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CISCO
The bridge to possible

Aironet HyperLocation Module Advanced Security

Contents

The Cisco Hyperlocation solution delivers unprecedented average Wi-Fi client location accuracy of 1 to 3 meters. The solution is powered through a combination of these Cisco technologies:

- Cisco Aironet 4800 Access Point
- Cisco Spaces
- Cisco Connected Mobile Experiences (CMX) Location Engine

Product overview

The same business and personal benefits that GPS and mobile map services have brought to the outdoors are now being realized in the indoor enterprise space. The applications are numerous, and they include wayfinding and proximity engagement in malls, hospitals, and hotels; flexible employee workspace use; tracking wait times at airport security lines; and retail product placement. To date, the solutions that cater to these applications have multiple challenges and limitations, such as coarse 5- to 10-meter accuracy and slow location refresh, along with nonstandard, expensive approaches using video and RF technology. Occasionally, these solutions cleverly use battery-powered Bluetooth Low Energy (BLE) beacons that, although simple in concept, are logistically and operationally onerous.

The Cisco Hyperlocation solution introduces hardware and software innovation that can deliver 1- to 3-meter location accuracy on average for associated Wi-Fi clients. The foundation of the solution is the next-generation Cisco Aironet 4800 Access Point. The access point has our proven Hyperlocation antenna array and an additional Wi-Fi radio built into the unit. Using a Received Signal Strength Indicator (RSSI) and the angle of arrival supported through this technology, you can triangulate the location of associated Wi-Fi mobile clients and BLE devices with pinpoint accuracy. The access point also provides a hassle-free BLE beacon deployment that is powered over Ethernet and centrally managed from the convenience of a data center. As a result, local IT engineers do not need to perform walk-by inspections of BLE beacon health using applications on their smart devices.

By combining BLE signal and location data from the Hyperlocation antenna in the Aironet 4800 with sensors on the mobile client, location can be determined to within 1 to 3 meters on average, in near real time. In navigation and wayfinding applications, the result is a true blue dot experience. Customers can find their location, pinpoint nearby points of interest, and, using a mapping application, determine the fastest path to their destination.

Features and benefits

Table 1 lists the features and benefits of the Hyperlocation solution.

Table 1.   Features and benefits

Feature	Benefit
1- to 3-meter location accuracy on average	Provides 1- to 3-meter (median) location accuracy for associated Wi-Fi clients, depending on deployment
True blue dot experience	Supports navigation and wayfinding applications with highly accurate and near-real-time location
BLE beacon	Incorporates five centrally managed BLE beacons with separate Universally Unique Identifiers (UUIDs) and power levels
FastLocate	Generates frequent location updates for connected Wi-Fi clients

Hardware and software

The Hyperlocation solution consists of the following Cisco technologies:

- Aironet 4800 access point
- Cisco Spaces
- Connected Mobile Experiences (CMX) Location Engine

Figure 1.
Cisco Aironet 4800 Access Point

Licensing

Hyperlocation is not licensed separately. It requires licenses for the underlying Cisco technologies: the Aironet 4800, Cisco Spaces, and Connected Mobile Experiences (CMX). For licensing terms of these individual technologies, see the links above.

For product specifications for each of these products, please use the links above.

Limited lifetime hardware warranty

The products in the Cisco Hyperlocation solution come with a limited lifetime warranty that provides full warranty coverage of the hardware for as long as the original end user continues to own or use the product. The warranty includes 10-day advance hardware replacement and helps ensure that software media is defect-free for 90 days. For more details, please visit: https://www.cisco.com/go/warranty.

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Reference links to information about key environmental sustainability topics (mentioned in the "Environment Sustainability" section of the CSR Report) are provided in Table 1.

Table 2. Environmental sustainability

Sustainability topic	Reference
Information on product material content laws and regulations	Materials
Information on electronic waste laws and regulations, including products, batteries, and packaging	WEEE compliance

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For more information

For more information about the Cisco Hyperlocation solution, visit https://www.cisco.com/c/en/us/products/interfaces-modules/aironet-hyperlocation-module-advanced-security/index.html or contact your local Cisco account representative.

Document history

New or revised topic	Described in	Date