Trellix

Virtual Trellix Core Enterprise

Hardware platform hosting
Trellix Applications

Typical Applications
Office · Education · Healthcare · Industrial

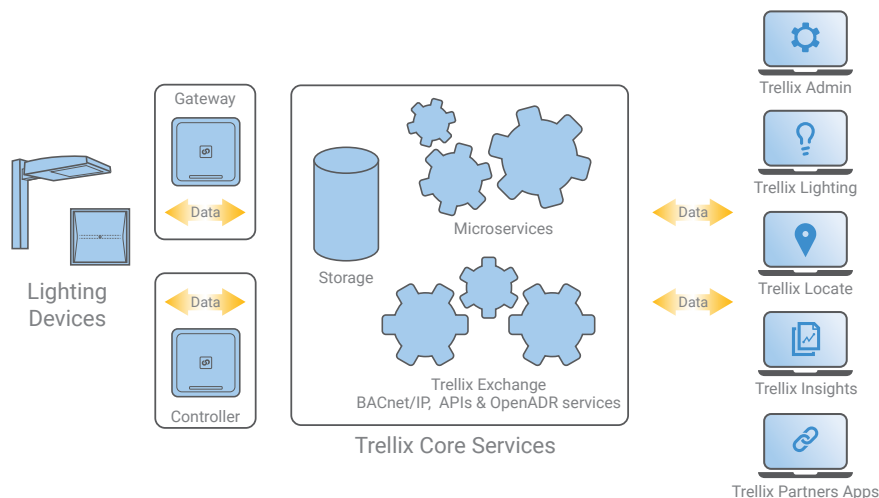## Interactive Menu

Product Certification

IEC 62443-2 CERTIFICATION
IEC 62443-2

- Supports Virtual Platform: VMWare vSphere
- Supports VMWare Software Release: ESXi 5.5 and higher

Product Features

Trellix Lighting   Trellix Exchange   Trellix Admin   Trellix Insights

Top Product Features

- Quickly establish and future-proof user's IoT strategy by enabling secure data flow between their connected lighting control system and the other building's sub-systems.
- Designed for WaveLinx Pro systems composed of up to 300 networked area controllers / gateways.
- Hosts the Trellix Applications that provide enterprise-level functionality for the WaveLinx Pro system users to improve operational savings and maintenance. The applications offers device level management, building level management, user management, security management, alarms and events management and overall system management such as system backup/upgrades.
- Stores system data such as devices status, devices present value, areas power consumption from the connected devices and shares it with third party systems via BACnet IP and Public API (REST).

Gateway

Lighting Devices

Controller

Storage

Microservices

Trellix Exchange
BACnet/IP, APIs & OpenADR services

Trellix Core Services

Trellix Admin

Trellix Lighting

Trellix Locate

Trellix Insights

Trellix Partners Apps

Discontinued 06-02-2023

COOPER Lighting Solutions

Order Information

The Trellix Core (Pro, Enterprise, Virtual) platforms are preloaded with Trellix Admin and Lighting. The Trellix Core is shipped with a base software license which enables the Lighting application for up to 250 devices. After 250 devices, the customer should purchase Trellix Lighting license adders.

Trellix Insights, BACnet/IP, API and OpenADR require a dedicate software license. Customers should purchase the appropriate software license adders for any additional features.

Catalog Number

Catalog Number	Description
TRX-TCVRT2	Trellix Core pro (shipped with Trellix Lighting and Admin)

Optional Trellix Software Licenses

Catalog Number	Catalog Number	Catalog Number	Catalog Number

Catalog Number	Description
TRX-LGT250	Trellix Lighting license adder for additional 250 devices
TRX-API	API license for unlimited devices
TRX-BACNET	BACnet license for unlimited devices
TRX-OPNADR	OpenADR Interface license for unlimited devices per site

Notes
1. Please refer to the respective datasheets to learn about the other features.

Trellix Commissioning Services

The Trellix Lighting application includes graphical floor plan and energy dashboard. Services to configure these items MUST BE INCLUDED in Trellix Core and Trellix Basic License Addition 250 options for the number of nodes indicated with those products.

Catalog Number

Catalog Number	Description
TRX-CONFIG	Trellix Energy and Graphical Floorplan Setup Services for 250 devices*

Notes
1. Devices placement only available for wireless devices

A device is an input/output wireless/wired device that is connected to the controller.

Wireless

All Wireless Devices (integrated sensors, ceiling sensors, outdoor sensors, wall stations, switch packs, receptacles, wireless drivers). Each device counts as one.

Notes: WaveLinx Pro Touchscreen is not counted as a device

Wired

DAC & Field Relay Devices: Each device counts as one.

SCMH : 12 devices (A single SCMH counts as 12 devices)

SCMR : 0 devices (see below)

Notes: As Trellix 9.0 does not support device level monitoring, the device count is limited to output devices only listed above, i.e. wallstations and sensors are not included in the device count.
We are not counting the SCMR in the device count.

Product Specifications

Key Features

- **Reducing Hardware Cost –** Maximize your investment in virtual infrastructure by running the Virtual Trellix Core on it. With the Virtual Trellix Core Enterprise, there is no need for dedicated hardware to run the Trellix Core and the Trellix Lighting.

- **Reducing your facility and utility Cost –** In addition to removing the need for dedicated computer hardware, the Virtual Trellix Core Enterprise also reduces the space, power, cooling and maintenance costs associated with a physical server.

- **Higher System Availability –** Take advantage of virtualization technologies to increase the system's availability:
  - Transparently moving virtual machines between hardware platforms to support planned maintenance activities.
  - Replicate the virtual machine to update OS, applications in an testing environment before bring the updated machine to the online environment hence minimizing the disruption of daily buildings' operations.

- For Trellix Applications benefits, please refer to Trellix specsheet.

System Performance

Maximum number of area controllers: 300
Maximum number of nodes supported: 32,500
Maximum number of BACnet objects: 30,000

Software Specifications

Supported Virtual Platform: VMWare vSphere
Supported VMWare Software Release: ESXi 5.5 and higher
Virtual Platform Disk Space Recommended Requirement: 130 GB
Virtual RAM Recommended Allocation: 48 GB
Virtual CPU Recommended Quantity: 8

Warranty

- One year warranty

Sample System Topology:

This diagram shows the main components of the WaveLinx wired and Pro wireless connected lighting system.
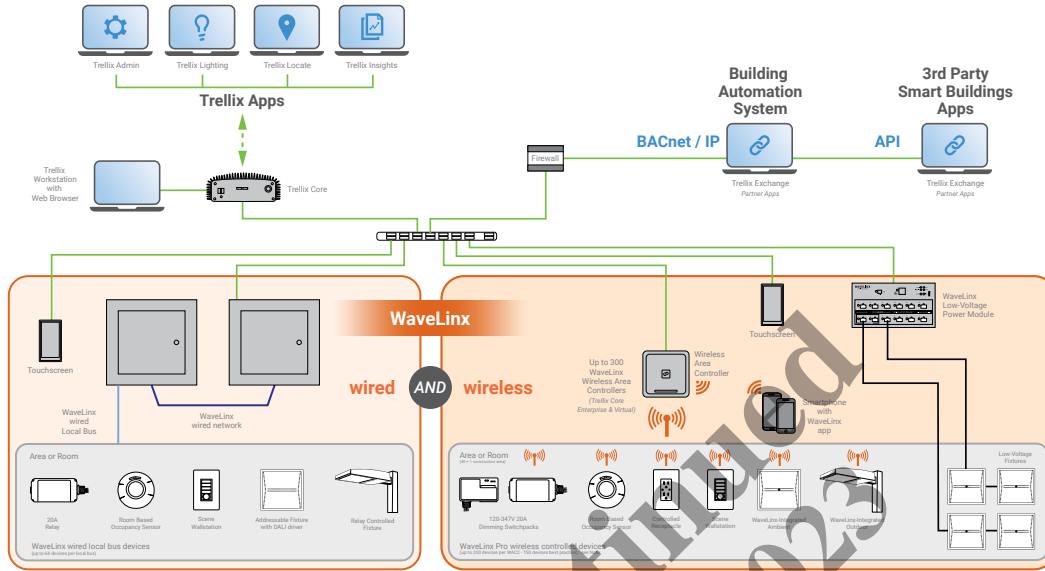
The **WaveLinx Pro wireless system** communicates using wireless mesh technology based on the IEEE 802.15.4 standard. A PoE LAN connection for each Wireless Area Controller (WAC) is required for power and data access to the building lighting network.

The **WaveLinx wired system** controls the devices using relay, 0-10V, DMX and the WaveLinx wired digital local bus. The WaveLinx wired system connects to the building LAN using EG2-S-NA module, mounted within the WaveLinx Wired Area Controller. Each WaveLinx wired area controller communicates on the WaveLinx wired network.

WaveLinx Pro Wireless Area Controllers (WAC) and WaveLinx Ethernet Gateways (EG2-S-NA) communicate with Trellix over the Ethernet network.

Please refer to the WaveLinx Pro Wireless Network and IT Guidance Technical Guide and WaveLinx Wired Network and IT Guidance Technical Guide for more information.

View WaveLinx Pro Network and IT Guidance Technical Guide

		WaveLinx wired	WaveLinx Pro wireless
Trellix	Connects to Trellix Core (Pro, Enterprise, Virtual)	●	●
	# of WAC or EG2-S-NA / # of devices per Trellix Core Pro	2 / 3000	20 / 3000
	# of WAC or EG2-S-NA / # of devices per Trellix Core Enterprise	10 / 32,500*	300 / 32,500*
	# of WAC or EG2-S-NA / # of devices per Trellix Core Virtual Enterprise	10 / 32,500*	300 / 32,500*
	Connecting device	EG2-S-NA	WAC2-POE
Trellix Lighting	Alarms	○	●
	Events	●	●
	Operate (floorplan control)	●	●
	Operate - area control	●	●
	Operate - zone control	●	●
	Operate - device control		●
	Scheduling	○	●
	Energy Dashboard		●
	Occupancy Dashboard		●
Trellix Exchange	BACnet/IP	○	10,000 objects with Trellix Pro up to 30,000 with Enterprise/Virtual
	Public (REST) API	○	●
	OpenADR		●
	Demand Response		●
Trellix Admin	Manage Users	●	●
	Manage roles	●	●
	Manage clients	●	●
	Manage licenses	●	●
	System settings (backup/restore, network etc)	●	●
Trellix Insights	Occupancy Trends and Comparison		●
	Average Occupancy		●
	Occupancy on Floor Plan		●
	Generate and Export Reports to pdf		●
	Hierarchical Navigation		●
	Quick Search		●
	Department Filter		●
	Historical View		●
	Popular Spaces		●

* For larger number of gateways and devices, please contact Cooper Lighting Solutions Sales representatives.
Recommend designing the system at 70-80% of maximum capacity. Specifications based on WAC2-POE.
The number of gateways and devices mentioned above are the total for a single system or the combination
(Wired + Wireless) that can be used with a server.

● = All features   ○ = Subset of features

Control Systems

- Trellix
- WaveLinx Pro wireless
- WaveLinx wired
- VividTune

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