

1. What is Trellix Locate?

Trellix Locate delivers real-time indoor location services and management, by leveraging the Trellix smart space IoT platform. Designed to allow you to monitor activities by sensing the location of your assets, staff and patients. The data can be utilized to improve business/production workflows, safety and security.

2. What components do I need to have a complete Trellix Locate system?

- Trellix Locate Asset Tags
- WaveLinx Integrated Sensor Fixtures (Fixture integrated occupancy sensor, ambient light sensor and Bluetooth) - **WAA** or
- WaveLinx Tile mount Sensor Kit- **WTA** or
- WaveLinx Tile mount Sensor Kit- **WTH** or
- WaveLinx Tile mount Sensor **WTH** with **WTH-PS** (Power Supply)
- Wireless Area Controller (Gateway)- **WAC-POE**
- Trellix Core (Enterprise, Virtual) - **TRX-TCENT2** or **TRX-TCVRT2**
- Trellix Lighting applications - **TRX-CONFIG** and **TRX-LGT250**
- WaveLinx Mobile App (Commissioning and user personal control)
- Trellix Locate Software Application License per tag - **TRX-LIC-RTLS-5YR** or **TRX-LIC-RTLS-1YR**

3. Which locating technologies does Trellix Locate use?

Trellix Locate uses BLE technology as its primary technology for Location services. In addition, Trellix Locate leverages sensors built into the tags and the Wavelinx sensors to enhance the location accuracy of the system.

4. What is the accuracy offered by Trellix Locate?

Trellix Locate offers room level accuracy for indoor applications. Trellix Locate also offers 3- 5m of location accuracy in open spaces in indoor applications. The accuracy requires that Trellix Locate design guidelines are followed.

5. Can the tags be programmed for different settings?

Yes. Trellix Locate offers a mobile application which connects directly to the tags and can program and adjust the tag settings like beacon rate and Transmit Power. The mobile application also offers easy to use templates based on type of equipment tracked.

6. Do the tags have any other sensors?

Cooper Lighting offers purpose-built tags for different applications. Our rich portfolio of tags includes tags with built-in accelerometers, tags with temperature sensors and tags with humidity sensors. In addition to sensors, Cooper offers tags with programmable push buttons that can be used for urgent notifications.

7. Can the sensors beacon for Wayfinding or Indoor positioning applications?

Trellix Locate enabled sensors currently do not have the ability to be a Bluetooth beacon for Wayfinding or Indoor positioning applications. Cooper Lighting does offer other solutions for Wayfinding and Indoor Positioning.

8. Where does the location engine or the technology to use the data to calculate location reside?

The location engine resides on the Trellix Core appliances, i.e. Trellix Core Enterprise and Virtual Trellix Core Enterprise. Please refer to our Virtual server data sheet for more info.

9. Does Trellix Locate support API integration?

Yes, Trellix Locate data including location, alarms etc. are available as APIs. Please refer to the Trellix Locate API manual.

10. What are choke points?

Sensors can be strategically placed near the exits and designated as a choke point in the software. When a sensor is designated as a choke point it sends location data of assets within its field immediately and has a latency of less than 4 seconds.

11. Does Cooper Lighting collect any personal information based on location?

Cooper Lighting does not collect any PII (personally identifiable information) from Trellix Locate. However, attributes of assets and devices can be configured using descriptive information.

12. What is the latency of the system and how long it takes for tag to change location on the software?

Trellix Locate has three metrics for latency:

- **Stationary Tags** – Tags which are stationary and not moving get updates every 30 seconds.
- **Motion Tags** – Tags which are moving. The delay between movement and visualization is less than 8 seconds which includes network latency, data processing and transmission times. As the beacon rate is increased the latency decreases. This latency is improved when the data is received as API's.
- **Choke Point** – When sensors are designated as choke points the delay between movement and visualization is less than 4 seconds which includes network latency, data processing and transmission times. As the beacon rate is increased the latency decreases. This latency is improved when the data is received as API's.

13. What is the functionality of the Trellix Admin Software application?

The Trellix Admin software application is used for the following:

- **IoT Platform Management** – Easily perform system maintenance tasks such as software updates of the Trellix Core platform or devices connected to Trellix Core, manual or schedule backup of the system configuration file and historical data, language selection, email configuration.
- **Alarm Management** – Monitor alarms generated by the system and applications hosted by the platform. Filter the alarms based on the alarm tags such as source, type, date and time
- **Users and Roles Management** – Provide tenant and function level access to the applications by managing users, user roles and users' areas of responsibility.
- **Applications/Features management** – Manage the software licenses for the applications and interfaces hosted on the Trellix platform.
- **API Management** – Manage the Public (REST) APIs that allows data exchange between your connected lighting system and other systems such as Building Automation and Smart Building platforms hence unlocking the value of the data gathered by your lighting system.

14. What is the functionality of the Trellix Lighting Software application?

The Trellix Lighting software application is used for the following:

- **Operate** – Quickly navigate your facilities using the building navigator and/or the Floorplan View to make changes to the light levels. Monitor the health of your lighting system using the Alarm console and quickly troubleshoot faults using the interactive troubleshooting tips.
- **Dashboards** – Our Energy and Occupancy dashboards provide important information about how much energy is being used by the lighting system and how your spaces are being used by your employees/tenants.
- **Configuration** – Import your WaveLinx wireless and wired configuration from the respective controllers/gateways to create a system wide lighting management system.
- **Floor plan editor** – Using our patent pending touch-based floorplan editor to easily create floorplans with areas/zones and devices hence eliminating your reliance on specialists to maintain your floorplan.

15. What is the functionality of the Trellix Locate Software application?

The Trellix Locate software application is used for the following:

- **Asset Management** – Trellix Locate allows you to easily configure your Trellix Location solution. The software allows you to manage assets and associate them with a BLE tag. You can view tagged and untagged assets by department, category, and text search. The bulk import and export feature allows you to quickly manage assets using output from asset management applications.
- **Tag Management** – Trellix Locate allows you to discover tags, enable/disable them and delete them when needed. The software also allows you to quickly enable a set of tags using the bulk enable feature.
- **Department Management** – Trellix Locate allows you to manage departments. Assets are associated to these departments which allows for asset management at the department level. Trellix Locate comes with a set of pre-defined departments and asset types to minimize the configuration based on the selected vertical.
- **Geo-Fence** – Our patent pending floorplan editor allows you to create geo-fences by drawing a perimeter on a floorplan using your fingers. The floorplan editor eliminates your reliance on specialists to maintain your geo-fences and map.
- **System Configuration** – Trellix Locate allows system commissioning specialists to fine tune the system to meet your location accuracy requirements.
- **Asset Tracking** – Trellix Locate allows you to quickly locate assets in a tabular view and map view. The tabular view is ideal to search for an asset in a multi-floor facility. The tabular view has a pin feature which takes the user to the map where the asset can be viewed. The software also allows you to replay the movement of a single Asset going back as far as 7 days before the current date.
- **Alarms** – The intuitive Alarms module allows you to monitor the device level notifications such as low battery alarm and location-based notifications based on geo-fences rules defined within the system. Users can filter the alarms based on assets names.
- **Events** – The Event's feature captures all past notifications generated by the system in case you want to investigate past notifications.

16. Can historic data be visualized by using the Trellix Locate Software application?

Yes. The software allows you to replay the movement of a single Asset going back as far as 7 days before the current date.

17. What are some of the integrations and applications that can be implemented using this system in healthcare?

Trellix Locate infrastructure can be used to automate all hospitals' location-based applications. Below are some of the integrations and applications we offer together with our partners:

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| <ol style="list-style-type: none"> 1. Par Level Management 2. Nurse Call Automation 3. Staff Locating 4. Staff Duress 5. Patient Locating 6. Patient Safety 7. Patient / Resident Wandering 8. Patient Security 9. Patient Check in Automation 10. Patient wait time (queue management) 11. Patient Satisfaction (linking RTLS to patient feedback surveys) 12. Surgical Workflow 13. Loved One Notification - Patient Surgery Milestone triggers 14. ED Workflow 15. Asset Tracking (basic visibility) 16. Asset Management (PAR Levels, PMs, Utilization) | <ol style="list-style-type: none"> 17. Asset Security 18. Bed Management 19. Hand Hygiene Compliance (coming in 2021) 20. Environmental Monitoring 21. Tissue Management 22. Blood Bank Monitoring 23. Blood Cooler Tracking 24. Door Ajar 25. Humidity 26. Dry Contact 27. Infection Control 28. Inventory Management 29. Single Sign On 30. Clinical Rounding 31. Security Rounding 32. Physician Time Tracking |
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