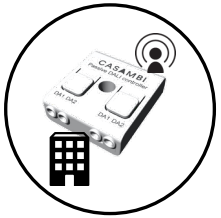
CBU-DCS profile

DALI Gateway

“Enabling wireless DALI networks”

CASAMBI

CBU-DCS with DALI gateway profile



- Integrate Casambi wireless networks 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

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CBU-DCS with DALI gateway profile

- The DALI gateway is invisible to the DALI system
  - No DALI address required
- If desired, the Casambi network can also be used as normal
  - Program one set of functionality for DALI use
  - Program different functionality for the Casambi app
  - Control just from DALI, just from Casambi, or “mix & match”
    - Priorities for DALI commands sent to the Casambi network are defined in the Casambi app
- Multi-channel Casambi units appear as single-channel devices in the DALI configuration software
  - The separate channels can only be individually dimmed from the Casambi app

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Ecosystem of interoperable devices

- Any of the following can be used as part of a Casambi network & as part of a DALI network
    - Casambi ready/enabled devices from the Casambi ecosystem
    - DALI devices from the DALI ecosystem
    - EnOcean devices
    - 1-10V & 0-10V devices
    - Pulse Width Modulation (PWM) controllable LED-strips
    - Phase cut dimmable light sources

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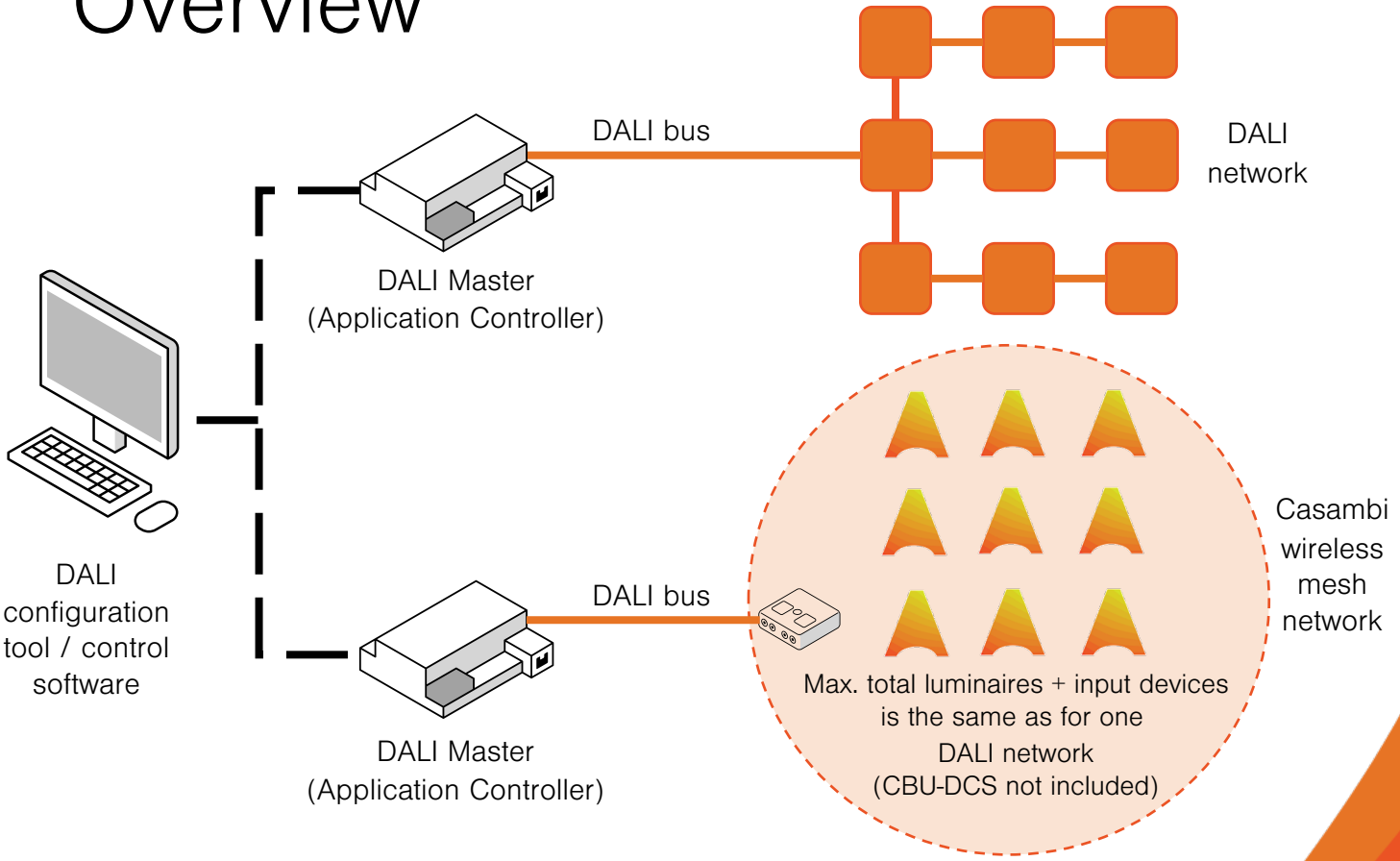
Overview



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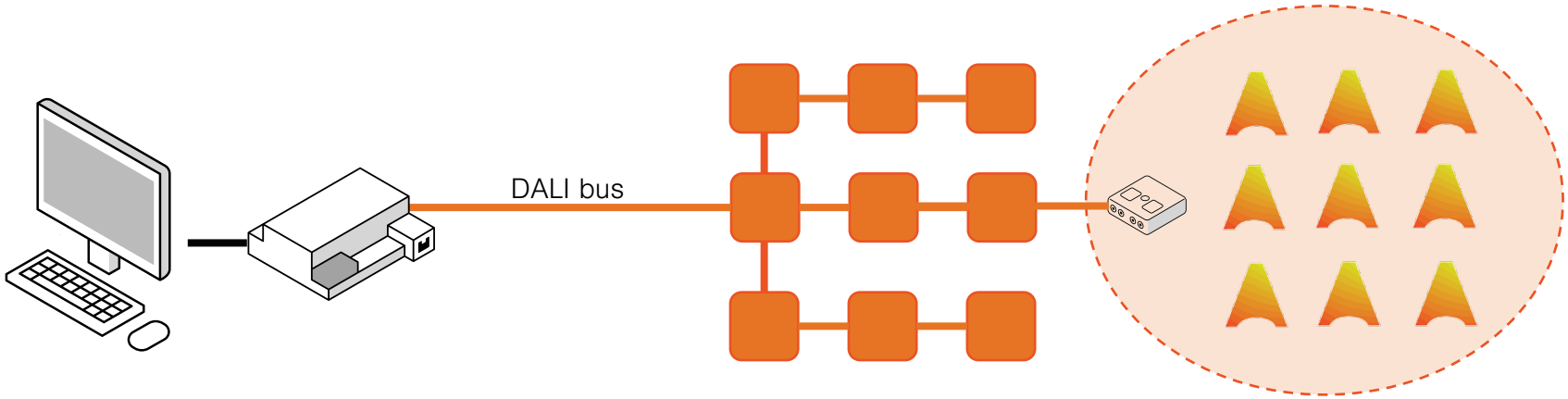
Expand an existing DALI network



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

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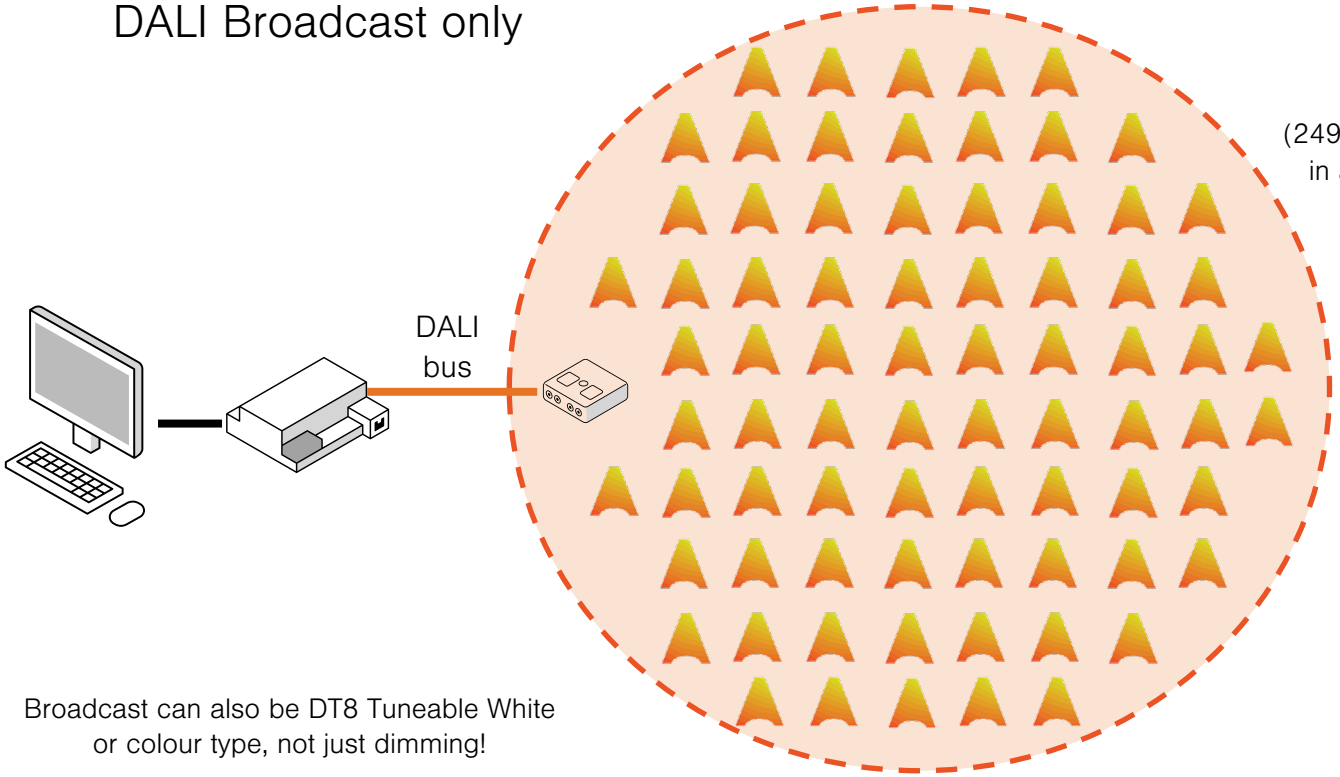
Control a larger Casambi network (1)

DALI Broadcast only



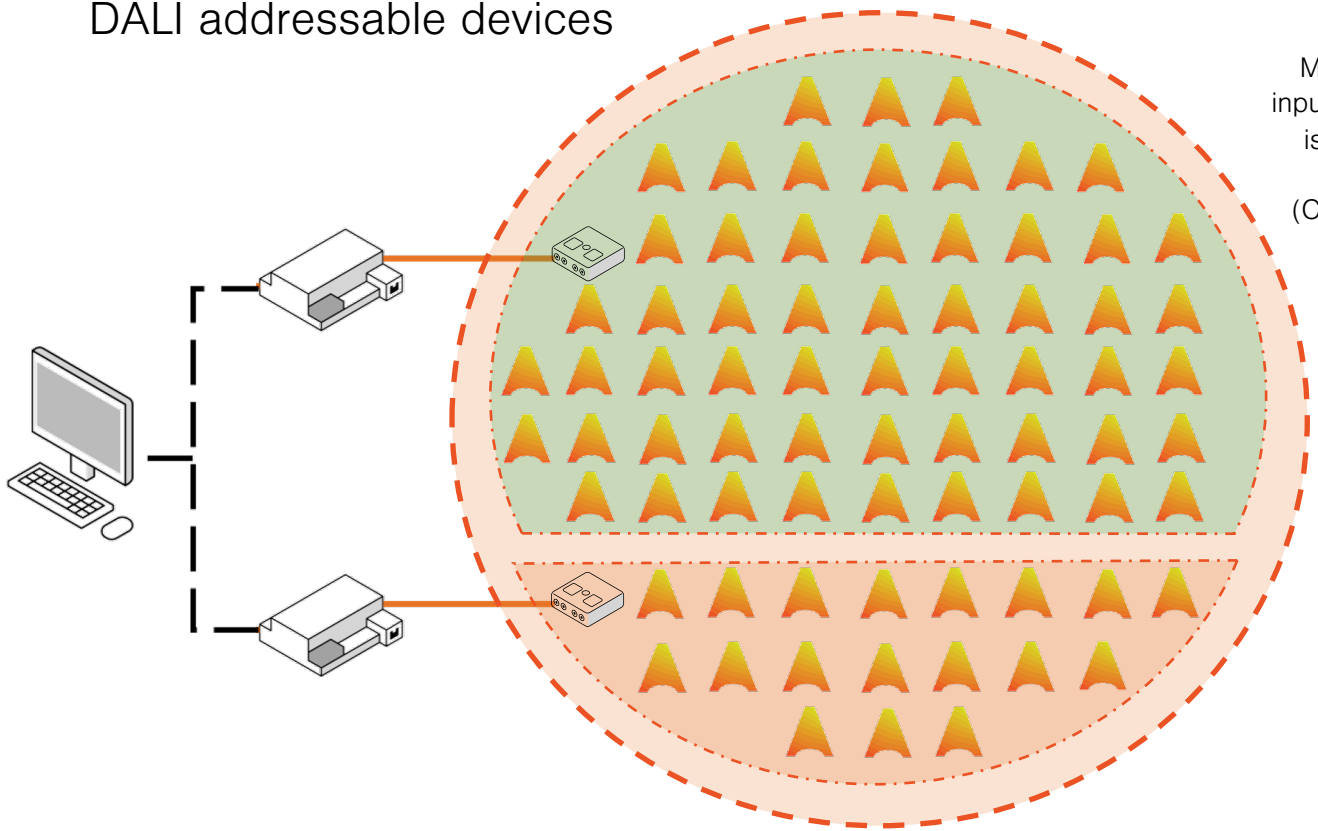
Max. 250 devices
(249 luminaires + CBU-DCS
in an Evolution network)

Broadcast can also be DT8 Tuneable White
or colour type, not just dimming!

CASAMBI

Control a larger Casambi network (2)

DALI addressable devices



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

Max. 250 devices in one Casambi Evolution network

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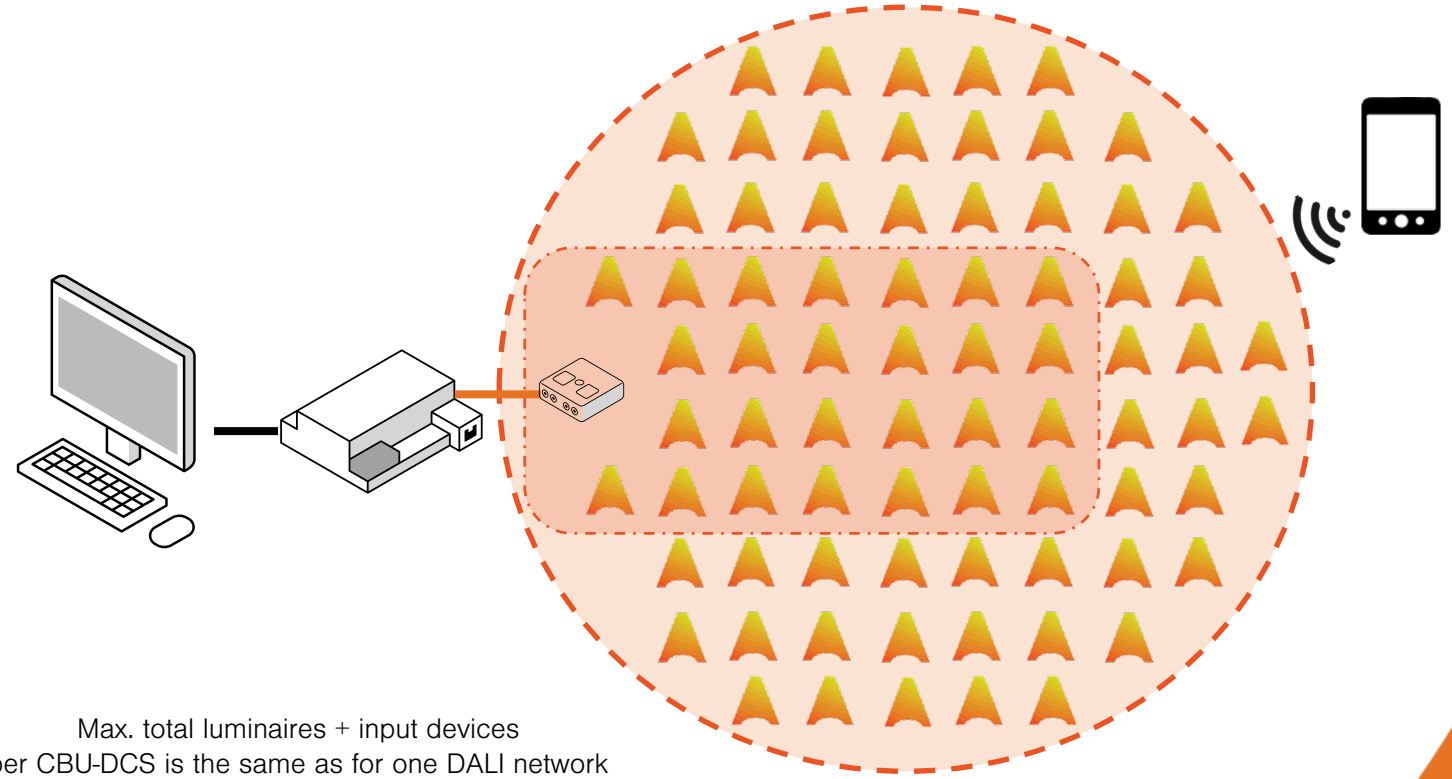
Partial control of a Casambi network

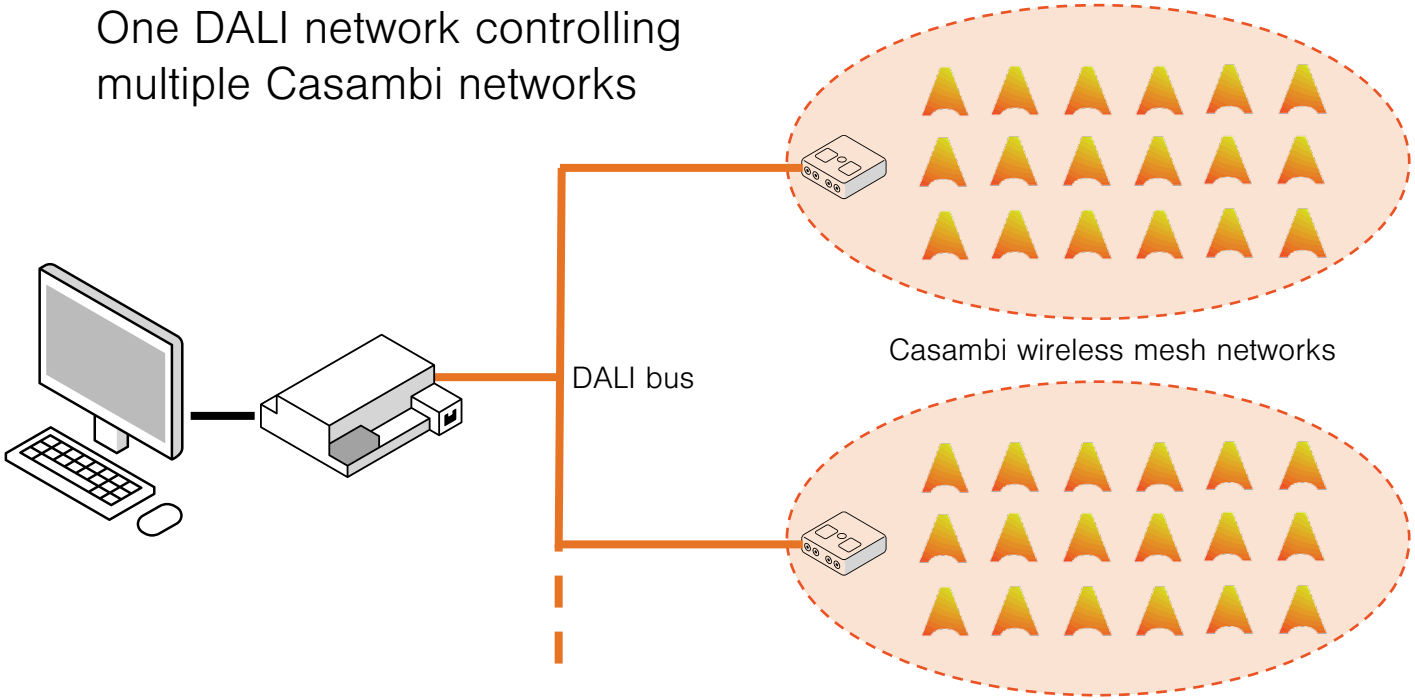


Max. total luminaires + input devices
per CBU-DCS is the same as for one DALI network
(CBU-DCS not included)

CASAMBI

Control multiple Casambi networks (1)

One DALI network controlling multiple Casambi networks

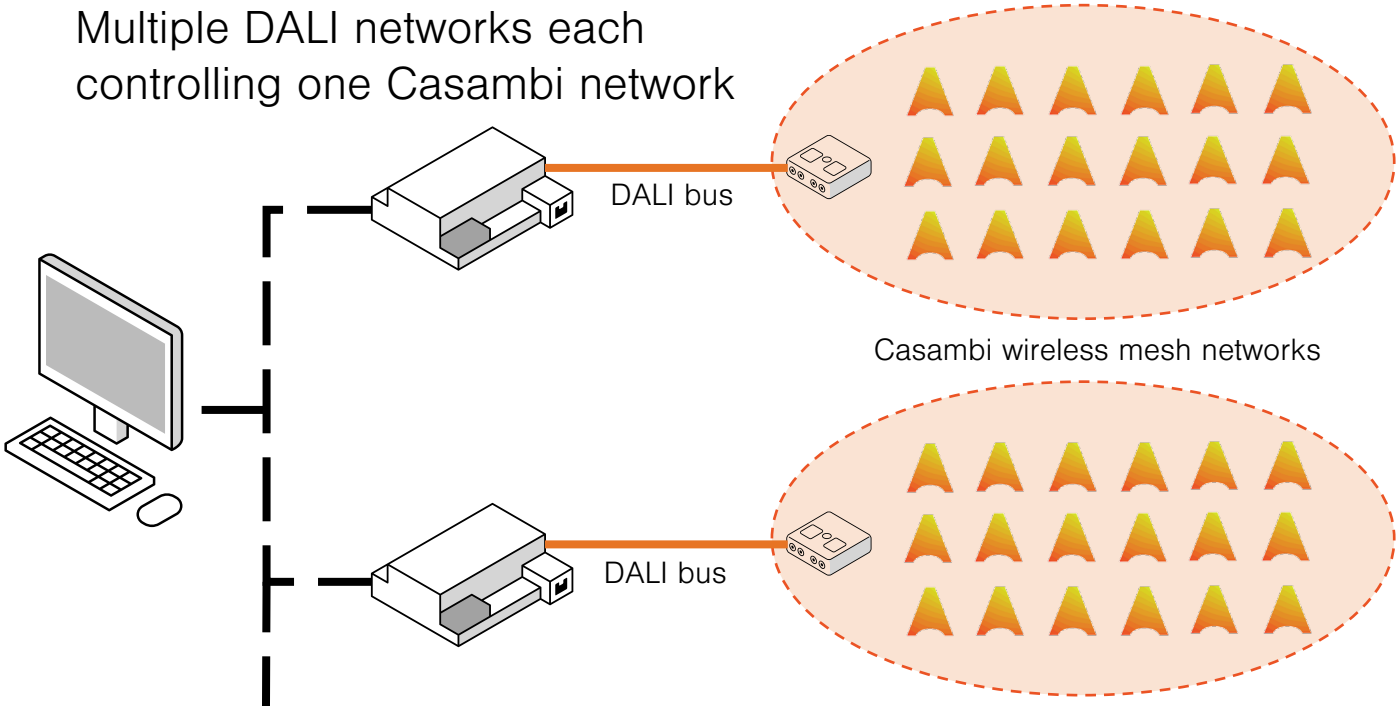


Max. total luminaires + input devices is the same as for one DALI network (CBU-DCS not included)

CASAMBI

Control multiple Casambi networks (2)

Multiple DALI networks each
controlling one Casambi network



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

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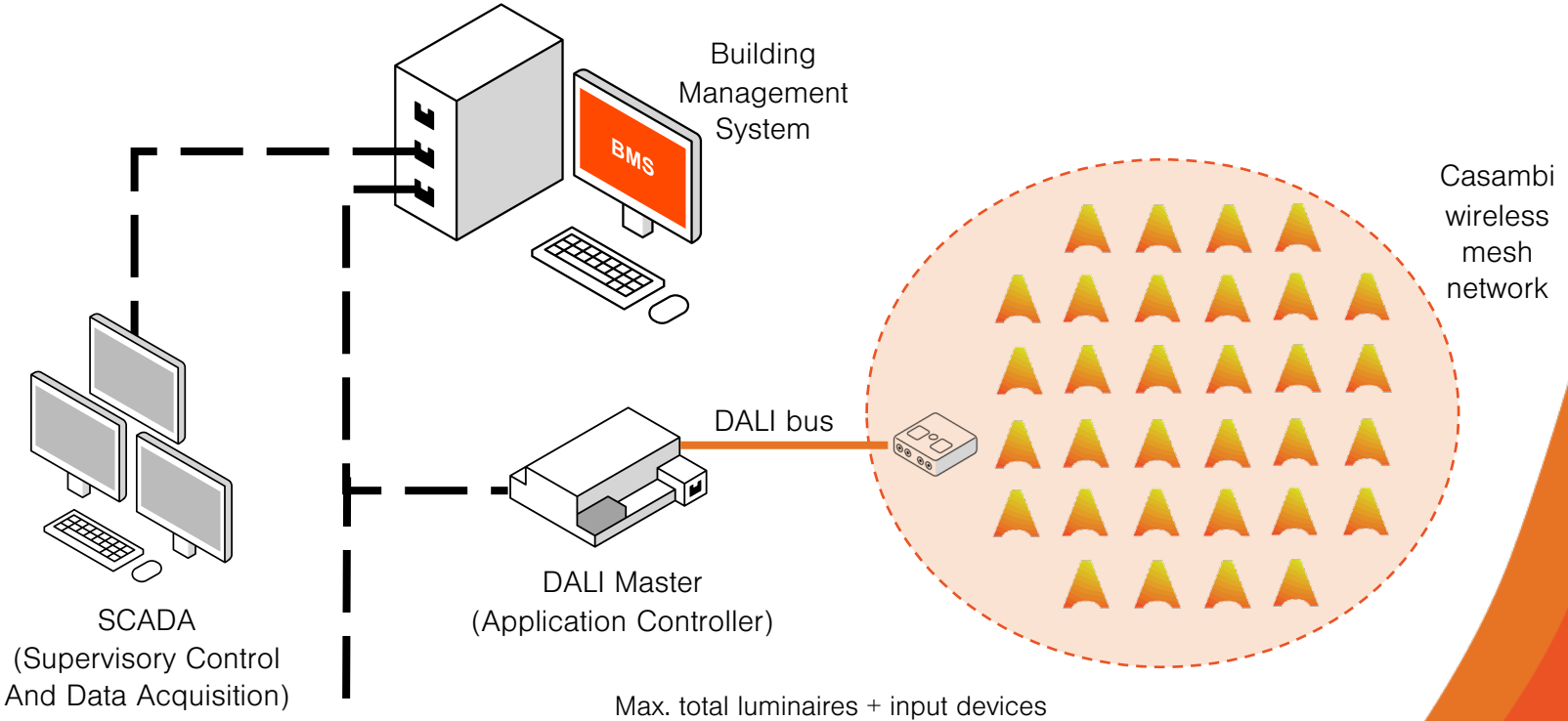
Connect to Building Management Systems

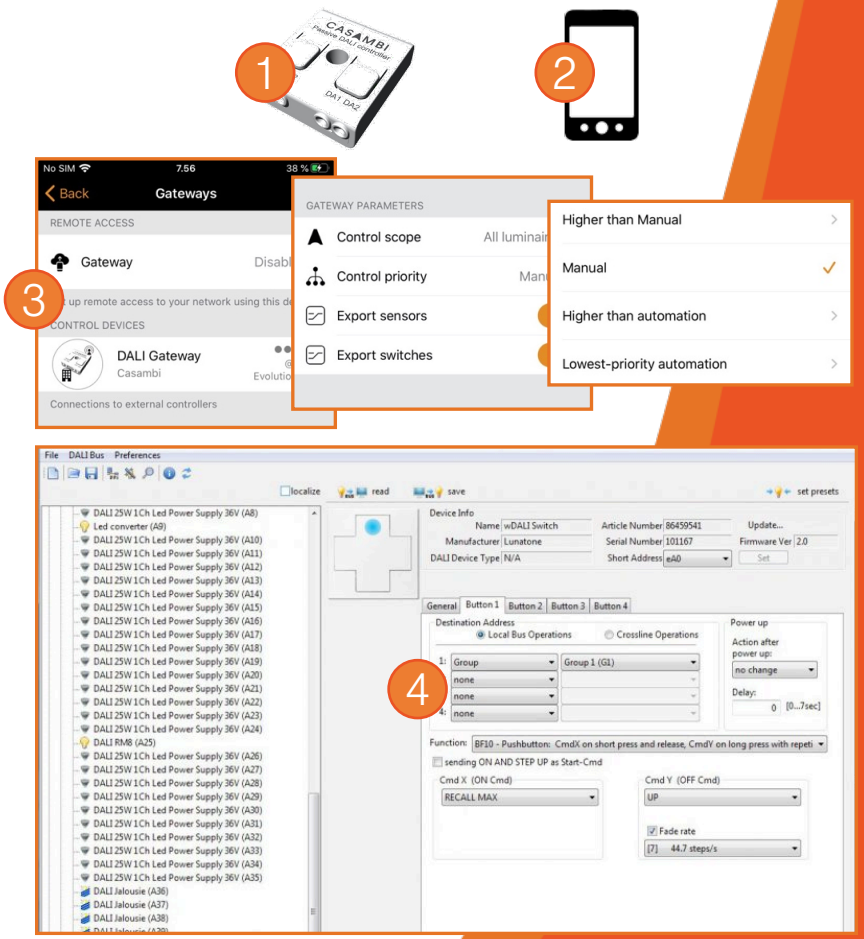


Max. total luminaires + input devices
per CBU-DCS is the same as for one DALI network
(CBU-DCS not included)

CASAMBI

Configuration

- Connect the CBU-DCS to the DALI network
- Create a Casambi network using the app
  - Pair all devices (including the CBU-DCS)
- Configure the DALI gateway in the Casambi app
  - Define the Control scope & Control priorities for commands sent from the DALI system
  - Enable Export sensors / Export switches if sensors & "push-button" devices are to be discoverable from DALI (controller must support IEC62386 parts 301/303/304)
- Program the network from your preferred DALI configuration tool/software
- (No DALI reprogramming if a device in the Casambi network is replaced at a later date)



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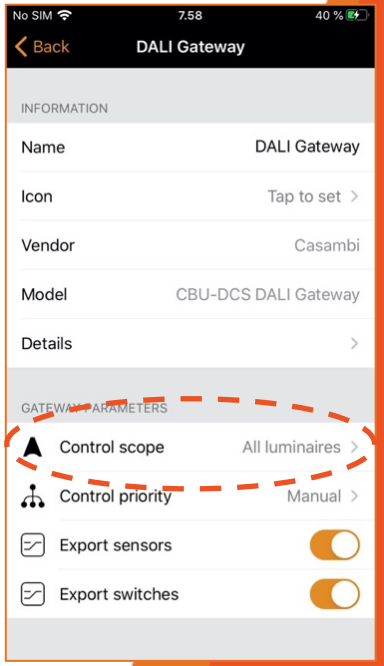
Control scope

- Defines which devices from then Casambi network have information passed though the DALI gateway to the DALI control software
- The default option is “All luminaries”
- 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



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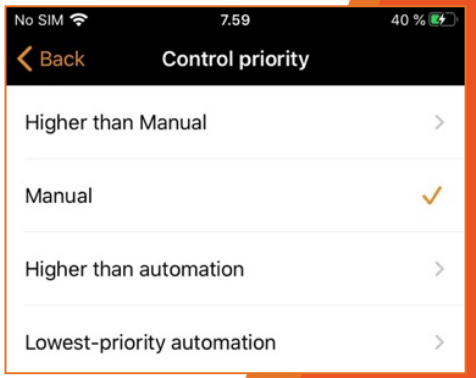
Control priorities



Higher than manual

- Prevents 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 automation but not those manually controlled from Casambi

Lowest-priority automation

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

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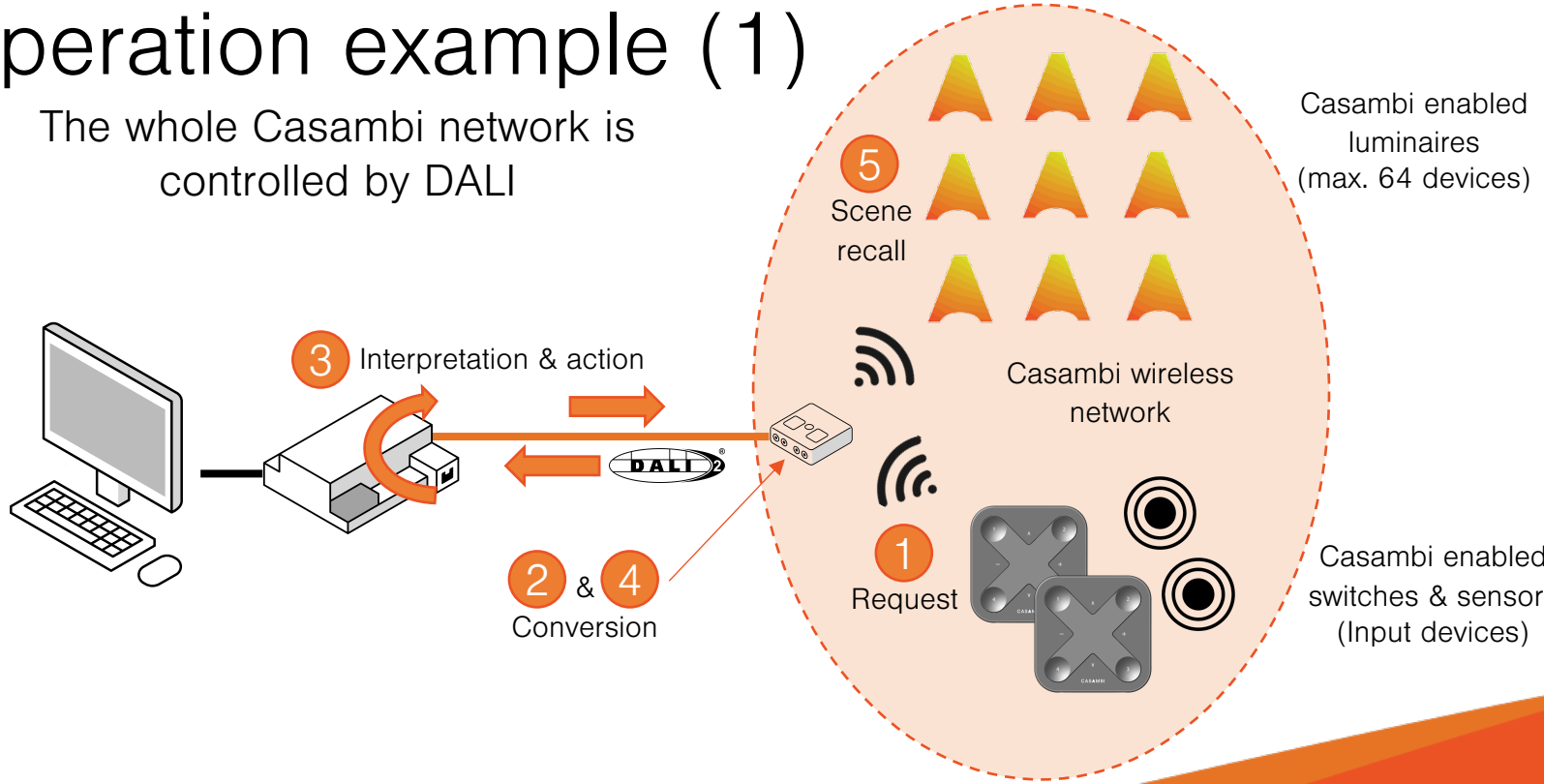
Operation example (1)

The whole Casambi network is controlled by DALI



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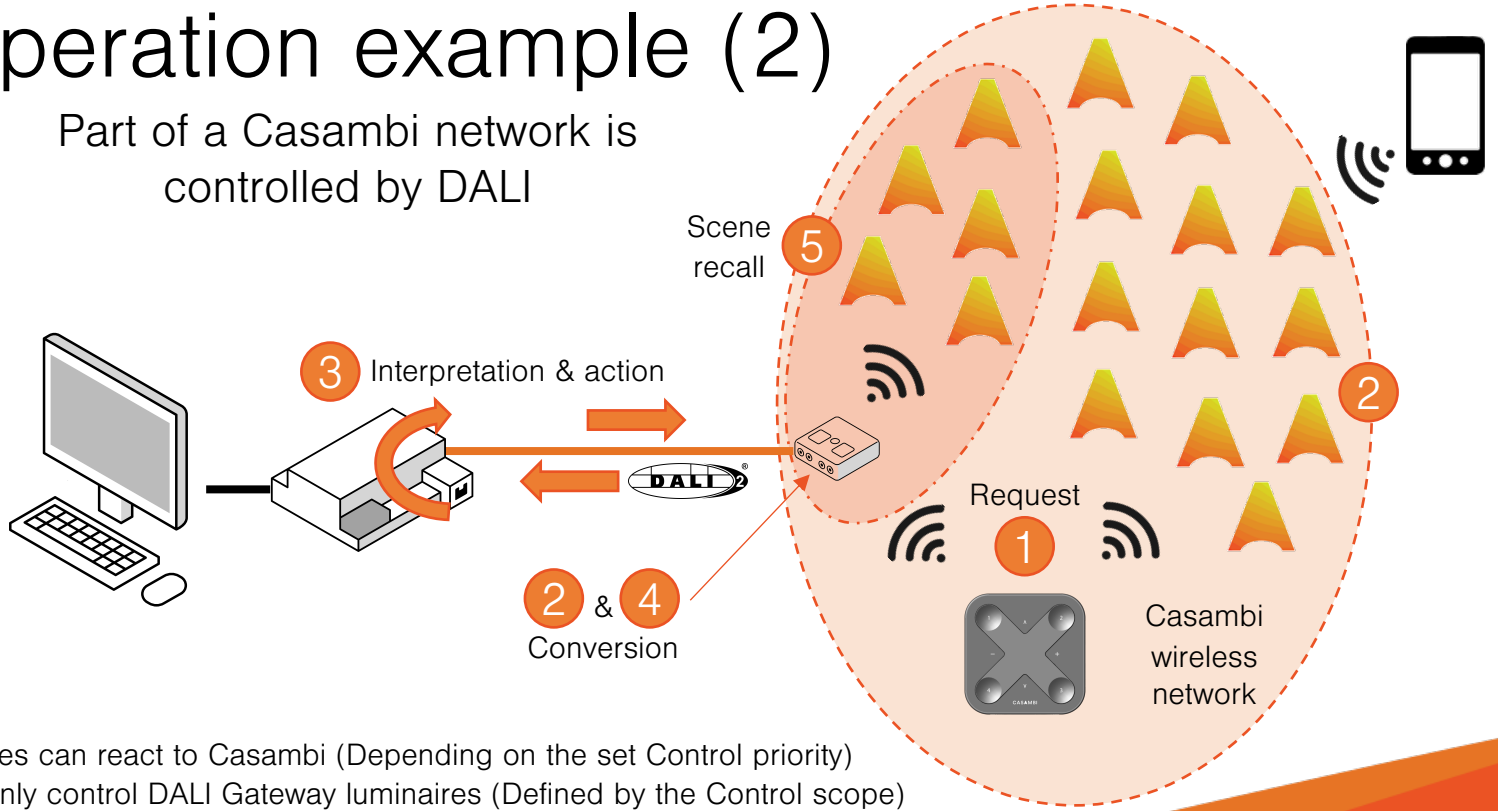
Operation example (2)

Part of a Casambi network is controlled by DALI



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

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