

SMART Suite

End-to-end tactical C⁴I for dismounted forces and vehicles



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Elbit Systems' SMART Suite provides a comprehensive infrastructure required for tactical C⁴I supremacy. The SMART family of products enables mounted and dismounted forces to maintain the flow of tactical multimedia and data information over heterogeneous tactical networks (legacy, non-IP, IP, etc.), providing the complete application platform for any C⁴I requirement. Utilizing both standard and TIGER™ routing and data dissemination protocols, the routers generate a unified "Tactical Internet" for seamless communications across the entire chain of command. The advanced application server, incorporated into the suite's basic configuration, provides a complete range of computing services for integrated or third-party applications.

Based on a modular and open architecture approach, the SMART suite allows for seamless integration of platforms, sensors, weapons and C⁴I applications, while maintaining the best SWAP (size, weight, and power) for its class. With advanced Integrated Radio Communications Services (IRCS) and TIGER protocols, the solution effectively establishes a collaborative tactical multimedia cloud, an essential component for collective engagement and force protection on the modern battlefield.

Integration proficiency with third-party systems:

Elbit Systems has earned its reputation as a world leader in defense electronics and electro-optical systems and products. The company has decades of experience as a manufacturer and integrator of a wide range of defense, homeland security and commercial programs throughout the world. Elbit Systems' expertise includes solution upgrades as well as integration with a range of third-party systems and products.

Expertise with deployment of tactical systems:

Based on extensive experience in real-world dynamic battlefield conditions, Elbit Systems is uniquely qualified in the deployment of advanced tactical solutions that provide a qualitative military advantage.



Core Components

The SMART Suite utilizes a common vehicle architecture across all platforms and variants. The core unit provides the functionality required for basic node types. Complementary units provide additional audio, video and connectivity capabilities for advanced node types.

SMARTmr-M

Tactical Multimedia Router and Application Server for tactical mobile platforms and command posts

- Platform for C⁴I application and storage server (HW and OS)
- C⁴I services – DDS, VMF gateway, NATO standards gateway, etc.
- Standard IP routing and TIGER routing and data dissemination
- Integrated radio and collaboration services (IRCS)
- Integrative added value services
 - Radio management and configuration
 - GPS distribution
 - BFT Reporting
 - NMS platform
 - GVA compliant

SMART-Video

Versatile tactical video encoding, processing and streaming unit for mobile platform users

- Video Processing and encoding Unit (VPU)
- Support for multiple video formats
- Advanced video processing and distribution with C⁴I integration
- GVA compliant in vehicle configuration

SMART-Audio

Multipurpose tactical radio connectivity unit

- Radio Extension Unit (REU)
- Integrated radio services (voice and data)
- Full range of intercom services for platforms
- GVA compliant in vehicle configuration

Extensions

- SMART-Display: 10" and 8"
- SMART-VIU: Fighting Vehicle Integration Unit
- SMARTmr-D: For the dismounted soldier and man-carried/deployed remote command posts
- SMART-D-Video: Soldier Video Encoding Unit (SVEU)
- SMART-D-Audio: Soldier Radio Extension Unit (SREU)
- SMART-HS: Advanced Soldier Headset

Features

- Modular and scalable open architecture across all platform node types and variants
- Smart integration with platform, sensors, weapons and C⁴I
- C⁴I central hub
- MOTS hardware and software to reduce platform complexities and optimize SWAP
- GVA-compliant interfaces and protocols
- Combat-proven WINBMS-enabled functionality
- Best SWAP and performance – across all node types
- TIGER system embedded
- Seamless integration with existing platform systems



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WEAPONS



OBSERVATION



DETECTION & WARNINGS



LOCATION & ORIENTATION



CIED / JAMMER



3RD PARTY TACTICAL APPLICATIONS



COMMUNICATION BEARERS



HUMS



VEHICLE CAMERAS



GVA DATA MODEL

**COMPUTING APPLICATION SERVER
NETWORK SERVER - TIGER INSIDE
AUDIO SERVICES: INTERCOM, VOIP, ROIP
VIDEO SERVICES**



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