

Highlights



Modern healthcare facilities are evolving from exclusively clinical environments into welcoming, empathic destinations for patients seeking care. This situation has led to a notable improvements toward sensitive environments, such as in hospitals that make better use of space where good lighting is key for the well-being of both patients and staff.

Patient-centric and easy adaptive modularity in lighting systems leave room for capacity enhancements and Casambi ready luminaires allow any future changes without rewiring.

Multi-bed bays and visiting rooms require versatile and well-planned lighting to integrate and zone successfully. The lighting solution should offer the opportunity to easily jump between different lighting scenarios. ie. especially regarding the procedures for medical examinations with the ophthalmologist's slit lamp.

Decorative and technical luminaires in association with a lighting control system can be used to ensure that illuminance levels, brightness and color temperature are always adjusted to suit the current tasks, needs and mood.

Casambi's Bluetooth Low Energy based technology provides lighting designers and manufacturers with the ability to wirelessly link devices together enabling the creation of personalized smart lighting networks that are easily configured and controlled using the Casambi App.

Owner

- Reduced total cost of ownership
- Energy efficient & cost effective
- Simple reconfiguration without disruption
- Building accreditations
- Quick and easy device replacement - no reprogramming
- Remote access
- Flexibility

Consultant & Lighting Designer

- Freedom in product choice & design flexibility
- Versatility and flexibility for all applications
- No complex wiring diagrams

Installer & Commissioner

- Quick & easy to install
- No control cables needed
- Commission via the free app
- Ease of troubleshooting

Patients

- Customized scenes
- Visual comfort & wellbeing
- Task tuning and personalization
- Human centric lighting & customizable circadian profiles

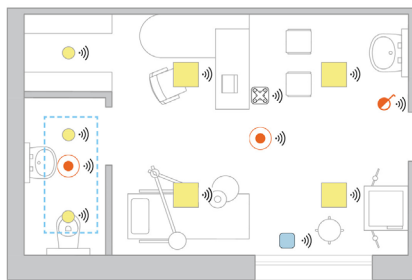
How to read this guide?

Room Type

Solution Type

2. Examination Room

Individual Control



Group control

- Casambi Ready luminaire
- Casambi Ready luminaire
- Casambi Ready wireless switch
- Casambi wireless Xpress switch
- Casambi Ready occupancy and daylight sensor
- Casambi Ready blind controller

Benefits

Multiple scenes and easily adaptable lighting suit various tasks of office work, patient interviews and examination. With the help of Xpress switch, medical examinations that involve a monitor or ophthalmology examinations where special lighting is used both require different light settings that should be easily adjustable by the doctor or staff.

Learn about the products used in the space

Understand how the products are laid out in the space

Understand the benefits

Devices

LUMINAIRE	Casambi Ready luminaire	3	
	Casambi Ready luminaire	4	
SWITCH	Casambi Ready wireless switch	1	
	Casambi wireless Xpress switch	1	
SENSOR	Casambi Ready occupancy and daylight sensor	2	
	Casambi Ready blind controller	1	
APPLICATION	Casambi App on a smart mobile device		

Understand what products would be needed to achieve the strategies

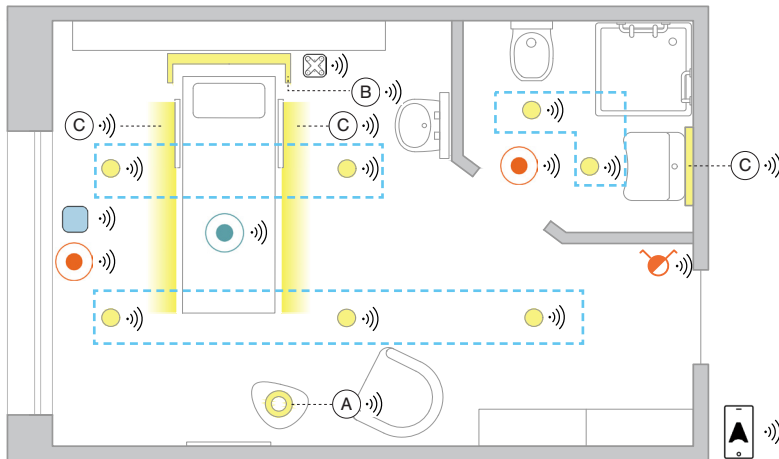
Functionality

Casambi App on a Smart Mobile Device		Occupancy Detection	
Human Centric Lighting		Scenes	

Learn what strategies can be implemented in the space

1. Single Patient Room

Individual Control



Group control

Benefits

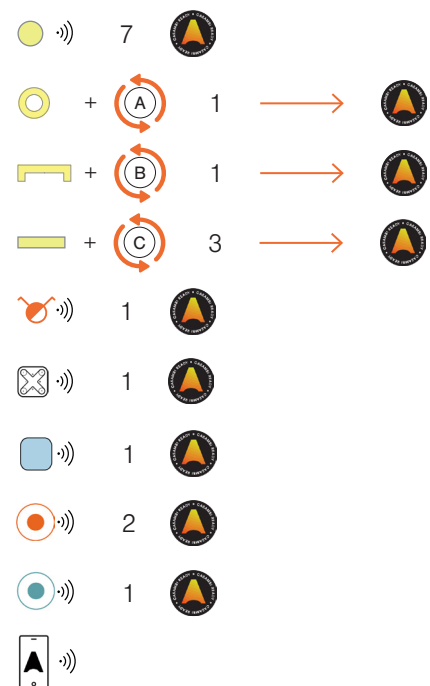
Sensors used under bed can be programmed to turn on LED lights under the bed for easy wayfinding during the night.

Casambi also offers out-of-bed sensor for automatic notification to the nursing station and staff when a patient leaves their bed. We provide full flexibility and adjustability of light sources in terms of color temperature and brightness. It helps patients to adjust them according to their needs.

Devices

LUMINAIRE	Casambi Ready luminaire
	Decorative Lamp
	Hospital over-bed lighting 0/1-10V
	Linear LED with power supply
SWITCH	Casambi Ready 4 button wireless switch
	Casambi wireless Xpress switch
SENSOR	Casambi Ready blind controller
	Casambi Ready occupancy and daylight sensor
	Casambi Ready out-of-bed sensor
APPLICATION	Casambi App on a smart mobile device <i>*Not mandatory for daily use.</i>

- Casambi Ready luminaire
- Decorative Lamp
- Hospital over-bed lighting 0/1-10V
- Linear LED with power supply
- Casambi Ready 4 button wireless switch
- Casambi wireless Xpress switch
- Casambi Ready blind controller
- Casambi Ready occupancy and daylight sensor
- Casambi Ready out-of-bed sensor
- Casambi wireless phasecut dimmer
- Casambi wireless controller 0/1-10V
- Casambi wireless 4-Channel PWM dimmer



Functionality

Casambi App on a Smart Mobile Device



Human Centric Lighting

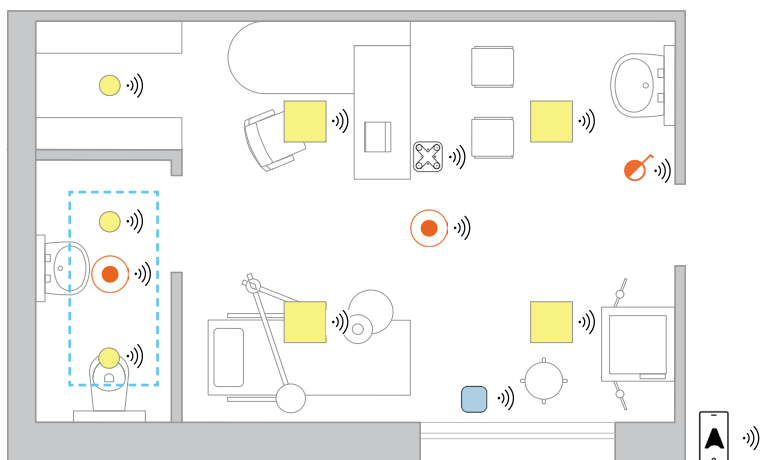


Occupancy Detection



Scenes





Group control

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- Casambi Ready luminaire
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Functionality

Casambi App on a Smart Mobile Device



Human Centric Lighting

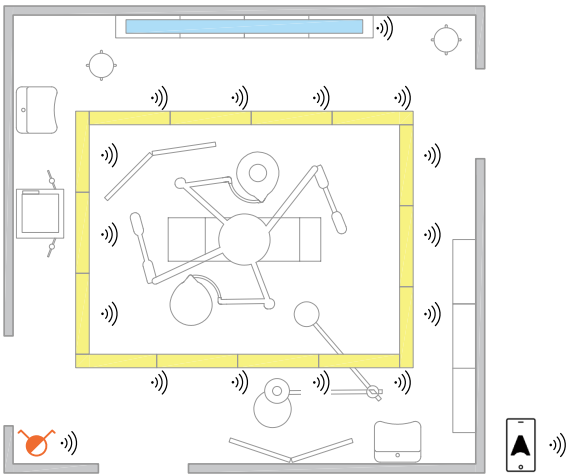


Occupancy Detection



Scenes





- Casambi Ready luminaire
- Casambi Ready luminaire
- Casambi Ready 4 button wireless switch

Casambi networks do not use the standard BLE radio channels, which means it is much less likely that a BLE standard medical device will operate on the same radio channel as a Casambi network and cause interference. In case there is another BLE device within close proximity that is using the adjacent or a similar channel, the radio channels used in the Casambi network can be manually configured from the app to avoid interference.

Devices

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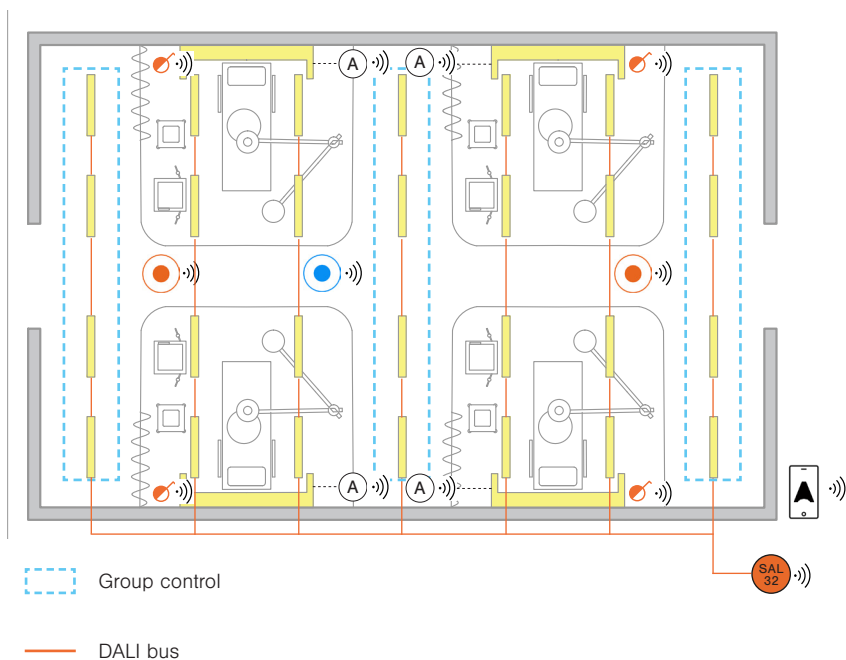
Functionality

Casambi App on a Smart Mobile Device



Scenes





- Standard DALI luminaire
- Hospital over-bed lighting 0/1-10V
- Casambi Ready occupancy sensor
- Casambi Ready air quality sensor
- Casambi Ready wireless switch
- Casambi wireless controller 0/1-10V
- Casambi Salvador 32 DALI Controller

The Casambi Salvador Series DALI Controller offer product versions both with and without DALI supply. Depending on the version used, a power supply for the DALI bus might be required.

Benefits

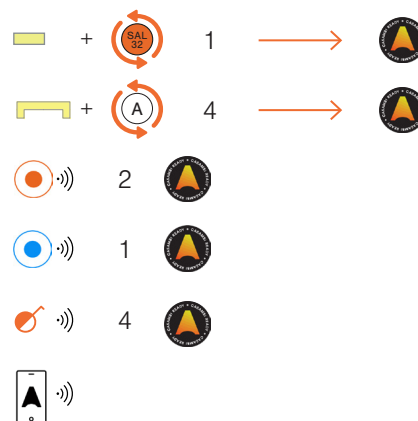
Casambi Application: You can create separate control groups or create new control groups anytime via the Casambi App.

Using Casambi Ready products would be the easiest and most economic option.

Full flexibility: Hospitals today require high modularity in patient rooms, to leave room for capacity enhancements in the future. Casambi ready luminaires allow any future changes without rewiring.

Devices

LUMINAIRE	Standard DALI luminaire
	Hospital over-bed lighting 0/1-10V
SENSOR	Casambi Ready occupancy sensor
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Functionality

Casambi App on a Smart Mobile Device



Calendar and Timer

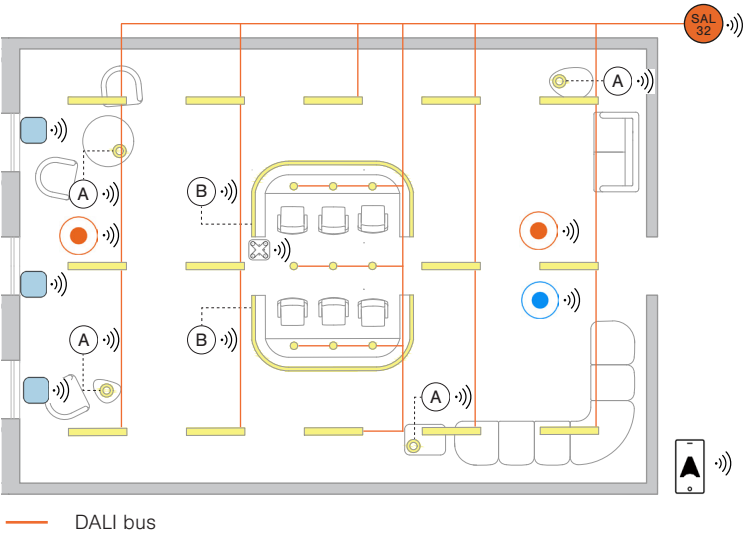


Occupancy Detection



Human Centric Lighting





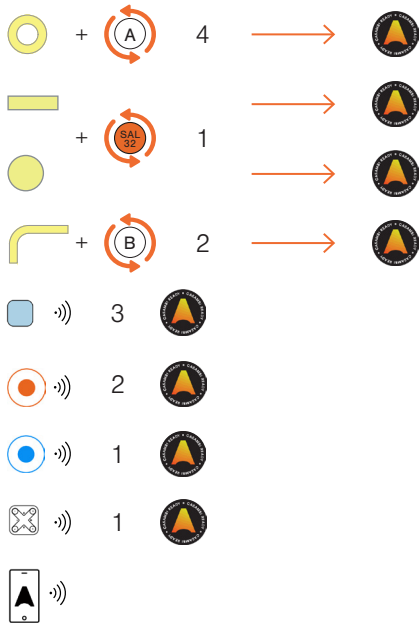
- Decorative table lamp
 - Standard DALI luminaire
 - Standard DALI luminaire
 - Linear LED with power supply
 - Casambi Ready blind controller
 - Casambi Ready occupancy and light sensor
 - Casambi Ready air quality sensor
 - Casambi wireless Xpress switch
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 - Casambi Salvador 32 DALI Controller
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Medical staff working round the clock occasionally suffer from disturbances in sleep-wake rhythms. Human-centric lighting can help to boost alertness and activity levels without causing any damage to health.

Existing wired DALI installations can be converted to Casambi networks with the addition of a Salvador. Each Salvador can control up to 16/32/64 DALI luminaires. Controllers (switches and sensors) shall be Casambi Ready.

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Functionality

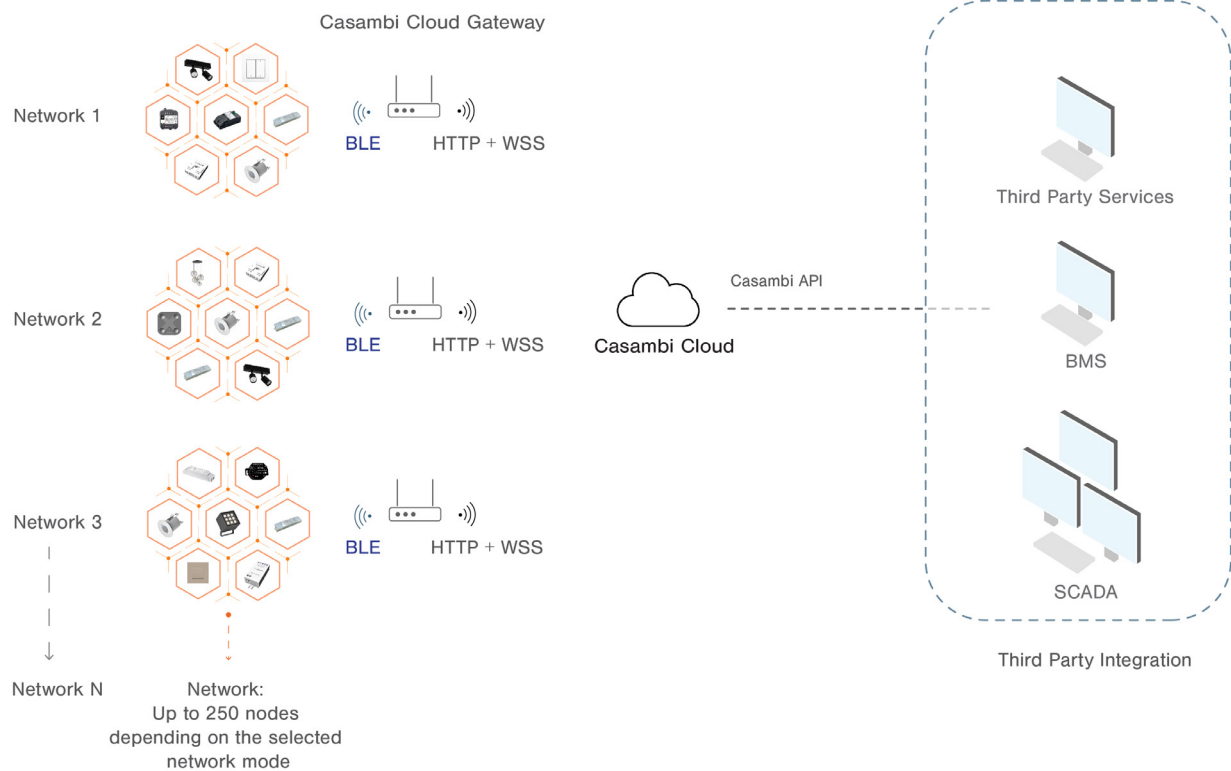
- Casambi App on a Smart Mobile Device
- Occupancy Detection
- Calendar and Timer



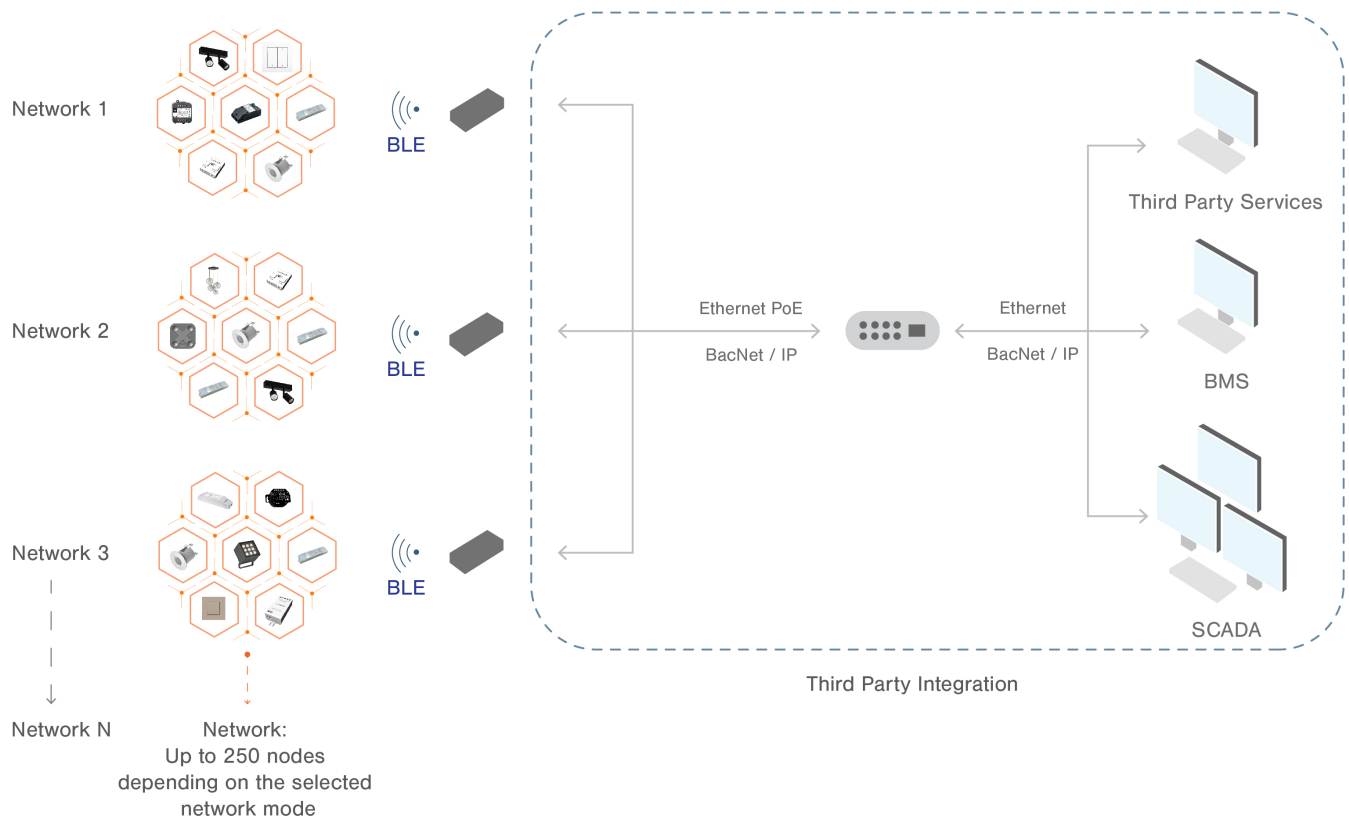
- Human Centric Lighting
- Daylight Harvesting
- Data Analytics



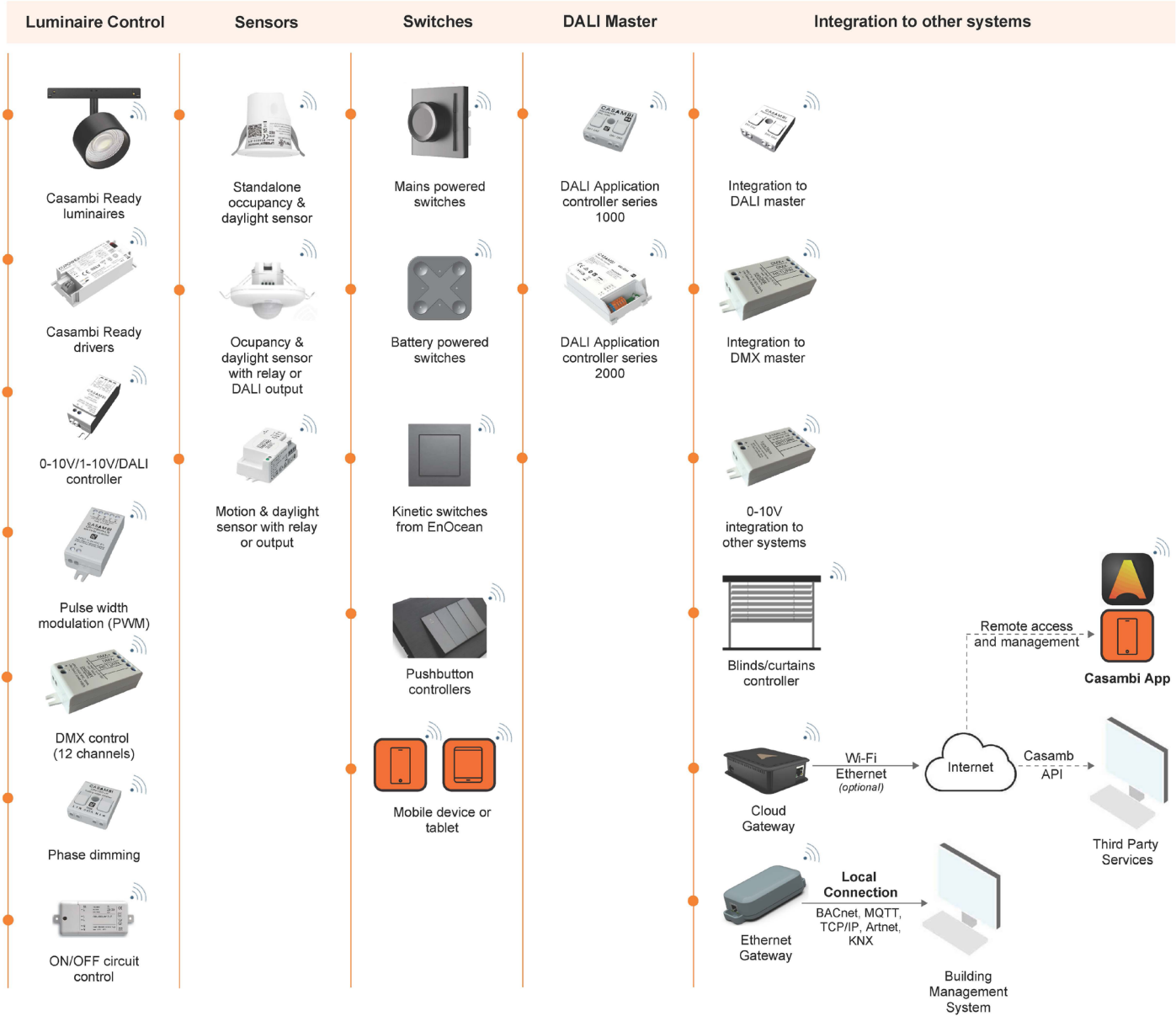
Linking multiple networks with Casambi Cloud Gateway



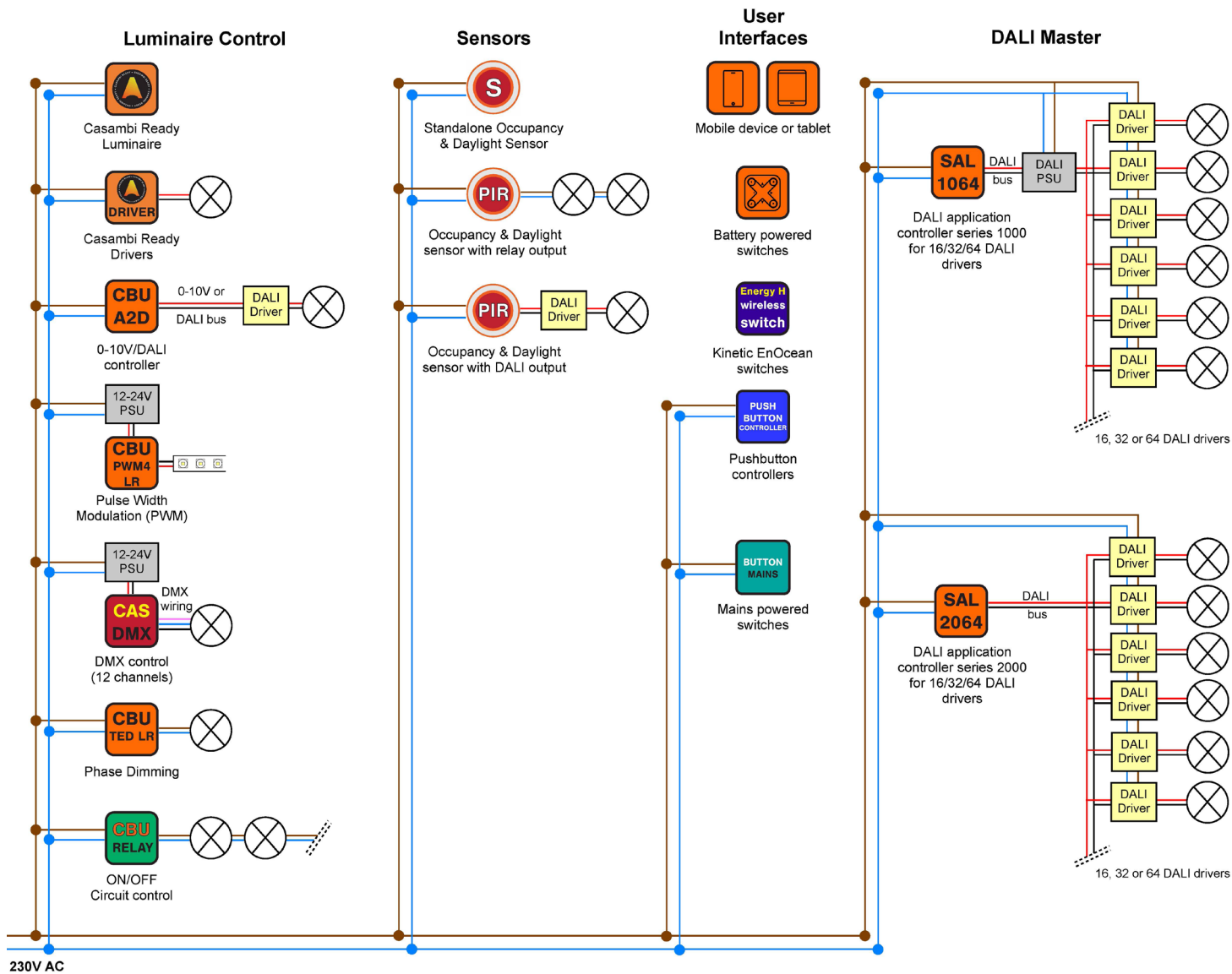
Linking multiple networks locally



Casambi System Diagram



Casambi System Diagram



Casambi System Diagram

Integration to other systems

