BT11 Access Point

Enterprise-grade Bluetooth® LE

Mist built the first AI-driven wireless platform, designed specifically for the Smart Device Era. Mist's Learning Wireless LAN makes Wi-Fi predictable, reliable and measurable by providing unprecedented visibility into the user experience and by replacing time consuming manual IT tasks with proactive automation. In addition, Mist is the first vendor to bring Enterprise-grade Wi-Fi, Bluetooth LE and IoT together to deliver personalized, location-based wireless services without requiring battery-powered beacons.

THE MIST LEARNING WLAN CONSISTS OF THE FOLLOWING PRODUCTS:

The Mist Cloud

All wireless deployment, setup, operations, and insight are handled via the Mist Cloud, which was designed to provide unprecedented visibility and control at web scale. A microservices architecture provides maximum agility when rolling out new features/services.

The Mist AP Family

The AP21, AP41, and AP61 are high performance, enterprise-grade Access Points for 802.11ac Wave 2 Gigabit Wi-Fi and Bluetooth Low Energy. The Mist BT11 (detailed here), is an enterprise-grade Access Point exclusively for Bluetooth Low Energy. To view other datasheets, go to www.mist.com/resources/datasheets
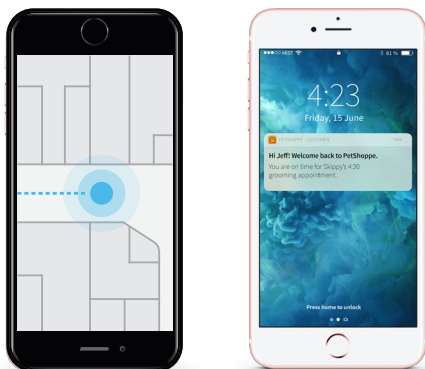
THE MIST CLOUD

The Mist Cloud, featuring a microservices architecture, and powered by Marvis AI.
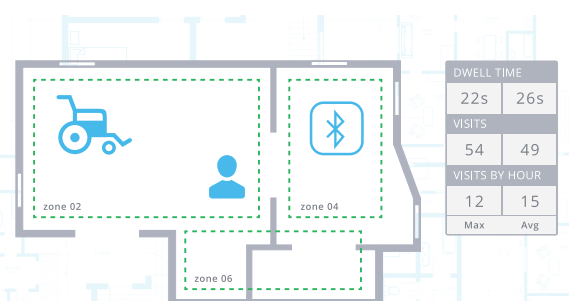
	AP43	AP61	AP41	AP21	BT11
Deployment	Indoor	Outdoor	Indoor	Indoor	Indoor
Wi-Fi Standard	802.11ax (Wi-Fi 6) 4x4 : 4	802.11ac Wave2 4x4 : 4	802.11ac Wave2 4x4 : 4	802.11ac Wave2 2x2 : 2	–
Wi-Fi Tri-Radio	✓	✓	✓	–	–
Antenna Options	Internal/External	Internal/External	Internal/External	Internal/External	Internal
Virtual Bluetooth® LE	✓	✓	✓	✓	✓
IoT Interface	✓	–	✓	–	–
IoT Sensors	Humidity, Pressure, Temperature	–	–	–	–
Warranty	Limited Lifetime	1 Year	Limited Lifetime	Limited Lifetime	Limited Lifetime

BLE ENGAGEMENT SERVICE

Push location-based information to mobile users, such as turn-by-turn directions and messages.
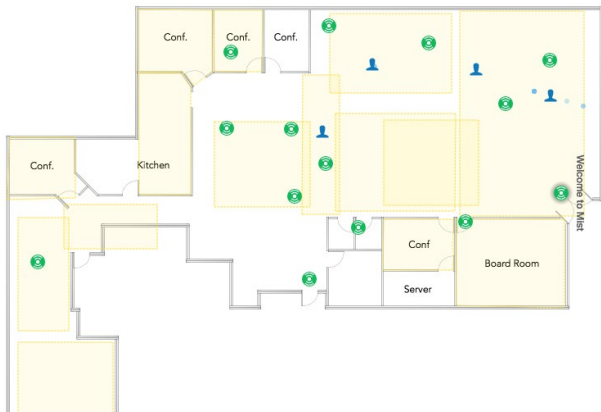
BLE ASSET VISIBILITY SERVICE

Immediately locate high value resources + analyze traffic patterns.

MIST USES PATENTED TECHNOLOGY AND MACHINE LEARNING TO ENSURE THE HIGHEST LOCATION ACCURACY WITH EASE OF DEPLOYMENT AND SCALE.

Let's Get Virtual

Patented virtual Bluetooth LE (vBLE) technology lets you deploy and move virtual beacons with the simple click of a mouse (or via APIs), eliminating the need for physical beacons.

BLUETOOTH LE LOCATION SERVICES

The BT11 works with the Mist Cloud to provide high accuracy enterprise-grade Bluetooth LE location services using virtual beacons,].

Machine Learning Eliminates Manual Calibration

Mist continuously collects data in real-time from all mobile devices to ensure accurate location estimates without the need for Bluetooth LE site surveys.
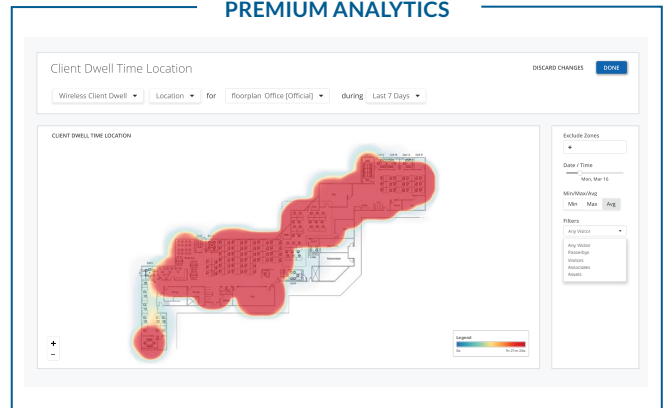
Best Location Accuracy and Performance

Dynamic vBLE 16 antenna elements in Mist APs plus machine learning in the Mist Cloud ensure 1 to 3m for mobile devices, and in-room / zone level for Bluetooth LE assets.

Premium Analytics

Mist's User Engagement, or Asset Visibility service includes a base capabilities for analyzing up to 30 days of data to simplify the process of extracting network insights from data and analytics across your enterprise to properly align your support resources or introduce enhanced premium services.

For those enterprises who need deeper flexibility to extend the timeline of data beyond* 30 days or access other 3rd Party* solutions with customizable* reporting to better understand shopper and guest behavior, Mist Premium Analytics Subscription services is available.
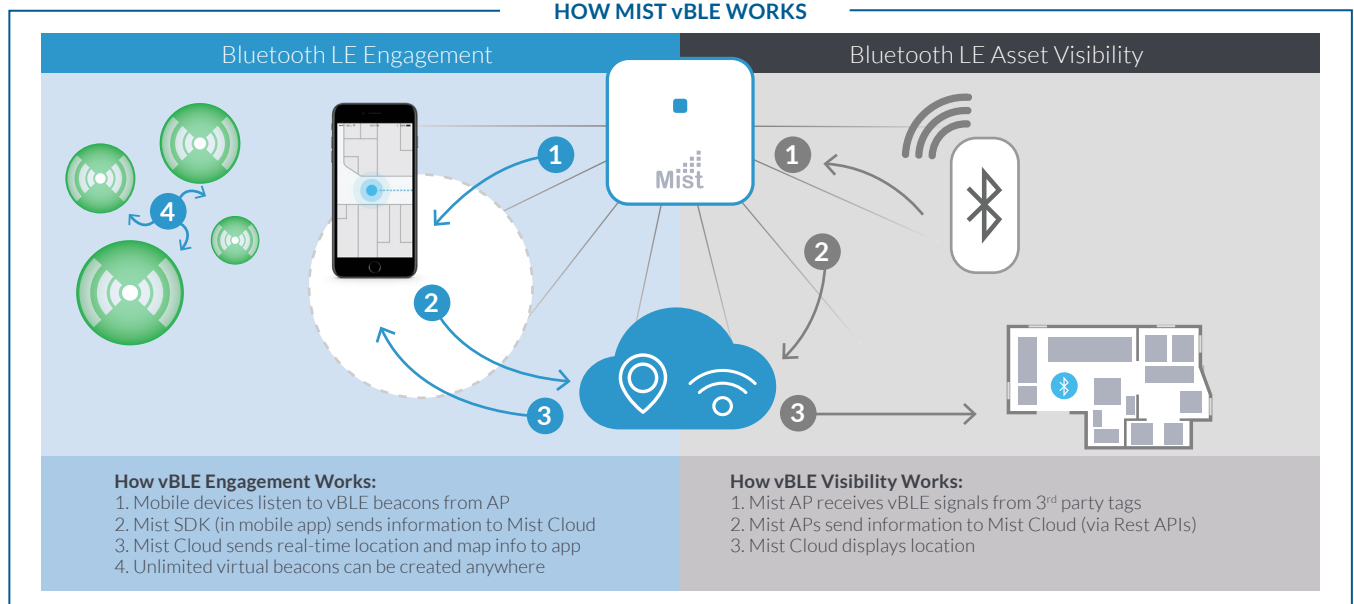

PREMIUM ANALYTICS

Real-time Visibility

Mist gives you a real-time view of the RF environment from the mobile user's perspective. This lets you detect coverage holes and other issues, even as users move around and their RF coverage patterns change.

Open APIs for Easy Integration

Mist offers a mobile SDK for iOS and Android with three types of APIs (vBLE beacon, indoor location, and zone analytics) for seamless integration with complementary products.

HOW MIST vBLE WORKS

Bluetooth LE Engagement

Bluetooth LE Asset Visibility

How vBLE Engagement Works:
1. Mobile devices listen to vBLE beacons from AP
2. Mist SDK (in mobile app) sends information to Mist Cloud
3. Mist Cloud sends real-time location and map info to app
4. Unlimited virtual beacons can be created anywhere

How vBLE Visibility Works:
1. Mist AP receives vBLE signals from 3rd party tags
2. Mist APs send information to Mist Cloud (via Rest APIs)
3. Mist Cloud displays location

*Mist Premium Analytics service subscription is needed

SPECIFICATIONS	BT11
Power Options	802.3af or 802.3at PoE
Dimensions	203mm x 203mm x 40mm (7.99in x 7.99in x 1.57in)
Weight	0.636 kg (1.4 lbs)
Operating Temperature	Internal antenna 0° to 40° C
Operating Humidity	10% to 90% maximum relative humidity, non-condensing
Operating Altitude	3,048m (10,000 ft)
Electromagnetic Emissions	FCC Part 15 Class B
I/O	1 - 10/100/1000BASE-T auto-sensing RJ-45 with PoE In 1 – 10/100/1000BASE-T auto-sensing RJ-45 with 48Vdc PoE Out
RF	2.4GHz BLE with Dynamic Antenna Array
Indicators	Multi-color status LED
Compliance Standards	UL 60950-1 CAN/CSA-C22.2 No. 60950-1 FCC Part 15.247, 15.407, 15.107, and 15.109 RSS-247 ICES-003 (Canada)

I/O PORTS & ACCESSORIES	
Reset	Reset to factory default settings
Eth1+PoE Out	8-pin interface for digital I/O and analog input (0 to +5V)
Eth1+PoE In	USB2.0 support interface

ORDERING INFORMATION	
US/FCC Domain	BT11-US (Internal Antenna)
Rest of the World	BT11-WW (Internal Antenna)

MIST OMNI-DIRECTIONAL BLUETOOTH ANTENNA ARRAY