

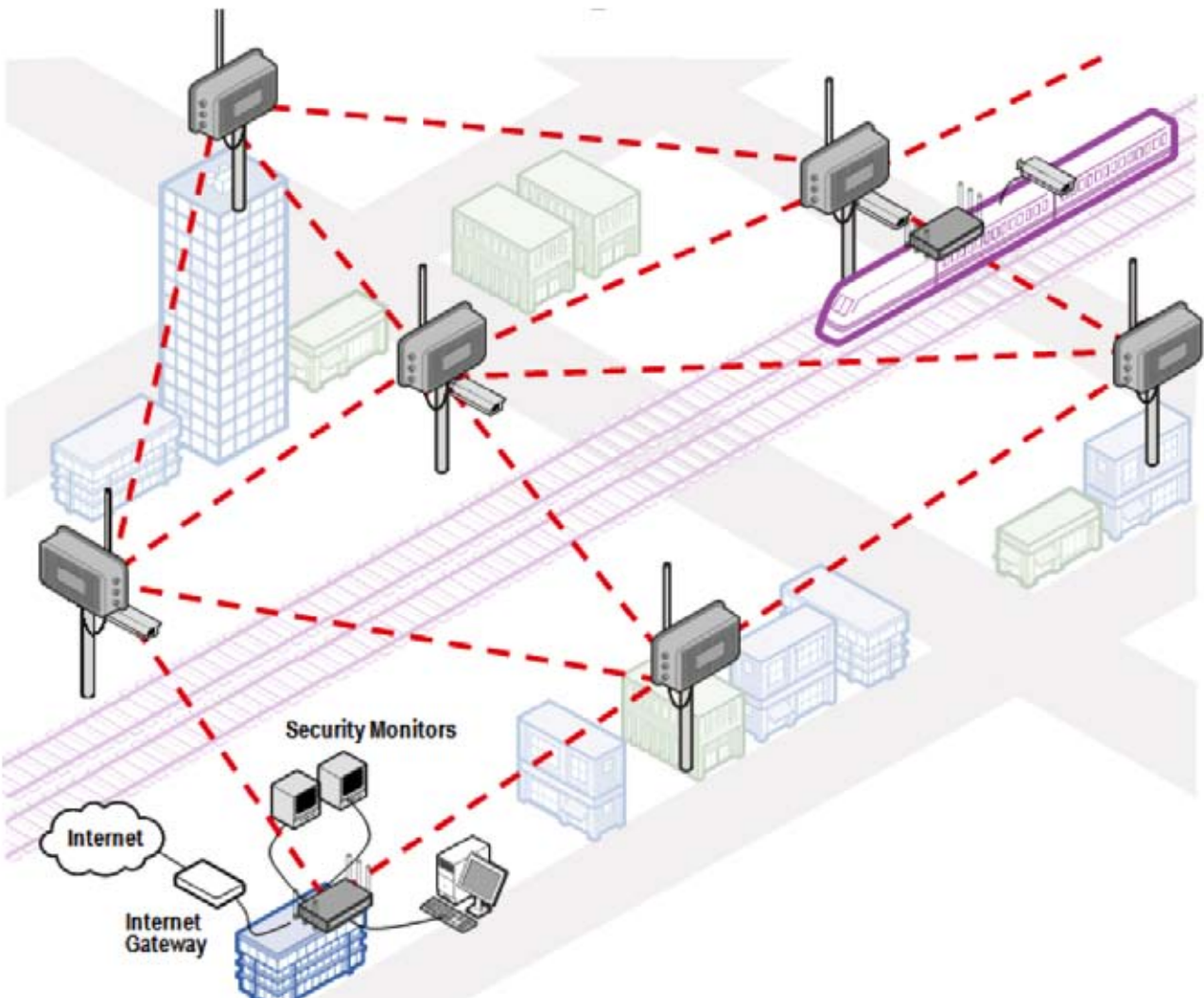
## **FIRETIDE HIGH SPEED CONNECTIVITY SOLUTION**

Wireless Video surveillance and WiFi Access at high speeds



**T**ransportation and mass transit agencies have a variety of security, operations, and communications challenges that can be quickly and cost-effectively solved with Firetide wireless mesh networks. Firetide enables rapid deployment of wireless networking infrastructure to provide mobile connectivity 24/7 for passenger and operator safety, employee mobility, efficient business operations, liability protection, and enhanced services to patrons, including Wi-Fi® access.

With a wireless mesh network from Firetide, you can realize the benefits of IP-based real-time video surveillance, wireless connectivity at depots, and voice over IP communications. Firetide wireless mesh networks dramatically increase passenger and operator safety—where previously real-time response has been impossible—enhancing the safety and security of passengers, first responders, and transit personnel alike.





## Wireless Mesh Networks for Your Transportation Application

With its high capacity and robust performance, Firetide provides mobile infrastructure with uninterrupted video and roaming. IP security cameras, Internet access for control of business operations, security monitoring and VoIP—all can all be implemented quickly, cost effectively, and securely with a Firetide mesh network.

**Operator and passenger safety** – Mobile-to-mobile connectivity enables transmission of live video feeds to laptops in police officers' networked vehicles, allowing first responders to view an onboard incident as it unfolds, in real time. Consequently, responders can plan and execute tactics faster and smarter.

**Enhanced business operations** – Fixed-to-mobile connectivity provides real-time visibility into operational conditions and enables immediate response to emergencies, adverse weather, and traffic congestion.

**Ad hoc communications with first responders & emergency services** – Self-forming nature of wireless mesh enables creation of on-site incident response centers and inter-agency communications.

**Wi-Fi® access for passengers on the same infrastructure** – Firetide wireless mesh enables you to offer enhanced services to passengers without having to deploy a separate network.

**Property protection/vandalism prevention** – Cameras operate 24/7 and monitor distributed areas simultaneously. Firetide wireless mesh networks are ideal for deploying IP security cameras that can be viewed from a central location.

**Mobility of workers and equipment** – Quick deployment of temporary networks based on workflow or threat assessment helps prevent crime, improve communications and increase employee safety.

### Firetide Advantages

#### Superior video performance

providing up to 400 Mbps throughput with 1 ms latency per hop, for real-time video streaming.

#### Uninterrupted mobility

real-time video, voice and data mobility on moving vehicles over 90 mph.

#### Unmatched network scalability

supporting up to 1,000 nodes per network

#### Unequaled network security

including AES 256 end-to-end encryption.

#### Unrivaled voice quality

enabling VoIP without dead air or voice quality restricted by network performance.



HotPort 7000  
Outdoor Mesh Node



HotPort 7000  
Indoor Mesh Node

### HotPort® 7000 Wireless Mesh Nodes

Firetide HotPort 7000 MIMO-based infrastructure mesh delivers best-in-class performance with throughput of up to 400 Mbps indoors/300 Mbps outdoors, exceeding that of current wired solutions like T1, Fast Ethernet and OC-3 fiber, providing a viable alternative to fiber or leased lines. The HotPort 7000 mesh enables delivery of multiple high-speed services over wireless, including high-resolution real-time video surveillance, broadband access, HDTV, multiple voice streams over IP and high-speed infrastructure backhaul. Indoor and outdoor models feature: integrated tools for easier deployments and network management, dual or single configurable radios in the 2.4, 4.9 (U.S. public safety licensed band) and 5 GHz frequency ranges.



### Firetide Mobility Controller

The Firetide Mobility Controller is a software platform enabling advanced wireless infrastructure mobility. Working in concert with HotPort mesh nodes and HotView Pro network management software, Firetide Mobility Controller delivers high speed infrastructure mobility and seamless client roaming. With the Firetide Mobility Controller, Ethernet enabled devices such as network video cameras, Wi-Fi access points, RFID readers, and laptop computers maintain network connectivity while traveling at high speeds across multiple HotPort mesh networks and IP domains.



### HotView Pro™ Network Management Software

HotView Pro provides centralized management and control of single or multiple Firetide mesh networks with an intuitive web based user interface. It is a sophisticated, yet simple-to-use platform for configuring, monitoring, and managing HotPort mesh nodes, HotPoint access points, and HotClient customer premises equipment (CPE). The HotView software incorporates a number of unique flow control, traffic prioritization and management capabilities to deliver high throughput and low latency needed to support concurrent voice, video and data communications.



HotPoint 4000  
Indoor/Outdoor AP      HotPoint 5000  
Indoor/Outdoor AP

### HotPoint® Wireless Access Point

Firetide HotPoint wireless access points deliver a modular access solution for large scale, indoor and outdoor wireless mesh networks. Modular design enables full network and software integration of the access points with a Firetide wireless mesh network while at the same time permitting independent physical placement of the hardware to provide optimal accessibility for Wi-Fi clients. HotPoint 4000 access points operate in 802.11b/g at the 2.4 or 5 GHz band while the HotPoint 5000 access points operate in 802.11a/b/g/n at the 2.4, 4.9, or 5 GHz band. Both series feature WPA2 and WEP encryption, industry compliant QoS, and durable enclosures. High-power radios provide extended reach and outstanding penetration.



### Firetide WLAN Controller

Firetide WLAN Controller offers centralized configuration and management of the wireless LAN. The all-inclusive controller delivers security, policy and mobility for up to 50 access points. Three controller appliances can be stacked to support up to 150 APs. Building on its extensive experience with wireless mesh backhaul, where bandwidth is precious, Firetide designed its access solutions to distribute intelligence to the edge, resulting in superior coverage and user experience with only a minimal amount of bandwidth taken up by critical control traffic to the centralized WLAN Controller.



HotClient 2000  
Outdoor CPE



HotClient 2000  
Indoor CPE

### HotClient™ 2000 Customer Premises Equipment (CPE)

The Firetide HotClient 2000 customer premises equipment (CPE) provides a secure and reliable solution for extending the reach of outdoor wireless mesh networks to indoors. It enables operators deploying municipal and enterprise wireless networks to maintain optimal user experience and connectivity anywhere. Featuring a high-power 400 mW radio, the HotClient CPE connects to outdoor access points to provide excellent signal availability bridging high-power outdoor networks to low-power consumer wireless devices. When utilizing Firetide access points, service providers have the ability to monitor and report compliance to service level agreements on a per user basis.



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