

DIRECT Messaging System

Securing the most critical messages in the world

OVERVIEW

The DIRECT Messaging System is one of the most secure, reliable systems available for sending and receiving mission critical messages. DIRECT provides the means to create, transmit, receive, acknowledge, retransmit/relay and process Emergency Action Messages (EAMs).

DIRECT is the only multi-level processing system available for information ranging from unclassified to Top Secret. It is accredited by the Joint Staff to prepare, deliver and process Top Secret/Single Integrated Operational Plan-Extremely Sensitive Information (TS/SIOP-ESI). The system's modular architecture allows for future growth, communication systems expansion and customization for site-specific mission requirements.

DIRECT provides Emergency Action Operators (EAOs) with automatic message processing, duplicate message suppression, and database driven message templates, updated for each Operations Plan 8044 release. These features make EAM responses faster and more accurate over numerous communication networks.



DIRECT Messaging System Workstation

Fast, Reliable, and Accurate Messages

When sending messages with time critical, extremely sensitive information, there is

no room for error. DIRECT is a high-availability system ($A_0 = .999/\text{day}$) that adheres to all specified emergency action procedures and greatly reduces operator workload. DIRECT has dramatically decreased message injection time by automating many parts of the message build process, and by simultaneously transmitting messages on all channels with automatic protocol formatting and message repeats.

Our feature-rich system insures fast, reliable, accurate and controlled message release to multiple unclassified, Secret and Top Secret communications networks.

Message Preparation

- Computer-assisted two-person message build
- Preformatted message templates
- Default addressing and classification
- Automatic message comparison
- Secure review enforced by hardware
- Dual key message release
- Automatic protocol formatting

Message Transmission

- Simultaneous release to multiple communication channels
- Failure of one interface does not degrade capabilities on other channels

Message Relay/Readdressal

- Forward message without data re-entry

Message Reception

- Duplicate message suppression
- Logging of all traffic received
- Phonetic Letters Spelled Out (PLSO) encoding/decoding
- Voice message data entry support

Acknowledgement

- Communication system message receipt tracking
- Single operator message Acknowledgement (ACK) release

Workstation Operator Interface

- Modern Human Machine Interface (HMI)

Other Applications

The DIRECT Messaging System is designed and approved to satisfy the most stringent nuclear command and control requirements. It can also be approved for use in other environments and for general-purpose messaging. The modular communication user interface can be adapted to your specific site requirements. DIRECT is ideal for use at any command center with multiple communication

systems and the need to retransmit/forward messages from one channel to another.

DIRECT Messaging System Specifications

FOR MORE INFORMATION

If you would like to learn more about the DIRECT Messaging System, please contact us at:

General Dynamics C4 Systems
DIRECT Program
77 A Street. Needham, MA 02494-2806 • USA
Phone: 1 (888) 483-2472
E-mail: <mailto:%20info@gdc4s.com>

ISO 9001 Registered

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Technical Questions and Comments: [GDC4Swebmaster](#)

DIRECT Messaging System

Technical Specifications

Dimensions

- DIRECT rack:
78" H x 28" W x 30" D

Power

- 120 VAC/50- 60 Hz
- 1500 Watts (DIRECT rack)
- Additional 390 Watts per workstation (including printer)

Environment

- 10°C to 32°C/50°F to 90°F (operating)
- -20°C to 60°C/- 4°F to 140°F (non- operating)
- Humidity: 20 to 80% (non-condensing)

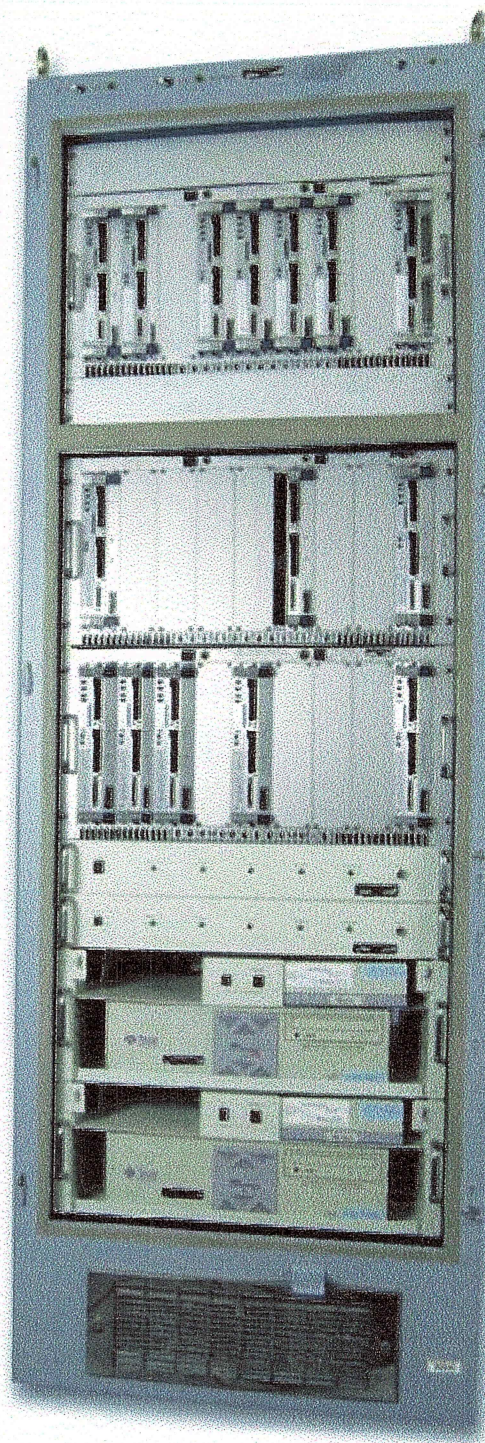
Major Assemblies

- DIRECT rack
- Keyturn Assembly Modules (KAMs)
- Workstations (COTS PCs)

Communication System Interfaces

- DMS Transition Hub (DTH)
- Milstar JCSDATA
- Milstar JCSEAM-X (DAMA)
- Milstar EUINTR
- Milstar NSNFD
- Milstar STRRBSUM
- Milstar STRFM
- Milstar STRINTEL
- SCTIS
- AFSAT
- Voice
- AN/TSC-5 (CUTS)
- NOVA
- SACCS (via NOVA)
- DMS (via NOVA)
- 27 dedicated interfaces (9 BLACK, 18 RED)

System Features



- Fully redundant processors
- Multiple operator stations (up to 10)
- ANSI FDDI X3T9.5 compliant, dual access stations
- Custom designed HW security components
- Full RED/BLACK separation
- Automatic system logging and archiving
- Designed using NSA Fail Safe Design Analysis (FSDA)
- DITSCAP accredited

Classification

- System High-TS/SIOP-ESI Classified

Proven Capabilities

The Joint Chiefs of Staff (JCS) and Combatant Commander EAO use DIRECT to generate and transmit messages to all nuclear force elements from these locations:

- National Military Command Center (NMCC)
- NMCC Site R
- US Strategic Command (USSTRATCOM)
- US Joint Forces Command (USJFCOM)
- US Northern Command (USNORTHCOM)
- US Pacific Command (USPACOM)
- US European Command (USEUCOM)

Applications

DIRECT can be used in the following:

- EAM messaging
- Non-EAM messaging
- General message traffic generation, reception, relay and/or retransmission over operator selectable single or multiple communications

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Interoperability

DIRECT is a certified messaging terminal that is interoperable with multiple communication networks and is certified by the Defense Information Systems Agency (DISA) to interface with the Defense Messaging System Transitional Hub (DTH) and NOVA.

Support

General Dynamics C4 Systems (GDC4S) provides 24/7 Help Desk Support for the DIRECT system. On site maintenance support, operator, and maintenance

system training is available.

FOR MORE INFORMATION

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Return to the [DIRECT Messaging System](#) main page

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