Sierra Wireless ® InMotion Solutions oCM VPN Server

FEATURES

- Integrated Mobile VPN
- Sub-second switching
- Multi-network support
- Simple to deploy

Multi-Network, Secure IP Mobility

Sierra Wireless ® delivers a suite of InMotion Solutions that connect mission critical workforces.   Ensuring reliable and secure communications for your field workforce is much more complex than it is for office workers. The field workforce is mobile, working across multiple networks as coverage dictates. The hand-off between networks must happen quickly, transparently and securely. Furthermore, the number of devices and applications being used in vehicles is increasing. The IT team requires a solution that secures the myriad devices and applications over any wireless network and one that switches traffic quickly enough that new higher bandwidth applications like voice and video operate without interruption.

FAST NETWORK SWITCHING

The oCM is a mobile-optimized VPN server, securely extending the enterprise network into the vehicle. Designed to work with the oMG Mobile Gateway (oMG) and oMM Management System (oMM), the oCM consolidates security onto a single platform for all your connected devices and applications in the vehicle area network.

With the combination of the oMG and oCM, enterprise applications that require a stable connection and/or static IP address can now be fully mobilized and operate in the vehicle over multiple networks, including data networks from different service providers, public and depot Wi-Fi infrastructures. Static IP plans from the service provider are no longer required. Secure connectivity of devices without VPN client support can be realized. FIPS compliance can now be met. Management of the network is now within the full control of the enterprise.

MULTI-NETWORK SUPPORT

The use of multiple wireless networks highlights the need for a new approach to security. An in-vehicle communications device must be aware of the network environment and know when to switch. The oMG is constantly monitoring all available networks to determine if connections can be made and if data can be successfully transmitted. It then applies a wide range of user-defined policies to determine which network can be used and immediately switches the traffic. This awareness of the multi-network environment coupled with the ability to keep secure tunnels active over multiple paths allows the switching to happen quickly and securely.

SIMPLIFY DEPLOYMENT

The oCM VPN server works with oMG devices and the oMM management system and simplifies deployment of secure mobile communications across your fleet. Once installed in the DMZ and connected to the corporate firewall, the mobile environment can be set up independently. The MOBIKE software running on the oMG secures all vehicle area network traffic in and around the vehicle without the need for special software on client devices, and works with the oCM VPN server to secure traffic over multiple wide area wireless links. oCM uses standards-based protocols, ensuring organizations are not locked into proprietary security solutions.

COST EFFECTIVE

Since security is provided in both the LAN and WAN environments, and licensing is per oMG, oCM is a cost effective security solution. Specialized client software is not required on devices such as laptops, tablets or Smartphones. New applications and devices can be deployed without incurring the additional cost of client licenses, and the reduction in reconfiguration and maintenance effort will result in significant savings for IT departments.

TECHNICAL SPECIFICATIONS

FEATURE	SPECIFICATION
ROUTING	• IPv4 routing - BGPv4, OSPFv2, Custom Static Routes
IP ADDRESS MANAGEMENT	• Static
ENCAPSULATION	• Ethernet, 802.1Q VLANs
FIREWALL	• Stateful Inspection Firewall • ICMP Type Filtering
SECURITY PROTOCOL	• IPsec using Internet Key Exchange (IKEv2) with Mobility and Multi-Homing Extension (MOBIKE)
VPN	• Site to Site (IPsec)
ENCRYPTION	• 3DES, AES Encryption - 128- and 256-bit • MD5 and SHA-1 Authentication • RSA • Diffie Helman Key Management • FIPS-140-2 compliant (optional)
HIGH AVAILABILITY	• VRRP
ADMINISTRATION & AUTHENTICATION	• Integrated CLI • SSHv2/SSH Public Key
LOGGING	• Syslog • SNMPv2c
HARDWARE	• 19" 1RU rack-mount server appliance. Redundant configuration highly recommended