RICON Mobile provides hardware (3G/4G routers) and software (RMS Ricon Management System) for wireless wide area network backup applications.

Wide area network (WAN) outages are simply a fact of life for many enterprises, whether they are caused by natural disasters or ancient and unreliable copper networks. A WAN backup plan is critical for many industries. Enterprises have traditionally used WAN backup solutions like analog lines but wireless WAN backup options like cellular 3G networks and nascent 4G networks have surpassed these older wired technologies. A wireless WAN backup is not only a lower-cost alternative but is more effective in maintaining uptime at remote sites than wired options. Enterprises also rely on 3G and 4G networks for wireless LAN backup or primary links in ATM machines, retail kiosks and digital signage solutions. Wireless WAN solutions are especially appealing in these cases because enterprises can avoid negotiating with a third-party property owner over pulling cables for backup links through shopping malls and other multitenant spaces. Finally, 3G networks and 4G networks can also serve as a quick and easy stopgap measure to get new remote sites up and running while waiting for primary WAN links to be installed and provisioned.

RICON wireless networking solution combines all most advanced wireless backup and provides secure, reliable, flexible and cost effective networking solutions for monitoring IP cameras. RMS Ricon Management System, working together with RICON routers as a part of the RICON solution, monitors connectivity on the mobile network, informs about network availability, signal strengths also controlling devices remotely.

**HOW IT WORKS**

1. hardware: RICON 3G/4G routers
2. software: RMS Ricon Management System

**CASE STUDY: wireless wide area network backup**

RICON Mobile provides hardware (3G/4G routers) and software (RMS Ricon Management System) for wireless wide area network backup applications.
Option 1: single module/ single SIM

- Remote locations
- 3G/4G (backup link)
- RICON Router
- Terminal Operating Data
- Router Operating Data
- Data securely locked all the way in VPN tunnel
- GPRS / EDGE / UMTS / HSDPA / LTE
- GPRS / EDGE / UMTS / HSDPA / LTE
- VPN tunnel: IPsec, GRE, PPTP, L2TP

Option 2: single module/ dual SIM

- Remote locations
- Primary link
- Backup link
- RICON Router
- Terminal Operating Data
- Router Operating Data
- Data securely locked all the way in VPN tunnel
- GPRS / EDGE / UMTS / HSDPA / LTE
- GPRS / EDGE / UMTS / HSDPA / LTE
- VPN tunnel: IPsec, GRE, PPTP, L2TP

Option 3: dual module/ dual SIM

- Remote locations
- Primary link
- Back up link
- RICON Router
- Terminal Operating Data
- Router Operating Data
- Data securely locked all the way in VPN tunnel
- GPRS / EDGE / UMTS / HSDPA / LTE
- GPRS / EDGE / UMTS / HSDPA / LTE
- VPN tunnel: IPsec, GRE, PPTP, L2TP

Some of the RMS Ricon Management System features include:
- Touchless installation by remote configuration
- Device grouping
- Batch remote configuration
- Scheduled remote configuration
- Scheduled remote firmware upgrade/downgrade
- Multiple simultaneous terminal configuration updates
- Setting customized SLA warning thresholds
- SLA based live alarms
- Live connectivity information
- Live reports
- Terminals detailed data stream info
- Terminals detailed data stream reports for trend analyses
- Terminals alarms reports for trend analyses
- More information
**Specifications**
- Dual module/WAN/Wi-Fi multiple network mode backup
- WAN port support PPPoE, static IP, DHCP client.
- LCP/ICMP/flow/heartbeat check, ensure network usability
- SNMP network management, NTP support
- Local & remote firmware update
- Local & remote log check
- Supports DNS proxy and Dynamic DNS (DDNS)
- Supports timing operation

**Wi-Fi Characteristics**
- Standard: IEEE 802.11b/g/n
- WEP, WPA and WPA2 encryption
- WPS key
- AP, Client, station, bridge mode support

**Available Cellular Network**
- LTE 800/900/1800/2100/2600MHz
- UMTS/HSPA+/900/2100MHz
- GSM/GPRS 900/1800/1900MHz
- HSPA+/HSUPA/HSDBA/WCDMA/UMTS
- 2100/1900/900/850/800MHz
- EDGE/GPRS/GSM 1900/1800/900/850/800MHz
- HSPA+/HSUPA/HSDBA/UMTS 2100/1900/900/850/800MHz
- EDGE/GPRS/GSM 1900/1800/900/850/800MHz
- CDMA 2000/EVDO Rev.A 800MHz
- CDMA 2000/EVDO Rev.A 800/1900MHz

**Interfaces**
- 4×10/100Mb LAN interface
- 1×10/100Mb WAN interface
- 1×RS-232 console port(RJ45)
- 2×SMA-K antenna interface
- 2×SMA-K antenna interface (Wi-Fi)
- 2×Standard SIM/R-UIM interface
- 1×Standard DC power interface

**Wi-Fi Characteristics**
- Standard: IEEE 802.11b/g/n
- WEP, WPA and WPA2 encryption
- WPS key
- AP, Client, station, bridge mode support

**Routing Protocols**
- Static route
- RIPv2/OSPF dynamic route

**VPN**
- IPSec
- PPTP/L2TP client
- GRE/IPIP

**Firewall & Filtering**
- IP packet/Domain/MAC filter
- NAT
- DMZ

**Status LEDs**
- System
- Power
- WLAN (Optional)
- WAN
- LAN (LAN1~LAN4)
- RF
- NET

**Ethernet Standard**
- IEEE 802.3
- IEEE 802.3u

**Device Management**
- Local or remote web browser (IE v8 or above)
- CLI/Telnet command
- RMS Ricon Management System(optional)
- SSH config (optional)

**Wi-Fi Characteristics**
- Standard: IEEE 802.11b/g/n
- WEP, WPA and WPA2 encryption
- WPS key
- AP, Client, station, bridge mode support

**Routing Protocols**
- Static route
- RIPv2/OSPF dynamic route

**VPN**
- IPSec
- PPTP/L2TP client
- GRE/IPIP

**Firewall & Filtering**
- IP packet/Domain/MAC filter
- NAT
- DMZ

**Status LEDs**
- System
- Power
- WLAN (Optional)
- WAN
- LAN (LAN1~LAN4)
- RF
- NET

**Ethernet Standard**
- IEEE 802.3
- IEEE 802.3u

**Device Management**
- Local or remote web browser (IE v8 or above)
- CLI/Telnet command
- RMS Ricon Management System(optional)
- SSH config (optional)

**RMS Ricon Management System**
provides full control of multiply 3G routers for diagnostics and maintenance of all the mobile devices on the network.