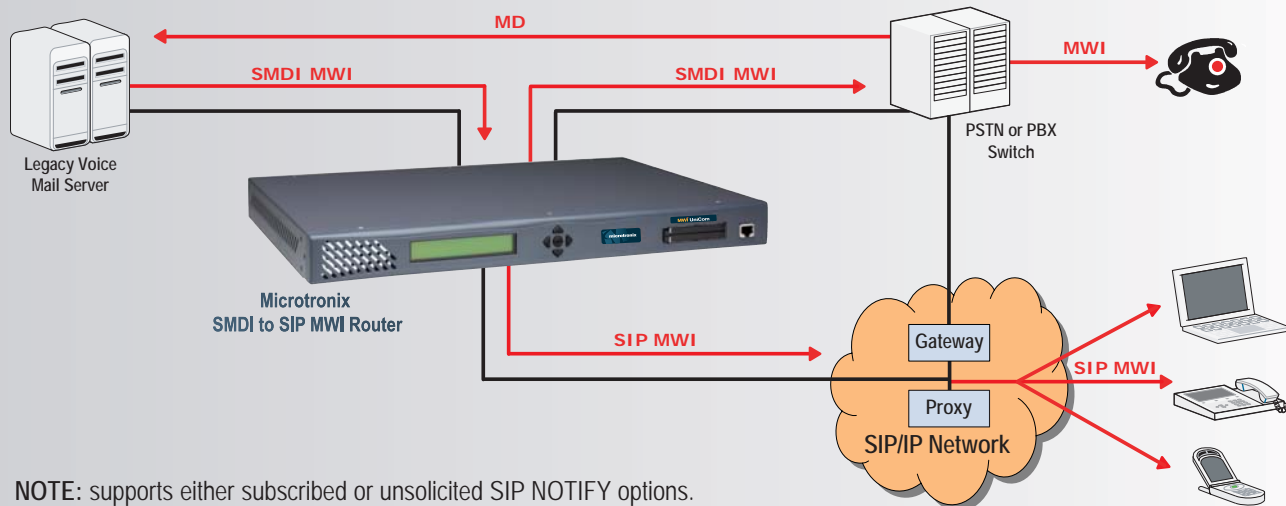




Product Brochure



NOTE: supports either subscribed or unsolicited SIP NOTIFY options.

OVERVIEW

The Microtronix MWI UniCom RT Router provides Message Waiting Indicator (MWI) notification from a legacy VMS system to VoIP devices across SIP/IP networks. The unit bridges the gap between the PSTN and SIP VoIP phone networks by tapping SMDI traffic between a Central Office PSTN Switch and the VMS system. VoIP (SIP) subscribers are identified from a Directory Number (DN) lookup table. Matching SMDI MWI notifications are translated into SIP MWI format and routed across the SIP/IP network to the subscriber's VoIP device.

Features

- Taps SMDI traffic between PSTN CO Switch and legacy VMS
- Pass-through of call integration (MD) messages
- Routes by DN to determine SMDI or SIP destination
- Translates SMDI MWI to SIP MWI notifications for VoIP subscribers
- User definable lookup table consisting of DN and destination information
- Web-based GUI for remote configuration and management

DESCRIPTION

The Microtronix MWI UniCom RT Router taps into the SMDI RS-232 serial connection between a PSTN Switch and a legacy Voice Mail System. The incoming SMDI messages are parsed for their Directory Number (DN) and MWI status. Upon receipt of an MWI message, a table lookup is made to determine whether the DN matches a registered VoIP device. If a match occurs and the device has an active subscription the DN and the MWI Status are used to form a SIP NOTIFY message `userID@domain.com` which is sent using TCP/IP to the registered VoIP device. If a match does not occur, the SIP NOTIFY messages to a SIP Proxy Server for DN to IP address resolution and delivery to the VoIP phone.

To activate the MWI function, each VoIP device may first subscribe to this service through the use of SIP Subscribe messages. Only the devices with active subscriptions will be able to receive the SIP NOTIFY MWI messages.

The MWI UniCom RT Router has the capacity to handle up to sixteen SMDI links for a total of eight Voice Mail Systems.

TECHNICAL INFORMATION

Messaging Example:

SMDI message received from Voice Mail System:
OP:MWI 5551234567!

The Directory Number (DN) is extracted and used in an outgoing SIP NOTIFY message with fields:

sip:5551234567@proxy
Messages-Waiting: yes

The SIP message is then forwarded to the SIP device.

Protocols and Standards

- Remote management via Simple Network Management Protocol (SNMP)
- SMDI: Simplified Message Desk Interface (Bellcore TR-NWT-000283)
- RFC 3261: Session Initiation Protocol (SIP)
- RFC 3265: Session Initiation Protocol - Specific Event Notification: (EXT. of 3261)
- RFC 3842: A Message Summary and MWI Event Package for SIP
- RFC 3966: The tel: URI for telephone numbers
- ITU-T E.123 Notation for national and international telephone numbers
- UDP and TCP

Hardware Features

- 1U 19" Rack mount platform
- Dual Ethernet interfaces
- 100 - 240 VAC or -48 VDC / NEBS
- Optional: redundant power supplies
- Up to 16 RS-232 Serial Ports
- 2 PCMCIA slots
- PCMCIA Hard Drive
- Front panel accessible Console Port

ORDERING INFORMATION

PART NUMBER	DESCRIPTION
6420-01-XX	MWI UniCom RT (AC Powered)
6420-01-N-XX	MWI UniCom RT (DC Powered, NEBS approved)
Optional:	Extended H/W Warranty
Optional:	S/W Maintenance

Instructions:

When quoting the above part number please replace **XX** with the number of required SMDI link licenses. **For example:** an AC Powered MWI UniCom RT unit with 4 SMDI link licenses appears as follows: **6420-01-04**

Distributor / Representative:

Where to Buy

This product is available online from: Microtronix webstore and authorized Microtronix distributors.

Messaging Capabilities

The MWI UniCom RT Router provides translation of SMDI messages into Unsolicited SIP NOTIFY messages. The DN is extracted from the SMDI message then used to form a SIP NOTIFY message. The destination address specified in the SIP NOTIFY message is dependent on the configuration of the Router. The SIP NOTIFY messages may be sent directly to a SIP Proxy Server which will be responsible for resolving a DN to an IP address. Alternately, the Router is configured to have its own DN-IP Address lookup table in order to send the SIP NOTIFY messages directly to VoIP devices.



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