



LEONARDO CYBER & SECURITY SOLUTIONS

# CSP-XPTT

THE PTT SOLUTION  
FOR YOUR BUSINESS

Radio communications has been a precious tool for the industrial sector and many operating procedures are built upon the immediateness and effectiveness of push-to-talk mechanisms. Technology evolution and increasing diffusion of cellular networks are changing the scenario for business critical sector introducing new opportunities to merge the effectiveness of radio communications with the versatility of broadband networks.

Leonardo **CSP-XPTT**, part of CSP (Communications Service Platform) product family, is a professional **Push-To-Talk solution** designed for business users. Inspired by the radio use leverages on internet technology to connect the company with its resources spread across the territory allowing professional radio-like communications on smartphones.

With XPTT the call uses the mobile data network and not the traditional phone call. It is therefore possible to communicate in PTT mode in one or more groups or between two users in full duplex. The application also allows to exchange multimedia messages: text, images, documents and videos. XPTT ensures geolocation and the position of resources. Each activity is tracked: movements, sending of messages/files, talks. XPTT is an “over the top” solution that can be deployed on a private broadband network or on a public cloud and used on commercial networks.



## A FULL FUNCTIONAL SOLUTION

CSP-XPTT is a complete environment enabling professional grade Push-To-Talk communications over cellular. It features a smartphone APP providing a rich set of multimedia enabled communications functions and a web portal for configuration, administration and operational management.

## A RICH SET OF VOICE SERVICES

CSP-XPTT voice APP allow one-to-one and group (one-to-many) calls with an easy to use intuitive smartphone graphical interface.

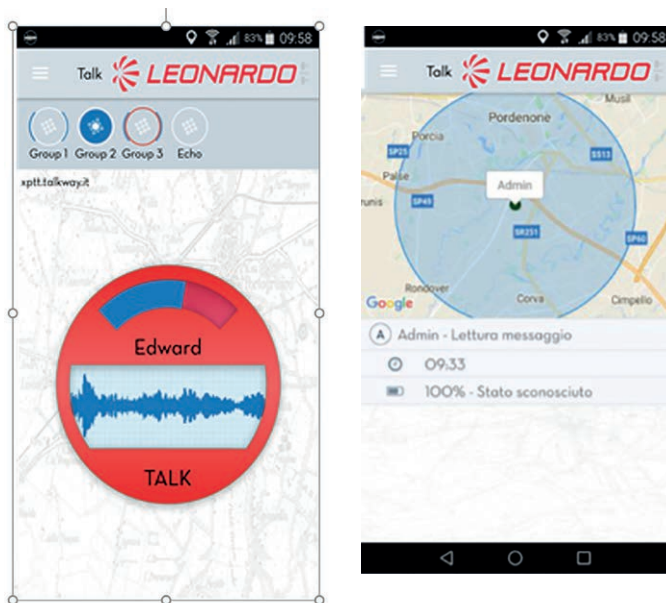
It provides priority and preemption management allowing to manage contention situations. Multiple group can be listened at the same time. Calls can be recorded on the device and can be listened after. While listening a recorded call, talker GPS position can be displayed together with the level of battery at call time.

## A POWERFUL MESSAGING PLATFORM

XPTT provides a fully functional chat application with the possibility to send text and multimedia message to users or groups. Detailed receipt information is displayed including time of receipt/read, GPS position and battery level.

## GEOLOCATION

GPS position is shared among group members and can be displayed on a map with tracking possibility. Battery level of other users is available as well.



## FILE SHARING

A group administrator can share files and information (e.g. maps, specifications, manuals) with group members proving team members with all information they need for their tasks. File can be download on smartphones and viewed as needed.

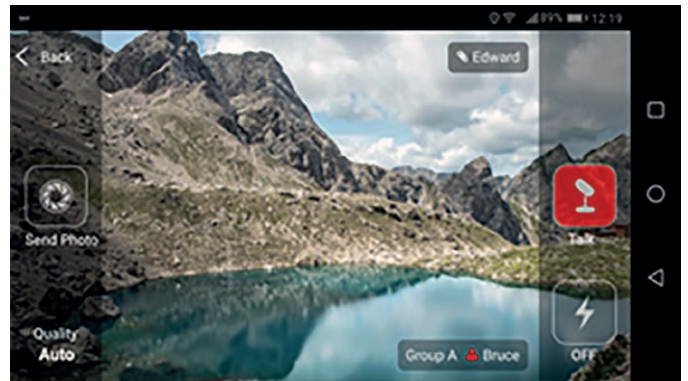
## MAN-DOWN ALARM FUNCTION

CSP-XPTT can manage smartphone device to detect a sudden fall or other abnormal condition (e.g. prolonged immobility) and manage the situation with proper information to group members or administration.

## CAMERA AND VIDEO MANAGEMENT

Smartphone camera is managed by CSP-XPTT with possibility to take and share a photo even when busy in a conversation.

Real time video streaming with group member or administration portal is possible as well.



## A FUNCTIONAL WEB PORTAL

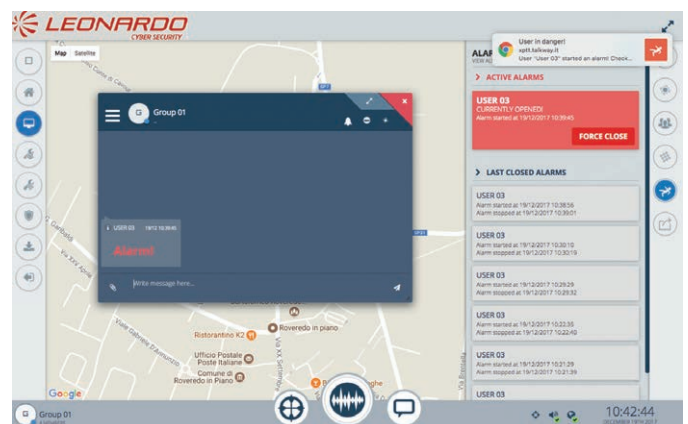
The web portal join in a single tool configuration and administration function together with operations management and dispatching.

The administration site of the web portal allows to create and modify users and groups, manage users' privileges and modifying groups composition in real time.

The web portal enables an organization to manage the day-to-day dispatch operations and rapidly respond to incidents, urgent situations, customer requests, facility events, and other situations that require quick actions.

It incorporates a powerful web based Push-To-Talk application that allow to make individual and group calls and listening several channels at the same time. It allows to share messages and multimedia files with users as well as manage video streaming.

On field users position is displayed on a map together with relevant users information that can be stores and exported if needed.



## ACCESSORIES

Leonardo CSP-XPTT client is tested and certified on a number of third party devices ensuring compatibility and optimized performance, and letting our customers to choose devices and accessories that make the most sense for their specific needs.

## FEATURES SET

<b>Conversation mode</b>	<ul style="list-style-type: none"><li>• Group call</li><li>• Private call</li><li>• Full Duplex Call</li><li>• Multi-Group Listening</li></ul>
<b>Conversation priority</b>	The user with the highest priority can intervene on the channel, interrupting users with lower priority, including sending acoustic signals
<b>Call history</b>	<ul style="list-style-type: none"><li>• The conversations are recorded and can be replayed if necessary</li><li>• Propagation of the GPS position of each conversation</li><li>• Propagation of the sender's battery level</li></ul>
<b>Maps, location and battery</b>	<ul style="list-style-type: none"><li>• Sharing GPS position</li><li>• Possibility of tracking</li><li>• Propagation of GPS accuracy</li><li>• Propagation of the battery level</li></ul>
<b>Message platform</b>	<ul style="list-style-type: none"><li>• Sending messages by user or group</li><li>• Sending files by user or group</li><li>• Photographic shooting with simultaneous sending per user or group</li></ul>
<b>Info available for message</b>	<ul style="list-style-type: none"><li>• Who received the message</li><li>• Who read the message</li><li>• GPS positioning</li><li>• Battery level</li></ul>
<b>Management Web console</b>	<ul style="list-style-type: none"><li>• Display users on map</li><li>• Push to talk from browser</li><li>• Group or private calls</li><li>• Listening to more groups</li><li>• Sending files and messages</li><li>• History of talk and messages</li><li>• Management of groups and users</li><li>• Management of access to groups by user</li><li>• Management of access to features by user</li></ul>
<b>Repository</b>	Virtual archive for large file storage
<b>Safety</b>	<ul style="list-style-type: none"><li>• SSL encryption</li><li>• Selection of channels and functions by user</li></ul>
<b>Integration into the PMR system</b>	RoIP Vocality® support
<b>External hardware supported</b>	<ul style="list-style-type: none"><li>• BToda® PTT button</li><li>• PTT button on hardware ECOM Smart-EX®</li></ul>
<b>Additional options</b>	<ul style="list-style-type: none"><li>• Man down</li><li>• Interface with Beacon</li><li>• Video Streaming</li><li>• Time Tracking</li></ul>
<b>Network supported</b>	<ul style="list-style-type: none"><li>• GPRS / EDGE / 3G / LTE</li><li>• Isolated networks</li></ul>
<b>Supported OS and requirements</b>	<ul style="list-style-type: none"><li>• Client: Android 5.0 or above</li><li>• Server: Linux Centos/ RedHat 7.0</li><li>• Dispatcher/web monitoring: Chrome browser</li></ul>
<b>Supported Hypervisor</b>	VMWare vSphere 6.5.0 and above

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