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# COMMS MUNDI SHOPPING MALL

## Tech sheet

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## 1. INTRODUCTION

This document details the technical specifications of the Comms Mundi Centro Comercial 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 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 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

### 2.3 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,...)
- ⑩ Intrusion detection and prevention system (IDS/IPS) that allows you to identify and block unwanted traffic through the use of Emergency Thread rules.

## 2.4 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

## 2.5 Dashboard

This component is responsible for managing authorized users. 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 dashboard of connected users
- ⑩ Connection query by a user

## 2.6 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.

