

Lighting System Integration Topology

Project: **5**

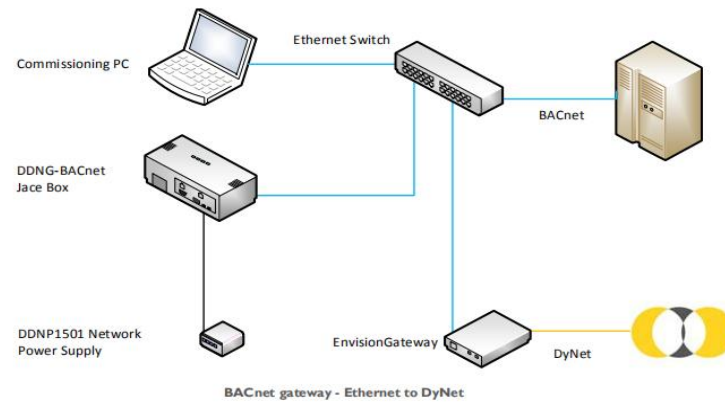
Part 1: Number of Devices to be integrated

Device	49F	53F	55F	Subtotal
1. DALI Devices:				
DDBC320-DALI	1	2	2	5
DDBC120-DALI			1	1
DALI Net Channel	3	6	7	16
DALI Lamp	TBD	TBD	TBD	TBD
2. Dyalite Devices				
DDRC1220FR-GL	1	4	3	8
DDRC420FR			1	1
DUS360CR	6	39	48	93
PA6BPA	3	16	19	38
3. Gateway Planned				
Philips DDNG-BACnet Controller		1		1
Philips PDEG – Ethernet Gateway	1	1	1	3

Notes:

- The phase I plan is to integrate and keep the points in Read type.
- The lighting system points incl:
 - Sensor lux value & occupancy
 - I/O channel status
 - Ballast/device status
 - Scene number per area
 - Any points that are supported by Philips DDNG-BACnet gateway

Part 2: System Topology



Notes:

- Philips JACE8000 running Niagara Framework & its Philips Dyalite license are required.
- All floor Dyalite devices will be lined up to Floor level Philips Envision ethernet gateway.
- JACE8000 will integrate data points from floor envision gateway via lighting ethernet work.
- Simple Web GUI to be developed in JACE8000, i.e. area light status, occupancy & lux level, alarm, history, etc.
- The JACE8000 has two ethernet ports. One could be connected into client's intranet and one for lighting network.
- The JACE8000 can be further integrated into clients Niagara supervisor at its HQ so that critical alarms can be well routed and monitored.
- Other devices such as electric meters or IT data center SNMP devices (UPS, CRAC, water leakage, etc) and AV system can be well connected with the IoT hub JACE8000.