



 Inmarsat L-TAC

**Global Government**

# Inmarsat L-TAC™

## Beyond line of sight communications

### Mobile satellite communications in the field

Designed with soldiers in mind, Inmarsat's L-TAC service combined with Spectra SlingShot™ enables existing in-service tactical radios to transparently access Beyond Line of Sight communication (BLOS) without the need to modify the radio hardware or the cryptos. The service can be leased for a fixed period (minimum 1 month) and provides a complimentary service to existing UHF Satcom channel availability.

SlingShot™ combined with Inmarsat's L-TAC lease service is fully flexible and designed to meet security and reliability requirements cost-effectively. Once deployed, remote management and support is provided through a 24/7 network operation centre. The service offers a combination of reliable voice and data connectivity that is available globally,

independent of local infrastructure. It is also quick to set up, providing a fully configured solution which needs minimal user intervention before deployment. Comms on the Move (COTM) solutions are available for vehicles and the dismounted soldier.



### Scenario

Imagine the Joint Force Commander has decided he needs to expand into the rebel held territory to the west. The lead reconnaissance foot patrol supplies a steady flow of intelligence as it moves forward, constantly in touch with battle group HQ, well to its rear, without pausing to set up antennas. The mounted elements of the main assault force maintain communications with patrols and the HQ as they manoeuvre to the north, far beyond the range of UHF combat radio.

The battle group commander speaks securely and reliably on the move to a sector hundreds of kilometres away, and to flanking coalition partners, while logistic elements follow to the rear, ready to establish the new forward base, maintaining contact without the need for range-extension stations or the technical

challenges of mobile HF radio. Thanks to Inmarsat's L-TAC service, mobile BLOS communications are available inexpensively and with minimum additional training to all those with an operational need.

### Customer Challenge

Military users need to exercise command and control of widely dispersed forces in austere environments without the delay of deploying terrestrial infrastructures or the operational burden of protecting and sustaining them. UHF TACSAT channels are in short-supply and expensive.

### Requirement

Increase the number of TACSAT channels available to military users for voice and data over tactical, theatre and strategic distances using existing tactical radios.

### Solution

Inmarsat's world leading communications network includes the unique capability to provide single-hop L-L band relay from an existing global constellation of geostationary satellites. A small, external adaptor (SlingShot™) for military radios allows low-latency voice and data regional communications with the additional option of connecting to an out-of-theatre rear base command node.



## Benefits

- > Strategic, secure communications using existing equipment
- > Global coverage
- > Dedicated bandwidth
- > Voice and data
- > Independent of local infrastructure
- > Flexible leasing



T 1595 – 83 – Vehicle Omni Antenna (Active) COTM  
Manpack Omni Antenna (Half Active) COTM or COTP

## Applications

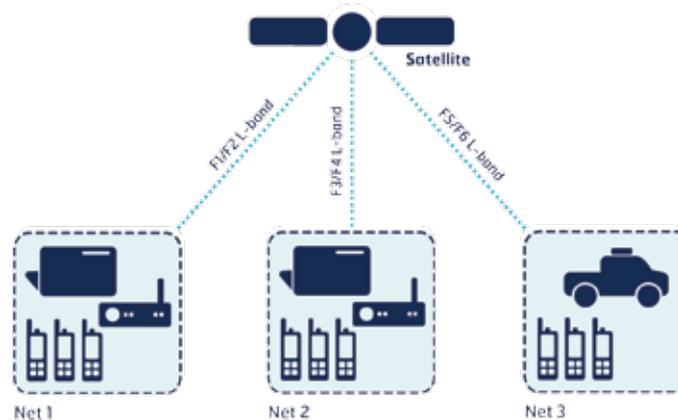
- > Uses existing radio hardware and cryptos
- > Very small form factor, lightweight and low power consumption
- > Global access with strategic backhaul
- > Narrow, Regional and Customised Beam footprints available
- > Beyond Line of Sight Communications without additional infrastructure
- > Easy to use
- > Netted voice and data for all- informed network
- > On the move, on the pause or at the halt
- > Channel lease options from one month



**SlingShot™** – Spectra's small, lightweight external appliqué for military radios, allows low-latency voice and data regional communications with the additional option of connecting to an out-of-theatre rear based command node



SlingShot™ Antennae – Spectra will provide Manpack, Vehicle and Marine antennae for COTM, COTP and COTH operations. With excellent size, weight and power characteristics these antenna are ideal for tactical, high tempo operations.



We connect those who protect

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