ClearOne.

Firmware
RELEASE NOTES

FIRMWARE UPGRADE OVERVIEW

November - 2013

ClearOne announces a new firmware update for the MAX IP and MAXAttach IP products. The firmware update version 4.0.14.0 presents enhancements and resolves the issues described below.

- Support for the "*" character within the dial plan has been added.
- All session timers are enabled in MAX IP and they are not reset when a call is received.

FIRMWARE UPDATE PROCEDURE

Follow the procedures outlined in the MAX IP Firmware Upgrade Technical Note.

http://www.clearone.com/resources#unified_communications

May - 2013

ClearOne announces a new firmware update for the MAX IP and MAXAttach IP products. The firmware update version 4.0.12.0 resolves the issues described below.

- G.729 Annex B has been disabled. Calls are still able to use G.729 and G.729 Annex A. However, call setups are now configured so that the annexb=no flag is set in all INVITE and 200 OK response messages.
- We have implemented changes required for interoperability with Huawei SIP based IP PBX

FIRMWARE UPDATE PROCEDURE

Follow the procedures outlined in the MAX IP Firmware Upgrade Technical Note.

http://www.clearone.com/resources#unified_communications

March - 2011

ClearOne announces a new firmware update for the MAX IP and MAXAttach IP products. The firmware update version 4.0.10.0 resolves an issue specific to the Cisco and Avaya IP PBX systems as described below.

FIXED ISSUES FROM RELEASE 4.0.8.0

Un-Mute - Problems associated with the MAX IP occasionally un-muting its microphones on Cisco and Avaya IP PBX systems have been fixed.

FIRMWARE UPDATE PROCEDURE

Follow the procedures outlined in the MAX IP Firmware Upgrade Technical Note.

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August - 2010

ClearOne announces a major product release for the MAX IP and MAXAttach IP conference phones. The Version 4.0 release includes new features and additions associated with the SIP capabilities. Key elements of this release are described in the following section.

NEW FUNCTIONS, FEATURES AND ENHANCEMENTS

Failover Proxy Registration - Version 4.0 has implemented a dual proxy registration method. The Failover Proxy Registration function allows for failover operations by automatically switching to a Secondary Proxy if communication is lost with the Primary Proxy. However, an explicit domain name must be used for the function to operate properly with a common dial plan. If Static IP addressing for Proxy 1 and Proxy 2 are used, then the dial plan will not work properly.

VoIP Security - Security RTP and TLS capabilities have been added to Version 4.0.

Domain Name Server (DNS) - DNS Lookup capability was added to Version 4.0.

Proxy Type Function - A new function was added to the MAX IP configuration which allows users to designate a specific proxy manufacturer. During the interoperability testing with Cisco Call Manager 7 it was found that if a SCCP Endpoint placed the MAX IP on hold, the media stream could be suspended. The root cause of this was in how CM7 performed its SIP messaging. To correct the issue and maintain compatibility with other SIP proxies, a Serial Command was added to the MAX IP. The command is "**PROXYTYPE**" and has been added as a setting on the configuration page.

TFTP Configuration File - New capabilities and functions have been added to allow full configuration settings to be implemented from a TFTP file transfer. Sample files for the new configuration and dial plans are available on the Product CD or on ClearOne Website.

INTEROPERABILITY TESTING

Version 4.0 was internally tested for Interoperability with the products listed in the table below.

CATEGORY	MANUFACTURER	REVISION/MODEL
Proxy/PBX	Cisco Call Manager	7.0
	Avaya Communication Manager	5.1
	Asterisk	1.6.X
Telephone Sets	Linksys	922/962
	Aastra	9133/480I
	Polycom	IP7000
Softphones	Ibeam	1.X
	Avaya	
	Cisco	

COMPATIBILITY ISSUES

Cisco Call Manager 7 Hold Functions - In order for the MAX IP *Hold* function to work properly with Cisco CM7, the Proxy Type setting must be configured for CM.

FIXED ISSUES FROM RELEASE 3.0

183 Response - Added early media capability to support a reported bug with Nortel Auto Attendant.

INFO/NOTIFY Message - Corrected a reported bug with Nortel systems for MAX IP to respond to INFO requests from proxy.

DTMF Relay - Added ability to send DTMF commands as INFO messages.

Codec List - Modified MAX IP response for SDP to include all supported Codecs. Previously, the response only included the preferred Codec which may result in a failed negotiation.

Cisco 3-Way Calling - Problems associated with the MAX IP 3-way calling has been resolved. Corrected methods for call transfer and hold that are compatible with Cisco.

KNOWN ISSUES IN VERSION 4.0

None

FIRMWARE UPDATE PROCEDURE

Follow the procedures outlined in the MAX IP Firmware Upgrade Technical Note.

http://www.clearone.com/resources#unified_communications

April - 2007

ClearOne has updated the firmware for MAX IP and MAXAttach IP.

Products affected:

- 910-158-301   MAX IP
- 910-158-350   MAX IP Expansion Kit
- 910-158-355   MAXAttach IP
- 910-158-355-01   MAXAttach IP plus one expansion kit
- 910-158-355-02   MAXAttach IP plus two expansion kits

This is a major upgrade for both SIP interoperability and features.

New features include:

- Interoperability improvements for handing hold and remote hold commands
- Support of Music on Hold
- Support for Auto Answer
- Improved diagnostic and debugging capabilities
- Display of SIP Proxy registration status
- Conferencing state change enhancements
- Support for configuring the RTP base port
- Support for DTMF tones when dialing

In general, this firmware release resolves a large number of interoperability issues with a variety of SIP platforms, and adds features that ClearOne customers have requested.

Firmware Upgrade Procedure

Follow the procedures outlined in the MAX IP Firmware Upgrade Technical Note:

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> ## ClearOne Locations