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COMMS MUNDI INTEGRAL SME

Tech sheet

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1 INTRODUCTION

This document details the technical specifications of the Comms Mundi SME 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 SMEs. 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 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.

2.2 Telephony

This component is responsible for managing extensions and 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
- ⑩ SMS sending

2.3 Softphone - CommDesk

This component allows users to use telephony resources directly from their computers, tablets, mobile phones. For the full list of CommDesk softphone features see the CommDesk specifications document.

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 OpenVPN Server allows the connection of vpn users with the OpenVPN client
- 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.
- ⑩ Antivirus to protect web proxy downloads and mail service
- ⑩ Antispam to protect the mail service

2.5 Services

This component allows you to activate the necessary services in an SME such as:

- ⑩ File server with support for FTP and Netbios (SMB)
- ⑩ Mail server: smtp, imap and pop3.
- ⑩ Web server with php support.
- ⑩ MySQL database server.

2.6 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