The Mobility Point™ (MP™)

The Trapeze Networks™ Mobility Point is a system device that augments secure mobility and provides WLAN connectivity for users. Much like line cards in a chassis switch, the MP provides client access into the functions of the Mobility Exchange™ (MX™). The MP is fully controlled by the MX and has no local store of data. Keeping sensitive data on the MX rather than the MP eliminates the vulnerability most access points (APs) create by leaving substantial network and user intelligence open to hacking or theft in an unsecured location.

In contrast to the typically arduous process of configuring and deploying scores of APs, configuring Trapeze's MPs is vastly simple. The MPs are tightly integrated with the MXs, and the Trapeze Mobility System™, with its RingMaster™ tool suite, automates the planning and deployment process. RingMaster determines the number of MPs needed for a roll out, places the MPs on a floor plan, and generates both the configuration details for each MP as well as a work order for craftspeople to install the MPs.

The MPs receive their power from MX power-over-Ethernet ports, so there's no need to pull AC power to each MP location. This architecture makes it possible for cabling workers, rather than electricians, to install the MPs. The MPs can be mounted on either ceilings or walls.

Key Features

- Single- and dual-radio models
  - Single-radio 802.11a or 802.11b, software configurable
  - Dual-radio 802.11a and 802.11b
  - Granular transmit power control and channel selection to support international requirements and control the RF cell size
- Configuration
  - Automated by RingMaster tool suite
  - Downloaded onto MP by MX
- Installation and replacement
  - Zero configuration by craft personnel
  - Replacement MP inherits exact configuration
- RF and encryption
  - Performs packet encryption over the air
  - Communicates RF knowledge to MX, including statistics and counters
- Poses no security risk
  - No local data store
  - Ethernet link to MP cannot be used by a station to gain network access
  - No console port; no local access is possible within open office environment
  - If stolen, no secure configuration data goes with it
  - Not operational as standalone device
  - All security management handled by MX, including the generation of session keys
- Supports redundant PoE links to two different MXs
  - Provides redundant data and power connections
  - Maximizes network availability in the event of an MX failure
- Prevents "bug-light" syndrome
  - Won't accept user associations until MX successfully configures and enables the MP, and both the power and data connections are verified

Mechanical Specifications

Physical and Environmental:
- Dimensions:
  Diameter: 6.6 in (16.76 cm)
  Height: 1.85 in (4.69 cm)
- Weight: 12.5 oz (354 g)
- Operating Temperature:
  0ºC to +50ºC (+32ºF to +122ºF)
- Storage Temperature:
  -20ºC to +70ºC (-4ºF to +158ºF)
- Humidity % non-condensing:
  10% to 95%
- Status Indicators: 3 LEDs
- Wired Network Ports:
  2 RJ-45 ports for 10/100 Ethernet and Power over Ethernet (PoE)

Standards Compliance:
- IEEE 802.11
- IEEE 802.11a
- IEEE 802.11b

Safety and Electromagnetic Compliance
- ETS 300.328 (2.4 GHz) and 301.893 (5 GHz)
- FCC Part 15
- IC Part 15
- RSS-139-1 and RSS-210
- R&TTE Directive 1999/5/EC

General:
- Power-save mode supported
- Transmit power control
- Supports up to 500 clients
- Encryption: 40 bit/128 bit WEP, TKIP-ready, AES-ready

802.11b Radio Specifications

Antenna Type:
- Integrated omni-directional diversity antennas

Antenna Gain:
- 2 dBi

Frequency Band:
- 2.4 GHz – 2.4835 GHz

Operating Channels:
- Based on the regulatory domain specified by the system administrator

Association Rates:
- 11 Mbps, 5.5 Mbps, 2 Mbps and 1 Mbps with automatic fallback

Modulation:
- Direct-sequence spread-spectrum (DSSS)

Transmit Power:
- Based on the regulatory domain specified by the system administrator

802.11a Radio Specifications

Antenna Type:
- Integrated omni-directional diversity antennas

Antenna Gain:
- 2 dBi

Frequency Band:
- 5.15 GHz – 5.85 GHz

Operating Channels:
- Based on the regulatory domain specified by the system administrator

Association Rates:
- 54 Mbps, 48 Mbps, 36 Mbps, 24 Mbps, 18 Mbps, 12 Mbps, 9 Mbps and 6 Mbps with automatic fallback

Modulation:
- Orthogonal frequency division multiplexing (OFDM)

Transmit Power:
- Based on the regulatory domain specified by the system administrator

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