

CSP PLATFORM



Homeland Security & Critical Infrastructures

CSP-CM COMMUNICATIONS MANAGER

The Communication Service Platform (CSP) is a unified, integrated communications platform providing Professional, Public Safety functionality across a wide range of technologies including LTE and Wi-Fi.

MAIN FEATURES

The CSP Communications Manager (CSP-CM) provides the following main features:

- Individual Half Duplex Speech Call
- Individual Full Duplex Speech Call
- Group Speech Call
- PTT Handling
- PTT Priority Handling
- Short Data Service (SDS)
 - Individual SDS
 - Group SDS
- Priority Call

- Emergency Call (only for Busy User)
- Dynamic Group Number Assignment (DGNA)
- Pre-Emptive Call
- Talking Party Identification (TPI)
- Calling Line ID Presentation (CLIP)
- Virtual Private Network (VPN)
- Call Forward (Unconditional)
- Call Forward (No-Reply, No-Reachable, Busy)
- Call Barring

Multimedia features

- Point-to-point video calls
- Group real-time video streaming
- Simultaneous group real-time video streaming and voice on the same group calls (planned on roadmap)

Enterprise features

- Enterprise PABX functions (e.g. call tacking capabilities for control rooms).



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CSP-CM

Subscribers database management

The CSP-CM manages a subscriber database inside the CSP Service Management Node (CSP-SMN).

Resilience

Resilient architecture can be achieved by duplicating the CSP-CM in active/stand-by configuration, with automatic changeover to the Backup CSP-CM in case of unavailability of the Main CSP-CM.

Physical structure

CSP-CM is based on CSP-HW platform and Linux OS.

CSP-CM FUNCTIONS

- Call Control (CC)
- Short Data Message (SDS)
- Group Management
- Resource Management (TETRA)
- User Authentication
- Media GW
 - Voice Multicast Routing
 - Voice Codec GW
 - Video & Voice IP Matrix.

TRANSPORT AND TRANSPORT CONTROL FUNCTIONS

- L3 IP Quality of Service (QoS)
- L3 IP Routing
- GRE Protocol Support
- Configuration Planning tools:
 - SW Download
 - Plug & Play installation & Configuration.

