

FMC 2000[™] Firetide Mobility Controller



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FMC 2000—Maintain network connectivity while traveling at speeds up to 100 mph across multiple HotPort[®] mesh networks and IP domains.

Multi-Service Mobility

Mobility is characterized by the following requirements: A) High performance at high speeds, and B) Seamless roaming across multiple networks. Firetide Mobility Controller (FMC 2000) is the control-center that delivers this high-speed infrastructure mobility, and seamless client roaming. The controller software is a rack-mountable hardware appliance that integrates into an existing IT infrastructure. FMC 2000 provides management and control path functions for mobility without interfering with the data path.

Reliable Connectivity at 100 mph

With the Firetide Mobility Controller, Ethernet enabled devices such as network video cameras, Wi-Fi access points and laptop computers maintain network connectivity while traveling at speeds up to 100 mph across multiple HotPort mesh networks and IP domains.

This enables a variety of exciting new applications not possible with static Ethernet networks (*see table*).

Highly Scalable Infrastructure

A single FMC 2000 is capable of supporting the following:

- Up to 64 meshes or 2048 static nodes (spread over 64 meshes).
- Up to 1024 mobile nodes across all meshes.
- Up to 32 mobile nodes per static node.

Dynamic Mesh Networking

Unlike other Wi-Fi based wireless meshes, HotPort mesh networks are dynamic by design, allowing for automatic and instantaneous connection and reconnection of mesh nodes to the

Mobility	Application Examples
Free roaming	Continuous video security surveillance for any moving vehicle such as police cruisers, fire trucks, buses, and ferries. For example—Log into the IP cameras on the vehicle and receive the real-time video and audio to get information about the situation.
Linear	Highway patrol cars require private broadband network services along their daily routes. Mobile command centers for public safety first responders including police, fire and other emergency personnel.
Linear	Subway or train system drivers or other employees can monitor the status of the inside of their vehicles or the platforms into which the vehicles enter.
Linear	Businesses can pay for streaming video advertisements or public service announcements in trains and buses. Uninterrupted Wi-Fi services can provide a way to connect the public to businesses through mobile hotspots.

network. The FMC 2000 maintains the mobile node configuration and simplifies it.

Firetide's patented AutoMesh[™] platform makes the mesh fully self-forming and self-healing, to afford rapid deployment and dependable operation for both static and mobile mesh infrastructures. In addition to ensuring a reliable, self-configuring and self-healing wireless network, it also provides the added benefit of mobility.

A HotPort mesh node instantly associates and re-associates with the mesh network as it travels within range of other static and dynamic mesh nodes.

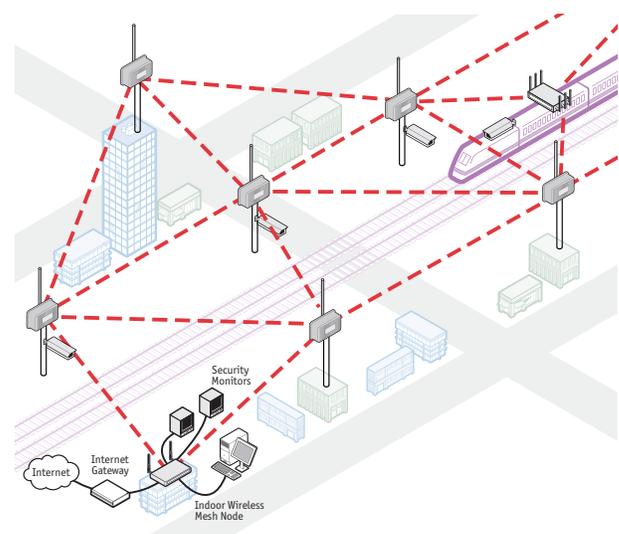
Mobile Network Redundancy

Firetide mobility solution offers multiple levels of redundancy including FMC 2000 redundancy, gateway server redundancy, mobile node (on vehicle) and static node redundancy.

This eliminates any single points of failure in the network and circumvents any temporary RF impediments.

Mobility Visual View

The management of the FMC 2000 is via Firetide's HotView Pro[™] network management software. In addition to the FCAPS functionality, the HotView Pro allows an administrator to represent a graphical view of the mobility network.



Firetide's solution for network infrastructure mobility on public transportation vehicles

This is useful for transportation applications where administrators need to create customizable views of the mobile track. The FMC 2000 also handles all the alarms emanating from the mobile nodes. It serves as load manager for the management traffic and streamlines the transfer of management information between the mobile nodes and the network management Server (HotView Pro).

Fast Deployment and High Security

The Firetide Mobility Controller acts as a centralized configuration, event management and security gateway for the mobile network. This drastically reduces the deployment time of the mobility network and creates seamless migration from a non-mobility network to enable mobility. The FMC 2000 also acts as an authentication and authorization server for the mobile nodes. Thus in the event of any security compromise, an administrator can de-authorize mobile nodes using an Access Control List. Moreover, the FMC-2000 intelligently pushes software upgrades to the mobile nodes and ensures that the network is in sync with the latest version of firmware.

Specifications

Network Ports

- Four 10/100/1000 Mbps Ethernet ports with LEDs
- IEEE 802.3, 802.3u compliant
- CSMA/CD 10/100 autosense

Enclosure

- System LEDs (Power, Test)
- Ethernet port LEDs (link, status, activity)
- Reset button (recessed)
- Security slot for physical locking device
- Weight: 6.4 lbs (2.912 kg)
- Dimensions: 10.3"W x 1.7"H x 17.3"D (1-u rack size)

Power

- AC Input: 100-240 V AC / 50-60 Hz
- External power supply: 100-240 VAC, 50/60 Hz

Environmental Specifications

- Operating temperature: 0°C to +60°C
- Storage temperature: -20°C to +70°C
- Humidity (non-condensing): 10% to 90%
- Storage humidity (non-condensing): 5% to 95%
- Maximum altitude: 15,000 feet (4600 meters)

Included Accessories

- AC power cord (North America)
- Bracket for rack mounting

Warranty

- 1 year warranty for hardware
- Extended warranty available for purchase

Firetide Products



Mesh Nodes
HotPort® Indoor, Outdoor and Edge Mesh Nodes



Access Points
HotPoint® Indoor & Outdoor Access Points



Mobility
Firetide Mobility Controller

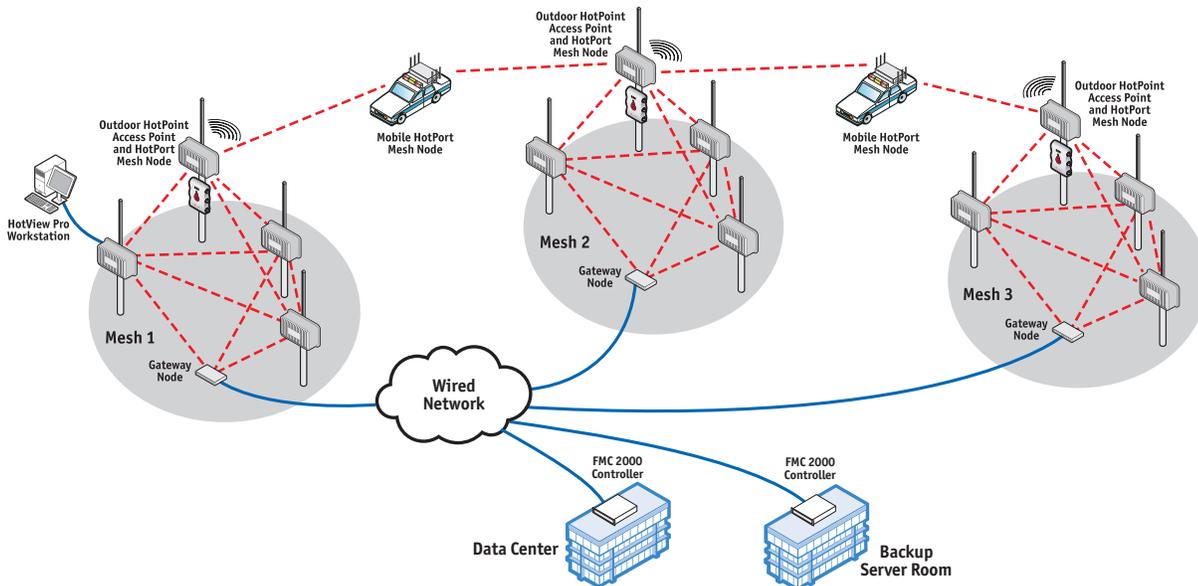


Software
HotView Pro™ Mesh Management Software



Accessories

Antennas, Mounting Kits, Cables, etc.



Enabling infrastructure mobility for moving vehicles

Data Sheet



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