

UNIFIED COMMUNICATIONS SUITE

Enabler of Digital Transformation



Unified Communications Suite

Our IP-based Unified Communications Suite (UCS) integrates disparate voice sub-systems to provide seamless voice interoperability across heterogeneous networks.

The UCS facilitates collaboration among multiple user groups by providing communications services to different clients and terminals such as professional mobile radios, IP telephones, analogue telephones, application client software on computers and smart phones.



Key Features



Complete System Suite

Centralised platform to manage end-to-end VoIP / RoIP communications



IP-based

Distributed architecture, geographic redundancy, high availability, pay-as-you-grow scalability



Virtualisation

Hardware agnostic and supports commercial-off-the-shelf (COTS) products



EUROCAE ED-137 Adherent

Interoperable with other vendor's equipment

Core Components

The UCS can be customised and configured to meet different operational requirements.



Integrated Dispatch Console



The Integrated Dispatch Console is a user-friendly integrated dashboard that provides a single point of access to manage all communications resources (e.g. radio, telephony) and can host fixed and ad hoc conferences. It supports

- Point-to-point and conference call, radio monitoring and access
- Radio-Over-IP (RoIP) sessions and radio coupling group
- Line conference monitoring and access
- USB stereo headset and speaker

Recommended Specifications

- Intel Core i5 processor
- 8GB RAM
- 256GB storage
- USB 2.0, 15" touchscreen display at 1920 x 1080 resolution
- Windows 10 Professional (64-bit)

Smart Mobile Application

The Smart Mobile Application provides seamless interoperable communications for users on different radio channels. Its Android based application enables users to provide on-the-ground situation awareness.



Key Features

- Secure communications
- Access to line calls and radios with monitoring function
- Workgroup set up
- Chat messaging and transfer of media files (photos/videos/voice recordings/documents)
- Video and audio conference call
- User account management
 - Access rights and security configuration
 - Pre-defined contact list and dynamic workgroup
 - Remote account management

Radio Gateway



The Radio Gateway bridges communications between analogue radio networks and IP-based system.

Key Features

- ED-137 adherent 8-port radio gateway with analogue audio and control interfaces
- Support EUROCAE-extensions (local port loopback)
- Support radio remote control (optional)

Specifications

- Dimension: 442mm (W) x 44.45mm (H) x 207mm (D)
- Weight: 2.5kg
- AC power adaptor: 110V to 240V, 50/60Hz
- FCC Class B Part 15

Communications Software Suite

The Communications Software Suite offers an array of communications software services. It leverages a Call Manager and Media Server that are

- ED-137 adherent
- RFC 3267 SIP compliant

It provides

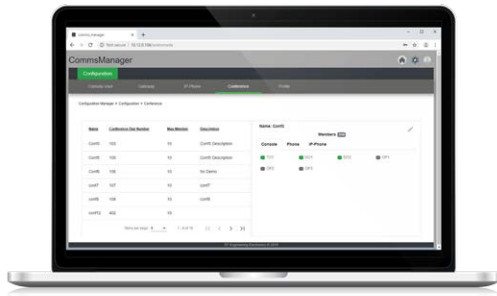
- RoIP / VoIP communications
- Preset line conferencing
- Server based ad hoc line conferencing

Recommended Server Specifications

- Xeon Processor (8 Cores) or equivalent
- 16GB RAM
- 1TB storage
- VMware ESXI

Communications Management Suite

The Communications Management Suite provides centralised system administration and configuration for seamless integrated communications.



Key Features

- Configuration Manager – configure devices and calls (dial numbers)
- Log Manager – view call history
- Status Monitor – view Integrated Dispatch Console operator log-in and device VOIP connection status
- Audit Trail – record changes that are made to the system

Accessory Components

The UCS supports a wide range of IP-based devices such as

Telephony / Cellular Gateway

Can be connected to PSTN to provide telephony services [via cellular network or Foreign Exchange Subscriber (FXS) / Foreign Exchange Office (FXO) interfaces]

IP Phone

Can be deployed as terminals for line calls and radio access in addition to the Integrated Dispatch Console

Note: Diagrams are for illustration purpose only. Specifications are subject to change without prior notice.

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DOP 0121



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