Thuraya Push-To-Talk
Seamless Connectivity

THURAYA

GROUP 3
CONN

Shift Home
Replay Call
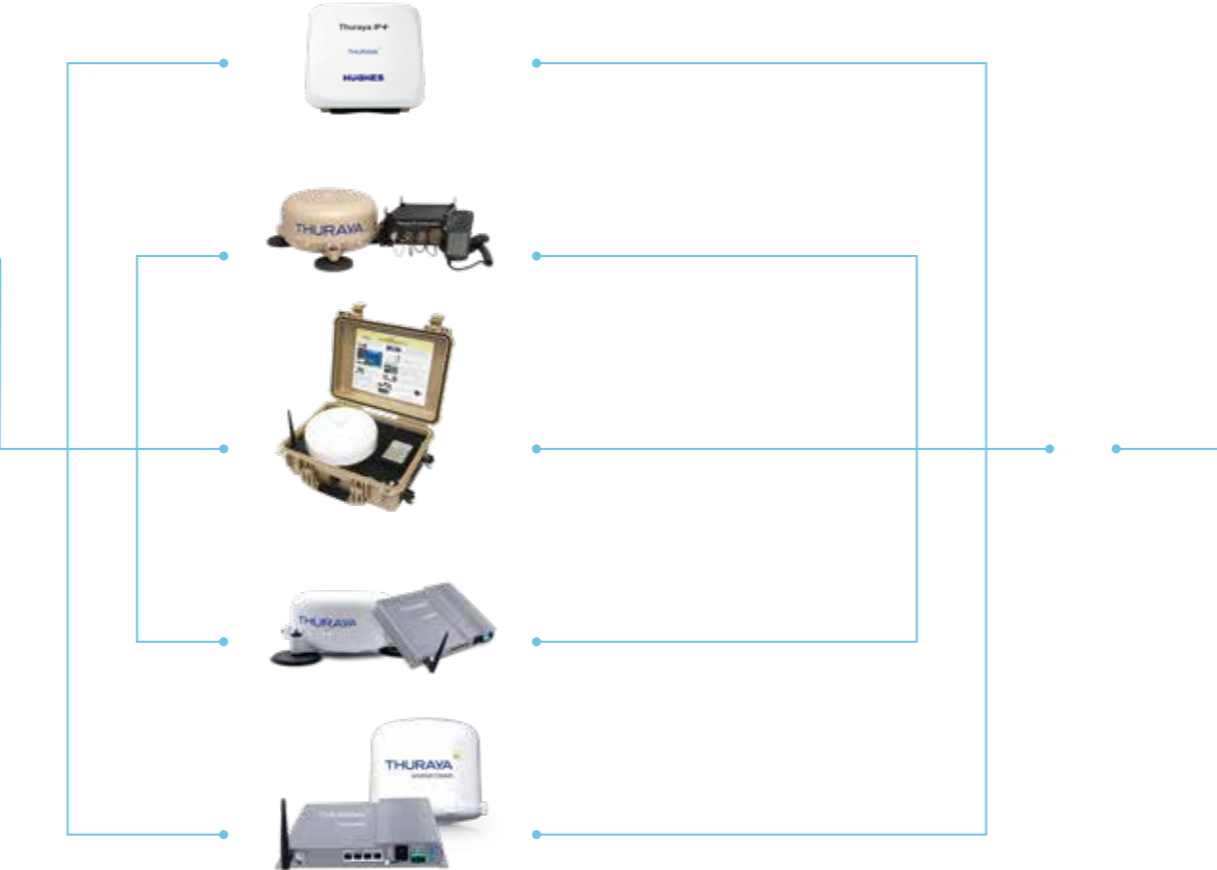
EXPLORER

THURAYA

Thuraya Push-To-Talk Solution

COBHAM

About Thuraya Push-To-Talk

Managing person-to-person communications is challenging, when your work involves conversations across different communication lines. Around the world, public entities and private user groups such as police, fire brigades, military, ambulances, utilities and NGOs require dedicated communications systems to carry out their day-to-day operations - safely, securely and efficiently.

The Thuraya PTT solution has been developed by Thuraya in collaboration with Cobham SATCOM, to help users manage communications seamlessly and as cost-effectively as possible. It keeps your mobile workforce connected and extends the range of voice communications beyond line-of-sight (BLOS), regardless of where the workgroups are based. Apart from streamlining communications efficiently, Thuraya PTT enhances privacy, workforce productivity and collaboration.

Uninterrupted, real-time voice and data communications

Combining the technological expertise of Cobham SATCOM with the rich market experience of Thuraya, Thuraya PTT creates a robust, reliable and secure communications platform that enables users to reach out to an active work group at a push of a button.

Our PTT solution consists of an IP-based radio communications solution that supports satellite/3G/LTE/LAN backhaul and Land Mobile Radio (LMR) integration to provide seamless switching between available networks in any situation. It is a cost effective integrated solution providing seamless connectivity and interoperability.

Benefits:

- Increased coverage with amalgamation of legacy 2-way Radio, cellular and L-Band satellite
- Interoperability among different groups with simple integration of their existing radio-analogue, DMR, P25, UHF, VHT and Tetra with L-Band satellite
- Reduces expensive terrestrial infrastructure costs
- Compatibility with a wide range of brands of land mobile radios
- Uninterrupted and seamless switching between satellite, cellular and LAN, ensuring zero loss of connectivity
- Limited bandwidth needed for each PTT call
- Availability at all times for critical communications
- 256-bit AES Voice encryption
- Delivers real-time data
- Competitive pricing

BENEFITS

INCREASED COVERAGE

COMPETITIVE PRICING

INTEROPERABILITY

COMPATABILTY WITH RADIO TERMINALS

REAL-TIME DATA

SEAMLESS SWITCHING

COST REDUCTION

SECURITY

A solution that fits your needs

Thuraya PTT extends the legacy push-to-talk capabilities to hybrid data networks such as terrestrial cellular networks, which are supplemented by Thuraya's satellite coverage in areas lacking cellular connectivity. The Mobile Gateway seamlessly connects to any Thuraya Broadband terminal and without any user intervention, the Thuraya PTT solution automatically routes voice traffic over the least expensive and most reliable network available, resulting in significant cost savings.

Cobham Explorer Mobile Gateway: A durable, dual-mode handset with a reinforced push-to-talk button and a high audio loudspeaker to deliver fast and simple communications

Thuraya PTT

- Integrated with existing radio solutions
- No prior infrastructure needed
- Firewall and traffic control
- Application-specific talk groups
- Training provided
- Secure data managment
- Least cost PTT routing
- 24/7 support
- Rapid deployment
- Real-time status alerts

Thuraya IP Voyager

Thuraya Orion IP

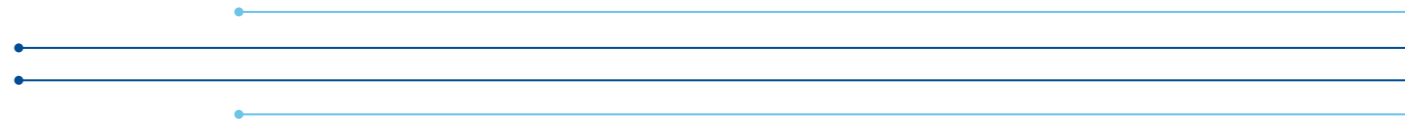**Thuraya IP Commander**

Thuraya IP+

Thuraya MCD Voyager

Thuraya broadband terminals

Thuraya's broadband terminals are the ultimate data solutions that are flexible, portable, easy to install and reliable. Designed and manufactured by trusted names in the satellite industry, these advanced solutions are lightweight and very easy to operate at the click of a button.
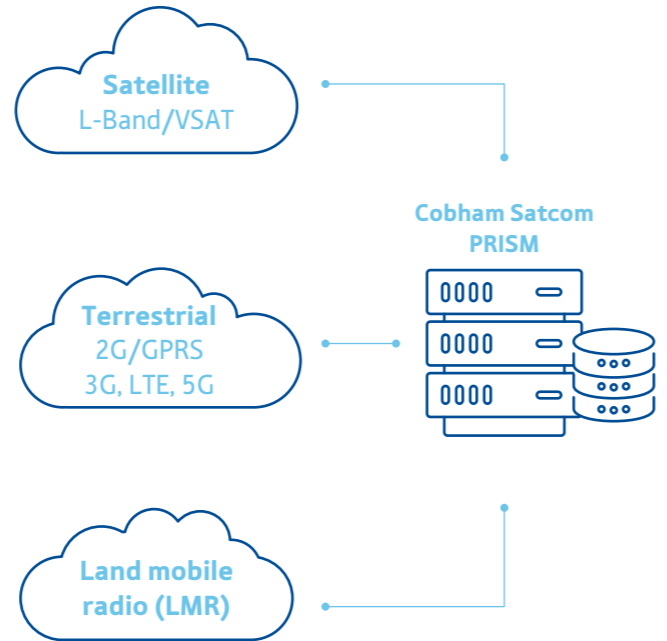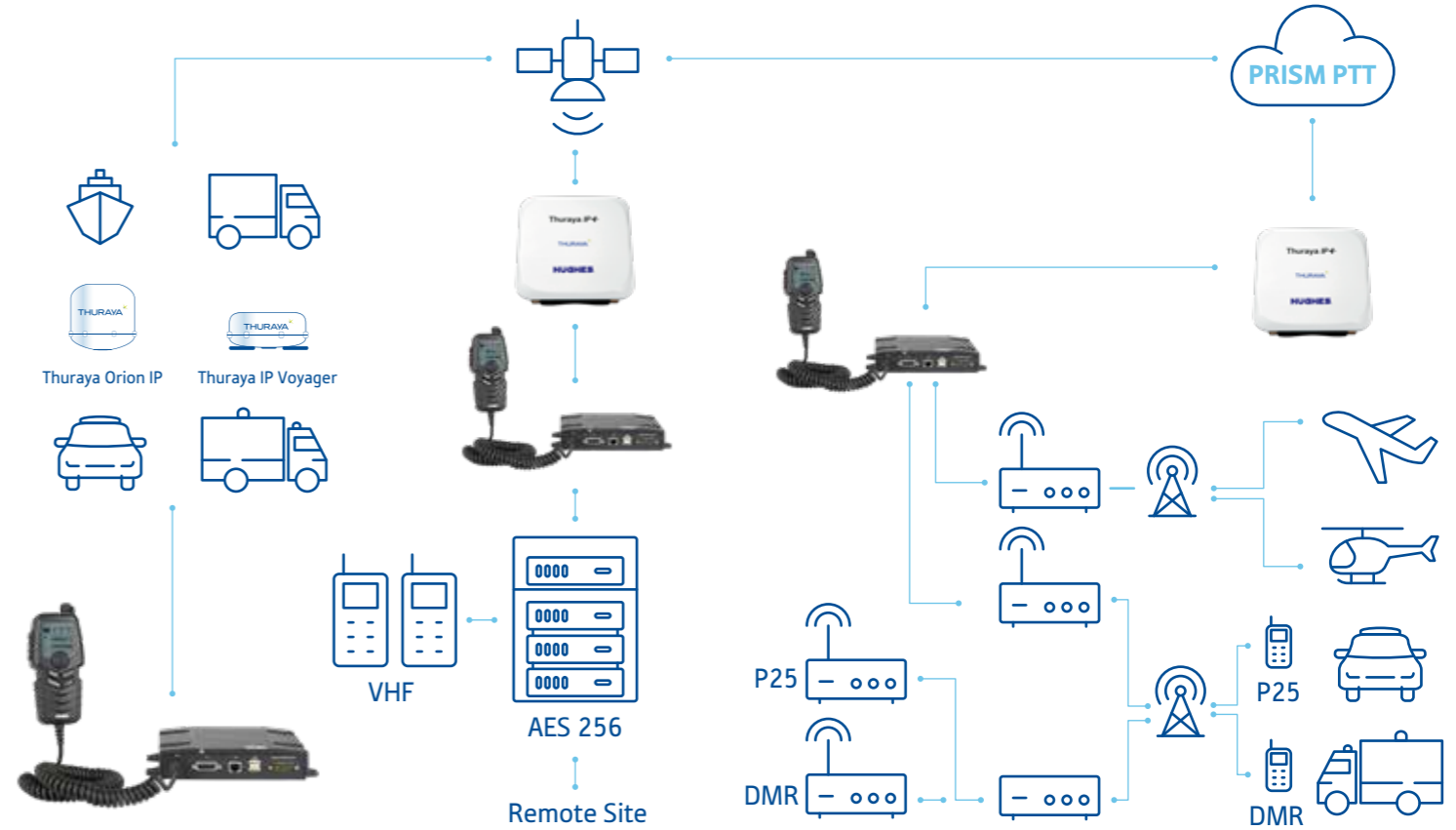For more information, please visit our website www.thuraya.com

Typical setup

Networks

Network #4

Satellite
L-Band/VSAT

Cobham Satcom
PRISM

Network #3

Terrestrial
2G/GPRS
3G, LTE, 5G

Network #2

Network #1

**Land mobile
radio (LMR)**

- Seamless **network switching**
- LMR/LTE **integration and interoperability**
- **Analogue to digital** to IP

Integration with different radio systems

PRISM PTT

Thuraya Orion IP   Thuraya IP Voyager

Thuraya IP+

VHF

AES 256

Remote Site

P25

DMR

P25

DMR

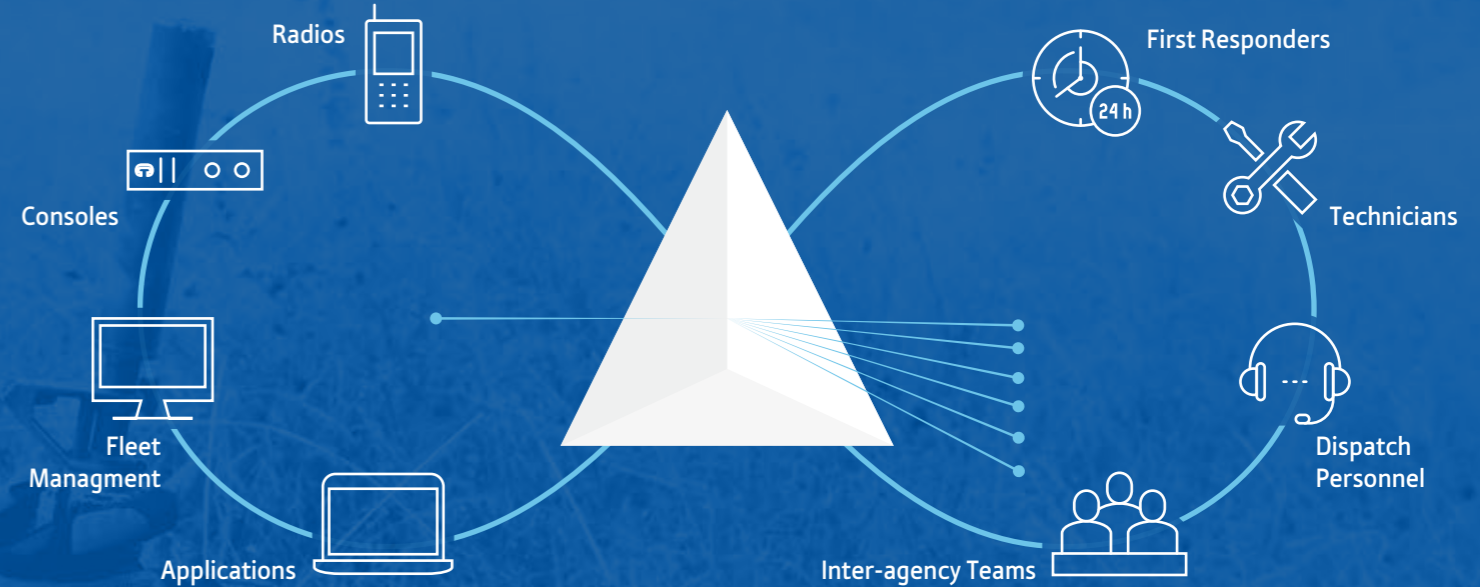# Easy to use, secure and interoperable on land and at sea

Very often in remote areas, critical users struggle with a lack of reliable connections, when they urgently need to communicate across countries and continents. Thuraya's Push-To-Talk service helps mobile workforces overcome this challenge, enhancing efficiency and safety.

Thuraya PTT is very easy to use and guarantees secure interoperability among multiple users on land and at sea. It manages communications from multiple devices and locations, creating an integrated, coherent and easy-to-access network. You can quickly establish a single remote headquarters to handle all your communications on one dedicated secure network, underpinned by Thuraya's broadband terminals and satellite network.

Ideal for:

• Public Safety: police, fire brigades and crisis management teams
• Defense: military, navy and air force
• Utilities: water, electricity and oil & gas
• Transportation: airports, seaports, railways and logistical operations
• Relief: UN organizations and NGOs for mission critical assignments

Thuraya PTT - One Unified Network using Thuraya PRISM Platform

Radios

Consoles

Fleet Managment

Applications

First Responders

Technicians

Dispatch Personnel

Inter-agency Teams

The Thuraya PTT-combined Thuraya satellite broadband terminals with the smart PRISM PTT radio communications platform extend voice communications beyond line-of-sight
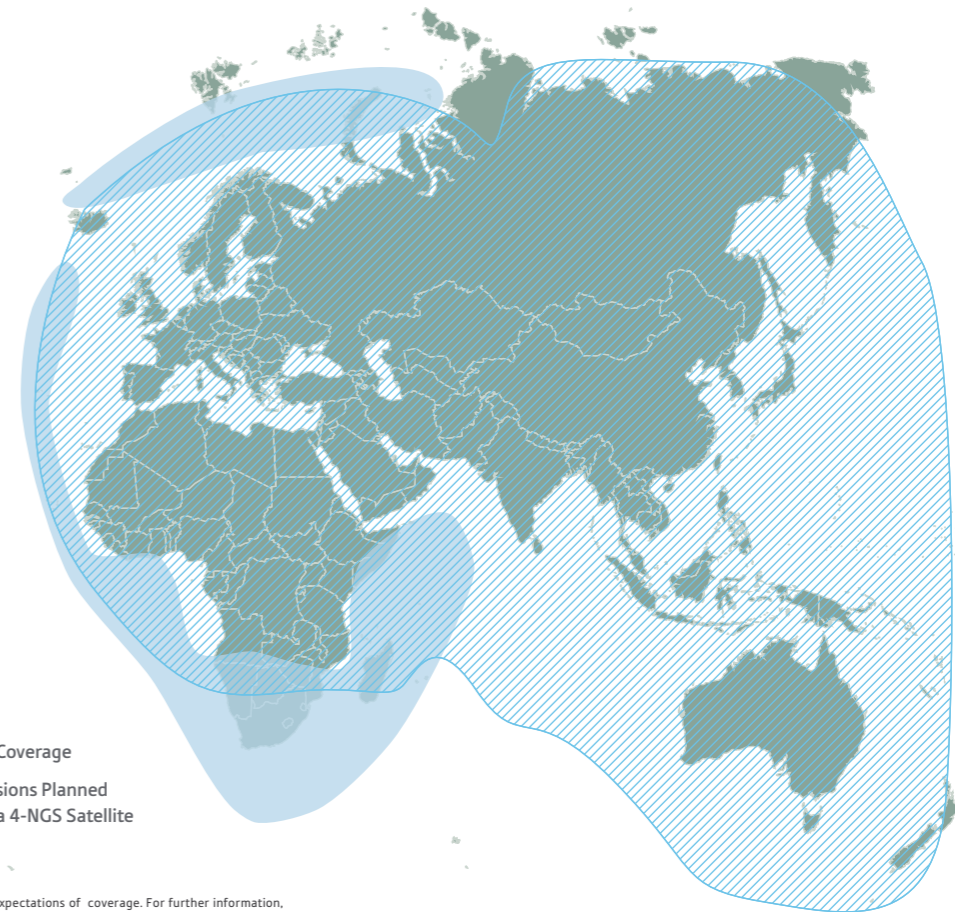
Thuraya's coverage area

The Thuraya PTT service enables users to stay connected on satellite mode from anywhere within our satellite footprint, which stretches across more than 150 countries in Europe, Africa, Asia and Australia.

Our reliable satellite network helps you enjoy uninterrupted connectivity when you are in the most challenging environments and remote locations, beyond the reach of terrestrial networks.

Thuraya L-Band Coverage

Coverage Expansions Planned
With The Thuraya 4-NGS Satellite

This map represents Thuraya expectations of coverage. For further information, please contact Thuraya Customer Care at customer.care@thuraya.com or visit www.thuraya.com

Technical specifications
Cobham Explorer - Mobile Gateway

On/off Volume

LCD DisplayLCD Display

- Network status- status

- Current Group- Group

- Connection status- status

PTT button

Jogwheel selector

4 Control buttons

- Menu Home- Home

- Menu Shift- Shift

- Replay- Replay

- Call- Call

Distress button on the rear

Specifications

Dimensions (H / W / D):

EXPLORER 3647 Terminal:	41 / 223 / 175 mm	
	1.6 / 8.8 / 6.9 inches	
EXPLORER 6205 Handset:	148 / 67 / 40 mm	
(Control Speaker Microphone)	5.8 / 2.6 / 1.6 inches	

Weight:

EXPLORER 3647 Terminal:	1 kg / 2.3 lbs
EXPLORER 6205 Handset:	375 g / 0.8 lbs

Services:

Push-To-Talk Voice:	Group call, Dispatch call
IP Service:	Seamless switching of IP Data
Approvals:	CE, GMPCS, FCC

Power

Power supply:

Terminal:	Nominal 12-24 VDC
	Operating 10.5-32 VDC
Handset:	Powered by the Terminal

Power consumption:

Max wattage:	38W
Typical use:	<10W

Environmental conditions

Temperature:

Operational:	-15 to +55
Storage:	-40 to +80

Ingress Protection:

EXPLORER 3647 Terminal:	IP31
EXPLORER 6205 Handset:	IPX6

Interfaces (terminal)

1 x LAN interface:

Connector type:	RJ-45
Data rate:	10/100 Mbps
API integration:	Supported

1 x I/O interface:

Connector type:	15 pin D-SUB connector containing: Loudspeaker output, Audio in, Audio out, PTT in, PTT out, serial port, 4-wire E&M interface

2 x USB:

Connector type:	USB host for Cellular Modems

1 x Microphone:

Connector type:	12 pin LTW connector for the EXPLORER 6205 Control Speaker Microphone

User interface

Handset (CSM):	Power On/Off, PTT button, 4 control buttons, 40x30mm Display, Jogwheel selector, Dimmer (display backlight), Distress button