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# COMMS MUNDI HOTEL

## Tech sheet

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## 1. INTRODUCTION

This document details the technical specifications of the Comms Mundi Hotel (CMH) product. The functionalities of each of the components that are part of the CM-H product are detailed below.

## 2 COMPONENTS

The CM-H is made up of multiple components that offer a complete solution for hotel implementations. Each component is detailed below.

### 2.1 Data network

This component is responsible for managing the data network. It has the following features:

- ⑩ Configuration of IPv4 network interfaces, support for 802.1D bridges and support for multiple 802.1Q vlans
- ⑩ Advanced routing with support for source/destination routing policies, support for multiple gateways, in balanced mode or in failover mode
- ⑩ Identification of traffic at the application level
- ⑩ Bandwidth control, reserving different browsing priorities for different types of traffic, for example allowing web traffic to have higher priority over torrent traffic.
- ⑩ NAT/PAT
- ⑩ DHCP server
- ⑩ DNS server

### 2.2 Telephony

This component is responsible for managing calls. It has the following features:

- ⑩ PBX with support for VoIP protocols (SIP), by connecting analog telephony support cards, primary E1 or RSDI.
- ⑩ Supported audio codecs: G.711 (alaw/mulaw), G.726 AAL2, DVI4 (ADPCM), G.722, G.722.1 (Siren 7), G.722.1C (Siren 14), CELT, OPUS, SILK (skype codec), Speex, iLBC, GSM, BV16/32 (Broadvoice), Codec2, LPC10
- ⑩ Video call with support for supported video codecs: H.261, H.263, H.263-1998, H.263-2000, H.264, MP4, Theora, VP8 and VP9
- ⑩ Detailed call history
- ⑩ call recording
- ⑩ call center
- ⑩ Interactive Voice Menu (IVR)
- ⑩ voice mail
- ⑩ SMS sending
- ⑩ Fax send and receive
- ⑩ conference rooms
- ⑩ Weake up call
- ⑩ Text-to-Speech

## 2.3 Captive Portal / Hotspot

This component allows the management of the captive portal (UAM) responsible for authenticating, authorizing and accounting for user access. It has the following features:

- ⑩ Interception of all HTTP traffic
- ⑩ Login page for user authentication.
- ⑩ Possibility of automatic registration through validation by SMS
- ⑩ Real-time monitoring of connected users
- ⑩ Consumption management by time or volume of data per user
- ↘ nas and internal radius server

## 2.4 Security

This component is responsible for the security of system resources. It has the following characteristics:

- ⑩ VPN with support for ipsec, ipsec ikev1+xauth, l2tp/ipsec
- ⑩ Firewalls with support for Stateful Packet Inspection (SPI), Layer 2-7 traffic filtering rules
- ⑩ HTTP proxy with content filtering (lists of bad words, pornography, drugs, unauthorized websites,...)

## 2.5 Monitoring

This component is responsible for monitoring the state of the system and resources on the network. It has the following characteristics:

- ⑩ Graphs of the status of the server sensors (CPU, memory, traffic)
- ⑩ Programming of external sensors with monitoring icmp, snmp, http.
- ⑩ Graphic display of the programmed sensors.
- ⑩ Programming of sending alerts (email, call, sms) under alarm conditions of the values detected by internal and external sensors

## 2.6 Dashboard

This component is responsible for managing authorized users on the CM-H. It has the following features:

- ⑩ Registration, modification and cancellation of a user
- ↘ configure the maximum time of use of internet access
- ↘ set user browsing speed
- ⑩ Real-time panel of connected users, list of user suggestions,
- ⑩ Consultation of connections and calls made by a user

## 2.7 Login page

This component is responsible for the user login page. It has the following characteristics:

- ⑩ Login page to connect to the internet, configurable styles and logo.
- ⑩ Once the user is connected:
  - ↘ Suggestions mailbox
  - ↘ enable/disable wake up call

## 3 OPTIONAL COMPONENTS

The CM-H product allows optional components to be activated according to the need of the implementation. The optional components that can be activated are explained below.

### 3.1 Virtualization

This component allows the creation of virtual machines on the same CM-H server, allowing the installation of other software needed in the implementation without the need to purchase a new server.

### 3.2 Video Surveillance

This component allows the integration of IP video cameras with the CM-H, obtaining a video surveillance solution with the possibility of video recording, motion detection and programming of sending alerts using the monitoring component.

