Avenida de la Albufera, 323, pl. 2, of. 13
28031 Madrid (Spain)
Phone: +34 91 803 9251
E-mail:wirelessmundi@wirelessmundi.com

Web:http://www.wirelessmundi.com

COMMS MUNDI BUSINESS CENTER

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 business centers. Each of the components is detailed below.

2.1 Telephony

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

- PBX with support for VoIP protocols (SIP), by connecting analog telephony support cards, primary E1 or RSDI.
- 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
- 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
- Detailed call history
- call recording
- call center
- Interactive Voice Menu (IVR)
- voice mail
- Fax send and receive
- 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:

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

2.3 Business client application

This component is responsible for the connection of associates, branches or offices to the telephone system. It has the following features:

- Check system call status
- Make/receive calls
- Set up a 3 way call (conference)
- Pick up call from another partner'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:

- Advanced routing with support for source/destination routing policies, support for multiple gateways, in balanced mode or in failover mode
- Bandwidth control, reserving different browsing priorities for different types of traffic, for example allowing web traffic to have higher priority over torrent traffic.
- NAT/PAT
- DHCP server
- 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:

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

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