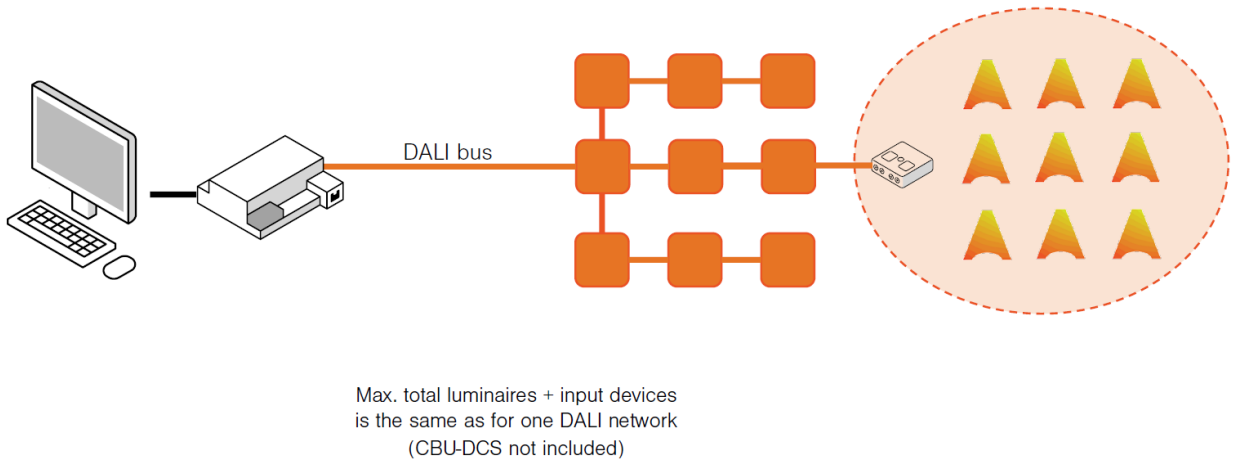


Wire a network with the DALI gateway

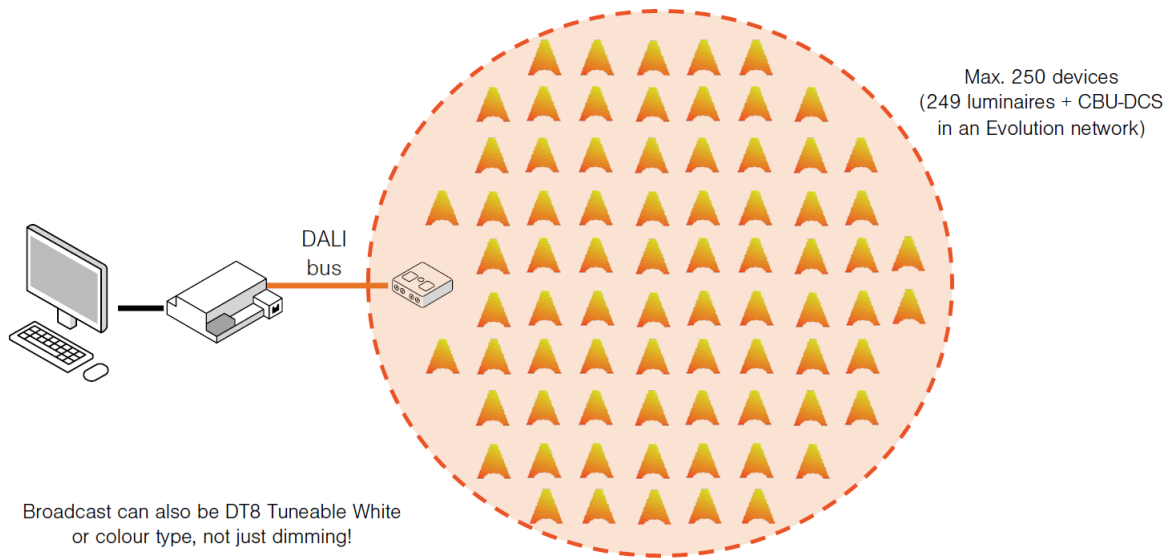
Overview



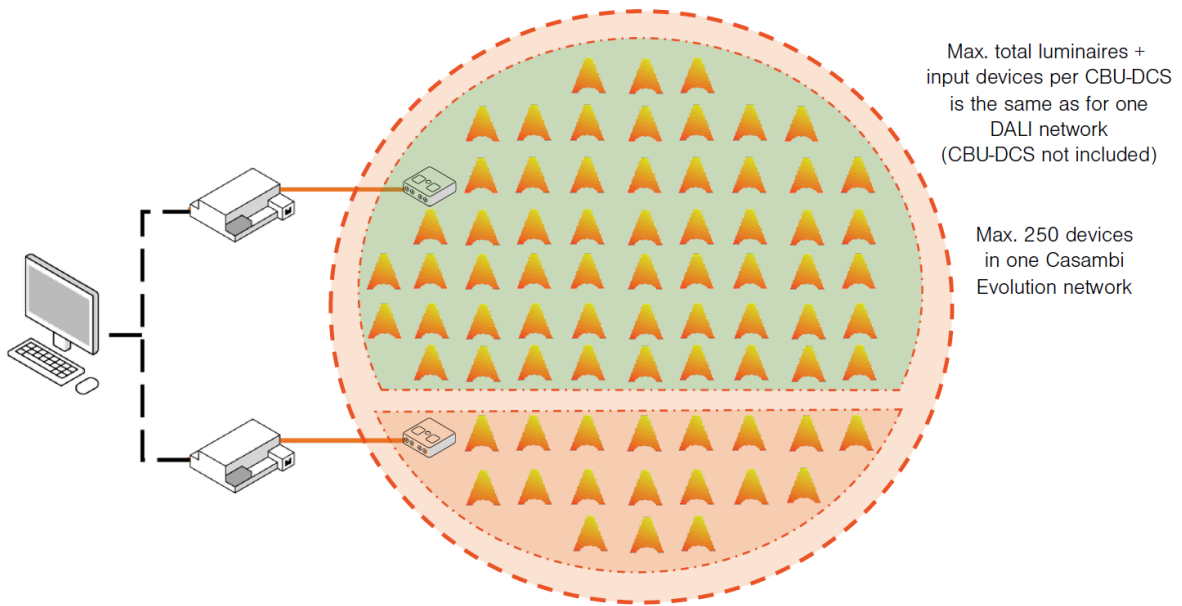
Expand an existing DALI network



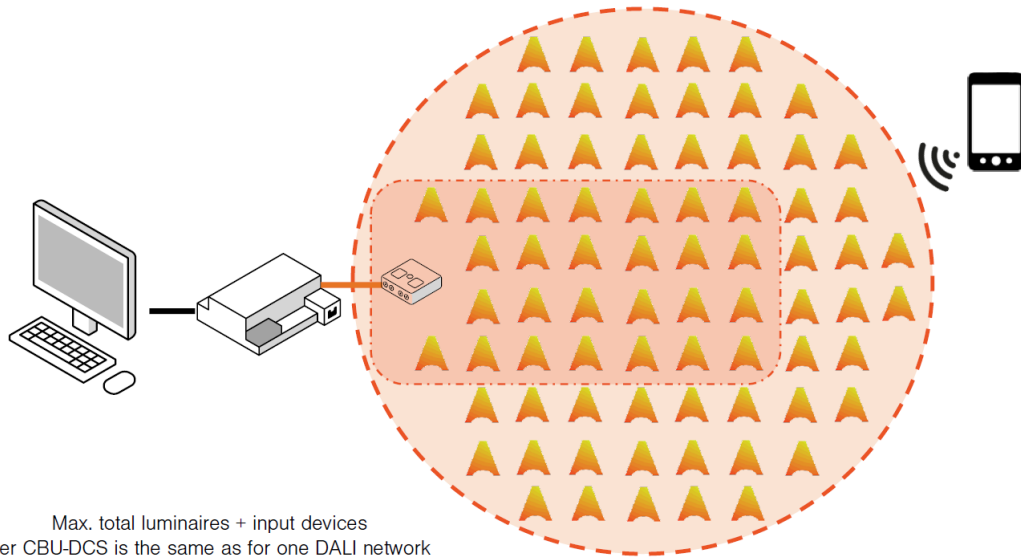
Control a larger Casambi network (1)



Control a larger Casambi network (2)

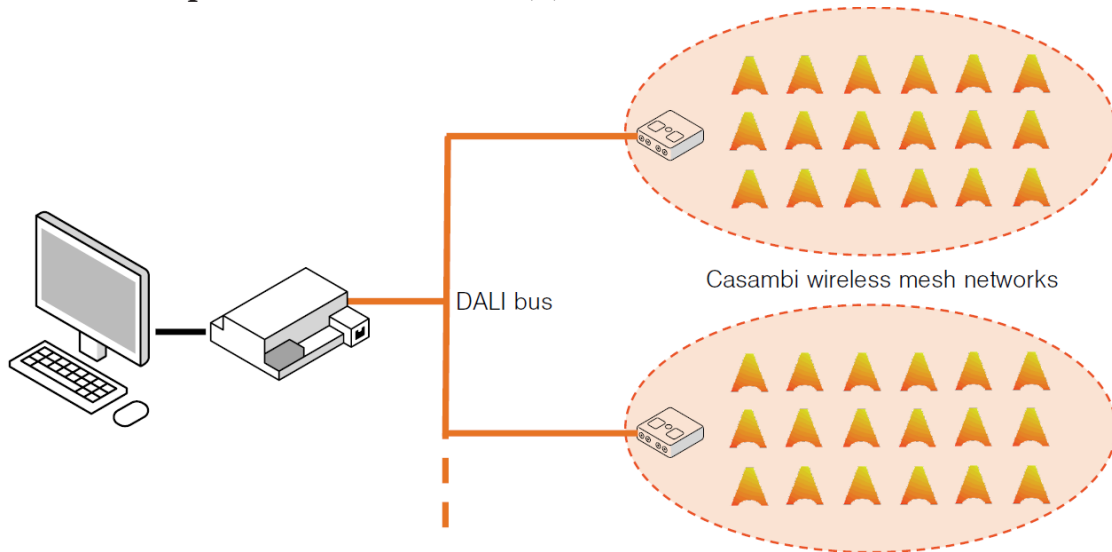


Partial control of a Casambi network

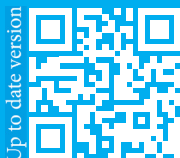


Max. total luminaires + input devices
per CBU-DCS is the same as for one DALI network
(CBU-DCS not included)

Control multiple Casambi networks (1)

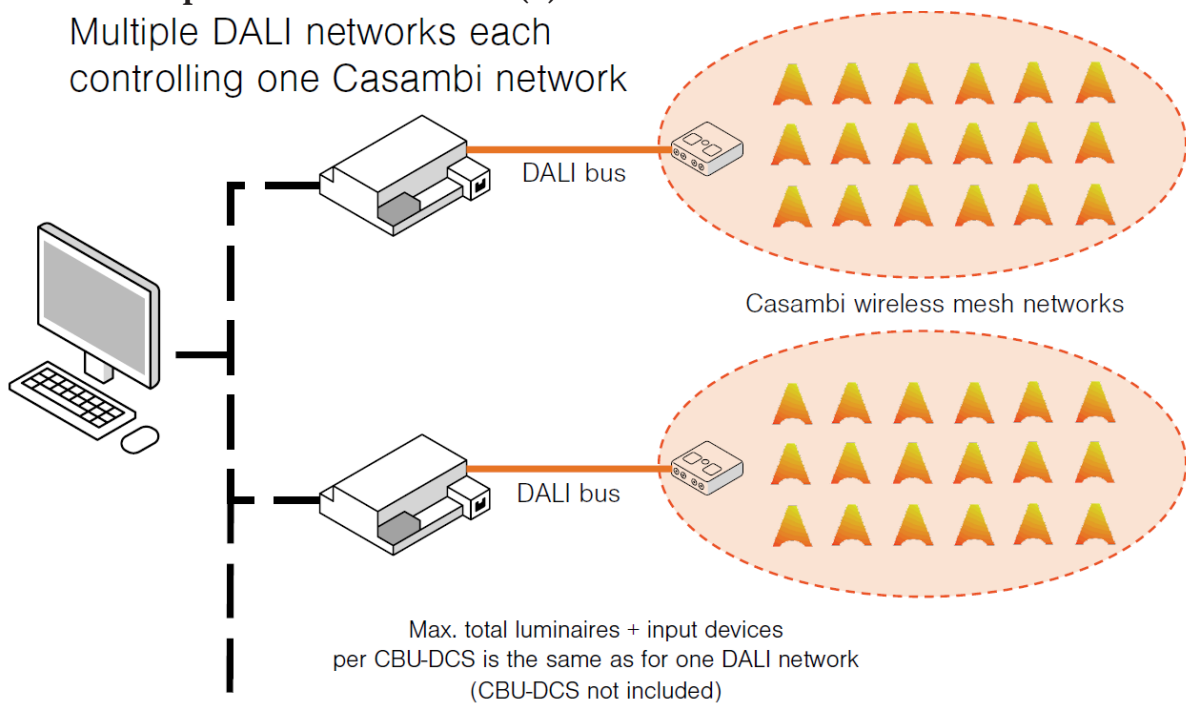


Max. total luminaires + input devices
is the same as for one DALI network
(CBU-DCS not included)

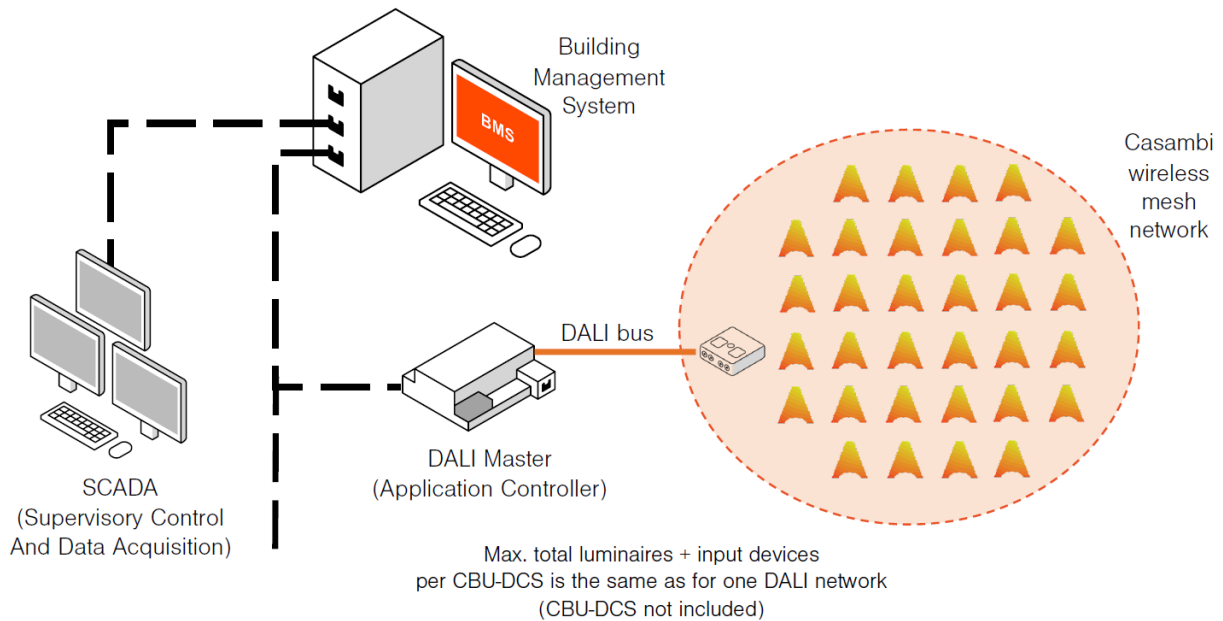


Control multiple Casambi networks (2)

Multiple DALI networks each controlling one Casambi network

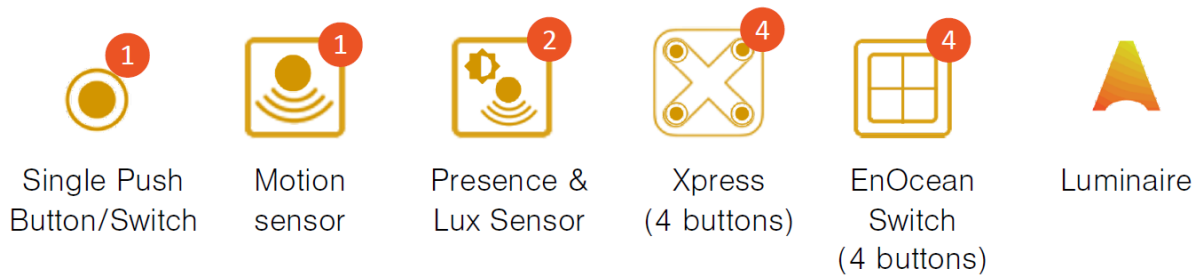


Connect to Building Management Systems

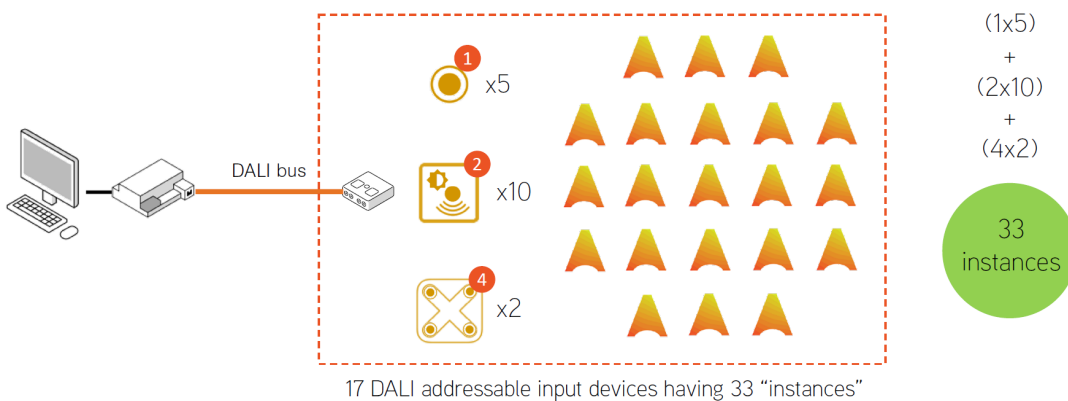


DALI Gateway profile “instance” limitations

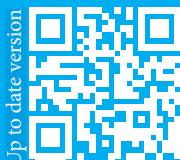
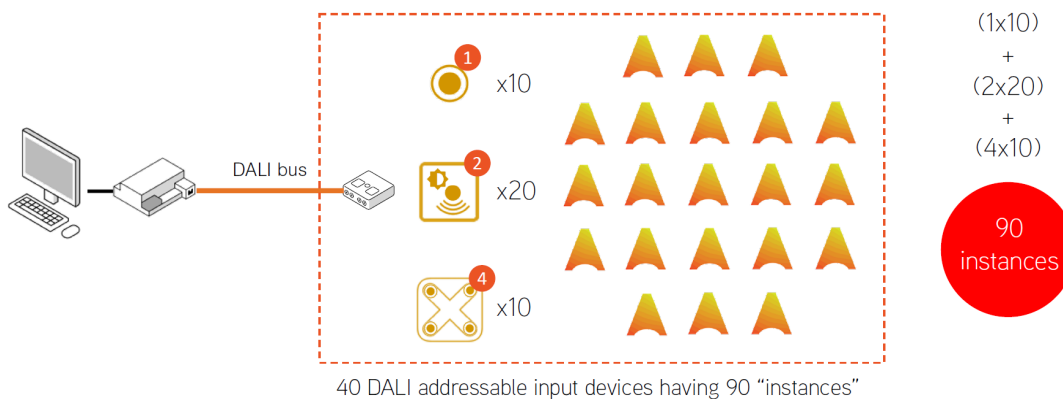
- Support for 80 “instances” from input devices in a Casambi network
 - Input devices are products such as switches & sensors
 - Luminaires do not produce “instances” unless they have an integral push-button, switch or sensor
- An “instance” is the quantity of “sub-devices” included in one main device
- One DALI addressable Casambi network can contain:
 - Up to 64 luminaires
 - Up to 64 input devices (without exceeding the 80 “instance” limit)



Example: 80 instance limit OK



Example: 80 instance limit exceeded

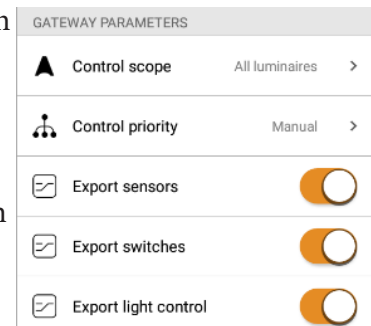


Configuration

- Connect the CBU-DCS to the DALI network
- Create a Casambi network & pair all devices (including the CBU-DCS)
- Configure the DALI gateway in the Casambi app
 - Define the command Control scoop & priorities
 - Enable Export sensors/ switches if sensors & “push-buttons” need to be seen from DALI
 - Enable Export light control if dimmed level changes should automatically be seen by the DALI network
 - Define dimming update parameters
- Program from your DALI configuration software
- (No DALI reprogramming needed if a Casambi device needs replacement at a later date)

Control scope

- Define which devices from then Casambi network have information passed through the DALI gateway to the DALI control software
- The default option is “all luminaires”
- The scope can also be restricted to a single “scene” containing just luminaires to be controlled by the DALI controller software
 - The “scene” is the method to group luminaires so that they can be allocated to a specific DALI gateway



Control priorities

Higher than manual

- Prevent the Casambi system from controlling Casambi devices
 - Casambi devices are only controlled by the DALI controller

Manual (default setting)

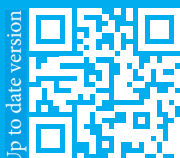
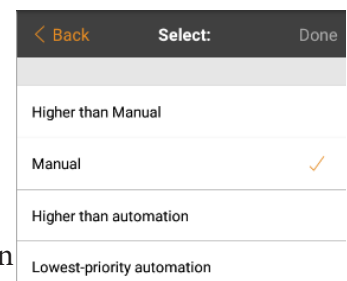
- Allows control by both the DALI controller software & from Casambi

Higher than automation

- Allows the DALI controller software to control lights under automaiton but not those manually controlled from Casambi

Lowest-priority automation

- The DALI contorller only controls lights at the lowest automation level
- Any control from Casambi will override set dimming levels



Parameters

Input dimming curve

- Defines how the dimming curve levels that the DALI system sends to the Casambi DALI Gateway are handled within the Casambi network

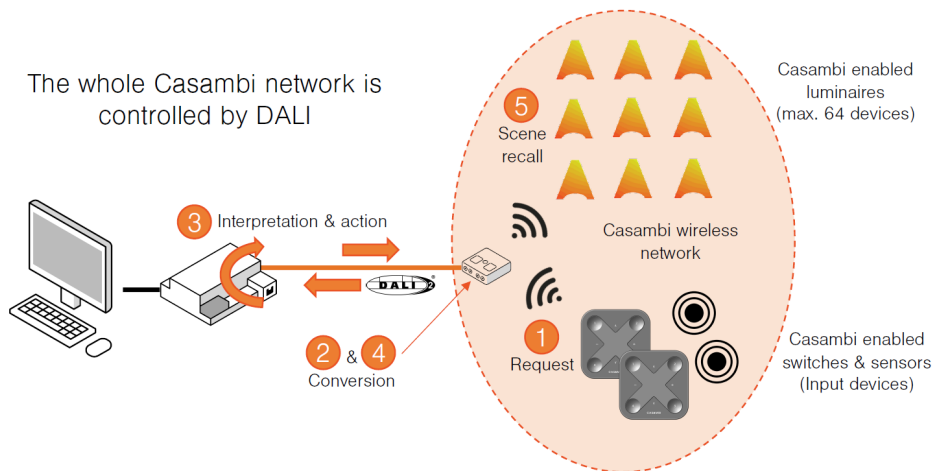
Update actual level

- Defines if changes to luminaire dimmed levels or color that are made by the Casambi network will be visible to the DALI system

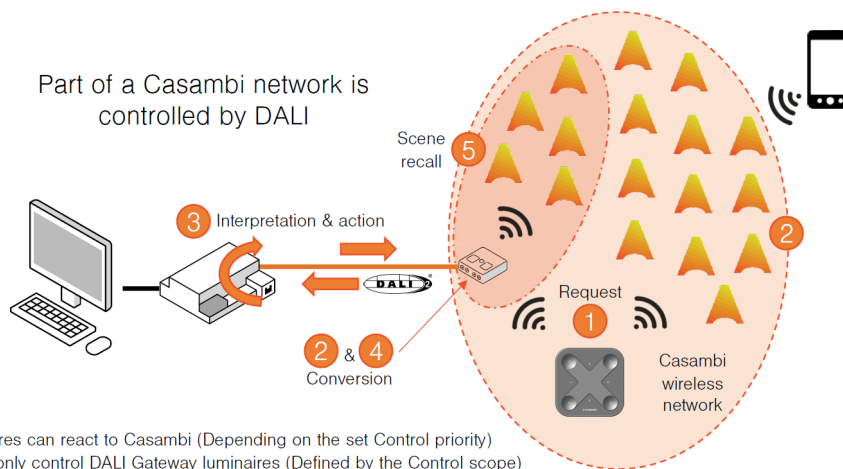
GATEWAY PARAMETERS	
▲ Control scope	All luminaires >
👤 Control priority	Manual >
☑ Export sensors	<input checked="" type="checkbox"/>
☑ Export switches	<input checked="" type="checkbox"/>
☑ Export light control	<input checked="" type="checkbox"/>
☑ Export changes of CCT	<input type="checkbox"/>
PARAMETERS	
Input dimming curve	default >
Update actual value	Yes >

Operation examples

Operation example (1)



Operation example (2)



- All luminaires can react to Casambi (Depending on the set Control priority)
- DALI can only control DALI Gateway luminaires (Defined by the Control scope)

