



# MOTOROLA SOLUTIONS MOBILE VPN

Mobile Virtual Private Networks (Mobile VPN) play a crucial role in today's public safety communication networks, helping keep information secure while managing data across multiple mobile applications and wireless networks. As public safety agencies increasingly consider deploying LTE wireless broadband networks, Mobile VPNs that were built with narrowband networks in mind may not be up to the challenges that wireless broadband demands. The introduction of Public Safety LTE broadband networks bring a new set of challenges; over-the-air bandwidth is no longer the top concern. Instead, aspects such as high capacity infrastructure, Quality of Service (QoS) management, high assurance security and real-time applications are becoming more important.

In today's environment where critical information is exchanged via wireless communications, customers need an end-to-end data encryption/security solution, on which they can rely. Motorola launched a fully validated, industry leading solution that meets customer, business and critical technical security needs. Motorola Solutions Mobile VPN goes above and beyond

supporting software-based encryption (FIPS 140-2 Level 1). It also supports the optional CRYPTR micro hardware-based encryption module (FIPS 140-2 Level 3).

Motorola Solutions Mobile VPN provides end-to-end data security between the end user device and the customer's enterprise network, supporting device to agency confidentiality for all communications. This solution is specifically designed to solve customers' security, connectivity and mobility requirements.

## KEY FEATURES:

- **Standards-based Solution:**  
Motorola Solutions Mobile VPN is built on IPsec and MOBIKE open standards. Majority of solutions in market today are based on Mobile IP standards or proprietary protocols to handle mobility. MOBIKE enables an efficient management of IPsec Security Associations and, hence, enables efficient handling of mobility (when user moves from one network to another).
- **Supports DSCP (ToS bits) Promotion:**  
Quality of Service (QoS) is one of the most powerful features of a Public Safety LTE system. The ability to assign priority levels to individual data streams can help ensure that the most time-sensitive information has the bandwidth and network resources needed. For real-time video applications, much more clarity can be achieved over a QoS-managed LTE connection compared to a "best effort" connection. Motorola Solutions Mobile VPN enables mission critical data by supporting QoS and priority, as outlined in standards. Differentiated services code point (DSCP) promotion preserves the QoS of each application data flow after encapsulating the packet.

**PRODUCT DATA SHEET**  
MOTOROLA SOLUTIONS MOBILE VPN

- Supports High-assurance Features and Encryption:**  
 Motorola Solutions Mobile VPN can work with CRYPTR micro to store the client's digital certificates that are used to securely identify and authenticate the device to the Mobile VPN server in a FIPS 140-2 Level 3, tamper-resistant Hardware Security Module (HSM). Mobile VPN supports Suite-B-GCM-256 (AES-GCM 256 bit encryption) and Elliptic Curve Digital Signature Algorithm (ECDSA) certificates
- Standards-based Authentication:**  
 Motorola Solutions Mobile VPN supports RSA, ECDSA, Pre-Shared Key (PSK), Public Key Cryptography, provided by Public Key Infrastructure (PKI) and Username and Password (using EAP RADIUS) authentications.
- Mobility and Application/Session Persistence:**  
 Motorola Solutions Mobile VPN keeps users connected as they move in and out of coverage or switch networks (4G/LTE, 3G, WiFi). It isolates applications from underlying Radio Access Networks (RAN) by maintaining the IP address for the user regardless of changes due to network switching.
- VPN and Mobile VPN Offering:**  
 Motorola Solutions Mobile VPN provides customers with a unique option to deploy and purchase only VPN option if they do not have mobility needs. Customers can deploy/activate Mobility later when the need arises. This way, customer can better manage their costs and requirements as well as mix-match VPN and MVPN deployments.
- Application Filtering and Policy Management:**  
 Motorola Solutions Mobile VPN empowers administrators to configure applications to operate on specific networks and to configure policies for users based on groups, roles, etc.
- Integrated Client:**  
 All Motorola Solutions LTE handhelds (LEX755, LEX L10 - Android), vehicular modems (VML750 - Linux), and converged devices



(APX7000L - Linux) are pre-loaded with the Motorola Solutions Mobile VPN client to simplify out-of-the-box performance.

- Broad Offering on Android and Windows Laptops:**  
 Motorola Solutions Mobile VPN delivers security across a wide range of devices. Android and Windows are currently supported, with other choices coming soon.
- Redundancy Support:**  
 Motorola Solutions Mobile VPN provides full redundancy support. The primary and secondary servers are synchronized. They react to outages on the primary server by rerouting network traffic through the secondary for failover assurance. Detection of connection failures and failover to the backup server is automatic by re-establishing the connection to the backup Motorola Solutions Mobile VPN virtual machine. Information such as licensing is automatically propagated from the primary to backup servers.
- Highly Scalable Solution:**  
 The Motorola Solutions Mobile VPN solution can be expanded and upgraded to fit user's needs. Increased number of users can be supported by licensing and/or by adding servers.

**OFFERED HARDWARE:**

Motorola Solutions Mobile VPN is hosted on Hewlett-Packard ProLiant™ DL380 G8 server running RHEL and fully configured by Motorola.

**HARDWARE COMPONENT CONFIGURATION**

COMPONENT DESCRIPTION	CERTIFIED CONFIGURATIONS FOR MVPN
Processor	2 x Intel® Xeon® E5-2670 (2.60GHz/8-core/20MB/8GT-s QPI/115W, DDR3-1600, HT, Turbo2- 4/4/5/5/6/6/7/7)
System Memory	64 GB Total (8 x 8 GB PC3-12800R (DDR3-1600) )
Hard Disk Controller	HP Smart Array P420i/1GB with FBWC (RAID0/1/1+0/5/5+0)
Hard Drives	2400 GB Total Local Raw Disk Space (2 x HP 1200 GB 6G SAS 10K 2.5 in SC ENT HDD) 12.7 mm SATA DVD RW Jb Kit
Optical Storage Device Removable Storage	8 GB SDHC Flash Media Kit
Network Interface Cards (NICs)	20 ports total (One HP Ethernet 1 Gb 4-port 331FLR Adapter, Four HP NC365T 4-port Ethernet Server Adapter)
Graphics Processor with Memory	Integrated Matrox G200 video
Power Supplies	Two Power Supplies total (2 x HP 750W CS Platinum Plus Hot Plug Redundant Power Supply)

**Motorola Solutions Mobile VPN is supported on following devices/operating systems:**

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|---------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------|
| <b>Motorola Devices:</b> <ul style="list-style-type: none"> <li>LEX 755, LEX L10</li> <li>VML 750</li> <li>APX 7000L</li> </ul> | <b>BYOD:</b> <ul style="list-style-type: none"> <li>Android v4.2 and later</li> </ul> | <b>Desktops / Laptops:</b> <ul style="list-style-type: none"> <li>Windows 7</li> <li>Windows 8.1</li> </ul> |
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