

EDGE



TORCH-X™ COMMS

FIELD PROVEN INTEGRATED ROIP
& COLLABORATION SERVICES



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Elbit Systems' Torch-X Comms is an advanced military communication system enabling direct voice and data communication among command posts and front-line forces from any to any type of media. Torch-X Comms facilitates direct communication among a broad range of radios and communication devices including VHF, HF and Multi-Channel radio relays, LAN, WAN, PABX, satellite and cellular networks. Torch-X Comms utilizes advanced VoIP (Voice over IP) and RoIP (Radio over IP) technologies.

Torch-X Comms enables all echelons, from high-ranking commanders to the individual soldier in the field, to directly communicate with anyone in the military network. The result is a dramatic improvement in both command and control and operational coordination, providing commanders and decision makers with a complete picture of operations and events in real time.

Messages, voice, video, e-mail and other data communications are automatically routed through the optimal communication hub. To establish a connection, all that is required is to key the requested station or enter its subscriber ID.

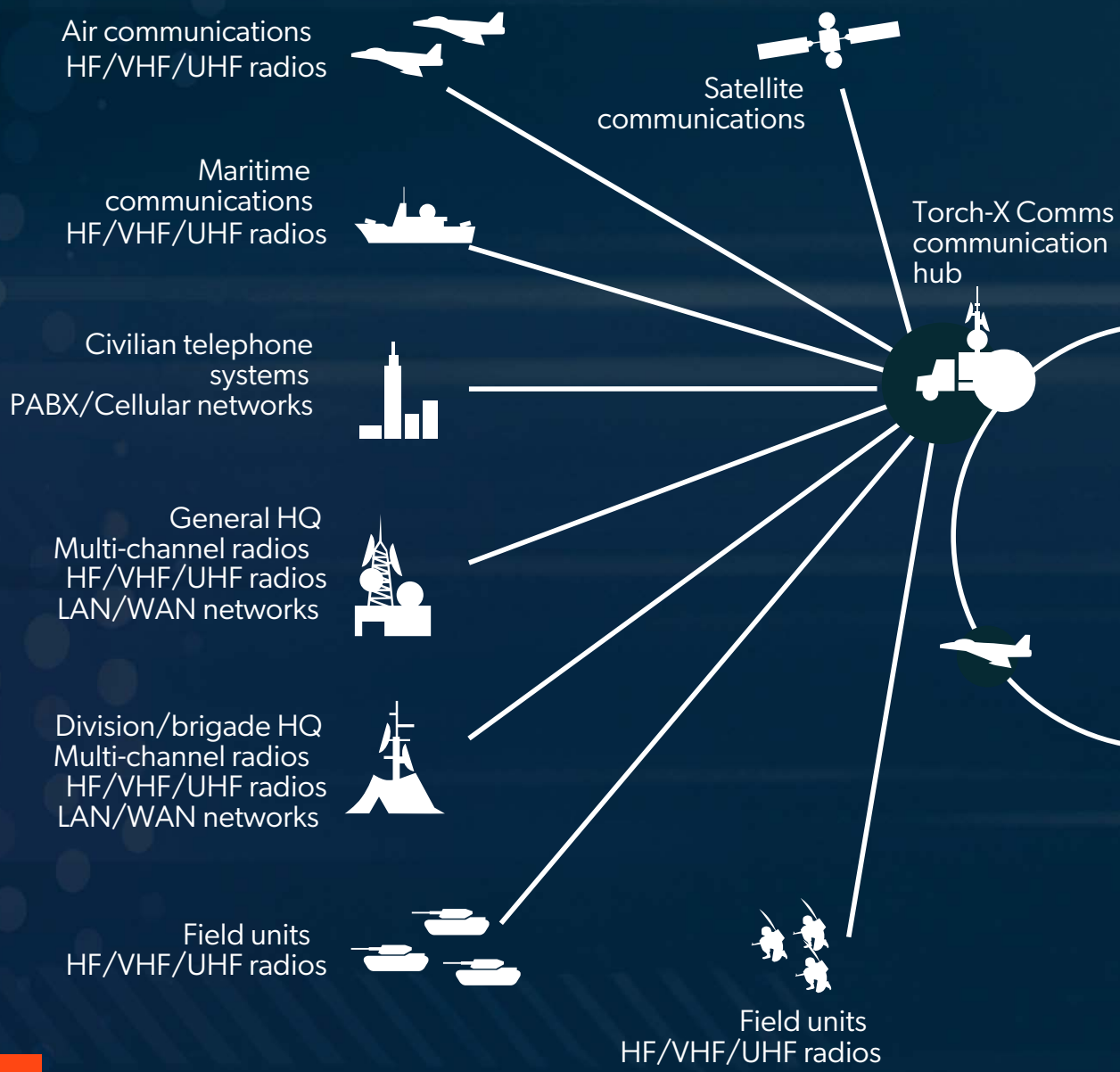
Torch-X Comms overcomes the slow and cumbersome networks that characterize existing military communications and provides fast, automatic and direct operational connectivity.





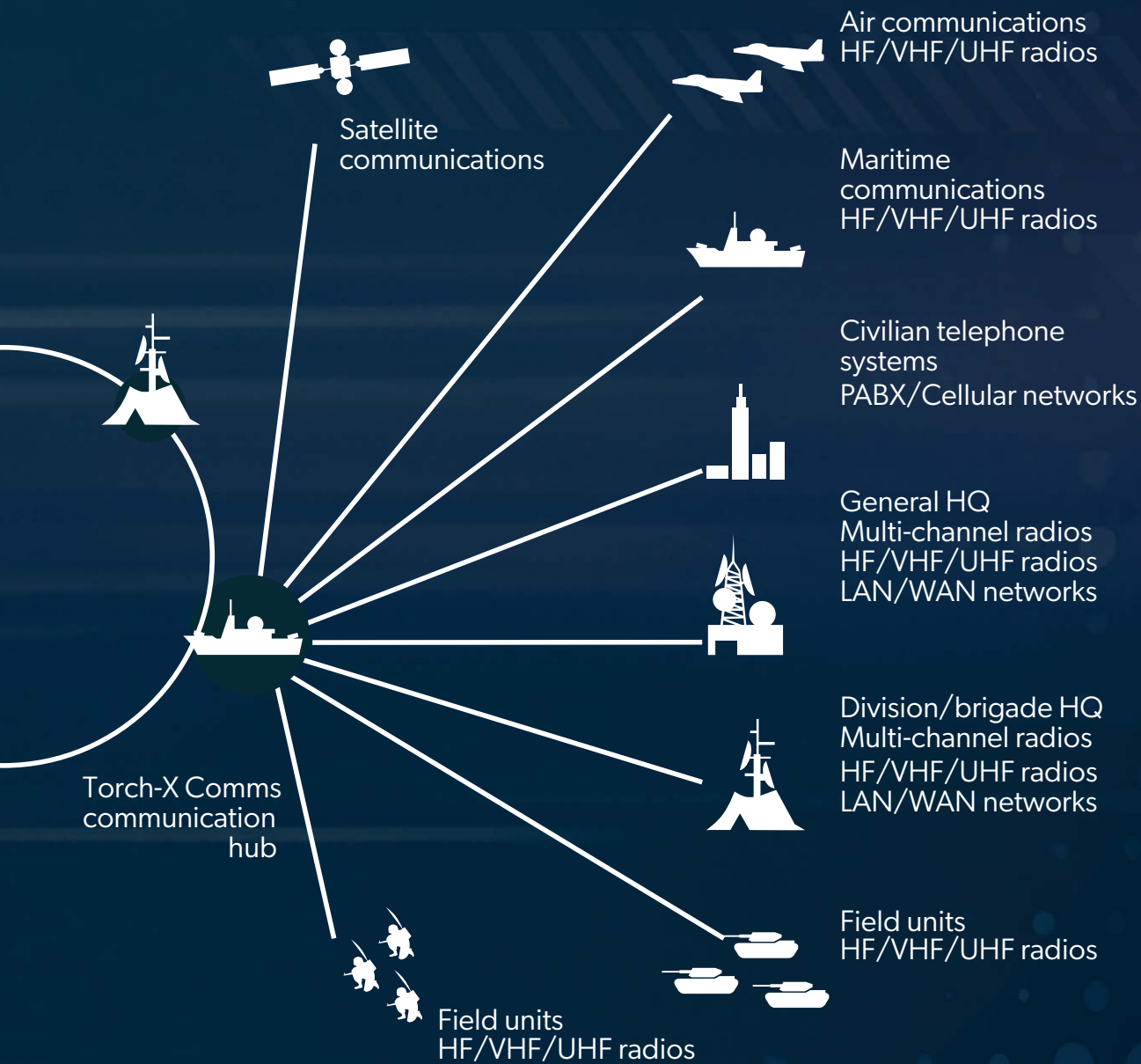
TORCH-X COMMS BUILDING BLOCKS

- Elbit Systems' CCT (Communications and Control Terminal) / Tactical CCT
- Elbit Systems' NAT (Network Access Terminal) / Tactical NAT
- DTMF / cellular and IP telephones
- Satellite terminals
- Stand-alone radio equipment (HF, VHF, UHF)
- Elbit Systems' TMR (Tactical Multimedia Router for fixed or tactical environments)
- iTalk, iMail and iNMs applications
- VoIP technology and push-to-talk (PTT)
- Audio switching capabilities
- Voice conferencing
- Video and Chat
- Multicast groups management
- Voice relay between radio networks
- Simultaneous operation of multiple radio nets
- Enables full control over radio equipment
- Proven operating interfaces with more than 40 different types of radios worldwide



Voice, data and video communications

- Seamless voice and data communications across all levels of the military network
- Video sessions via broadband networks
- Fast connection by selecting destination name or ID



Advanced C⁴ISR application

- Torch-X Comms remote control capabilities enable system administrators to:
- Conduct performance evaluation and built-in tests
- Update configurations
- Program radio parameters
- Manage and distribute encryption and frequency-hopping keys
- Automatic distribution of site data
- Maintain Torch-X Comms communication devices

All Torch-X Comms management functions can be performed from almost any element located within

the system. Various management functions such as distribution of encryption and frequency hopping-keys can be executed automatically or at specified intervals.

Torch-X Comms' automatic communication logs, track and record every communication link made within the system provide military commanders and other decision makers with essential information. These records can be used to investigate a specific operation or event, improve command and control and maximize efficiency.

KEY FEATURES



Integrates the strategic and tactical communication needs of all branches of the military into one seamless system

Enables user-friendly voice and data services based on a proven and already deployed operational system

Voice recordings and debriefings

Integrates the military communication system with other operational networks critical for disaster recovery operations

Provides maximum communication flexibility, allowing real-time adjustment to meet changing operational scenarios

Saves resources and equipment by eliminating the need for multiple communication systems

Maximizes the overall reliability and survivability; each communication hub serves as a backup for every other hub within the Torch-X Comms

Operates with both modern, legacy and older-model radios

Allows for gradual and scalable implementation

Embeds cutting edge voice and radio IP (VoIP and RoIP) technologies and protocols



OPERATIONAL BENEFITS



Crisis analysis: Emergency procedure development, resource allocation and control

Common situational awareness and operational language among different forces

Abnormal activities monitoring

Record and replay capabilities

Real-time information sharing: Data, voice and live video

Battle-proven, secure, and safe

