



Remote Control Software RCS-2650 for the MultiCom Radio Encryption HC-2650

In a real life environment, communication equipment such as cipher units, radios and other equipment may have to be physically separated from the actual working place of the user. The HC-2650 radio encryption unit has numerous remote control capabilities for this purpose, one of which is the Remote Control Software RCS-2650.

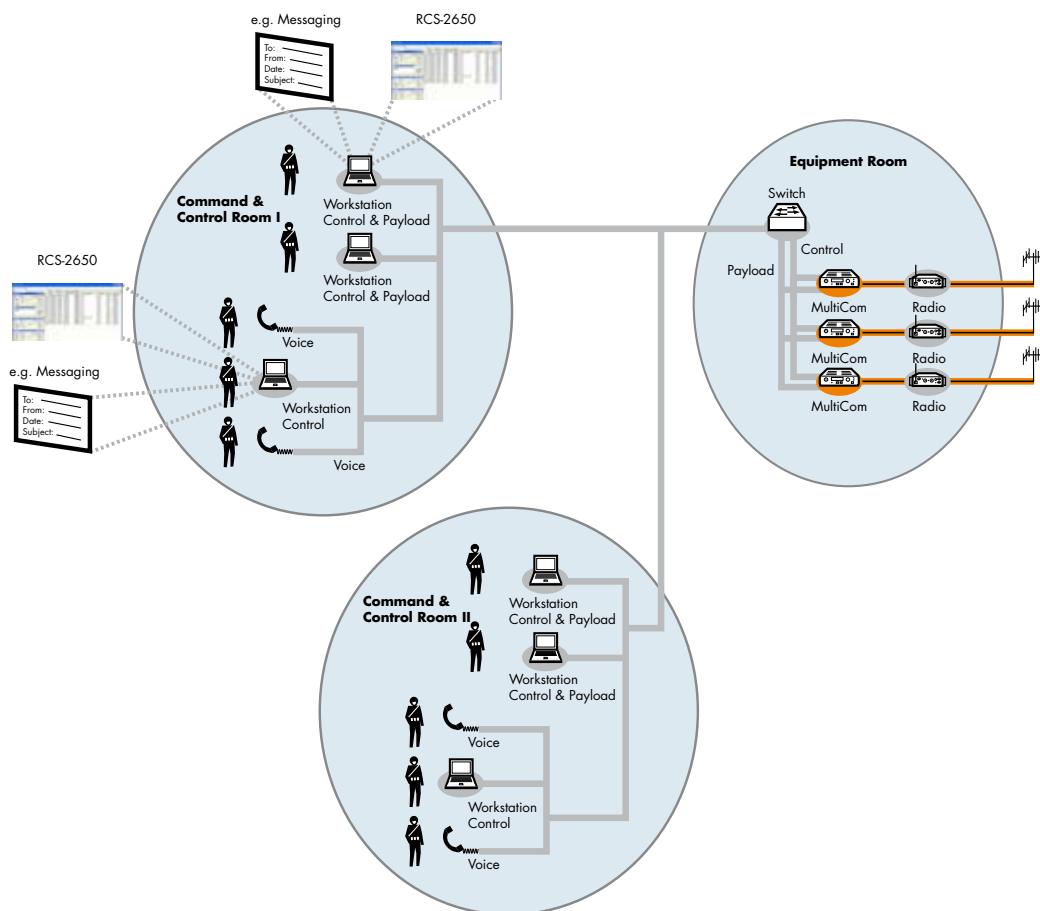
In larger installations, be it a vehicle, vessel, headquarters or command post, several secure communication channels are often needed. Furthermore it is common that users from several operating positions need to use the same ciphered communication channel. In such situations, the cipher units are placed in a special cipher and/or radio room. However, it is still necessary to control and monitor the cipher units from one or more supervisory positions to assure that the unit is working in the correct mode for the current mode of operation.

The RCS-2650 Remote Control Software fills this need and gives the user (typically a communications-, intelligence-, weapon-, logistics officer etc) the possibility to control and supervise one or multiple cipher units directly from his working place. Once installed on a PC at the appropriate position which in turn is typically connected to the cipher units on a LAN, the software gives the user the capability to execute all of the operationally necessary functions and continually display the current status of the status of the cipher unit. It is even possible to have more than one PC monitoring each cipher unit.

The software package is available for Windows based PCs and supports other functions e.g. event logging.

Key features

- A simple to use user interface on the PC gives the operator all remote control functions necessary for daily operational needs
- Visualisation of the current status of the cipher unit constantly updated
- Multi-Channel capability:
Control of many HC-2650 units possible from the one position/application
- Multi-Control capability:
One HC-2650 can be controlled from up to 5 different locations
- Greatly enhanced security, by seamless control and monitor of all MultiCom HC-2650



The Scenario

The new Remote Control Software RCS-2650 is a Windows based software package allowing operators the control of all necessary functions of the HC-2650 encryption unit from a remote workstation. The following scenario shows typical headquarters, command post or ship situations.

In this scenario, encryption units, radios, switches, power amplifiers etc. for voice, data and messaging are installed in an equipment room away from the operators who are located in a separate command and control room. Typically, operation of the encryption unit (e.g. plain / crypto switching, key or preset selection etc) requires operators to leave their workplace and move to the encryption units. Installation of the RCS-2650 on the workstation of the operators allows them to have full control of the encryption units at any time. In addition, they receive up-to-date information about the status and behaviour of the encryption unit. Built-in logging features also allow the review of all past actions and transmissions.

RCS-2650 Technical data

User Interface (UI)

- Easy to use, windows based user interface
- Status always visible (graphical representation of the built-in UI)
- Hide / show command controls
- Online help

Control functions

- Preset selection
- Plain / Crypto selection
- Algorithm selection (home / alliance)
- Squelch override
- Emergency clear (all or single unit)

Monitoring functions

- HC-2650 Status Information (Idle, TX, RX, Plain Crypto, etc.)
- Activity log: Logging of operational events and warnings / error messages
- HC-2650 unit settings

System control

- RCS-2650 can control / monitor multiple HC-2650 (limitation by screen and memory size)
- One HC-2650 may be controlled by max. 6 remote locations (5 Ethernet + 1 serial connection)

Interfacing

- Ethernet or
- RS-232 / RS-485

Minimum operating system & hardware requirements

- Windows XP with 1.2GHz Intel or AMD, 512MB RAM
- Windows VISTA with 1.2GHz & 2GB RAM
- Ethernet and/or serial interface

Quality system

- ISO 9001