Military Strategic Communications Application Brief

Militaries know that the ability to exchange voice, video and data traffic between headquarters, mobile command centers and troops in the field provides a strategic advantage. With multiple simultaneous and often transient global deployments, the challenge is extending broadband connectivity no matter where troops are located, despite rough terrain and hostile environments. Theatres of operation often are located well out of reach of existing communications infrastructure.

In order to support mission-critical applications across all sites and to remain interoperable with other networks, militaries require an IP-based solution that provides uniform connectivity whether a unit is stationary or on the move. And, due to the classified nature of military communications, traffic needs to be protected by the most stringent security standards.

For this reason, many military organizations are looking to satellite to bring the same, secure, always-on broadband for voice, video and high-speed data applications, shared between headquarters and units deployed in the most remote regions of the globe.

Military Satcom

IP-based satellite communications delivers the reliability and flexibility military organizations require to operate securely and effectively. With a seamless global network, militaries can:

- Extend broadband connectivity to mobile operations centers, troop monitoring and intelligence gathering

- Provide situational awareness to the warfighter with portable equipment

- Establish satellite links quickly and easily in a battlefield situation

- Enhance troop morale, welfare and recreation services

⟡iDIRECT

iDirect - A Trusted, Proven Platform

The iDirect platform is a two-way broadband IP communications system. With the high-speed connectivity and mobility iDirect enables, militaries have access to real-time strategic communications that increase situational awareness and support successful mission outcome.
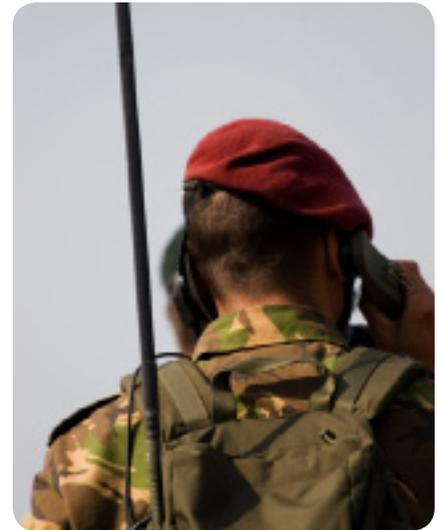
Guaranteed Reliability

The sensitive nature of a military's voice, video and data traffic requires superior network performance in any location and under any harsh condition. iDirect's IP-satellite broadband solution is designed for high availability. Technological advancements, including Adaptive Coding and Modulation (ACM) and Adaptive TDMA (ATDMA), enable high data throughput rates and guaranteed connectivity even during deteriorating link conditions, such as inclement weather.

Bandwidth Availability

iDirect's shared TDMA-based system offers the efficiency of an organization-wide bandwidth pool without sacrificing the availability that is crucial for military organizations. Any site on the network is guaranteed the bandwidth it requires based on real-time demand. Data is prioritized so that mission critical applications always take precedence over other network traffic. If the need arises to transmit large, constant volumes of data, as might occur during a time of rapid deployment, the iDirect platform can switch to a dedicated satellite link for a given period of time.

True Mobility

With fully broadband-enabled vehicles, deep-ocean vessels and manned and unmanned aircraft, a military organization can effectively communicate, share critical information and provide support for its mobile armed forces. iDirect's platform enables these types of mobile communications by maintaining connectivity as a system travels across a geographical region and crosses satellite footprints.

iDirect Intelligent Platform™

Delivers the highest quality broadband connectivity wherever and whenever it's needed.

♦ Maximum availability and performance for ensuring broadband access in any environment or geography

♦ Military-grade encryption protects sensitive traffic

♦ Industry-leading efficiency for large traffic volumes and high-bandwidth applications

♦ Adaptive links preserve connectivity during severe weather

♦ Intuitive network management system enables central monitoring of all sites

Enabling Increased Capabilities

Stringent Security Standards

Military communications require secure channel activity, control channel information, unit validation and physical security. iDirect's platform is in compliance with the highest level of security standards, including TRANSEC and STANAG, and its routers and line cards, with tamper-evident coating, Federal Information Processing Standards Publications (FIPS) 140-2 Level 3 certifiable. The content and size of all user and network link layer traffic is completely undetectable to adversaries.

Critical Application Support

IP-satellite broadband's independence from terrestrial and wireless infrastructure uniquely positions the technology to provide militaries with the broadband connectivity to support an ever-expanding variety of applications.

Intelligence, Surveillance and Reconnaissance (ISR)

With a state-of-the-art mobile operations center, commanders can utilize advanced IP applications to monitor troop locations, communicate tactical plans and advantageously allocate resources in the field. With the flexibility and reliability offered by satellite communications, they can gather and share intelligence from unmanned aerial vehicles (UAVs), ground vehicles and sensors. More sharing of real-time information means more informed decision making when lives are on the line.

Situational Awareness

The same mobility that maintains IP-satellite connectivity for vehicles, vessels and aircraft on the move, provides individual soldiers the ability to communicate with command. Thanks to smaller antenna and low-power terminals, warfighters can carry communications systems with them to receive battlefield imagery, to transmit situational video to base and receive telemedicine consultation for soldiers.

With the high-speed connectivity and mobility iDirect enables, militaries have real-time access to strategic communications that increase situational awareness and support successful mission outcome.

Keeping Militaries Connected

Morale, Welfare and Recreational (MWR)

The availability of always-on voice, video and data services also serves to boost troop morale by allowing communication with friends and family back home and the participation in online training and distance learning. Personal communications and training exercises will not interfere with mission critical applications due to iDirect's ability to prioritize data across applications.

Crisis Management

Should a terrestrial network fail, the independence of an IP-satellite broadband system makes it ideal to ensure continuity of communications. In the event of a national crisis or manmade threat, satellite can provide military organizations the capability to replace or augment the primary network and quickly set up communications onsite and while on the move.

i D I R E C T