

REMOTE RADIO CONTROL SYSTEM



Redundant System Control Stations (SCS) are connected via AVID links to multiple radio sites.

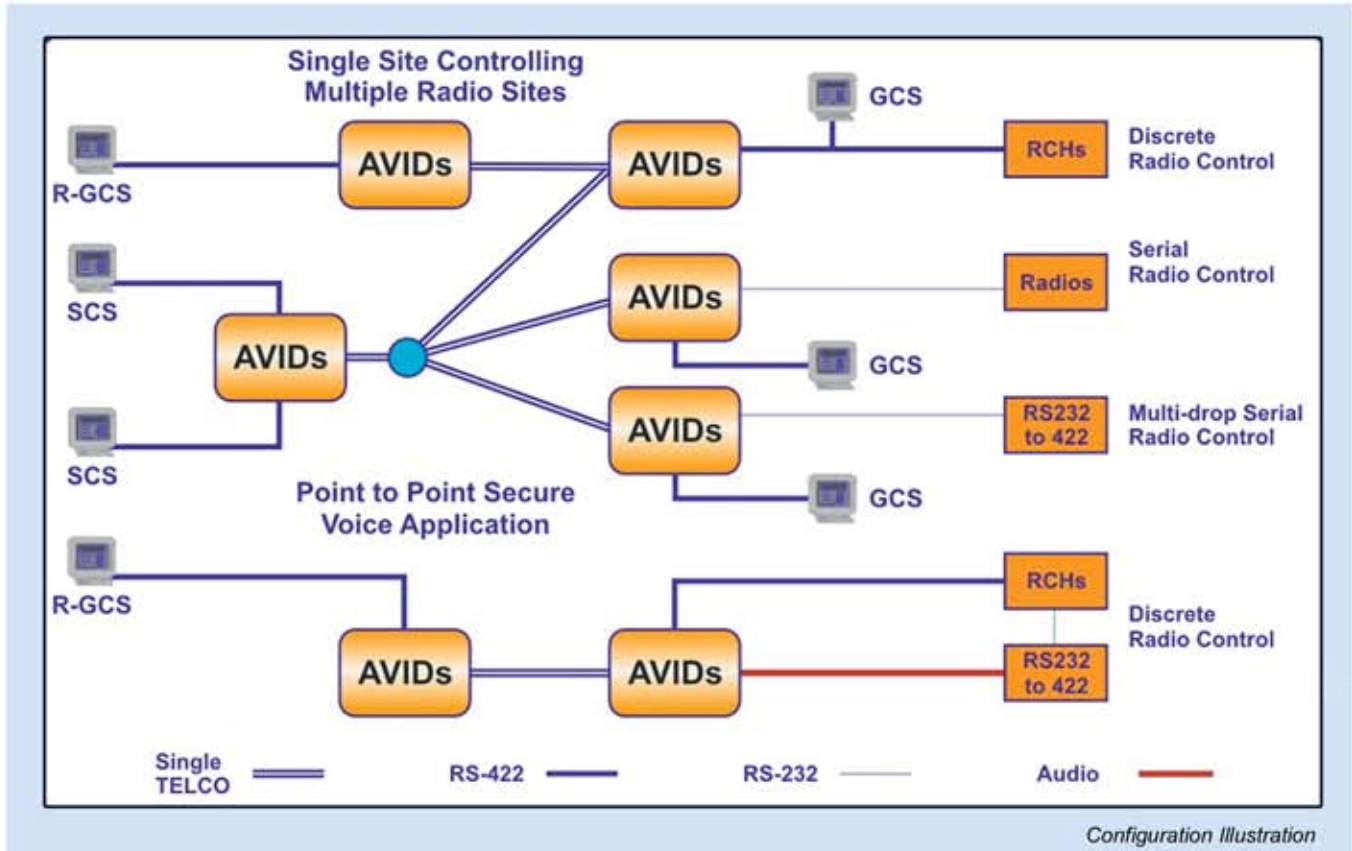
At each of the radio sites, a Group Control Station (GCS) can be implemented to provide local control of the radios. The block diagram also shows that radio sites can be either controlled discretely, such as the Rockwell Collins AN/GRC-171 and AN/GRC-211 radios, or serially controlled, such as the Motorola URC-200, Racal RA-6793 and Harris AN/URR-2368. Multiple discrete radios are controlled via RCH modules connected to the RS-422 bus port on the AVID. Serially controlled radios are bussed together and tied to the RS-422 bus. A radio site can control any combination of radios. A RGCS is remoted via an AVID link to one or more radio sites to provide an additional remote control point. The AVID modules at each of these sites can be used to provide remote monitoring and control of site alarm and status information through the use of external contact inputs.

Features

- Field-proven, modular architecture capable of supporting remote control of any radio/equipment type
- Remotes audio, data and control with a single four-wire telco circuit or Ethernet connection
- Operates with encryption devices to provide secure communications
- Allows a single site to control multiple remote sites
- Remote control software allows off-line generation of configuration files for future missions and operations
- Equipment and services are available through the GSA catalog
- Systems deployed ranging from one remote site with 15 radios to 90 remote sites controlled from one central location

The Remote Radio Control System (RRCS) is a networked system application for controlling multiple radio sites from one or more system control stations at a control center.

RRCS NETWORK CONTROL STATION



NETWORK CONTROL STATIONS – Within the control center, the RRCS networks control stations and site transmission media over an RS-422/485 multi-drop bus.

AVID – The RRCS uses the newly designed, State-Of-The-Art Overwatch Advanced Voice and Integrated Data (AVID) II module to interface to the transmission media that is either copper, microwave, LAN/WAN, satellite or fiber optics. The AVID simultaneously multiplexes voice, data and control signals reducing the number of transmission paths required between the control center and a remote site.

ENCRYPTION – The AVID is capable of interfacing with encryption devices to pass clear text or cipher text to the remote radio.

REMOTE CONTROL HEAD – The Remote Control Head (RCH) module is used to interface to radios or other devices requiring non-serial control signals. The networking of radios at each site is accomplished via the RS-422/485 multi-drop bus interface on the AVID and RCH modules. The Remote Control Software (RCS) provides a single operator the capability to completely control any of the radios and ancillary equipment in the system.

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