

TANDBERG

MXP

Software Release Notes

Software Version F8

D50562 Revision 1

March 2009

TABLE OF CONTENTS

DOCUMENT REVISION HISTORY.....	3
SOFTWARE RELEASE NOTES FOR TANDBERG MXP ENDPOINTS VERSION F8.0.....	4
Introduction	4
New Features	5
<i>Video</i>	5
<i>Audio</i>	9
<i>Network</i>	9
<i>User Interface</i>	15
<i>Secure File Transfer</i>	19
<i>API \ XML</i>	19
<i>Usability</i>	19
Changes and Improvements since Previous Version	20
<i>Video</i>	20
<i>Audio</i>	20
<i>Network</i>	21
<i>User Interface</i>	21
<i>Web Interface</i>	22
<i>Security</i>	23
<i>API \ XML</i>	25
<i>Usability</i>	25
<i>Interoperability</i>	25
Supplemental Notes	26
<i>Software Filenames</i>	26
<i>Getting the Software</i>	26
<i>Installation</i>	26
<i>References</i>	26
Known Limitations.....	27
<i>TANDBERG</i>	27
<i>Polycom</i>	28
<i>RADVISION</i>	29
Interoperability Testing	30
<i>H.323 Gatekeepers/Traversal Servers</i>	30
<i>SIP Registrars/Proxies</i>	30
<i>SIP Client Applications</i>	30
<i>SIP PBX</i>	30
<i>Gateway Interoperability</i>	31
<i>MCU Interoperability</i>	31
<i>Streaming Servers</i>	31
<i>Endpoint Interoperability</i>	31

DOCUMENT REVISION HISTORY

Revision 1 Release of F8.0, Initial Version

SOFTWARE RELEASE NOTES FOR TANDBERG MXP ENDPOINTS VERSION F8.0

Introduction

These release notes describe the new features and capabilities included in the TANDBERG MXP Endpoints software version F8.0 released on 15 April 2009.

Note: This software applies to all MXP endpoints that run the F series of software. The TANDBERG 150MXP does not run F software, but runs L series software. Statements and functionality in this document do not apply to the TANDBERG 150MXP system. Please see the Software Release Document for L series software.

Camera Software Upgrade

F8.0 software will automatically upgrade the Precision HD camera to software version S01692-3.0Final [ID:30037] when connected to the TANDBERG High Speed Serial Interface (THSI – Data Port 2). This software upgrade will occur 30 seconds after the codec restarts the second time after the endpoint software upgrade. The Precision HD camera is still functional during the upgrade process, but will restart automatically once the software is loaded resulting in no video for 15 seconds.

New Features

Video

Aspect Ratio (Local Display)

F8.0 supports the adjustment of the aspect ratio for the TV and DVI-I outputs to Auto, Clip, Letterbox, and Fill, allowing the end-user to customize the aspect ratio of the monitor to the preferred configuration. The Aspect Ratio settings are located in the user interface under Control Panel > General > Screen Settings > Aspect Ratio.



Figure 1: Aspect Ratio Settings

Auto = The endpoint determines the best aspect ratio to display by combining Clip, Fill, and Letter Box.

Clip = Adjusts the source by clipping, to match the aspect ratio of the display window.

Letterbox = Adjusts the source by adding black bars, to match the aspect ratio of the display window.

Fill = Stretches/shrinks the source to fill the display window. The aspect ratio of the source does not match the display.

Availability: 8000 MXP Profile, 6000 MXP Profile, 6000 MXP Portable, 6000 MXP Integrator, Maestro MXP, 3000 MXP Profile, 3000 MXP Portable, 3000 MXP Integrator, 1500 MXP, 1700 MXP, 1000 MXP, Edge 95/85/75 MXP, Set-Top 990/880/770/550 MXP, Tactical MXP, Compass MXP, Utility MXP

Restrictions: Aspect Ratio Settings menu may vary depending on model of MXP endpoint.

WXGA Input Support

F8.0 now supports PC resolutions of up to WXGA (1280x768, 1280x800, 1366x768 and 1360x768) for both local view and transmit to the far end during an active video call, either as the main stream or the dual stream. Depending on the far end capabilities, these resolutions can now be transmitted at the following native resolutions: XGA (1024x768), 1280x768, 1280x800, 4CIF, w720p or w576p.

Availability: 8000 MXP Profile, 6000 MXP Profile, 6000 MXP Portable, 6000 MXP Integrator, Maestro MXP, 3000 MXP Profile, 3000 MXP Portable, 3000 MXP Integrator, 1500 MXP, 1700 MXP, Edge 95/85/75 MXP, Set-Top 990/880/770/ MXP, Tactical MXP.

Restrictions: Not available on the 550 MXP
 The following endpoints 1000 MXP, Compass MXP, Utility MXP, utilize 4:3 aspect ratio monitors.

H.239 WXGA

F8.0 software supports transmit and receive of WXGA PC resolutions of 1280x768 and 1280x800 over the H.239 dual channel if supported by the far-end.

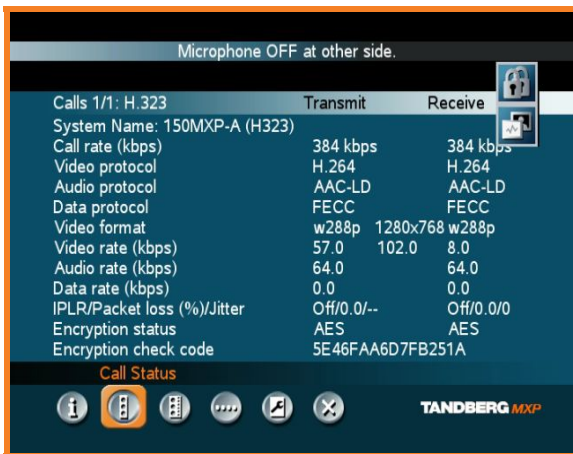


Figure 2: Call Status with 1280x768 H.239

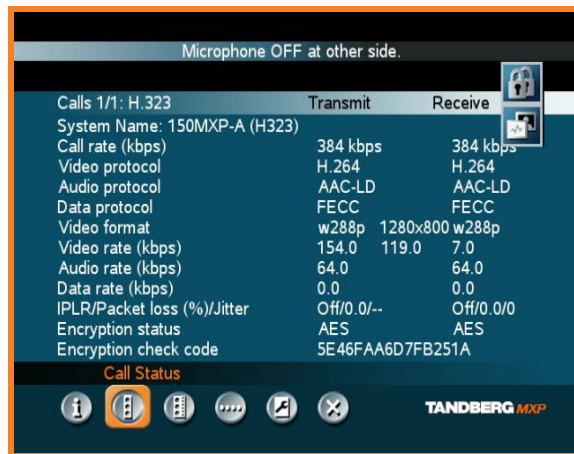


Figure 3: Call Status with 1280x800 H.239

Availability: 8000 MXP Profile, 6000 MXP Profile, 6000 MXP Portable, 6000 MXP Integrator, Maestro MXP, 3000 MXP Profile, 3000 MXP Portable, 3000 MXP Integrator, 1500 MXP, 1700 MXP, Edge 95/85/75 MXP, Set-Top 990/880/770 MXP, Tactical MXP

Restrictions: WXGA receive only for the 1000 MXP, 550 MXP, Compass MXP, Utility MXP.
 Transmit XGA resolution only for the 1000 MXP, Compass MXP, Utility MXP.
 Not available to transmit H.239 from the Set-Top 550 MXP.

WXGA Output

F8.0 supports the selection of WXGA (1280x768) output from the user interface. This is located under Control Panel > General > Screen Settings > Video Out > VGA Out Quality.



Figure 4: Video Output Settings

- Availability: 8000 MXP Profile, 6000 MXP Profile, 6000 MXP Portable, 6000 MXP Integrator, Maestro MXP, 3000 MXP Profile, 3000 MXP Portable, 3000 MXP Integrator, 1500 MXP, Edge 95/85/75 MXP, Set-Top 990/880/770/550 MXP, Tactical MXP
- Restrictions: Not available on the 1000 MXP, Compass MXP, Utility MXP.
The 1700 MXP always outputs WXGA 1366x768 to the screen.

Keep Duo Open

F8.0 software support the ability to keep the dual channel open even when there is no presentation video source connected to the endpoint.

Command:

xConfiguration KeepDuoOpen: <On/Off>

- Availability: 8000 MXP Profile, 6000 MXP Profile, 6000 MXP Portable, 6000 MXP Integrator, Maestro MXP, 3000 MXP Profile, 3000 MXP Portable, 3000 MXP Integrator, Edge 95/85/75 MXP, Tactical MXP, Compass MXP, Utility MXP
- Restrictions: Requires Natural Presenter Package Options
Not available to transmit H.239 from the Set-Top 550 MXP

PrecisionHD Camera

Precision HD camera software ID 30037 is a maintenance update to improve the tuning of zoom control and pixel correction. There are no new features included within this release.

Note: It may be possible that the Precision HD camera is not detected after the camera has been upgraded. Power cycle the camera or system to re-establish communication to the camera.

Availability:	8000 MXP Profile, 6000 MXP Profile, 6000 MXP Portable, 6000 MXP Integrator, Maestro MXP, 3000 MXP Profile, 3000 MXP Portable, 3000 MXP Integrator, Edge 95/85/75 MXP.
Restrictions:	Not available on the 1000 MXP, 1500 MXP, Set-Top 990/880/770/550, Compass MXP, Utility MXP, Tactical MXP.

MultiSite^{TF}

Wide CP Layout

As an enhancement to the Continuous Presence layouts already supported by the MXP endpoints, F8.0 now includes support for wide CP layouts, transmitted in w576p (1024x576) in both the 4-split and 5+1-split video layout to the far-end systems. If the wide CP layout is not preferred, then this can be disabled with the commands below, in which case the host will transmit all CP layouts using 4CIF.

xConfiguration Conference VideoFormatCP: 16:9 (Wide CP, Transmits w576 > 1024x576)

xConfiguration Conference VideoFormatCP: 4:3 (Normal CP, Transmits 4CIF > 704x576)

Availability:	8000 MXP Profile, 6000 MXP Profile, 6000 MXP Portable, 6000 MXP Integrator, Maestro MXP, 3000 MXP Profile, 3000 MXP Portable, 3000 MXP Integrator, 1700 MXP, 1500 MXP, Edge 95/85 MXP, Set-Top 990/880 MXP, Tactical MXP
Restrictions:	MultiSite Option required. Not available on the 1000 MXP, Edge 75 MXP, Set-Top 770/550, Compass MXP, Utility MXP.

3 Party Layout

F8.0 now supports a 3 party layout on the multisite host that utilizes the dual monitor setting of the system to display the two far-end sites on individual monitors. This feature is supported when the multisite picture mode is set to Auto Split or 4 split. When a dual stream is started during the conference, the screen will return to a standard 4-split in order to display the dual stream on the second monitor. Upon termination of the dual stream, the layout will return to the 3 party layout. This can be enabled or disabled from the user interface from the following location > Control Panel > General > Screen Settings.

Availability:	8000 MXP Profile, 6000 MXP Profile, 6000 MXP Portable, 6000 MXP Integrator, Maestro MXP, 3000 MXP Profile, 3000 MXP Portable, 3000 MXP Integrator, , Edge 95/85 MXP, Set-Top 990/880 MXP.
Restrictions:	MultiSite Option required. Dual Monitor needs to be enabled. 3 Party Mode will not function if the MultiSite Picture mode is set to 5+1 Split or Voice Switched. Not available on the 1700 MXP, 1500 MXP, 1000 MXP, Edge 75 MXP, Set-Top 770/550, Tactical MXP, Compass MXP, Utility MXP

Audio

Assisted Listening Device (ALD)

F8.0 software has been enhanced to improve the experience for any end users that require additional listening assistance.

Hearing Impaired Mode reduces the delay on audio output 3 from 100 ms to 23 ms, allowing a listening device to be installed in conjunction with this output and still maintain a high level of lip synchronization. This mode is controlled through the use of an API command:

xConfiguration Audio HearingImpaired Mode: [On/Off]

Noise reduction can also be controlled on the endpoint through the use of an API command. When turned on, noise reduction will be added to the output used for hearing impaired devices installed on output 3.

xConfiguration Audio HearingImpaired NoiseReduction: [On/Off]

An equalizer can also be enabled on the system, adding more amplification to the higher frequencies typically found in voices. On by default, this behavior is also controlled through an API command:

xConfiguration Audio HearingImpaired EQ: [On/Off]

- Availability: 8000 MXP Profile, 6000 MXP Profile, 6000 MXP Portable, 6000 MXP Integrator, Maestro MXP, 3000 MXP Profile, 3000 MXP Portable, 3000 MXP Integrator, Edge 95/85/75 MXP, Set-Top 990/880/770/550 MXP, Tactical MXP.
- Restrictions: Not available on 1700 MXP, 1500 MXP, 1000 MXP, Set-Top 550 MXP, Compass MXP, Utility MXP.

Network

H.323

Alternate Gatekeeper

F8.0 software now displays the alternate gatekeepers from the data port with the following API command.

Command: xStatus h323gatekeeper

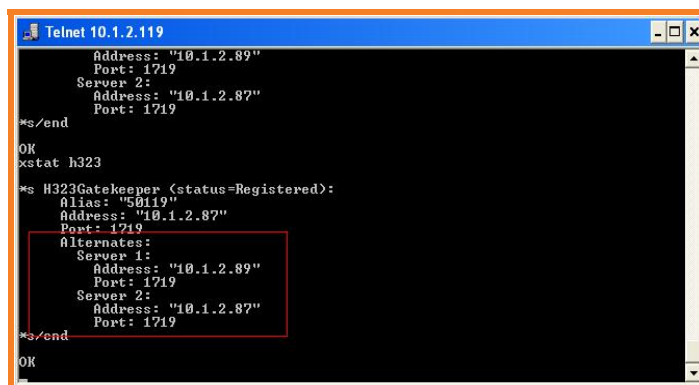


Figure 5: Alternate Gatekeeper

- Availability: 8000 MXP Profile, 6000 MXP Profile, 6000 MXP Portable, 6000 MXP Integrator, Maestro MXP, 3000 MXP Profile, 3000 MXP Portable, 3000 MXP Integrator, 1700 MXP, 1500 MXP, 1000 MXP Edge 95/85/75 MXP, Set-Top 990/880/770/550 MXP, Tactical MXP, Compass MXP, Utility MXP.

Restrictions: None.

H.323 Transfer

F8.0 software supports the ability of transferring a H.323 call from one endpoint to another. During a point-to-point call, select the connect button on the remote control and enter the number of the system you wish to transfer the far-end system to and select the Transfer icon. The call will then be transferred to this system causing your local system to be disconnected..

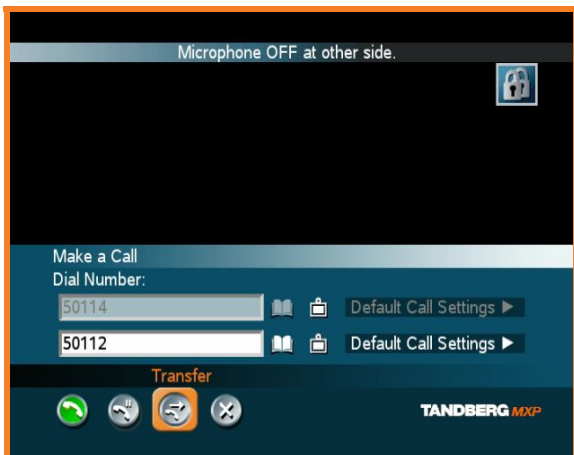


Figure 6: H.323 Transfer

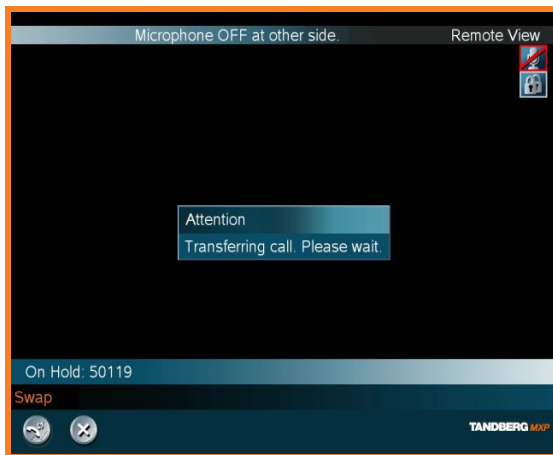


Figure 7: H.323 Call being Transferred

Availability: 8000 MXP Profile, 6000 MXP Profile, 6000 MXP Portable, 6000 MXP Integrator, Maestro MXP, 3000 MXP Profile, 3000 MXP Portable, 3000 MXP Integrator, 1700 MXP, 1500 MXP, 1000 MXP Edge 95/85/75 MXP, Set-Top 990/880/770/550 MXP, Tactical MXP, Compass MXP, Utility MXP.

Restrictions: Disable Multipoint Calls to use H.323 Transfer if MultiSite option is installed.

Multiway

F8.0 software supports the released version of the Multiway feature that will extend point to point calls to conferences on MCU's hosted on the network over H.323 and SIP. The new participant will be consulted before he is added to the conference. The setting for the Multiway feature is available from the following location in the user interface > Control Panel > General > Multipoint Call Options.

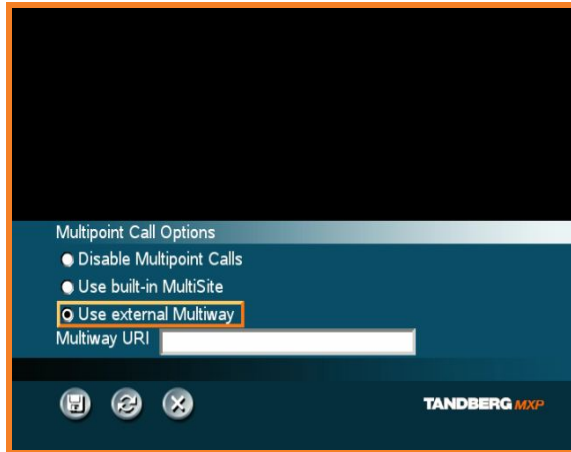


Figure 8: Multiway Settings

- Availability: 8000 MXP Profile, 6000 MXP Profile, 6000 MXP Portable, 6000 MXP Integrator, Maestro MXP, 3000 MXP Profile, 3000 MXP Portable, 3000 MXP Integrator, 1700 MXP, 1500 MXP, 1000 MXP Edge 95/85/75 MXP, Set-Top 990/880/770/550 MXP, Tactical MXP, Compass MXP, Utility MXP.
- Restrictions: Requires the uses of the TANDBERG Vide Communications Server (VCS) software Ver. X4.1 or higher
Requires the uses of the TANDBERG/Codian MCU software Ver. 3.0 or higher.

SIP

Interactive Connectivity Establishment (ICE)

F8.0 software supports SIP interactive connectivity establishment (ICE) for SIP traversal. ICE is a client protocol that governs NAT traversal for SIP endpoints through a combination use of Simple Traversal of UDP through NAT (STUN) and Traversal Using Relay NAT (TURN, also known as STUN Relay) by allowing the endpoint to determine the best possible path to the far end system.

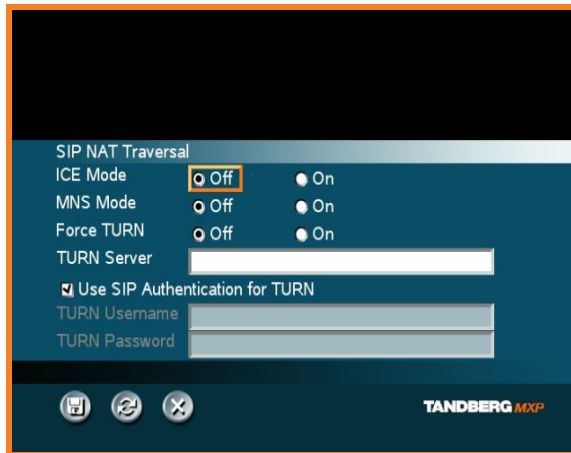


Figure 9: SIP ICE Settings

- Availability: 8000 MXP Profile, 6000 MXP Profile, 6000 MXP Portable, 6000 MXP Integrator, Maestro MXP, 3000 MXP Profile, 3000 MXP Portable, 3000 MXP Integrator, 1700 MXP, 1500 MXP, 1000 MXP Edge 95/85/75 MXP, Set-Top 990/880/770/550 MXP, Tactical MXP, Compass MXP, Utility MXP.
- Restrictions: None.

Traversal Using Relay NAT (TURN)

F8.0 software supports SIP traversal using relay NAT (TURN) for SIP traversal, allowing endpoints behind a NAT to traverse the firewall through a relay server, such as a TANDBERG VCS.

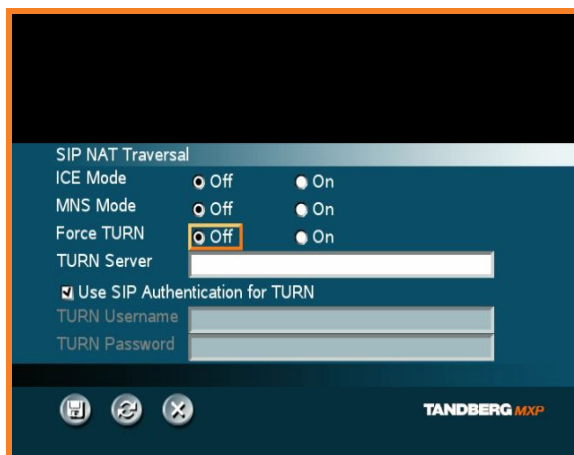


Figure 10: SIP TURN Settings

Availability: 8000 MXP Profile, 6000 MXP Profile, 6000 MXP Portable, 6000 MXP Integrator, Maestro MXP, 3000 MXP Profile, 3000 MXP Portable, 3000 MXP Integrator, 1700 MXP, 1500 MXP, 1000 MXP Edge 95/85/75 MXP, Set-Top 990/880/770/550 MXP, Tactical MXP, Compass MXP, Utility MXP.

Restrictions: None.

MNS (Media Network Services)

F8.0 software supports Media Network Services mode for SIP traversal functionality that prioritizes the use of TURN, so that all media traffic is relayed, unless sent to an endpoint on the local network.

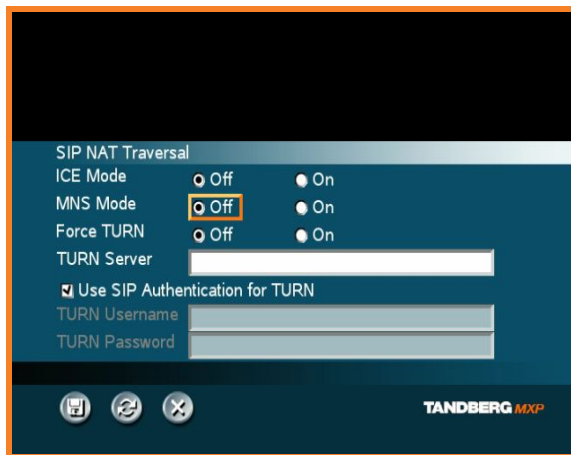


Figure 11: SIP MSN Settings

Availability: 8000 MXP Profile, 6000 MXP Profile, 6000 MXP Portable, 6000 MXP Integrator, Maestro MXP, 3000 MXP Profile, 3000 MXP Portable, 3000 MXP Integrator, 1700 MXP, 1500 MXP, 1000 MXP Edge 95/85/75 MXP, Set-Top 990/880/770/550 MXP, Tactical MXP, Compass MXP, Utility MXP.

Restrictions: None.

Microphone Mute Indication

F8.0 software supports the microphone mute indication banner that the far-end systems microphone is muted over SIP.

Availability: 8000 MXP Profile, 6000 MXP Profile, 6000 MXP Portable, 6000 MXP Integrator, Maestro MXP, 3000 MXP Profile, 3000 MXP Portable, 3000 MXP Integrator, 1700 MXP, 1500 MXP, 1000 MXP Edge 95/85/75 MXP, Set-Top 990/880/770/550 MXP, Tactical MXP, Compass MXP, Utility MXP.

Restrictions: None.

New SIP RFC's

RFC4508 Conveying Feature Tags with the Session Initiation Protocol(SIP) REFER Method

draft-ietf-mmusic-ice-19: Interactive Connectivity Establishment (ICE): A Protocol for Network Address Translator (NAT) Traversal for Offer/Answer Protocols

draft-ietf-behave-turn-13: Traversal Using Relays around NAT (TURN): Relay Extensions to Session Traversal Utilities for NAT (STUN)

RFC 5389: Session Traversal Utilities for NAT (STUN)

draft-ietf-behave-stun-test-vectors-04: Test vectors for STUN

draft-ietf-sip-ice-option-tag-02: Indicating Support for Interactive Connectivity Establishment (ICE) in the Session Initiation Protocol (SIP)

Availability: 8000 MXP Profile, 6000 MXP Profile, 6000 MXP Portable, 6000 MXP Integrator, Maestro MXP, 3000 MXP Profile, 3000 MXP Portable, 3000 MXP Integrator, 1700 MXP, 1500 MXP, 1000 MXP Edge 95/85/75 MXP, Set-Top 990/880/770/550 MXP, Tactical MXP, Compass MXP, Utility MXP.

Restrictions: None.

User Interface

Last Number dialed

F8.0 software supports the ability of calling the last number dialed by pressing the connect button twice on the remote control.

Availability: 8000 MXP Profile, 6000 MXP Profile, 6000 MXP Portable, 6000 MXP Integrator, Maestro MXP, 3000 MXP Profile, 3000 MXP Portable, 3000 MXP Integrator, 1700 MXP, 1500 MXP, 1000 MXP Edge 95/85/75 MXP, Set-Top 990/880/770/550 MXP, Tactical MXP.

Restrictions: Not available on the Compass MXP, Utility MXP.
Requires use for the remote control.

Horizontal Adjust DVI

F8.0 software supports the horizontal adjustment of the PC input form the user interface under the following location > Control Panel > Presentation > Horizontal Adjust DVI.



Figure 12: Horizontal Adjust DVI

Availability: 8000 MXP Profile, 6000 MXP Profile, 6000 MXP Portable, 6000 MXP Integrator, Maestro MXP, 3000 MXP Profile, 3000 MXP Portable, 3000 MXP Integrator, 1700 MXP, 1500 MXP, 1000 MXP Edge 95/85/75 MXP, Set-Top 990/880/770, Tactical MXP, Compass MXP, Utility MXP.

Restrictions: Not available on the Set-Top 550 MXP.

Number Key Mode

In F8.0 software a “Use as Default” check box was added to the Number Key Mode window that appears on the screen when a number key is pressed during a call. This allows the user the set this quickly to the preferred default setting.

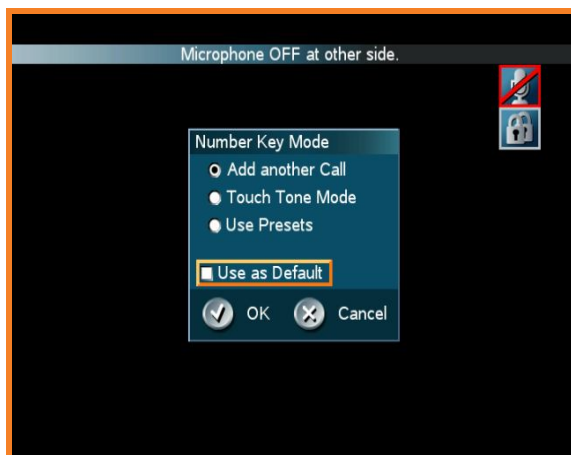


Figure 13: Number Key Mode

Availability: 8000 MXP Profile, 6000 MXP Profile, 6000 MXP Portable, 6000 MXP Integrator, Maestro MXP, 3000 MXP Profile, 3000 MXP Portable, 3000 MXP Integrator, 1700 MXP, 1500 MXP, 1000 MXP Edge 95/85/75 MXP, Set-Top 990/880/770/550 MXP, Tactical MXP, Compass MXP, Utility MXP.

Restrictions: None.

SIP Settings

The SIP settings menu has a new look with the addition of sub-menus for SIP Server Settings, Authentication, and SIP NAT Traversal.

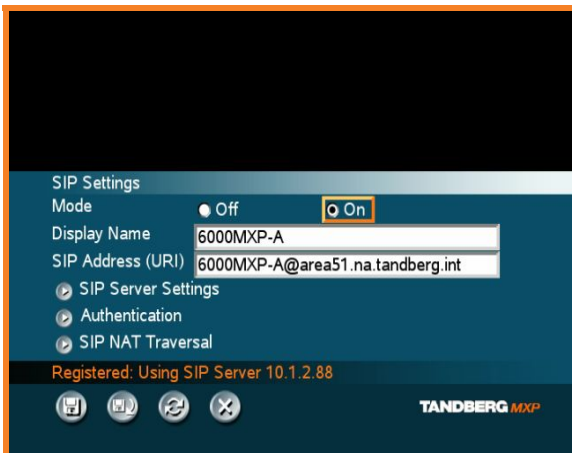


Figure 14: SIP Settings

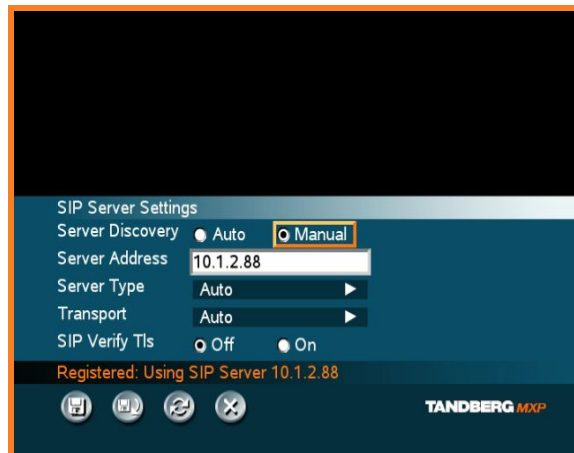


Figure 15: SIP Server Settings

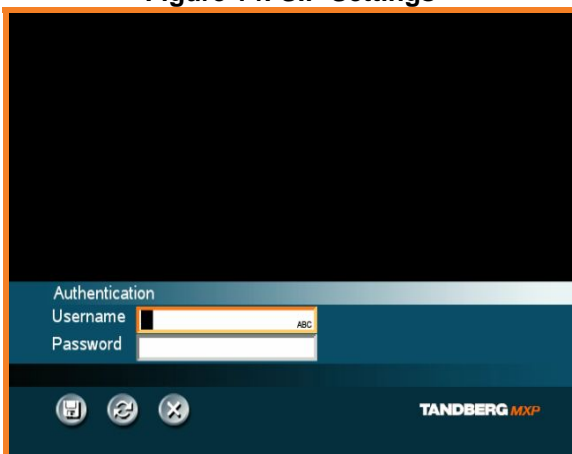


Figure 16: SIP Authentication Settings

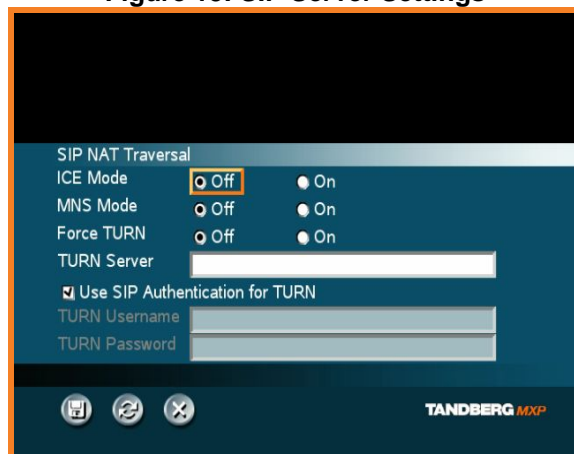


Figure 17: SIP NAT Traversal Settings

Availability: 8000 MXP Profile, 6000 MXP Profile, 6000 MXP Portable, 6000 MXP Integrator, Maestro MXP, 3000 MXP Profile, 3000 MXP Portable, 3000 MXP Integrator, 1700 MXP, 1500 MXP, 1000 MXP Edge 95/85/75 MXP, Set-Top 990/880/770/550 MXP, Tactical MXP, Compass MXP, Utility MXP.

Restrictions: None.

DTMF Keypad

In F8.0 software the DTMF keypad that is displayed on the screen will be moved to the opposite corner of the Icon Placement settings.

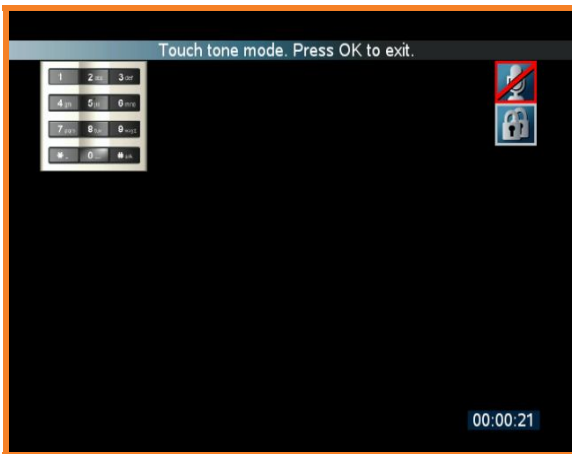


Figure 18: DTMF Keypad \ Left Side

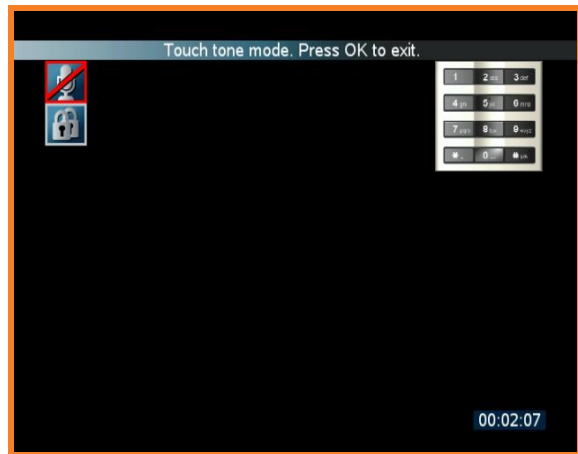


Figure 19: DTMF Keypad \ Right Side

Availability: 8000 MXP Profile, 6000 MXP Profile, 6000 MXP Portable, 6000 MXP Integrator, Maestro MXP, 3000 MXP Profile, 3000 MXP Portable, 3000 MXP Integrator, 1700 MXP, 1500 MXP, 1000 MXP Edge 95/85/75 MXP, Set-Top 990/880/770/550 MXP, Tactical MXP, Compass MXP, Utility MXP.

Restrictions: None.

Call Manager Settings

F8.0 software supports an extension number along with the IP address for the Cisco call manager. When the endpoint is configured to communicate to the Call Manager, both the extension and IP address would be registered.

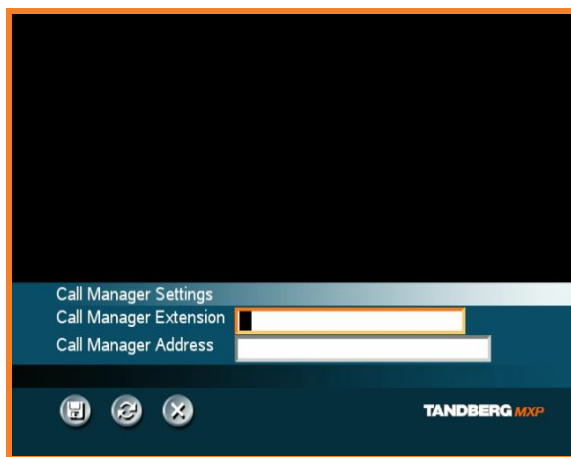


Figure 20: Call Manager Settings

Note: The Call Manager Extension and H.323 E.164 Alias utilize the same field which results in any changes to one will affect the other.

Availability: 8000 MXP Profile, 6000 MXP Profile, 6000 MXP Portable, 6000 MXP Integrator, Maestro MXP, 3000 MXP Profile, 3000 MXP Portable, 3000 MXP Integrator, 1700 MXP, 1500 MXP, 1000 MXP Edge 95/85/75 MXP, Set-Top 990/880/770/550 MXP, Tactical MXP, Compass MXP, Utility MXP.

Restrictions: The Call Manager extension and H.323 E.164 alias cannot be different numbers.

Secure File Transfer

The MXP now supports the ability to transfer files securely from a client to the MXP over the Secure Copy Protocol (SCP) to retrieve the security log from the endpoint [Ref # 60369].

- Availability: 8000 MXP Profile, 6000 MXP Profile, 6000 MXP Portable, 6000 MXP Integrator, Maestro MXP, 3000 MXP Profile, 3000 MXP Portable, 3000 MXP Integrator, 1700 MXP, 1500 MXP, 1000 MXP Edge 95/85/75 MXP, Set-Top 990/880/770/550 MXP, Tactical MXP, Compass MXP, Utility MXP.
- Restrictions: Software application pscp.exe required
Directory of where pscp.exe is located needs to be open.
SSH needs to be enabled for SCP to function.
Security log need to be enabled on endpoint.

API \ XML

For more details, please reference to the F8 Codec References Manual, document D13887 Rev.09

Usability

Reverse Camera Steering

F8.0 software now supports the ability of reverse the local camera control, allowing the camera to more naturally mimic the directional arrows of the remote. This behavior can be controlled from the data port with the following API command.

xConfiguration CameraReverseControl: <On/Off> (Default is off)

- Availability: 8000 MXP Profile, 6000 MXP Profile, 6000 MXP Portable, 6000 MXP Integrator, Maestro MXP, 3000 MXP Profile, 3000 MXP Portable, 3000 MXP Integrator, Edge 95/85/75 MXP, Set-Top 990/880/770/550 MXP.
- Restrictions: Not available on the 1700 MXP, 1500 MXP, 1000 MXP, Tactical MXP, Compass MXP, Utility MXP.
This does not affect the camera sleep pan.

Do Not Disturb

All calls that are received (and thereby rejected) when the endpoint is in Do Not Disturb mode, will now be logged under "Missed Calls" within the call log.

- Availability: 8000 MXP Profile, 6000 MXP Profile, 6000 MXP Portable, 6000 MXP Integrator, Maestro MXP, 3000 MXP Profile, 3000 MXP Portable, 3000 MXP Integrator, 1700 MXP, 1500 MXP, 1000 MXP Edge 95/85/75 MXP, Set-Top 990/880/770/550 MXP, Tactical MXP, Compass MXP, Utility MXP.
- Restrictions: None.

Russian - Phone Book Search

F8.0 software supports the ability of searching the phone book in Russian language.

Availability:	8000 MXP Profile, 6000 MXP Profile, 6000 MXP Portable, 6000 MXP Integrator, Maestro MXP, 3000 MXP Profile, 3000 MXP Portable, 3000 MXP Integrator, 1700 MXP, 1500 MXP, 1000 MXP Edge 95/85/75 MXP, Set-Top 990/880/770/550 MXP, Tactical MXP, Compass MXP, Utility MXP.
Restrictions:	None.

Changes and Improvements since Previous Version

Video

- The MXP will now properly transmit XGA (1024x768) resolutions on a dual stream when involved in an H.323-to-SIP interworking call [Ref. # 51326].
- Corrected an issue where no video was received on the MXP ISDN side during a call through the TANDBERG/Codian ISDN GW (gateway) from the H.323 side [Ref # 60547].

Audio

- The MXP will now properly transmit AAC-LD from the H.323 side of an H.323-to-SIP interworking call [Ref. # 51323].

Network

H.323

H.323 Hold (Enhanced)

F8.0 software has enhanced the H.323 Hold to now display the message banner on the bottom of the screen that will flash orange a few times to indicated that the system has been put on hold.

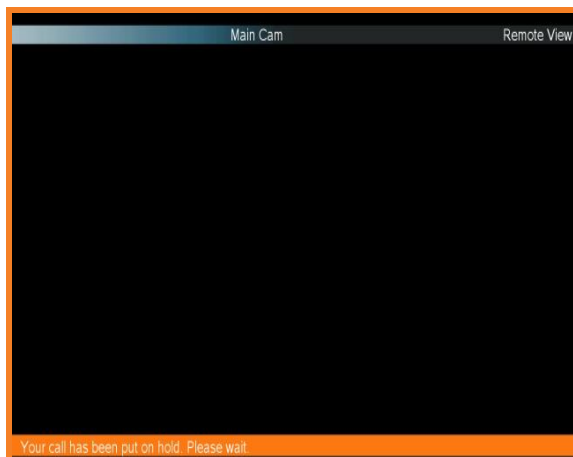


Figure 21: H.323 Hold Banner

User Interface

Picture Control (Enhanced)

In F8.0 software the camera picture control/whitebalance setting has been enhanced with Red and Blue gain settings, indoor and outdoor settings as well as the auto and manual settings.

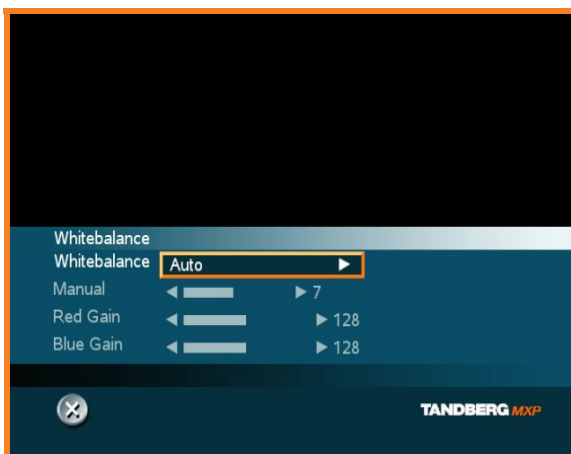


Figure 22: Whitebalance \ Auto Setting

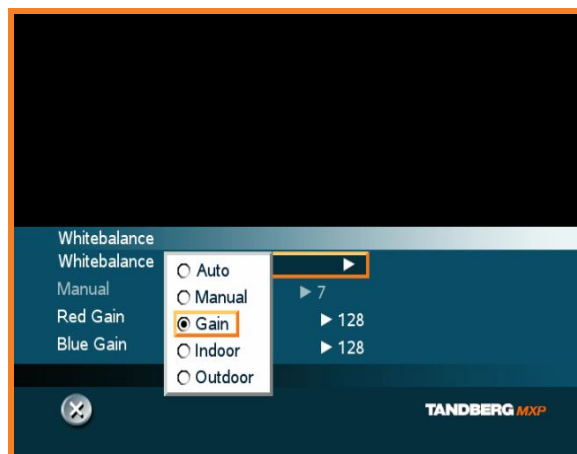


Figure 23: Whitebalance \ Other Settings

Streaming (New Location)

In F8.0 software the Streaming Setting has been placed under Services.



Figure 24: Services

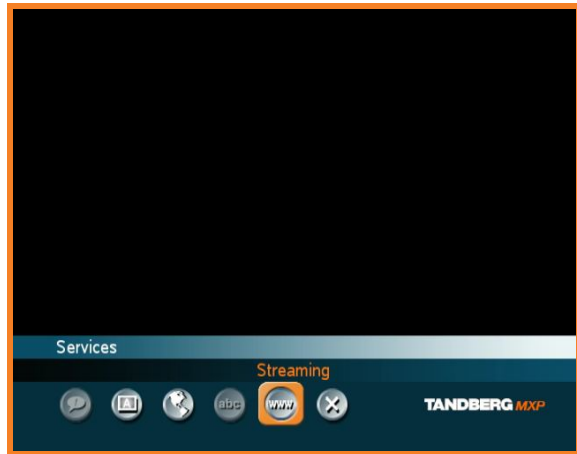


Figure 25: Streaming

Strict Password Attention

- Corrected the attention message window for strict password, which was previously incorrect and did not display the change made to strict password [Ref. # 60924].

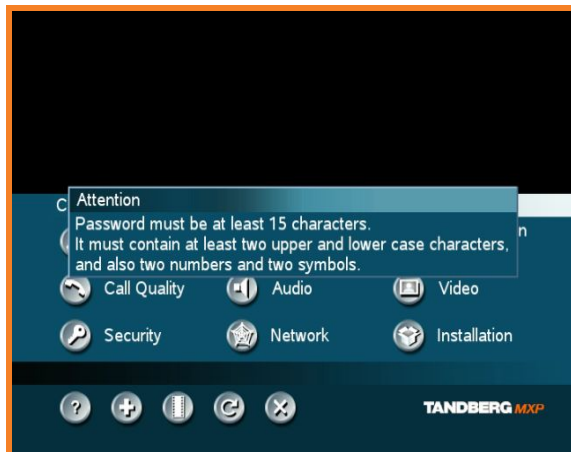


Figure 26: Strict Password Attention

Web Interface

- Added Dynamic Resolution setting to the web interface under the following > Endpoint Configuration > Call Quality > Dynamic Resolution which was missing [Ref. # 51417].
- Added Force Mac Input setting to the web interface under the following > Endpoint Configuration > Presentation > Force Mac Input which was missing [Ref. # 51418].
- Added Display Welcome Time setting to the web interface under the following > Endpoint Configuration > Menu > Startup > Display Welcome Time [Ref # 51420].

Security

HTTPS Certificate Update

The self signed certificate has been updated within F8.0 to extend the validity of the certificate from September 24 2008 to September 23 2013.

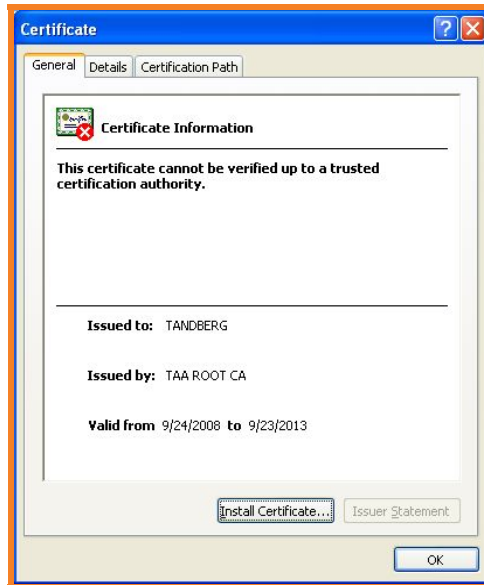


Figure 27: Https Certificate

Strict Password

When enabled, strict password now requires the following restrictions be met for all newly configured passwords on the system.

- Password cannot be the same as any of the previous 10 passwords used.
- Password must be 15 characters or more.
- Password must have at least 2 lower case letters, 2 upper case letters, 2 numeric characters and 2 special characters (e.g. #, *, &, %, etc).
- Three (3) consecutive characters cannot be the same.

Security Level

A Security level parameter has been added to the configuration of the endpoint, restricting access to the system, configured through the API command:

xConfiguration Security Level: [Level1/Level2]

When configured for level 1, the system password can only be changed once every 24 hours and three failed attempts to log into the system will lock the interface for 30 minutes. The system will also ask for password confirmation from all web sessions every 15 minutes to ensure the session is still active.

When set to level 2, the system will include all security parameters within level 1 and will also prevent normal access to the web server. Level 2 will also time out all active management sessions every 15 minutes, prompting for password input.

Security Log

When enabled, the security log feature will now log all security related events and configuration changes within the eventlog file on the endpoint, allowing an administrator to ensure all access to the system is properly logged and can be reviewed at a later point. This behaviour is controlled by an API command:

xConfiguration Security Log: [On/Off]

When enabled, the security log will maintain a record of the following events:

- failed password attempts
- successful logins
- software upgrades
- system restarts.

The following configuration changes will also be maintained:

- systemUnit name
- International Name
- Display Name
- Option Keys, Feature Keys, Bandwidth
- IP Protocol
- Telnet Challenge Port
- Auto Answer Mode
- Far End Camera Control Mode
- Strict Password
- Corporate Directory Protocol
- External Services Mode and Protocol
- External Manager Protocol
- SNMP Community Name, System Contact, System Location, Host IP Address
- H.323 Call Setup Mode
- H.323 Gatekeeper Discovery, Address, Authentication Mode
- IP Assignment, IP Address, Subnet Mask, Default Gateway, DNS Domain Name
- IPv6 Address
- DNS Server [1..5] Address

- VNC Password
- Streaming Password
- Remote Software Upgrade Password
- IEEE 802.1x Password
- On Screen Display Menu Password
- Serial Port Mode
- Security Level
- Security Log

Enabling/Disabling the following services: Telnet, SSH, HTTP, H.323, Remote Software Upgrade, SNMP, FTP, Remote Parameter, Telnet Challenge, HTTPS, SIP, HTTPSVerify

API \ XML

- Corrected the maximum bandwidth API command from “xConfiguration MaxBandwidth: <128..10240>” to “xConfiguration MaxBandwidth: <128..6144>” where 10240 maximum bandwidth was incorrect [Ref. # 51448].
- Corrected the ability of enter a static IPv6 address from the API, as MXP endpoints only support stateless auto configuration for IPv6 addressing [Ref # 57062].

Usability

- Corrected the possibility of the menu locking up when system is calling out and is disconnected before the call completely connects [Ref. # 31114].
- Improved “Missed Calls” within the phone book to now return calls at the endpoints set default call rate [Ref # 48607].
- Corrected the issue of the endpoint going into a boot cycle when FIPS and https are enabled [Ref # 50806, 60655].
- Corrected the Edge MXP endpoints from becoming unresponsive when toggling through the local layouts [Ref # 62462].

Interoperability

Polycom

- Corrected the H.239 hand-off issue over ISDN between MXP and Polycom HDX Ver. 2.5.0.1-3332 in where the MXP would not open the H.239 channel [Ref # 62051].
- Corrected the H.239 hand-off between MXP endpoints during a Polycom MGC software Ver. 9.0.1.8, Ver. 8.0.2.6 H.323 conference [Ref. # 48583].
- H.239 now works between MXP endpoints during a Polycom MCG software Ver. 9.0.1.8 Continues Presence, 384kbps or lower H.323 conference [Ref. # 48098].

Supplemental Notes

Software Filenames

All MXP endpoints use the same software files. The correct software filenames are listed in the following table.

TANDBERG MXP Systems	Software	Serial Number Range
All systems that support AES Encryption	s50000fxx.pkg	All
All systems that do not support AES Encryption	s50001fxx.pkg	All

Getting the Software

Customers should contact their TANDBERG maintenance provider for support and assistance with their TANDBERG products, including release keys and software files. Upgrading to F8.0 will require the full F8.0 pkg file and a release key specific to the TANDBERG MXP endpoint to be upgraded.

Installation

Installation of F8.0 software can be accomplished through the local LAN via HTTP or FTP or remote upgrade from another MXP endpoint over an ISDN connection.

References

TANDBERG Website <http://www.tandberg.com>
TANDBERG FTP Site <http://ftp.tandberg.com>

For all documentation, please see the TANDBERG Support Website at <http://www.tandberg.com/support/documentation.php>

Known Limitations

TANDBERG

<i>Ref. ID</i>	<i>Equipment</i>	<i>Limitations</i>
49175	TANDBERG MXP Ver. F8.0 (RSVP)	RSVP does not work as expected.
49218	TANDBERG MXP Ver. F8.0 (SIP)	Currently there is an audio noise heard during an encrypted SIP connection to the 150MXP software Ver L5.0.
49223	TANDBERG MXP Ver. F8.0 (SIP / DuoVideo)	SIP DuoVideo (Dual Streams) is not working as expected in a MultiSite ^{TF} Conference.
55212	TANDBERG MXP Ver. F8.0 (SIP / Mirial SoftPhone Ver. 6.2.2 Build 27583)	Currently when MXP receives a SIP call from a Mirial Softphone the first video medium (window) is rejected and the second video medium (window) is used, which is the "Content medium". Workaround: Calls from the MXP to the Mirial SoftPhone establish on the first video medium.
62797	TANDBERG MXP Ver. F8.0 (H.239 Video Format)	Currently it's possible to transmit 4CIF as the H.239 video format to Polycom VSX or TANDBERG classic endpoints when the PC input is a WXGA resolution.
62603	TANDBERG MXP Ver. F8.0 (Aspect Ratio / Video)	Currently the aspect ratio will automatically switch to a letter box layout when an ISDN call is disconnected from a Polycom MGC or RMX MCU. Workaround: Press the selfview button on the remote control.
51950	TANDBERG MXP Ver. F8.0 (Data Port)	The data port setting to adjusting the horizontal PC image on the endpoint "xConfiguration Video Inputs Source [1..6] HorizAdjust: <0..255>" only applies to input 5. This command will have no effect on the other input sources.
63734	TANDBERG MXP Ver. F8.0 (Data Port)	The data port setting for the Security Levels has xConfiguration Security Level: <0..3>, which is incorrect and should be <0..2> as there is no level 3 security level. .
62497	TANDBERG MXP Ver. F8.0 (System / Video)	Currently it's possible that there could be an unexpected restart when switching from main camera (S-Video) to second camera (Composite).
63892	TANDBERG MXP Ver. F8.0 User Interface / Presentation Settings	Currently the Horizontal Adjust DVI slide bar setting is present in the user interface, Presentation Setting of a 550MXP Set-Top endpoint. This is incorrect as the 550MXP does not support PC input.
43314	TANDBERG MXP Ver. F8.0 (Profiles)	Profile names with spaces will not appear in the Profile list. To resolve, please use names without spaces (e.g. 'TestProfile' or 'Test.Profile')
63540	TANDBERG MXP Ver. F8.0 (Call Status)	Currently the last digit of the H.239 WXGA resolution displayed in receive column of the call status will be cut off.
63370	TANDBERG MXP Ver. F8.0 (Hold / Transfer Banner)	Currently it's possible to have the blank Hold / Transfer banner displayed on the bottom of the screen.

51419	TANDBERG MXP Ver. F8.0 (Web Interface)	Currently the "Icon Placement" setting is missing from the web interface.
63267	TANDBERG MXP Ver. F8.0 (Web Interface)	Currently the "3 Party Layout" setting is missing from the web interface.
63475	TANDBERG MXP Ver. F8.0 (Web Interface)	Currently the alternate gatekeepers are not listed in the web interface.
63893	TANDBERG MXP Ver. F8.0 Web Interface / Presentation Settings	Currently the Horizontal Adjust DVI setting is present in the web interface, Presentation Configuration of a 550MXP Set-Top endpoint. This is incorrect as the 550MXP does not support PC input.

Polycom

<i>Ref. ID</i>	<i>Equipment</i>	<i>Limitations</i>
N/A	Polycom VSX Ver. 9.0.5 (Video)	Dialing between a PAL MXP and PAL VSX, the MXP will send H.263+ video at a call rate above 128kbps over ISDN.
N/A	Polycom VSX Ver. 9.0.5 (Chair Control)	Chair control does not currently function with the VSX internal MultiPoint over ISDN.
N/A	Polycom EX/FX/VS4000 Ver. 6.0.5 (MultiSite)	If a Polycom FX/EX/VS4000 is part of a MXP MultiSite and if the other sites are disconnected, resulting in a point-to-point connection with the FX/EX/VS4000, then this will result in frozen or no video displayed on the MXP.
N/A	Polycom HDX Ver. 2.5.0.1-3332 (HD 720p)	The Polycom HDX system will currently not transmit w720p resolution to the MXP. The MXP will transmit w720p to the Polycom HDX.
62500	Polycom HDX Ver. 2.5.0.1-3332 (H.264)	At call rates of 3Mbps, 2.5Mbps, 1.4Mbps, 1.1Mbps, 512kbps, and 128kbps the HDX will transmit H.263+ \ SIF to the MXP.
43951	Polycom MGC Ver. 9.1.0.8, 8.0.2.6 (HD Video)	Currently HD w720p is not automatically transmitted from MXP in a MGC H.323 voice switching conference at a call rate of 1472kbps or higher. To resolve this set the main camera to 'Sharpness' under 'Call Quality' > 'Video Quality' within the Control Panel.
48581	Polycom MGC Ver. 9.0.1.8, 8.0.2.6 (H.239)	If H.239 is disabled in the MXP and you connect to a H.239 conference over ISDN. The MXP will connect as secondary (audio only).
N/A	Polycom RMX2000 Ver. 3.0.0.94, 4.0.0.78 (HD Video)	In an HD enabled conference on the RMX, Polycom will not send any video at any resolution to a MXP. The MXP will be forced to connect audio only.

RADVISION

<i>Ref. ID</i>	<i>Equipment</i>	<i>Limitations</i>
49175	Scopia MCU Ver. 5.5.0.0.36 (Video)	When connecting to the Scopia MCU and sending w720p resolution, the MXP will not receive any video from the Scopia unless H.239 is enabled in the conference. Far End Camera Control fails in some conferences.
N/A	Scopia MCU Ver. 5.5.0.0.36 (HD Video)	Possibility of seeing pixilation during a HD conference.
N/A	Scopia MCU Ver. 5.5.0.0.36 (Call Rate)	During a 2Meg HD voice switching conference, the video format will drop to w448p when dual streams are launched. Once dual streams are stopped the video format will remain at w448p.
N/A	Scopia Gateway Ver. 5.5.2.0.5 (Video)	Currently there is no video during an encrypted call through the Radvision Gateway. Disable Encryption in the Gateway to receive video.
N/A	Scopia Gateway Ver. 5.5.2.0.5 (FECC)	Currently Far End Camera Control (FECC) only works from the H.323 side to the H.320 side.

Interoperability Testing

The following systems have been tested and verified compatible with this software release.

H.323 Gatekeepers/Traversal Servers

<i>Equipment</i>	<i>Software Revision</i>	<i>Comments</i>
TANDBERG Gatekeeper	N6.1	
TANDBERG Border Controller	Q6.1	Both Assent and H.460.18/.19 traversal technologies are supported
TANDBERG Video Communication Server (VCS)	X4.1	Both Assent and H.460.18/.19 traversal technologies are supported

SIP Registrars/Proxies

<i>Equipment</i>	<i>Software Revision</i>	<i>Comments</i>
TANDBERG Video Communication Server (VCS)	X4.1	
Microsoft OCS 2007	3.0.6362.0	
Microsoft OC S2007 R2	3.5.6907.0	

SIP Client Applications

<i>Equipment</i>	<i>Software Revision</i>	<i>Comments</i>
Microsoft Office Communicator 2007	2.0.6362.0	
Microsoft Office Communicator 2007 R2	3.5.6907.0	

SIP PBX

<i>Equipment</i>	<i>Software Revision</i>	<i>Comments</i>
Alcatel OXE	8.0.1	
Nortel MCS5100	4.0	

Gateway Interoperability

<i>Equipment</i>	<i>Software Revision</i>	<i>Comments</i>
TANDBERG MPS Gateway	J4.3, J4.5	
TANDBERG\Codian ISDN GW	1.4(1.9)	
TANDBERG\Codian IP GW	2.0(1.2)	
TANDBERG Gateway	G3.2	
RADVISION Scopia Gateway	5.5.2.0.5	Set "tcs4Timeout" to 10 in Settings > Advanced Command of the gateway to resolve a DTMF tone timing issue.

MCU Interoperability

<i>Equipment</i>	<i>Software Revision</i>	<i>Comments</i>
TANDBERG MPS	J4.3, J4.5	
TANDBERG MCU	D3.10	
TANDBERG\Codian 4210	2.4(1.20)	
TANDBERG\Codian 4505	2.4(1.20)	
Polycom MGC	8.0.2.6, 9.0.1.8	H.320 and H.323
Polycom RMX2000	3.0.0.94, 4.0.0.78	H.320 and H.323
RADVISION Scopia MCU	5.5.0.0.36	

Streaming Servers

<i>Equipment</i>	<i>Software Revision</i>	<i>Comments</i>
TANDBERG Content Server	S3.2	

Endpoint Interoperability

<i>Equipment</i>	<i>Software Revision</i>	<i>Comments</i>
TANDBERG MXP	F7.2	H.320, H.323
TANDBERG C90	TC1.1.1.178142	H.323
TANDBERG C60	TC1.1.1.178142	H.323
TANDBERG E20	TE1.0.0.175435	SIP
TANDBERG Personal Series	L5.1	H.323, SIP
TANDBERG Classic	E5.3/B10.3	H.320 and H.323
TANDBERG Vision	C4.0	H.320 only
LifeSize	4.0.3(5)	H.323 only
Polycom PVX	8.0.2.0235	H.323
Polycom VSX	9.0.5	H.320 and H.323
Polycom HDX	2.5.0.1-3332	H.320 and H.323
Sony PCS-1	3.42	H.320 and H.323
TANDBERG Movi	2.0	SIP

