



CASE STUDY: wireless self-service terminals



ATM, LOTTERY and TICKETING MACHINES, KIOSKS, POS

Demand for self-service terminals in many retail business sectors is growing. Different from staff service self-service machine like ATMs ticketing or lottery machines, KIOSK, POS can provides 24/7 service to your customers, to satisfy their demands every day and hour. Wireless mobile network for data transfer from machines is getting more and more popular. Why is that? Using mobile wireless network for data connectivity gives you freedom to change your self-service terminals locations any time it is needed. Mobile wireless network is also cost effective in case there is no landline available in the location you would like to put your terminal. No expensive investment in wire network infrastructure is needed then. The cellular signal coverage is all you needed.

Furthermore for any ATM, lottery, ticketing machines key requirements are: security, stability, reliability.

RICON wireless networking solution combines all of those requirements and provides reliable, flexible and cost effective wireless networking solutions for retail business sectors for their self-service terminals. With the help of RICON solutions you can put your self-service terminals anywhere you want without astronomical investment in data connectivity network infrastructure. Furthermore RMS Ricon Management System, working together with RICON router as a part of the RICON solution; monitors connectivity on the mobile network, informs about network availability, signal strengths, etc., also controlling devices remotely.

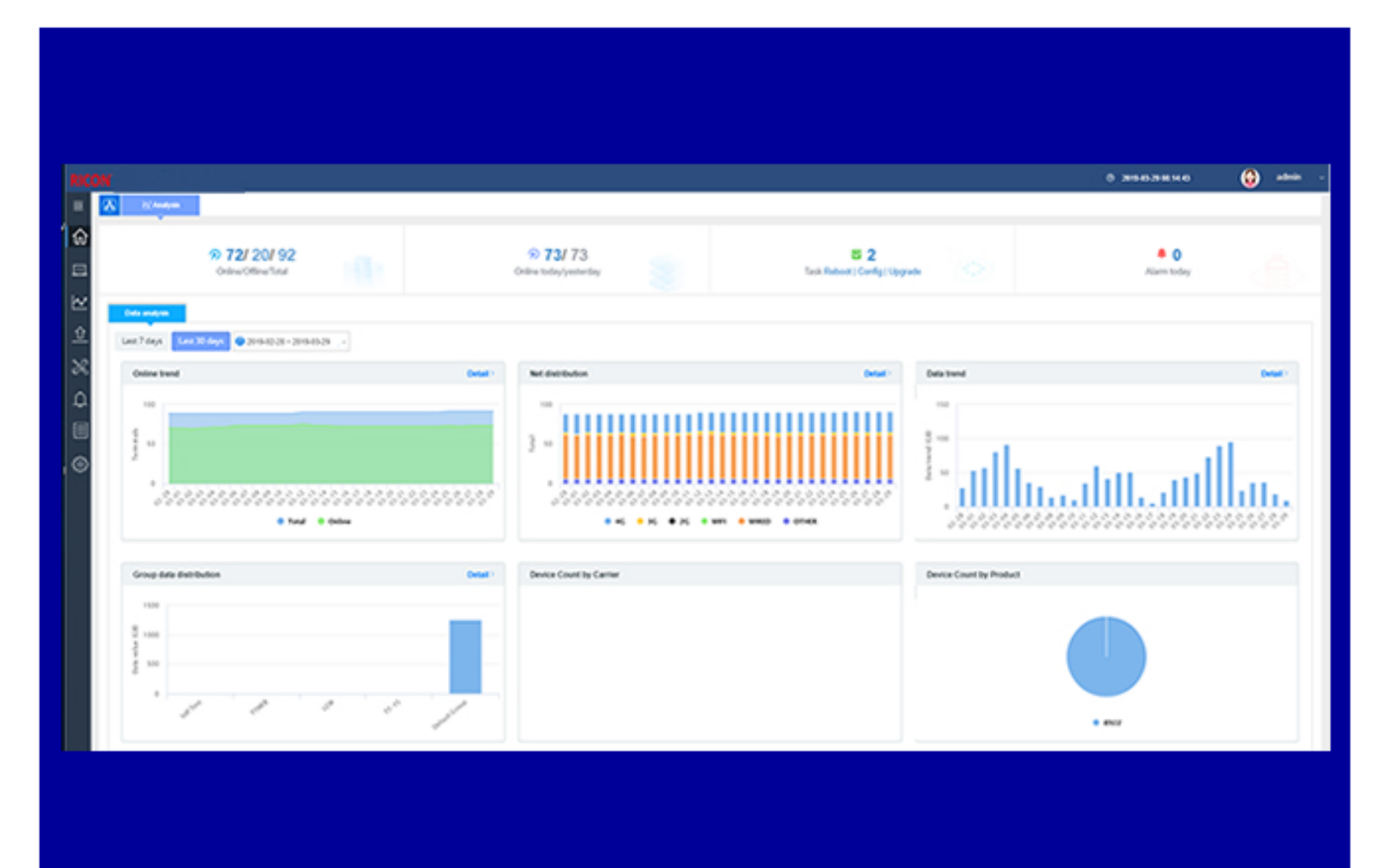
Benefits:

- Easy network deployment;
- Extremely flexible;
- Offer both LAN and WLAN access;
- Expands retail services in most convenient and cost effective way;
- Security, stability, reliability.

RICON solution for SELF-SERVICE TERMINALS

RICON 3G/4.5G router

- LTE/ 3G (dual module possible)
- WAN/ Wi-Fi multiple network backup
- WAN: PPPoE, Static IP, DHCP Client
- VPN: IPSec, GRE, PPTP, L2TP
- Ethernet 10/100, USB (optional), RS-232
- Local & Remote Firmware Update
- Web /CLI/ SSH/ RMS Ricon Management System

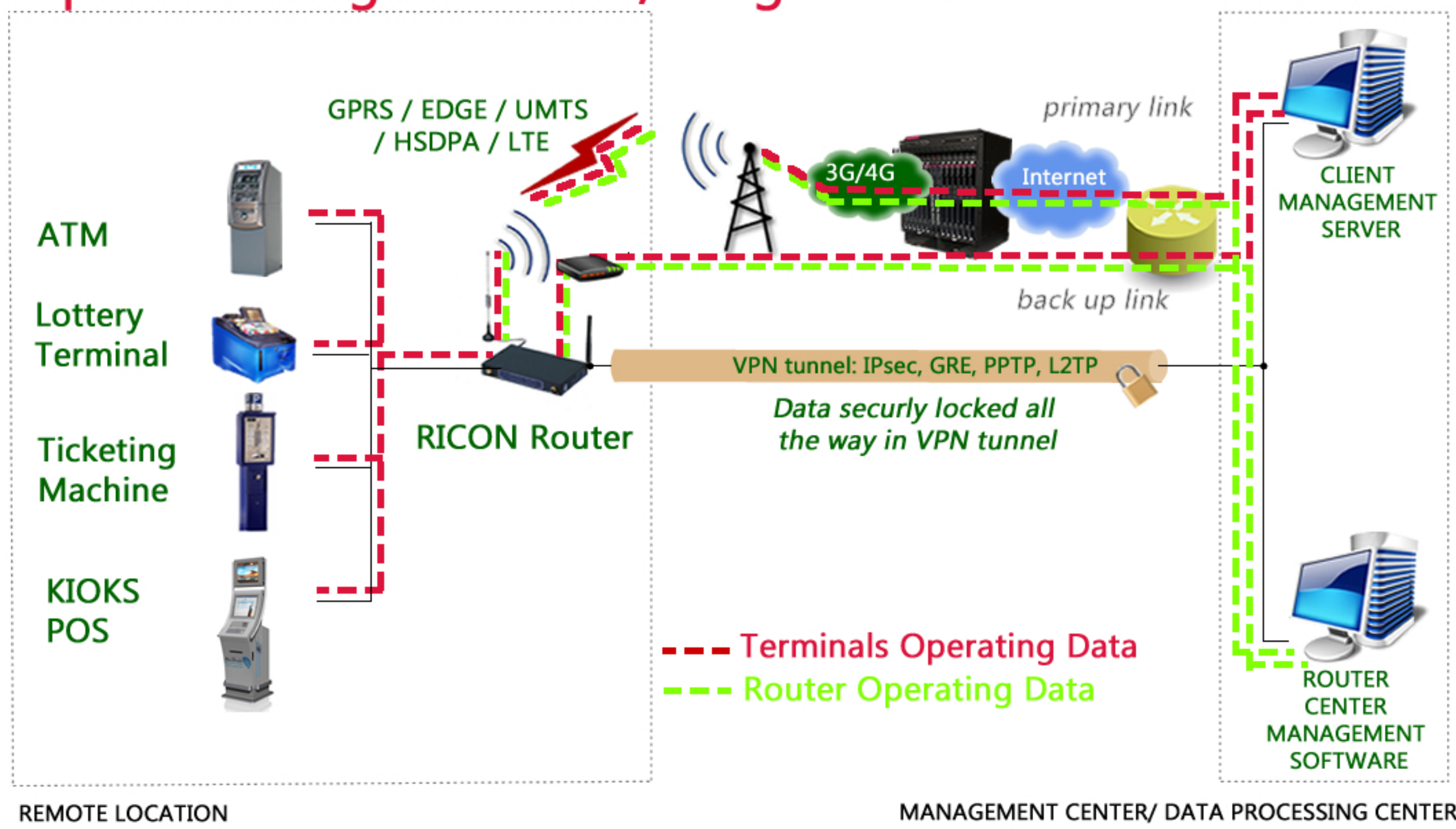


RMS Ricon Management System

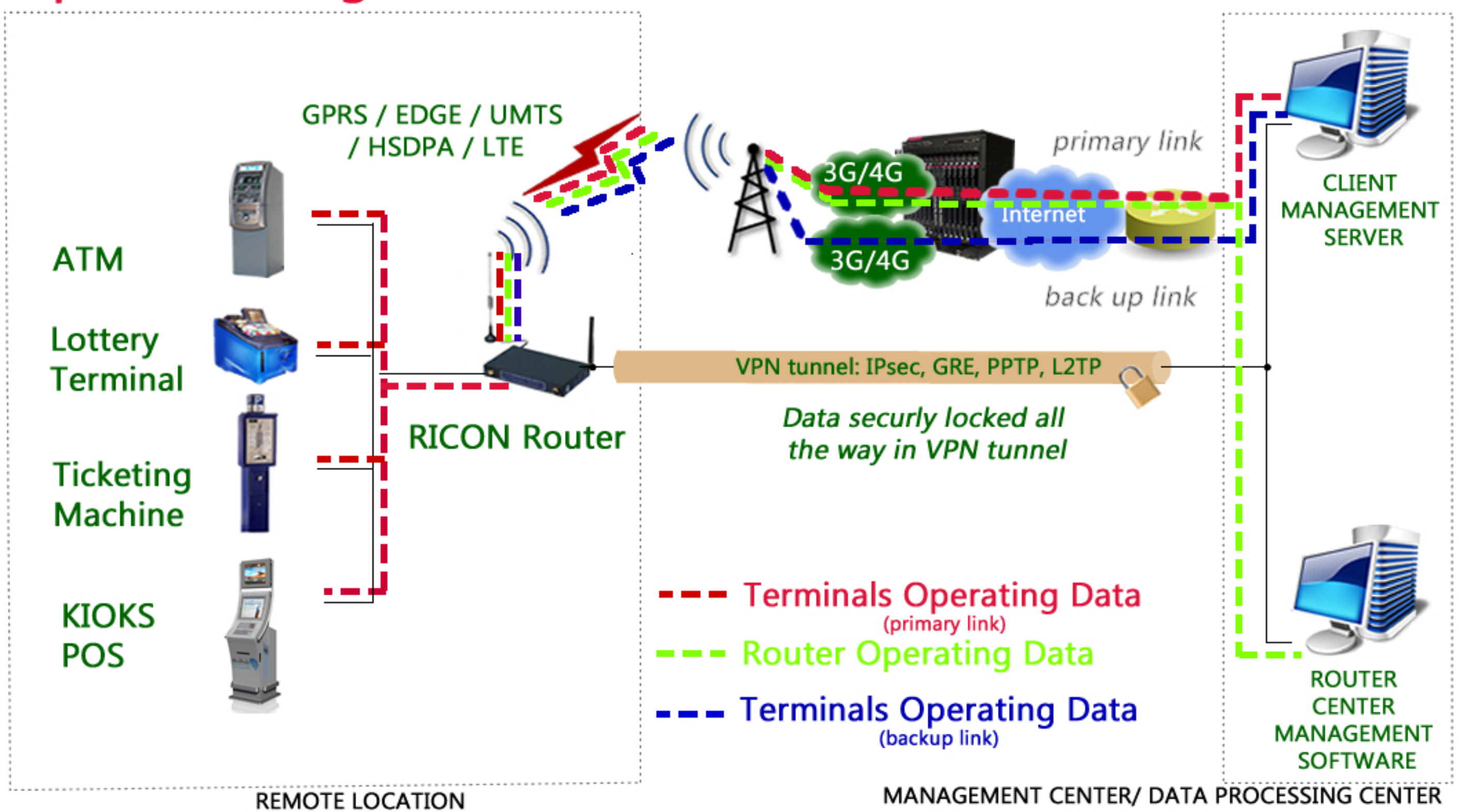
A monitoring system that is designed for continuous monitoring, control, diagnostics and maintenance of multiply LTE routers and entire communication system. It is an indispensable tool for remote network management.

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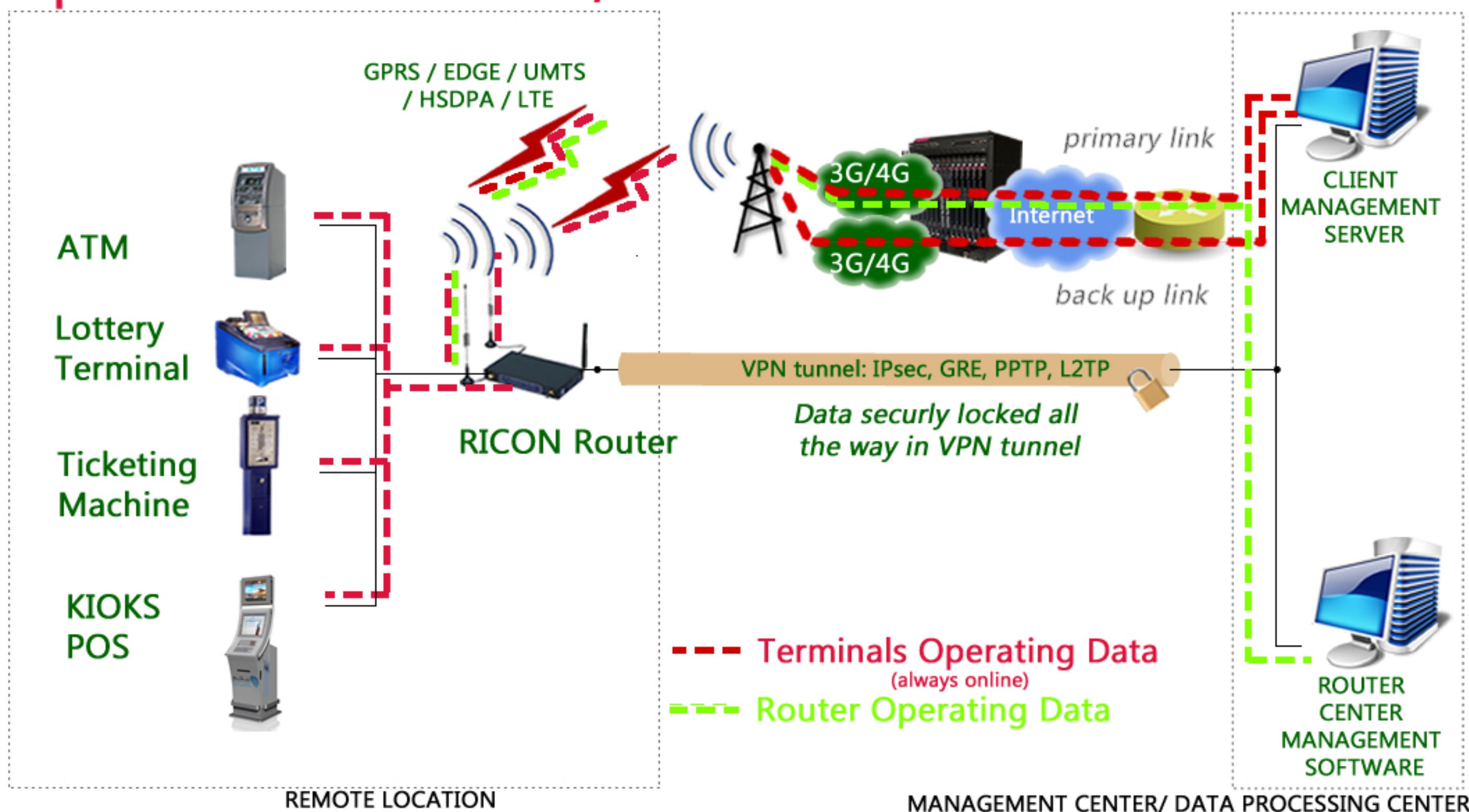
Option 1: single module/ single SIM



Option 2: single module/ dual SIM



Option 3: dual module/ dual SIM



Portfolio of RICON products and services enables to deploy secure and robust wireless network. Embracing connectivity using wireless 3G and 4.5G technologies our Customers benefit from reliable network even in the most remote,

hazardous locations. RICON team cooperates closely with Customers to provide them with a most suitable application. RICON has experience and know-how which we would like to share with you.

RICON routers and management platform major features are specially designed to meet multiply requirements of self-service terminals projects.

- Dual SIM functionality enable seamlessly alternative between two networks when one of the network signal is poor or enable to switch upon desire to other network with flexible switching time,
- Dual GSM module enable persistent network connectivity with no break in time during the network switch,
- Guaranteed security and privacy in all the transactions: VPN support, GRE over IPsec, IPsec over PPTP/L2TP,
- Safety mechanism to avoid unintentional SIM cards manipulations,
- 4 x Ethernet 10/100M is available by default,
- NAT/PAT/Port forwarding dynamically and static options are available by default,
- Router supports DHCP Server, DHCP relay and other standard DHCP features by default,
- HTTPS/HTTP supports are available by default,
- Telnet and SSH accesses,
- SNMP agent,
- LTE/ HSPA/HSDPA/UMTS/EDGE/GPRS Quadband support,
- RMA process for faulty routers,
- Configured via GUI and remotely via RMS Ricon Management System,
- Centralized control for firmware upgrade available as a section of the RMS Ricon Management System,
- Centralized statistic collection to show router uptime, network attachment, signal strength and where possible latency and packet loss per device and per router group on RMS Ricon Management System,
- Centralized control for the configuration management and group based configuration.
- For this specific project all the routers can be delivered with a project related pre-configuration.

RMS Ricon Management System centralizes access to all remote nodes, giving the user ultimate management control over the hardware. RMS Ricon Management System provides full control over data transfer and network diagnostics of thousands of routers and mobile devices on the network. Remote accessibility to the RMS Ricon Management System from any location gives the user fingertip control over multiple devices allowing the user to assess, diagnose, manage, control and resolve any problem within a very short period of time. Platform has a major impact on the cost of ownership, allowing redistribution of other valuable resources.

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

