



Homeland Security & Critical Infrastructures

CSP-DS

DISPATCHER STATION

The CSP Dispatcher (CSP-DS) element is the Dispatcher Station developed for the CSP platform. It is designed to be the appropriate solution to support organizations operating in critical communication environments, such as Public Protection and Disaster Relief, utilities, Oil and Gas, mass transport, etc.

The CSP-DS allows an operator to interact with the CSP core network communications. The easy to use application is PC-based with a modern graphical interface.

The CSP-DS GUI is the SW component that provides the Human Machine Interface (HMI) to control room operators supplying a complete set of communication features such as voice and video communications, subscriber management facility, access to supplementary services.

The CSP-DS comes with an integrated multifunction audio device composed by the following user devices: microphone, Push-To-Talk (PTT) and loudspeaker.

Other plugs are available on the Integrated Audio Device (iAD) to support further external loudspeakers, pedal PTT switch, headset and handset. The services offered to the CSP-DS control room operator can be grouped in:

- Main PTT services
- Supplementary services

MAIN FEATURES

Telephonic services:

- Voice speech calls (individual calls, group calls)
- Short Data Service (individual SDS, group SDS, free text messages)
- Point-to-point video calls (planned on roadmap)
- Group Real Time video streaming
- Simultaneous Group real Time video streaming and voice communications (planned on roadmap).

Some supplementary PMR (Professional Mobile Radio) services:

- Priority, pre-emptive and Emergency Calls
- Group patching
- Dynamic Group Number Assignment (DGNA)
- Ambient listening
- Discreet listening
- E2EE for TETRA users
- Up to 16 simultaneous conversation
- Select & Unselect audio feature (capability of listening communications on different ears).

TECHNICAL DATA

HW platform

The CSP services not requiring demanding performance can be deployed on commercial PC workstations typically with Windows/Linux OS, hosting all the functional components needed for simple and flexible user-friendly interfaces.

HARDWARE CHARACTERISTICS

PC workstation configuration for the CSP-DS:

EQUIPMENT	DESCRIPTION
Operating System	Genuine Windows® 7 Professional 32-Bit (English)
CPU	Intel Xeon
RAM	4GB
Hard drive	2 x HD 500GB (minimum) RAID1 controller, 7200rpm (redundant)
Networking	LAN Server Adapter PCI – 10/100/1000 Mbit/s Dual (redundant)
Storage Controller	RAID 0/1/5/10, SATA and PCI
Graphics Controller	1GB DDR3 (video resolution 1280x1024)
Audio output	Stereo high definition, 24 bit conversion
I/O (input/output) ports:	USB 2.0
	RS-232 serial
	LAN
	VGA
Optical drive	1 x 8x DVD+/-RW
Mouse	Optical
Power consumption (fully equipped)	About 150 watt maximum
Power requirements	Input voltage 100-240VAC , 47/63Hz

PC workstation platform:

ENVIRONMENTAL CONDITIONS	
Storage	ETSI ETS 300 019-1-1 class 1.2
Transportation	ETSI ETS 300 019-1-2 class 2.2
Operation	ETSI ETS 300 019-1-3 class 3.1 (+5° to +40°C)
EMC	PC workstation shall be compliant to the standard EN 300 386. This standard concerns both emissions and immunity requirements. Emissions limits shall be those of the standard EN 55022 class A
Safety	PC workstation shall be compliant to the standard CENELEC EN 60950-1
CE marked	PC workstation shall be compliant to the essential requirements of the directive 2004/108/EC and then it is CE marked
1 For specific markets the CSP-DS is provided on semi-rugged laptop PC.	