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# COMMS MUNDI BROKER

## Tech sheet

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# 1 INTRODUCTION

This document details the technical specifications of the Comms Mundi Broker product. The functionalities of each of the components that are part of the product are detailed below.

## 2 COMPONENTS

The product is made up of multiple components that offer a complete solution for implementations in shopping centers. Each component is detailed below.

### 2.1 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 Fax send and receive
- ⑩ conference rooms

### 2.2 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

### 2.3 Broker client application

This component is responsible for the connection of the brokers to the telephony system. It has the following features:

- ⑩ Check system call status
- ⑩ Make/receive calls
- ⑩ Set up a 3 way call (conference)
- ⑩ Pick up call from another broker's extension

## 3 OPTIONAL COMPONENTS

The product allows you to activate optional components according to the need of the implementation. The optional components that can be activated are explained below.

### 3.1 data network

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

- ⑩ Advanced routing with support for source/destination routing policies, support for multiple gateways, in balanced mode or in failover mode
- 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
  - ↳ Allows you to define zone response policies: secure search for google, bing, youtube and RPZ domains.

### 3.2 Security

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

- ⑩ VPN with ipsec support
- 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,...)
- ⑩ Intrusion detection and prevention system (IDS/IPS) that allows identifying and blocking unwanted traffic through the use of Emergency Thread rules.

### 3.3 Authentication

This component is responsible for user authentication through VPN. Allows users to connect remotely securely.

It has the following characteristics:

- ⑩ VPN ipsec ikev1+xauth
- ⑩ vpn l2tp/ipsec
- ⑩ open vpn server
- ⑩ radius server

