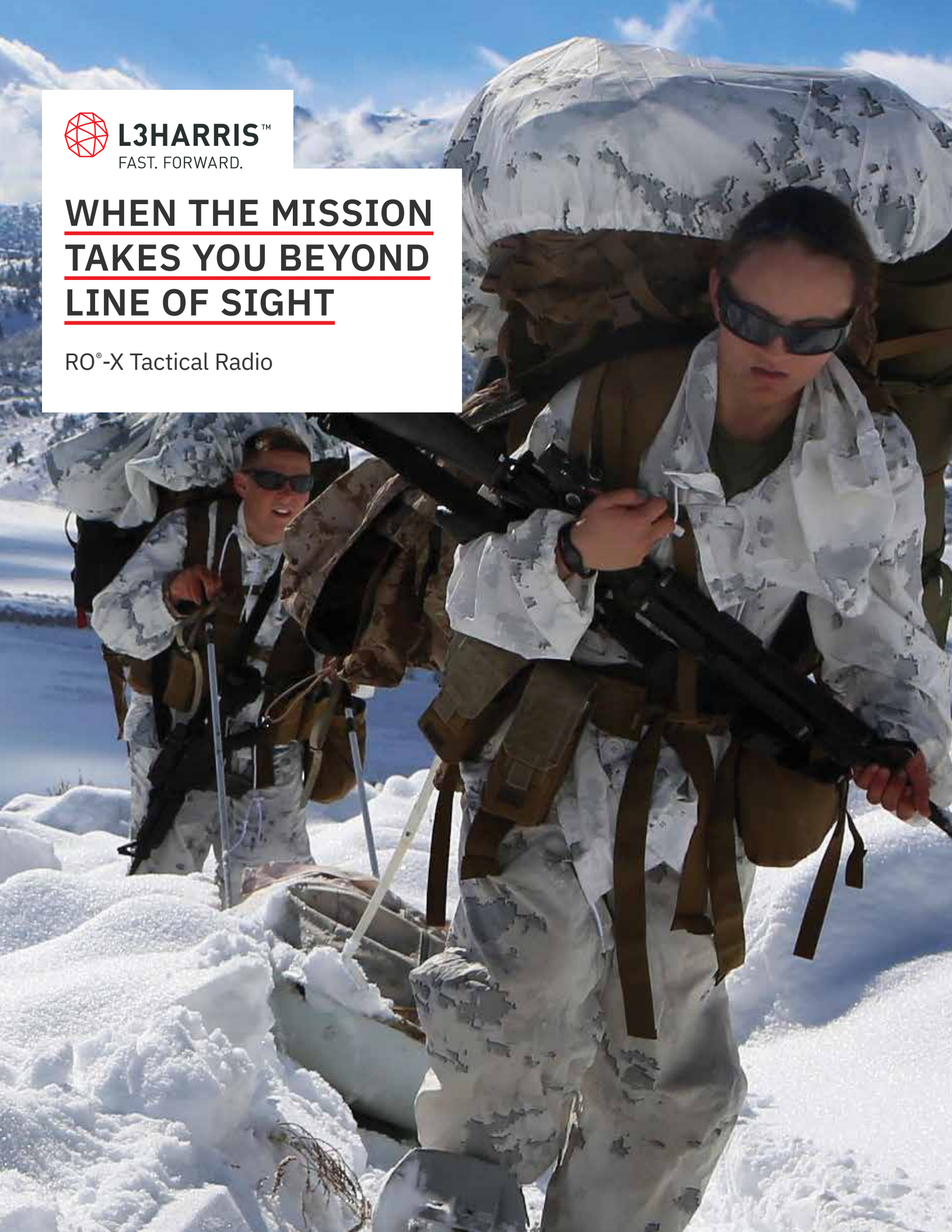




**L3HARRIS™**  
FAST. FORWARD.

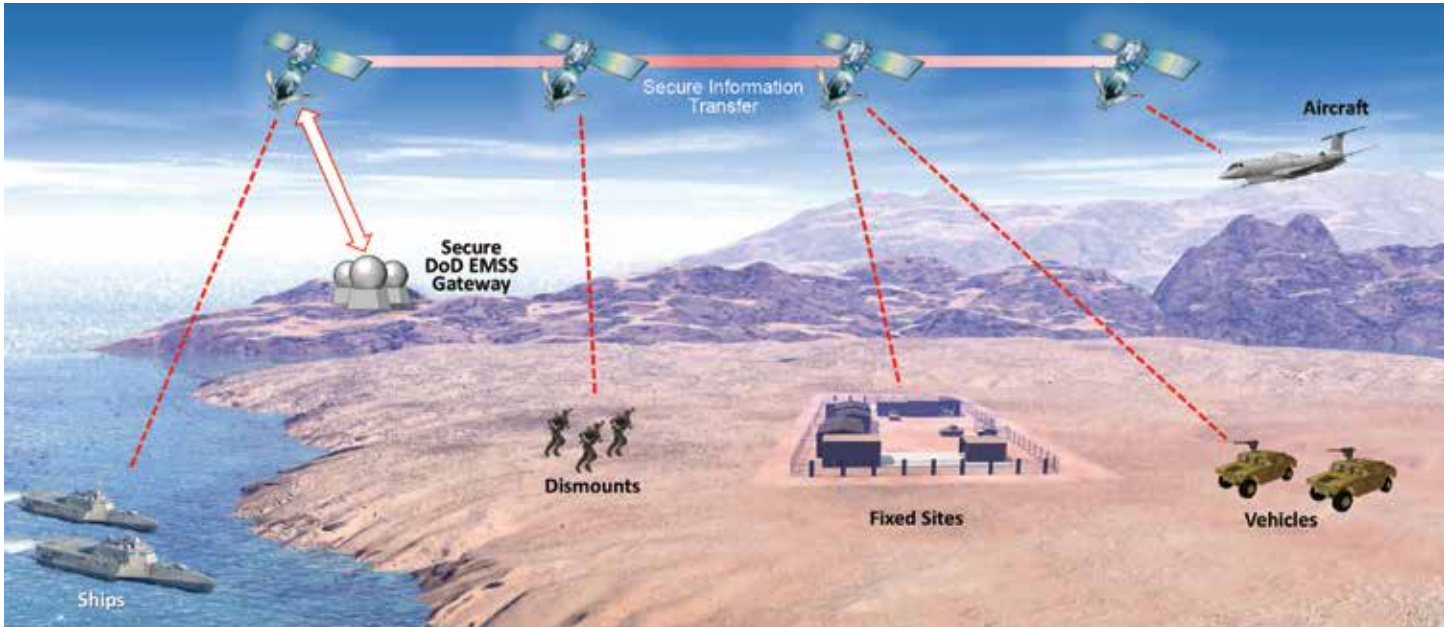
**WHEN THE MISSION**  
**TAKES YOU BEYOND**  
**LINE OF SIGHT**

RO®-X Tactical Radio



# WHEN THE MISSION TAKES YOU BEYOND LINE OF SIGHT, WE HAVE YOUR BACK

The need for disadvantaged users to acquire and manage critical communications has evolved along with the technologies themselves. Uninterrupted messaging and situational awareness are now critical along with voice communications.



**RO Tactical Radio**

**RO-X Tactical Radio**

### BENEFITS

- > True global push-to-talk (PTT) allows worldwide connection at all times
- > Small and light weight design lessens load on personnel in the field
- > Over-the-air rekeying (OTAR) provides secure communications
- > Crystal clear voice while stationary and on-the-move (OTM) requires less transmissions
- > Integrated messaging and global positioning system improves efficiency
- > Ease of use requires less training time

The L3Harris RO tactical radio has always provided the required beyond line-of-sight voice communications. Adding an external device such as the RO<sup>®</sup>-Mobile Awareness Platform (RO-MAP) personal data assistance (PDA) provided messaging and situational awareness.

The new RO-X takes the proven RO tactical radio and RO-MAP PDA capabilities and integrates them into one small and ergonomic radio.

RO-X radios, based on L3Harris AssuredReach™ technology, go to extremes to provide on-the-move (OTM), over-the-horizon (OTH) secure voice, data, and position location information (PLI) in a ruggedized, field-proven handheld communications device. RO-X utilizes the Distributed Tactical Communications System (DTCS) provided by the United States Space Force (USSF) Enhanced Mobile Satellite Services (EMSS) office.

The RO-X tactical radio meets the Federal Information Processing Standard (FIPS) 140-2 Level 2 requirement which provides an enhanced level of security. To allow units to manage their own radios, a DTCS Net Manager Web Portal has been developed. This is a secure web-based interface to allow configuration, monitoring, rekeying and control of unit radios and networks.

Equipped with an embedded GPS receiver, each RO-X radio transmits and receives voice and GPS over a single antenna. Encrypted PLI is transmitted with flexible configurable options to meet operational requirements.

The RO-X radio supports an Android smartphone-based application. This application allows the user to connect the smartphone (via Wi-Fi) to the radio, and to remotely use the smartphone's speaker and microphone when a clear view of the sky is not available.



# RO-X Tactical Radio

WAY BEYOND - THE SKY IS NOT THE LIMIT



## RO TACTICAL RADIO VS. RO-X RADIO

### CONVERGED VOICE AND MESSAGING

Delivering instant communications virtually anywhere, the RO-X tactical radio builds off the proven RO tactical radio to provide messaging and texting capability.

FEATURES		
	RO TACTICAL RADIO	RO-X TACTICAL RADIO
Push-to-talk (PTT)	One to many	One to many
Voice	Crystal clear voice	Crystal clear voice
Messaging	Requires external device	Integrated messaging
Display/user interface	Red LED	Color LED and 18 inch 320x178 pixel, 16-color display
USB	N/A	Yes
Battery	CR123A or RCR123 batteries	PRC-152A or PRC-163 batteries
Keypad	N/A	Full
Over-the-air rekeying (OTAR)	Yes	Yes
GPS capability	Yes, transmitting: time, distance and PTT	Yes, transmitting: time, distance and PTT
Wi-Fi capability	N/A	Yes
Bluetooth capability	N/A	Yes
SPECIFICATIONS		
Dimensions	W/D/H: 2.9 in (7.4 cm), 1.9 in (4.8 cm), 6.0 in (15.2 cm)	W/D/H: 3.0 in (7.6 cm), 1.75 in (4.5 cm), 9.8 in (24.9 cm) with battery
Battery life	Up to 10 hours	Up to 24 hours
Weight with antenna and battery	20.3 ounces	36.0 ounces
Net/talkgroup/capacity	10 via knob, 15 overall	10 via knob, 15 overall
Operating temperature	-30°C to +71°C (-22°F to +160°F)	-30°C to +60°C (-22°F to +140°F)
Durability	IP67, MIL-STD-810G: Temperature shock, humidity, salt fog, sand and dust, immersion, vibration and shock	IP67, MIL-STD-810G: Temperature shock, humidity, salt fog, sand and dust, immersion, vibration and shock
Encryption	NIST certified AES 256 voice and data	FIPS 140-2 Level 2 (pending)

# FAST. FORWARD.

When the Mission Takes You Beyond Line-Of-Sight: RO<sup>+</sup>-X Tactical Radio

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L3Harris Technologies is an agile global aerospace and defense technology innovator, delivering end-to-end solutions that meet customers' mission-critical needs. The company provides advanced defense and commercial technologies across air, land, sea, space and cyber domains.

