

# Netted Satellite Voice and Data Communications

## Features

- Push-to-talk (PTT) netted voice
  - One talk, multiple listen
- Hand-held user terminals (<1.5 lbs, <10W); non-directional antennas
- Turn radio on - in the net
- Global service
- Globally dispersed groups
- Communications on-the-move
  - Simultaneous voice and data over a single channel
  - Secure, commercial-grade encryption for both voice and data
- Adaptable for hand-held use and integration into weapon systems, sensors, and platforms
- Hand-held user terminals provide:
  - Global Netted Communications connectivity to:
    - DSN
    - FTS
    - ILD
    - PSTN
    - NIPRNET
- Can be integrated with:
  - Command and control systems
  - Sensor systems
  - Vehicles/Ships
  - Helmet/MOLLE gear

The ability to support netted voice and data communication is critical in meeting the over-the-horizon operational requirements of tactical maneuver units such as those in Expeditionary Maneuver Warfare (EMW) and Ship-to-Objective Maneuver (STOM). Leveraging the Department of Defense's Enhanced Mobile Satellite Service (EMSS) Iridium investment, the Netted Voice Enhancement enables secure "Push-to-Talk" services to hand-held user terminals located around the world. Advanced commercial-grade encryption is included for both voice and data services, including a new, single-channel, simultaneous voice and data service. Integrated with improved battery capabilities, a vest-mounted unit can operate continuously for over 12 hours without the need to recharge.

Our product configuration provides for push-to-talk secure netted voice communications and asynchronous netted sensor data. It supports the combination of data



and voice on the same net and allows prioritization of traffic, inserting low priority messaging and broadcast data on both voice and data networks during idle periods. For example, broadcasts of position location information could be sent transparently to all users without disrupting ongoing voice communication.

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## Operational Configuration



**GENERAL DYNAMICS**  
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