



Multi-Net Mobility™

Frequently Asked Questions



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1 DEFINITIONS

1.1 What is the difference between Multi-Net Mobility™, Mobile VPN, and a Mobile Router?

A **Mobile VPN** is a system solution composed of software both in the client device and in a server in the customer's fixed end. It provides a Virtual Private Network (encrypted data tunnel) with mobility - allowing users to seamlessly and securely roam between multiple public or private data networks.

Multi-Net Mobility (MNM) is Motorola's Mobile VPN product. It runs Windows XP™ laptops including Motorola's ML910™ rugged notebook, Panasonic Toughbook®, as well as mobile workstations such as the Motorola MW810.

A **Mobile Router** is a dedicated hardware device that serves as a Mobile VPN access point and can also route data for various IP devices connected to it and for wireless devices within range of the vehicle access point. This is also referred to as a Wireless Vehicle Area Network (WVAN). Motorola's MW810, loaded with Mobile VPN software featuring WVAN, can operate as a mobile router.

2 WHY MULTI-NET MOBILITY?

2.1 Why would I need Multi-Net Mobility when I use only one network?

Multi-Net Mobility enhances security and mobility (via Session Persistence) even for a single network configuration. It provides security services, including device authentication and data encryption, between the user's device and the fixed-end server. MNM also provides Session Persistence, which keeps the user's TCP/IP application sessions running during intervals when network coverage is unavailable, and resumes communications when the network connection resumes. Multi-Net Mobility can also optimize the TCP protocol to improve throughput traffic on narrowband networks, such as High Performance Data (HPD).

2.2 When do I need a Multi-Net Mobility software-based solution vs. a hardware mobile router?

Multi-Net Mobility software can be used with a user's laptop (like Motorola's ML910 notebook) or mobile workstation (Motorola's MW810, a trunk-mounted CPU with keyboard/display by the dashboard). A mobile workstation, which can run both the user's applications and Multi-Net Mobility, is a good choice for customers using trunk-mounted modems to access several wireless networks.

A hardware mobile router also provides a wireless vehicular area network (WVAN): a mobile hot spot with various wired and wireless IP devices around the vehicle communicating to a trunk-mounted CPU (with or without display & keyboard), which serves as the Mobile VPN access point. Multi-Net Mobility software running on an MW810 unit will provide this capability.

2.3 Why is Multi-Net Mobility better than what the competitors offer?

Multi-Net Mobility offers a standards-based Mobile VPN product with broadband data capability as good as or better than the competition. Multi-Net Mobility offers three unique features of particular interest to HPD customers: Application Priority, TCP Optimization and Optimized Network Switching. Application Priority allows the user to set priority for data for particular applications, so that mission critical or time-sensitive video or VoIP data are handled with the right priority level as they pass through the MOTOMESH network. MNM optimizes the TCP communication protocol to eliminate the chattiness of TCP. By controlling the TCP dialog between applications, MNM can maximize the network's bandwidth capabilities. Optimized Network Switching uses signal quality information from Mesh, HPD, or WiFi modems to make quicker switching decisions as the user drives into overlapping coverage areas.

3 COMPATIBILITY

3.1 Which networks work with Multi-Net Mobility?

Multi-Net Mobility supports a range of IP networks including public carriers such as CDMA 1xRTT, and EV-DO, GPRS and EDGE, 802.11 WiFi, MOTOMESH, Astro IV&D, Astro 3.1 Conventional and HPD networks.

3.2 Can I use my existing applications with Multi-Net Mobility?

Multi-Net Mobility supports connectivity with a broad range of IP-based applications. No modification of these applications is required to use MNM.

3.3 Can I use Multi-Net Mobility with my existing VPN, or other sources of encryption?

Multi-Net Mobility provides its own VPN services with mobility (i.e. the Mobile VPN stays connected even as the user roams between networks), but does not provide mobility for other VPNs that may be running on the user's device.

3.4 Will Multi-Net Mobility interoperate with other vendors' Mobile VPNs?

No. As Multi-Net Mobility (as well as other competitors Mobile VPNs) run as a virtual network interface for the user's device, running both on one device is not recommended.

3.5 Will Multi-Net Mobility work on any Windows device?

Multi-Net Mobility will work on devices running Windows XP. Specific certified client platforms are listed on the specification sheet.

3.6 Can I run Multi-Net Mobility on my existing server?

Multi-Net Mobility will be supported on the HP DL360 G5 Proliant server (or equivalent) running Red Hat® Linux ES 4 Update 4, which is also available from Motorola.

4 MULTIPLE NETWORK SUPPORT

4.1 How does Multi-Net Mobility choose a network when more than one is available?

Multi-Net Mobility chooses networks using a best network list, configurable by the customer. If the highest priority network is unavailable, the next available network on the list is selected. When the highest priority network is again available, MNM switches the user back to that network. MNM can also be configured to block specific applications from specific networks, and use signal strength information (for those network modems that provide it) to make the switching decision.

4.2 Can I route to two or more wireless networks at the same time?

Multi-Net Mobility selects and uses one wireless network at a time, and switches to the best network available according to a preset table.

5 RADIO IP® SUPPORT

5.1 Will Motorola continue to distribute Radio IP's MVPN solutions?

Multi-Net Mobility is one of many solutions in Motorola's MVPN portfolio of offerings which will continue to include third party solutions. Radio IP, which is a MVPN solution important to our DataTAC customer base, will continue to be offered by Motorola.



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