



DISA

DEFENSE INFORMATION SYSTEMS AGENCY
The IT Combat Support Agency

Defense Red Switch Network (DRSN)

The **Defense Red Switch Network (DRSN)** provides the Department Of Defense (DOD) with high-quality secure voice telephone and conferencing services for end-to-end use by authorized DOD users. The DRSN includes a range of assured services to command and control (C2) users and their missions in an environment of a robust and feature-rich set of capabilities. This service provides C2 facilities to include the National Military Command Center and Combatant Command headquarters with interconnections through a secured network.

The DRSN consists of four (4) major subsystems:

1. **Switching Subsystem** - provides the DRSN users secure and non-secure call origination and call termination capabilities, secure conferencing and direct interoperability with other secure networks.
2. **Transmission Subsystem** - the DRSN Transmission Subsystem provides connectivity.
3. **Timing and Synchronization Subsystem** - provides a primary, secondary and tertiary method of obtaining a timing source for site contingency and the network.
4. **Network Management Subsystem** - provides DISA with the capabilities to provide day-to-day direction and operational oversight of the DRSN.

On the Horizon:

- Replace the end-of-life and end-of-service Red Promina Time Division Multiplexed (TDM) transport network with an internet protocol (IP) at 45 different sites.
- Migrate DRSN inter-switch trunks from circuits to IP routing to phase out TDM transport among DRSN voice switches.
- Transition multilevel secure voice users to enterprise classified Voice Over Internet Protocol (VoIP) service.
- Provide two network and security operations centers for network management and security management.
- Upgrade the Digital Small Switch (DSS-2A) switch with IP cards and new software for IP integration.

An IP based infrastructure will provide cost efficiencies by eliminating the need to support TDM technologies and provide a more resilient and secure network. The DRSN program has delivered innovative services by using a full-cycle methodology from initiation of the project to closeout.