### S4i INTEGRATION BROKER - COM-CAS-S4iETH-XAPI

# COMMERCIAL CASAMBI to 3rd PARTY SYSTEM INTEGRATION with S4i ETHERNET ENABLED Gateway + S4i IB + XAPI (local control only - no Casambi Cloud Service)

#### **S4i INTEGRATION BROKER (IB)**

• S4i Integration Broker is a licenced software application, installed on a Host processor of your choice, to provide interactions between independent applications at the application-logic level. The Broker, with appropriate licences can facilitate a number of different integrations simultaneously. No proprietary hardware, BYOD, multi-platform and zero code.

#### **COMMERCIAL - CASAMBI to 3rd Party Control System INTEGRATION using XAPI**

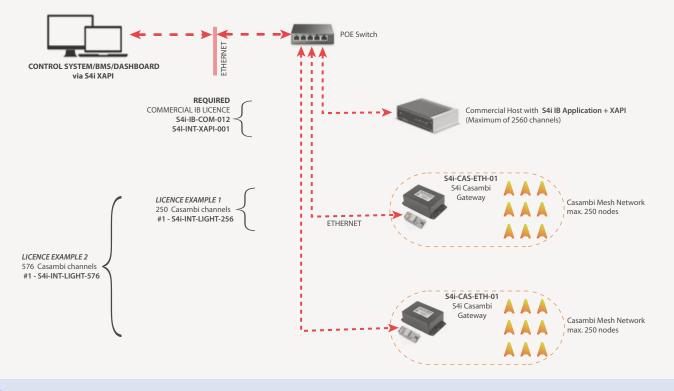
- Provides seamless control system integration with Casambi lighting network via an S4i ETHERNET enabled Gateway, an S4i IB and S4i XAPI Application Interface
- Ethernet enabled gateways can be remotely located up to max. of 90m from the S4i IB Note a POE switch to support the POE Ethernet adaptor is required
- Integration provides local bi-directional control of Casambi lighting with accurate channel status
- The solution does not rely on Casambi Cloud services to operate No permanent Internet connection is required for control operation
- Licence activation and renewal requires an Internet connection
- Auto-mapping requires a temporary connection to Casambi cloud sevices only

Note the Casambi App can operate Casambi lighting simultaneously with IB XAPI integration with correct status updates. The benefit of this solution can be seen when high security is required and permanent Internet connection is not possible, or as a fail-safe method of maintaining control of Lighting if Internet connections are unreliable

## TYPICAL COMMERCIAL IB and LICENCE USAGE for

CASAMBI to 3rd Party Control Systems with S4i Casambi ETHERNET ENABLED Gateway + S4i XAPI

supports 12 Integration Licences and up to 2560 Lighting channels





#### **REQUIREMENTS**

- IB Licence for Host processor (Commercial IB Licence supports up to 12 Integration licences (#1, #2, #3 --- #12)
- S4i XAPI Licence for API
- Lighting Integration Licence/s to the total number of channels for Casambi (Maximum of 2560 Lighting channels supported)

#### LICENCING

- Select Commercial IB Licence for this Solution
- Select Lighting licence to the nearest number of TOTAL channels required for both CASAMBI systems
   Note RGBW requires 4 or 5 channels (RGBW+dim or HSV+dim) to operate and TW (Tunable White) requires 2 Channels (TC+dim)

NOTE: DO NOT EXCEED the total number of Integration Licences available in the IB Licence (max. 12)

#### INTEGRATION LICENCE OPTIONS **TYPE** S4i-IB-COM-012 COMMERCIAL IB Licence - supports up to 12 Integration Licences S4i-INT-XAPI-001 3rd Party Control Integration API - S4i XAPI Licence S4i-INT-LIGHT-064 Lighting Integration Licence - supports up to 64 channels S4i-INT-LIGHT-128 Lighting Integration Licence - supports up to 128 channels S4i-INT-LIGHT-256 Lighting Integration Licence - supports up to 256 channels S4i-INT-LIGHT-576 Lighting Integration Licence - supports up to 576 channels S4i-INT-LIGHT-1280 Lighting Integration Licence - supports up to 1280 channels S4i-INT-LIGHT-2560 Lighting Integration Licence - supports up to 2560 channels

#### **CONTROL FUNCTIONS**

- · Lighting control functionality is dependant on;
  - a) Casambi internal capabilities
  - b) Gateway used to connect the IB
- Please refere to S4I Gateway Function Matrix datasheet for more details details

#### **RECOMMENDATIONS:**

#### **Commercial Host processor**

- Intel NUC 8 RUGGED FANLESS, CEL-N3350+, 8GB-16GB, 64GB Win10 IoT Enterprise 2019 LTSC
- TBOX-12310 Industrial Intel Celeron J1900 fan-less Box PC, 8GB-16GB, Win10 IoT Enterprise 2019 LTSC
- Apple Mac Mini M1 8GB
- CPU: X86\_64, 4+ Cores, RAM: 8GB+, SSD: 256GB+ Win10 IoT Enterprise
- CPU: X86\_64, 4+ Cores, RAM: 8GB+, SSD: 256GB+ AlmaLinux OS® 8.5 software (64-bit version) or greater

#### **Required Gateways and Hardware**

- S4i ETHERNET Enabled Casambi Gateway supports up to 250 Casambi channels
- PoE Ethernet Data Communication Module
- Suitable POE Ethernet Switch

#### **CONDITIONS:**

- S4i Integration Broker (IB) Solution is a <u>software solution only</u>
- Sourcing and purchasing of recommended hardware is the sole responsibility of the integrator
- S4i only recommends hardware that has been tested
- S4i takes no responsibility for IB Solutions running on unrecommended hardware
- S4i does NOT provide support for the design, setup, configuration or operations associated with;

Casambi hardware & networks

Dali hardware & networks

Dynalite hardware & networks

Ethernet hardware & networks

