

# RCMS

## REMOTE CRYPTOGRAPHIC MANAGEMENT SYSTEM



MANPOWER REDUCTION THROUGH REMOTE REKEYING. RCMS IS AN NSA REVIEWED AND AUTHORIZED REKEY SYSTEM.

### WHAT IS RCMS?

The Remote Cryptographic Management System solution consists of a hardware/software product called the Remote Cryptographic Management System (RCMS) and a software controller product installed on a Central Site Management Workstation (CSMW). The controller is a key management tool that allows the operator at the CSMW to remotely load keys to the MIDS LVT (Series) over a secure Ethernet LAN connection. RCMS provides monitoring control and key delivery to remote stations over TCP/IP networks. This product solution reduces staffing and travel requirements, increasing visibility of system operations. The RCMS uses a new-centric approach to provide secure, remote cryptographic system management.

### RCMS ARCHITECTURE

- A single Control Station allows the operator to view the status of the multiple remote Outstations. Communications between the Control Station and the Outstations can be over a secure TCP/IP network. Key loading and zeroize instructions are passed over the network using industry standard XML files.

### CONTROL STATION

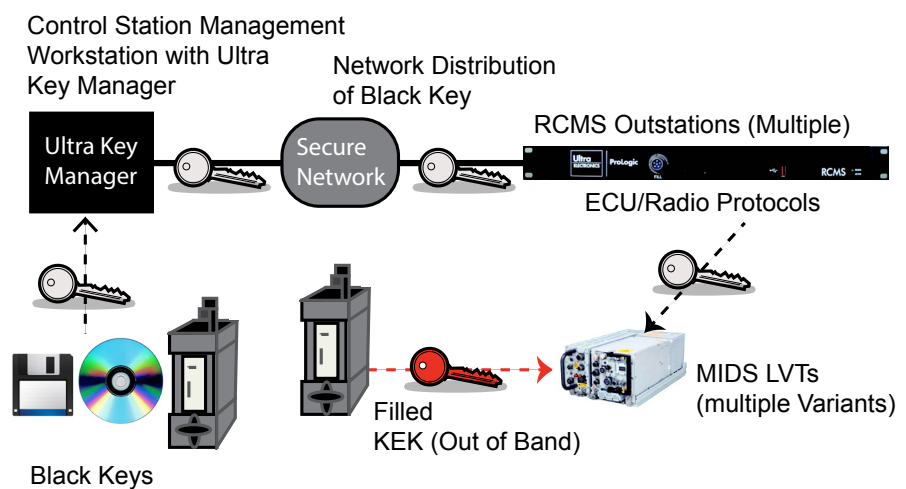
- Operator status and data logging
- Key loading controls
- Remote equipment controls (power, zeroize)
- Remote monitoring
- Single operator can control multiple Outstations

### CENTRAL MONITOR MANAGEMENT

- Commercial grade or better personal computer with keyboard, mouse and display
- Windows XP Professional (country-specific version may be required)
- Windows XP Professional Service Pack 2
- Ethernet Connection to Local LAN

### UNMANNED REMOTE OUTSTATION FEATURES WITH REMS INSTALLED

- Remote cryptographic keying
- Remote sensors (power, security, environment)
- Equipment controls and monitoring
- Multiple Outstations and ECUs



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## KEY BENEFITS

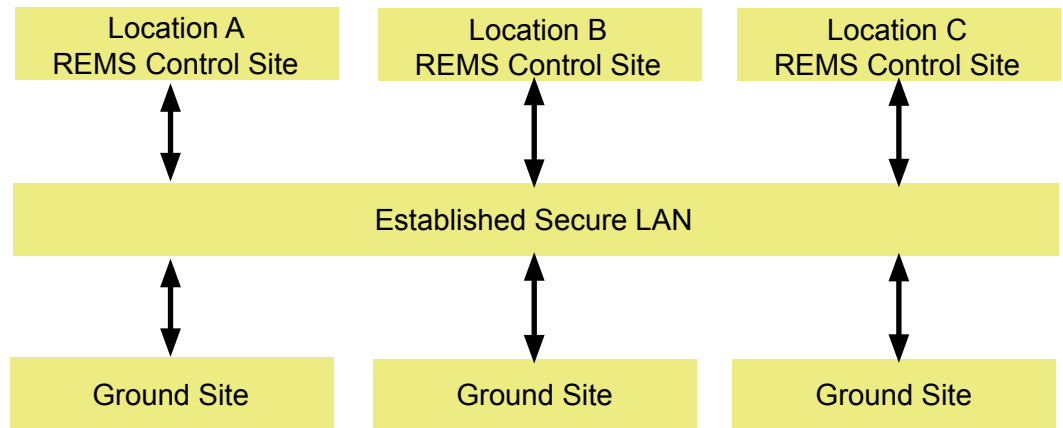
Ultra's RCMS combined with the Ultra Key Manager (UKM), enables keying and rekeying of End Cryptographic Units (ECUs) allowing for a single operator to keep remote site locations "online" via TCP/IP secure networks.

RCMS hardware was reviewed by the US National Security Agency (NSA) and is "authorized" for distributing Black Keys to ECUs.

Supports many different ECUs and is upgradeable for most DS-101 and DS-102 devices. Note: Certain devices may require additional equipment cabling and/or software.

### FEATURES

- Net-centric architecture with configurable equipment and modular user interfaces
- Uses the Data Management Device developed by US Air Force for Key Management
- Black key can be sourced from NSA
- Remote monitoring allows proactive system management
- Highly reliable computers provide a high availability solution
- Reduces manpower requirements
- Uses industry standard communication protocols: XML, TCP/IP, HTTPS, SNMP
- Available today for all MIDS LVT family systems
- Removable Solid State Drive (SSD)
- Front crypto fill port allows "RED" ECU pass-through directly to terminals
- 19" rack mountable, 1U hardware device design
- When paired with Ultra's REMS software solution it provides remote site intrusion detection

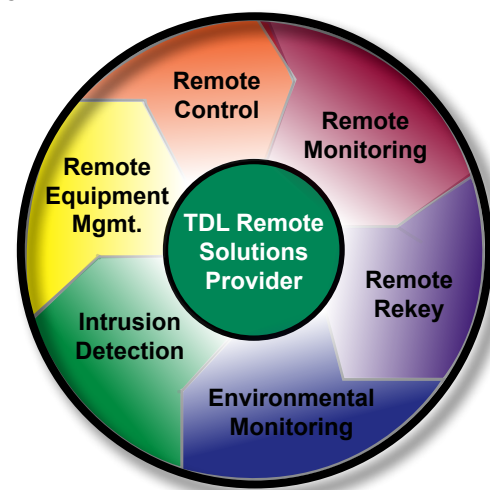


### REMOTE CRYPTOGRAPHIC MANAGEMENT SYSTEM

The RCMS provides an interface to the fill device. The RCMS is a rack-mounted 2U form-factor that fits a standard equipment rack.

The RCMS can be controlled from multiple sites. The central site could be located at up to three different locations with one site at a time designated as the "controlling" site. Other sites are backup and can assume control at a moment's notice.

RCMS requires additional support equipment, cabling, and software support services dependent on the installation site. Ultra recommends the use of Ultra's Remote Equipment Monitoring System (REMS) to provide the level of remote system protection prescribed by NSA.



**making a difference**

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 © Ultra Electronics, Advanced Tactical Systems Inc. 2016  
 Printed in the USA October 2016 | V1  
 Approved for Public Release 17-S-0428