



## Communications on the Move (COTM)

There's a whole range of physical and mobility complexities that come with providing truly secure, cost-effective COTM solutions. Whether it's the demands of commercial markets involving commuter trains, ships including cargo vessels, yachts, and land vehicles...or the mission critical requirements of domestic and foreign military and governments, the bottom line is the same. Reliability, security, and speed can't be compromised.

### **Leverage the Latest, State of the Art Spread Spectrum Technology from iDirect**

With the integration of the latest spread spectrum technology, along with advanced, FIPS certified\* TRANSEC security, there's no better way to provide secure, cost-effective, and reliable IP broadband COTM capabilities anywhere. And this advanced technology is managed by the industry's leading network management system which includes a global NMS providing global roaming remote management along with automatic beam switching and geographical mapping. iDirect's powerful and easy to use NMS allows effective and efficient viewing, tracking, monitoring, configuration, and control of mobile satellite communications systems. The iDirect Spread Spectrum solution enables the effective use of very small antennas including specialized phased array varieties.

### iDirect COTM Components at a Glance

- ◆ iNFINITI 8000 Series Satellite Router
- ◆ M1D1-TSS Line Card
- ◆ iDS 8.0.1 Software
- ◆ Network Management System (NMS) with Geographic Mapping, Global NMS, Automatic Beam Switching

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- More Reliable and Robust. iDirect's Direct Sequence spread spectrum technology is more reliable and robust in securing the satellite link than competing technologies such as the Aloha multiple access protocol.
- Efficient. iDirect's Direct Sequence spread spectrum technology uses the TDMA protocol which is more bandwidth efficient than systems based on CDMA technology and even more so compared with CRMA based systems.
- Seamless. Unique automatic beam switching and Global NMS capabilities allow service providers to combine multiple beams, satellites and hubs around the world to provide a truly global, mobile network that's both seamless and cost efficient.
- Secure. Advanced FIPS 140-2 certified\*, TRANSEC provides high levels of security that government and military customers require. In fact, iDirect has the only TRANSEC-compliant security package in the VSAT industry that meets or exceeds the requirements set forth by the National Security Agency. The iDirect TRANSEC solution includes embedded AES encryption, X.509 digital certificate encryption, and automatic over the air key exchange.
- Flexible. Meets both current and future customer requirements with a comprehensive array of iDirects enabling network topologies including star, mesh, iSCPC, and D-TDMA. The iDirect system supports a wide range of modulations and FECs for maximum flexibility regarding bandwidth optimization. In addition, the iDirect system supports sub-1 meter antennas along with phased array antennas. Also, the iDirect solution is specifically designed to operate in the harshest environments.

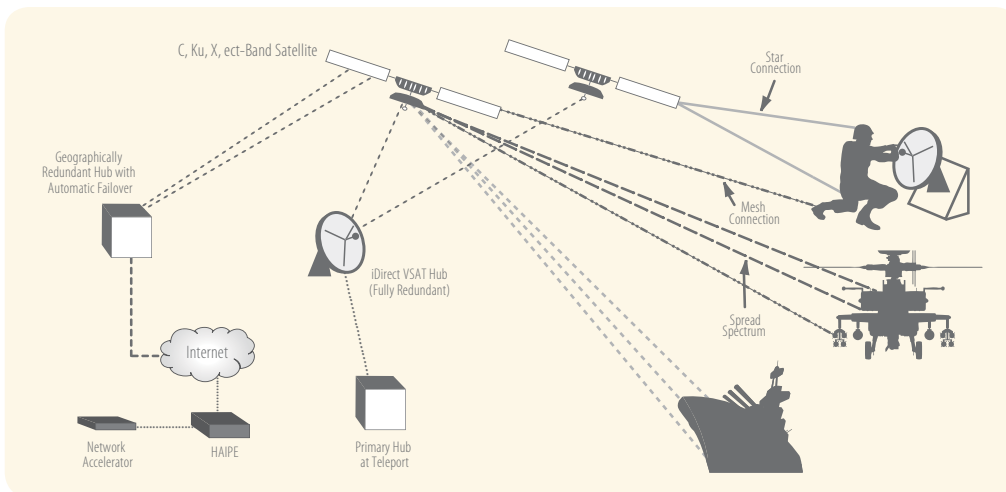


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## More Reliable, Secure IP Broadband Capabilities for COTM in Every Corner of the World

- iDirect has the robust solutions that meet even the most rigorous challenges of COTM.
- iDirect brings years of proven experience in mobile maritime applications for the commercial shipping and cruise ship industries
- Provides secure communication links for military vehicles and ground troops
- Provides real time data sharing, file transfers, and VPN extensions for management and control of plane/ship operations.
- Provides complete IP applications including video conferencing, voice, web browsing, and data transfers for disaster recovery
- iDirect's automatic beam switching and geographical mapping allow for the smooth roaming of remotes between networks — with little downtime and no manual intervention, ensuring a seamless global operation.

\*pending



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*Advancing a Connected World*