

FastPath Mesh™

Mobile Ad-hoc Networking

Fortress FastPath Mesh™ is a layer-2 mesh technology that delivers the long sought MANET (Mobile Ad-hoc Networking) capability without the complexity and network overhead of layer-3 routing algorithms. By leveraging the most mature aspects of current mesh technology and combining them with proven engineering focusing on the needs of modern tactical wireless networking, Fortress has developed the complete solution for ubiquitous secure access. With industry leading throughput and multi-hop agility, Fortress delivers organic, ad-hoc network formation that extends the range of end-to-end connectivity and enables units to join and exit the network seamlessly.

Performance: FastPath Mesh provides fast link setup, low latency and broadband throughput regardless of the size of the mesh network. FastPath Mesh includes specific optimizations that prevent network flooding and support multicast traffic to better support critical high-bandwidth applications such as streaming video and VoIP.

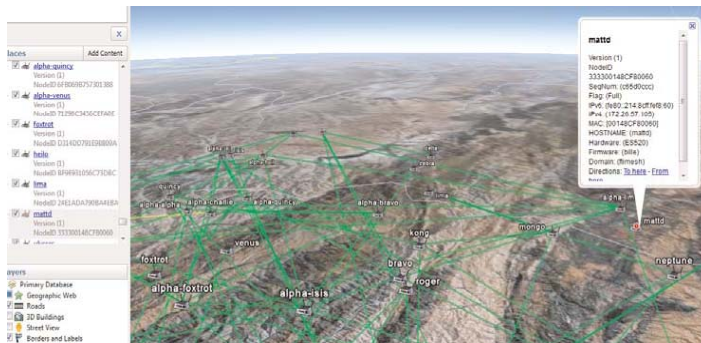
Scalability: Because the Fortress FastPath Mesh routing protocol requires only a small percentage of network bandwidth and does not change appreciably as the network scales, a Fortress-enabled mesh network is far more scalable than those using traditional routing protocols.

Mobility: FastPath Mesh allows nodes to move around within the network as well as to leave and re-join the network. This is achieved through a combination of proactive and reactive routing protocols that allow for continuous route refinement and provide faster failover.

Security: Fortress has a long history of providing FIPS 140-2 validated wireless solutions as well as being at the forefront of implementing NSA Suite B. Fortress wireless mesh products fully support these levels of security with end-to-end encryption.

Compatibility: FastPath Mesh is not specifically tied to 802.11 networks; it also works over 802.16 (WiMAX), military RF, free space optics (FSO) or standard Ethernet. While Fortress FastPath Mesh is built around IPv6, it also fully supports IPv4 and other non-IP based applications.

Fortress Mesh Viewer showing location of mesh nodes and wireless links.



Product Datasheet



Features and Benefits:

- Performance
- Scalability
- Mobility
- Security
- Compatibility

Mesh Viewer™

Managing and Monitoring

Fortress Mesh Viewer™ enables managing and monitoring of the mesh network. Fortress Mesh Viewer provides information on health of nodes and connectivity between the nodes within the mesh network. With Mesh Viewer, users get:

Centralized Monitoring of Mesh Nodes

- Node connectivity
- Signal strength and link quality

Logical and Map Overlay Modes

- Google Earth integration
- KML support

Location Tracking for GPS-enabled Nodes

Fortress mesh nodes report their geographic location to Mesh Viewer. Their location is retrieved from a global positioning system (GPS) receiver integrated into the mesh node, or connected to an external interface of the mesh node. If GPS is not available, the administrator may configure a static location for the node. Mesh Viewer easily integrates with popular mapping tools, including Google Earth or any GIS package that supports KML.

Fortress Mesh Viewer integrates with Google Earth to show location of mesh nodes and wireless links.



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