

TANDBERG

MXP

Software Release Notes

Software Version F8

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DOCUMENT REVISION HISTORY

Revision 4	Release of F8.3, Minor Version
Revision 3	Release of F8.2, Minor Version
Revision 2	Release of F8.1, Minor Version
	Correction to F8.0 Initial Version
	- Interoperability
Revision 1	Release of F8.0, Initial Version

SOFTWARE RELEASE NOTES FOR TANDBERG MXP ENDPOINTS VERSION F8.3

Introduction

These release notes describe the new features and capabilities included in the TANDBERG MXP Endpoints software version F8.3 released 1st November 2010.

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

F8.3 software will automatically upgrade the Precision HD camera to software version S01692-3.0Final [ID:30038] 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.

Changes and Improvements since Previous Version

User interface

- Aspect Ratio menu cut off when set to Japanese language fixed. [Ref. #65922]
- Corrected issue when TMS is sending some text info to the endpoint's screen. [Ref. #70804]
- Menu buttons remain visible during call in kiosk mode corrected. [Ref. #73798]
- Corrected no incoming video dialog in audio only call. [Ref. #74644]
- Fixed issues when searching the phonebook [Ref. #81561, #81830]
- Fixed issue when searching and calling SIP entries in phonebook [Ref. #82454]

Video

- Fixed letterbox issue when transmitting iSIF to Polycom VSX. [Ref. #64986]
- Video freezing periodically from Classic, using H.264. [Ref. #71931]
- Missing 1336x768@60 in VGA output table. [Ref. #73329]
- Tactical resolution corrected.

ISDN

- Fixed scheduling issue with ISDN restrict calls. [Ref. #53997]

System

- Fixed stability issues when language set to Japanese or simplified Chinese. [Ref. #70978, #71137]
- Fixed stability issue when receiving too much data from camera. [Ref. #74284]
- Fixed stability issue in kiosk mode. [Ref. #65813, #74316]
- Fixed stability issue with invalid OIDs. [Ref. #73591]
- Fixed SNMP and RAS URQ DoS attack issues. [Ref. #77367, Ref. #73548]
- Improved behavior under DoS attack.

Known Limitations

TANDBERG

<i>Ref. ID</i>	<i>Equipment</i>	<i>Limitations</i>
66976	TANDBERG MXP Ver. F8.3 (Cisco Unified Communication Manager Ver. 5.1.2b)	Currently the Cisco Unified Communication Manager does not support the optional parameter of the custom max macro block per second, which results in QCIF video to Cisco video phones.
64418	TANDBERG MXP Ver. F8.3 (No Video Polycom VSX Ver. 9.0.5)	Currently if the Precision HD camera (720p) is set to sharpness then the Polycom VSX will not display video as the MXP will transmit w448p, which is not supported by the VSX. Workaround: Set Precision HD camera to motion.
70977	TANDBERG MXP Ver. F8.3	Image is shifted to the right when using 1350x768 as PC input resolution.
70905	TANDBERG MXP Ver. F8.3	Currently it's not possible to establish a MultiWay connection from the web interface.
70977	TANDBERG MXP Ver. F8.3	When sending presentation with a 1360x768 resolution the image may be shifted to one side on the far end.
N/A	TANDBERG MXP Ver. F8.3 (Web Login)	Currently if the system name is in Japanese or Chinese Internet Explorer 7 and 8 will not allow access. Workaround: Use Firefox as this will allow access.

POLYCOM

<i>Ref. ID</i>	<i>Equipment</i>	<i>Limitations</i>
62500	TANDBERG MXP Ver. F8.3 (Polycom HDX Ver. 2.5.0.5-3548)	Currently the Polycom HDX endpoints will transmit H.263+ \ CIF over H.323 to MXP at call rates of 3Meg, 2.5Meg, 1.1Meg, 512kbps, and 128kbps which is a result of capability level mismatch.

SOFTWARE RELEASE NOTES FOR TANDBERG MXP ENDPOINTS VERSION F8.2

Introduction

These release notes describe the new features and capabilities included in the TANDBERG MXP Endpoints software version F8.2 released 6th November 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

F8.2 software will automatically upgrade the Precision HD camera to software version S01692-3.0Final [ID:30038] 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.

Changes and Improvements since Previous Version

Video

- Fixed a codec reboot that could occur when a PAL camera was connected to an NTSC system and a NTSC camera is connected to a PAL system. [Ref # 67641, 70053, 71340].
- Corrected an issue where the aspect ratio would be wrong when toggling layouts and the aspect ratio is set to clip. [Ref # 70590].

Network

H.323

- Corrected an issue where the MXP was unable to register to a gatekeeper when set to IPv6 only mode. [Ref. # 70823].
- Corrected an interop issue with Cisco Call Manager when signaling speech at a 64 kbps rate. [Ref. # 69298].

SIP

- The MXP will now properly construct any SIP offer sent to the far end after the initials SDP transmission when “Best Effort” encryption is selected. This issue would cause previous calls to fail. [Ref. # 69849]
- An issue that may cause the MXP endpoint to become unstable and restart unexpectedly in a SIP MultiSite call has been resolved. [Ref. # 69868].

RTP

- Previous to F8.2 an incoming RTP packet containing “illegal” values would cause the MXP to reboot. The system will now discard these packets and continue to operate as normal. [Ref. # 68969]

Camera

- Correct an issue where the PrecisionHD camera (720p) would give no video on the HDMI output. [Ref. # 64868]

User Interface

- Added Dutch and Catalan language.
- Language updates for Norwegian, German, Spanish, French, Japanese, Russian and Swedish.

Known Limitations

TANDBERG

<i>Ref. ID</i>	<i>Equipment</i>	<i>Limitations</i>
66976	TANDBERG MXP Ver. F8.2 (Cisco Unified Communication Manager Ver. 5.1.2b)	Currently the Cisco Unified Communication Manager does not support the optional parameter of the custom max macro block per second, which results in QCIF video to Cisco video phones.
64418	TANDBERG MXP Ver. F8.2 (No Video Polycom VSX Ver. 9.0.5)	Currently if the Precision HD camera (720p) is set to sharpness then the Polycom VSX will not display video as the MXP will transmit w448p, which is not supported by the VSX. Workaround: Set Precision HD camera to motion.
70977	TANDBERG MXP Ver. F8.2	Image is shifted to the right when using 1350x768 as PC input resolution.
70905	TANDBERG MXP Ver. F8.2	Currently it's not possible to establish a MultiWay connection from the web interface.
70977	TANDBERG MXP Ver. F8.2	When sending presentation with a 1360x768 resolution the image may be shifted to one side on the far end.
N/A	TANDBERG MXP Ver. F8.2 (Web Login)	Currently if the system name is in Japanese or Chinese Internet Explorer 7 and 8 will not allow access. Workaround: Use Firefox as this will allow access.

POLYCOM

<i>Ref. ID</i>	<i>Equipment</i>	<i>Limitations</i>
62500	TANDBERG MXP Ver. F8.2 (Polycom HDX Ver. 2.5.0.5-3548)	Currently the Polycom HDX endpoints will transmit H.263+ \ CIF over H.323 to MXP at call rates of 3Meg, 2.5Meg, 1.1Meg, 512kbps, and 128kbps which is a result of capability level mismatch.

SOFTWARE RELEASE NOTES FOR TANDBERG MXP ENDPOINTS VERSION F8.1

Introduction

These release notes describe the new features and capabilities included in the TANDBERG MXP Endpoints software version F8.1 released on 7 September 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.

Corrections to F8.0 release notes, Initial Version

Interoperability

Polycom

- Corrected the H.239 hand-off over ISDN between MXP and Polycom HDX Ver 2.5.0.5-3548 where the H.239 channel would not re-open from the MXP [Ref. # 62051].

New Features

Dual 52" MXP System

F8.1 supports the new TANDBERG Profile 52" Dual MXP system.



SIP

The TANDBERG MXP endpoint now supports the ability to connect encrypted SIP calls to Microsoft Office Communicator (MOC) clients.

Changes and Improvements since Previous Version

Software Upgrades

- F8.1 software and higher will disconnect all current calls upon the start of a software upgrade [Ref. 50117].

Video

- Corrected the flash of the Picture in Picture (PIP) from being displayed when a call is connected [Ref # 66016].
- Corrected an error in the H.263 encoder packetization code. This could cause the encoder to split the video stream into a new packet resulting into a larger packet size and cause an unexpected restart. [Ref # 64038, 63455, 63670, 67491].
- Corrected the re-establish of H.239 after an endpoint has been put on hold while transmitting H.239 by improving the termination of the H.239 stream before the "On Hold" request is handled [Ref. # 60098, 51014].
- Corrected the aspect ratio from automatically switching to a letter box layout when an ISDN call is disconnected from a Polycom MGC and Polycom RMX MCU [Ref. # 62603].
- Corrected the possibility of an unexpected restart when between switching composite and S-Video video sources during a call [Ref. 62497].
- Corrected an H.264 encoder issue within the H.264 bitstream ID in that this could be set incorrectly resulting in the bottom half of the video to be blurry [Ref. # 62827].
- Previous to F8.1, it was possible for the MXP endpoint to transmit the PC screen for a split second after the connection or a call, prior to switching to the main camera. This issue was present only when the 'Use as Local PC Monitor' was enabled [Ref. # 60715, 51615, 61845].
- Corrected the wrong input-gate signal used for the VESA Display Power Management Signaling (DPMS) on the 550MXP DVI output which was preventing monitor from going into standby mode when the endpoint does [Ref. # 65778].
- Corrected the MultiSite video text timeout, which was not clearing the video text after a set time or after disconnect [Ref. 65452, 64846].
- Corrected the PC video input signal tolerance, that could toggle between the resolution of 1366x768 and 1280x768 which results in frozen video [Ref. 64586].
- The endpoint now sends XGA instead of 4CIF as the H.239 video format to Polycom VSX and TANDBERG classic E series endpoints when the PC input is a WXGA resolution [Ref. # 62797].
- Corrected the possibility of the wrong resolutions of 528x400 or 640x480 being transmitted from a TANDBERG E20 to MXP Set Tops endpoints. The correct transmitted resolution is 576x448 (w448p) [Ref. # 54882].
- Corrected the displaying of a stretched image on screen when a PAL configured endpoint is connected to a NTSC monitor [Ref. # 64668].
- Corrected the possibility of an unexpected restart during a call when the PC input resolution is changed from 1024x768 (XGA) to 1280x720 (720p) [Ref. # 63378].

MultiSite^{TF}

- Improved the 3 party layout during a MultiSite conference in that when the host of the MultiSite takes the floor the far-end sites will still be displayed on individual monitors. Previously the MultiSite host would display a 4split (CP4 layout) on the first monitor and selfview on the second monitor. [Ref. # 64302].
- Corrected the MultiSite host from switching the video from the 4split layout to selfview when H.239 is active and another call is established [Ref. # 64165].
- General improvements to lip-sync during a MultiSite conference [Ref. # 62405].

Network

H.320

- Corrected the H.320 data logic to process a disconnect requests even if there still is a data wait request, which could result in an unexpected restart [Ref. # 65128].
- Stability improvements to still images (snapshot) [Ref. # 63332]

H.323

- Corrected the sending of the H323 ID and E.164 alias in the setup message when the endpoint is registered to Cisco Communication Manager [Ref. # 67458, 66810].
- Corrected the sending of the H.323 transfer request right after the hold conference request to now insure that the video and audio are stopped [Ref. # 62747, 62570, 60539].
- Corrected the encoded of misinterpreting the open logical channel of H.263++ as H.263 [Ref. # 66455].
- Corrected a possible issue in no video or audio when an endpoint transfers another endpoint into a Multiway conference [Ref. # 64545].
- Corrected an issue in restarting the Master / Slave determination request when an endpoint resumes from hold which is not allowed when there is an active Open Logical Channel. This would results in a failed encryption key exchange and audio noise [Ref. # 62661, 62549].
- Corrected an issue in that the endpoint would not attempted to registered to a gatekeeper with the DNS hostname when the endpoint is set for a static IP address and after the endpoint is restarted with no network connected [Ref. # 63655].
- Corrected a possibility of the registration request to a gatekeeper getting into a lockup state when the H.323 Call setup is changed to Direct and the gatekeeper is unavailable [Ref. # 61667].

SIP

- Corrected the possibility of an unexpected restart with MXP during a 407 proxy authentication [Ref. # 61084].
- Corrected the possibility of an unexpected restart when TURN license quota on the VCS is reached [Ref. # 65089].
- Corrected an issue when a non capable ICE client called an ICE client that would no longer setup TURN permission [Ref. # 67194].
- Corrected an issue that would cause systems to disconnect when dialing system that are only capable of supporting TURN (Non ICE clients) [Ref. 67195].
- Connected an issue with MNS mode that caused a reflexive ICE candidate to not be removed [Ref. 67197].
- Corrected an issue that caused a system with ICE/MNS disabled to not setup TURN permissions when calling another system with ICE/MNS enabled. [Ref. 67198].
- Corrected an issue with BFCP during a system with ICE/MNS disabled to not setup TURN permissions when calling another system with ICE/MNS enabled. [Ref. 67198].
- Corrected the possibility of dual streams not functioning as expected during a MXP MultiSite SIP conference with E20 endpoints [Ref. # 61063, 65509].
- Corrected an internal server error that may occur on MXP when Microsoft Office Communicator Client sends a NOTIFY [Ref. # 63858].
- Corrected the use for the right subscription-state for a final 200 class responses after a transfer of an E20 endpoint [Ref. # 62750].
- Corrected an issue with NAT in certain scenarios of not accepting TURN allocation requests [Ref. # 60293].
- Corrected an issue where dual streams would not work as expected in a point to point call reliable [Ref. # 64839, 64842].
- Corrected the SIP Legacy mask feature “*xConfiguration SIP Legacy Mask: <S: 0, 80>*” to also apply to the dual stream [Ref. # 60486, 58426].
- Corrected the wrong sequence numbers used for RE-INVITE and ACK [Ref. # 63930, 63931, 64566].
- Corrected the static SDP offer of 1152kbps when the endpoint received an empty INVITE [Ref. # 64031, 58342].
- Corrected the support of BFCP over UDP that was missing in header options which is required for dual stream to work in and interworking call [Ref. # 66938].
- Corrected the header parsing keys on wrong parameter definition [Ref. # 62456]
- Corrected the sending of the SERVICE message to Microsoft Office Communicator Server when the SIP mode is enabled to prevent error when there is no SIP URI configured. SERVICE message will now be sent once the SIP settings are saved [Ref. # 63721].
- Corrected an issue with call transfers with Microsoft Office Communicator Client in that the MXP will now cache the local SIP URI for call transfers as Call Indicator instead of Call Resume [Ref. # 56278, 56252].
- Corrected an issue within our best effort encryption signaling in OFFER / ANSWER SDP's with Microsoft Office Communicator Client in that no video would be displayed on the MOC side [Ref. # 62277].
- Corrected the use of the wrong index variable in the sim-cap-set that was indicating the MXP as a MCU [Ref. 63505, 69450].

- Corrected an issue with the handling of the RTCP stream when using TURN as this was not handled as a TURN stream [Ref. # 63097].
- Corrected the possibility of presence not function as expected during normal operation and after a software update on the MXP endpoints [Ref. # 65828, 65808, 66112, 68598]
- Corrected the scale of Microsoft keep-alive time value which could result in an unauthorized call attempted when place a call to Microsoft Office Communicator Client [Ref. # 65383].
- Corrected the possibility of the MXP endpoint from getting into an infinite loop of sending a BYE request when disconnected from Microsoft Office Communicator Client [Ref. # 66110].
- Corrected the missing authentication report displayed on the MXP endpoints when using TLS and SIP Verify TLS when registered to on Microsoft Office Communicator R2 [Ref. # 62229].
- Improvements to SIP by adding to all server types sdp.extension.v1 which is needed for supporting dual steams on the Alcatel PBX's [Ref. # 64829].
- Improved the SDP to accepted port number change when SIP calls are resumed form hold [Ref. # 64039, 64934, 66599].
- Improvement to SIP with implementing support for 301 redirect of register in a Microsoft OCS environment when Microsoft is selected as the Server Type [Ref. # 56186].

Domain Name Sever (DNS)

- Improvements to DNS name configured for Gatekeepers \ Video Communication Sever (VCS) to resolve to multiple IP addresses and attempted to registered with each gatekeeper \ VCS in turn, which is done until it successfully registers or denied permission to register [Ref. # 51090, 54209].

User Interface

- Corrected the displaying of the Logo during a telephone call when the logo is disabled [Ref. # 51702].
- Corrected the message window of "0 kbps Connection Successful" to the correct call rate when adding endpoints to a MultiSite call [Ref. # 53916].
- Corrected the displaying of the entire H.239 WXGA resolution in the received column of the call status [Ref. # 63540].
- Corrected the displaying for a blank Hold / Transfer banner being displayed on the bottom of the screen [Ref. # 63370].
- Corrected having the slide bar for the Horizontal Adjustment DVI displayed in the user interface under the Presentation menu on the 550XP as this does not support a PC input [Ref. # 63892]

Web Interface

- Corrected the displaying of the MXP web interface on a 4:3 monitor with the resolution of XGA (1024x768) in that some of the configuration tabs were not assessable [Ref # 63761].
- Corrected having the Horizontal Adjust DVI setting in the web interface under Presentation Configuration for the 550MXP as the 550MXP does not support a PC input [Ref. # 63893].
- Improved the web server of the endpoints to now use the system name as the authentication realm (User Name) for Microsoft Internet Explorer 7 and 8 password window [Ref. # 57411, 65038].

Security

- Enhancements to the Menu Password to disable the displaying of the System Information and View Administrator Settings when Menu password is set and the following command is entered *xConfiguration OSD PasswordViewAdminSettings: On*. When this command is enabled the shortcut (OKMenu \ up arrow) will no longer function. To view call status and call status details navigate to the following, OKMenu > Control Panel > Diagnostics.
- Corrected the ability of loading software and entering the release key over Secure File Transfer (SCP) with the following command: *pscp software.pkg releasekey@IPAddress:/software.pkg* [Ref. 63954].

API \ XML

- Corrected the URL address listed in the ICU License information to <http://source.icu-project.org/repos/icu/icu/trunk/license.html> when "about" is entered [Ref. # 66269].
- Corrected the displaying of broadcast messages, (i.e. software upgrade status) on password protected endpoints. Broadcast message will be displayed once the password is entered [Ref. # 62173].
- Corrected the Security Level command from xConfiguration Security Level: <0..3> to xConfiguration Security Level: <0..2> as there is no security level 3 [Ref. # 63734].
- Corrected feedback and xfeedback to now update the dual video source that is selected [Ref. # 59898].
- Corrected the missing of TURN configuration in the CUIL XML document [Ref. 63843].

Usability

- Corrected the function of disabling the Picture in Picture (PIP) from being displayed on the screen with the following API command `xConfiguration AutoPIP Mode: Off` [Ref. # 64416].
- Corrected a possibility of an unexpected restart when the endpoint is unsuccessful in joining a Multiway conference due to an uninitialized variable in the Multiway startup. In addition the endpoint will now resume a point to point connection if there is an unsuccessful join of the Multiway host [Ref. # 65185, 63242]
- Corrected the control of the near-end camera on endpoints that are connected to a TANDBERG Video Switch (TVS) and in a call while transmitting H.239 [Ref. 62311].
Note: Selfview must be selected to move the local camera during an active H.239 connection.
- Corrected the uploading of the logo within a template from TANDBERG Management Suite (TMS) software version 12.2 and higher [Ref. # 65729].
- Corrected the ability of loading software to MXP endpoints from TANDBERG Management Suite (TMS) when security level 2 is enabled [Ref. # 62904].
- Corrected the stripping of the SIP prefix in the dialing string when SIP is disabled [Ref. # 65464, 62499].
- Corrected an oversight of having more than 2 concurrent calls from the Multiway host [Ref. # 64438, 64441].
- Corrected the function of Floor Control (basic floor control) during a H.323 Multiway call [Ref. 61827].
- Corrected the function of the `ipaddress/streaming.ssi` link to grant access to view the stream on an MXP endpoint when the streaming password is entered and no longer requiring the IP access password to view the stream [Ref. # 64452].
Note: The IP Access and Streaming password must be set and Allow Remote Start must be enabled in the Streaming settings which is only available from the user interface.
- Improvements to a mix Multiway (SIP and H.323) call if the added sites have SIP disabled and the call is placed over H.323, which would prevent a successful connection. The SIP prefix from the URI will now be removed when transferring into Multiway [Ref. # 63605].

Interoperability

Polycom

- Corrected the narrow/squished letter box video from being displayed on the Polycom VSX when MXP endpoint with 4:3 or standard definition camera transmits H.263++ iSIF [Ref # 64986].
- Corrected a 1 minute period of no video once the MXP endpoint is connected to a Polycom RMX2000 MCU SIP conference [Ref. # 56524].

Known Limitations

TANDBERG

<i>Ref. ID</i>	<i>Equipment</i>	<i>Limitations</i>
66976	TANDBERG MXP Ver. F8.1 (Cisco Unified Communication Manager Ver. 5.1.2b)	Currently the Cisco Unified Communication Manager does not support the optional parameter of the custom max macro block pre second which results in QCIF video to there video phone.
61866	TANDBERG MXP Ver. F8.1 (1000MXP and 550MXP Ver. F8.1 WXGA)	The 1000 MXP and the 550 MXP will not transmit WXGA in either the main or the dual stream.
64418	TANDBERG MXP Ver. F8.1 (No Video Polycom VSX Ver. 9.0.5)	Currently if the Precision HD camera (720p) is set to sharpness then the Polycom VSX will not display video as the MXP will transmit w448p, which is not supported by the VSX. Workaround: Set Precision HD camera to motion.
64868	TANDBERG MXP Ver. F8.1 (Precision HD camera HDMI Output Ver. ID ID:30037)	Currently there could be a possibility of no video from the HDMI output on the Precision HD camera (720p). Workaround: Unplug and re-plug the HDMI cable from the camera. Please be insured that development is currently looking into this issue.
N/A	TANDBERG MXP Ver. F8.1 (Web Login)	Currently if the system name is in Japanese or Chinese Internet Explorer 7 and 8 will not allow access. Workaround: Use Firefox as this will allow access.

POLYCOM

<i>Ref. ID</i>	<i>Equipment</i>	<i>Limitations</i>
62500	TANDBERG MXP Ver. F8.1 (Polycom HDX Ver. 2.5.0.5-3548)	Currently the Polycom HDX endpoints will transmit H.263+ \ CIF over H.323 to MXP at call rates of 3Meg, 2.5Meg, 1.1Meg, 512kbps, and 128kbps which is a result of capability level mismatch.

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 used 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 and 1366x768) 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, the PC can now be transmitted as 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

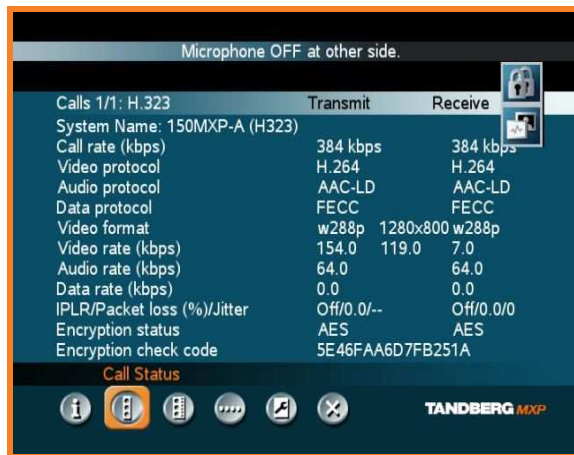


Figure 3: Call Status with 1280x800 H.239

- 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 on the 1000 MXP, 550 MXP, Compass MXP, Utility MXP.
Transmit XGA resolution form 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 form 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

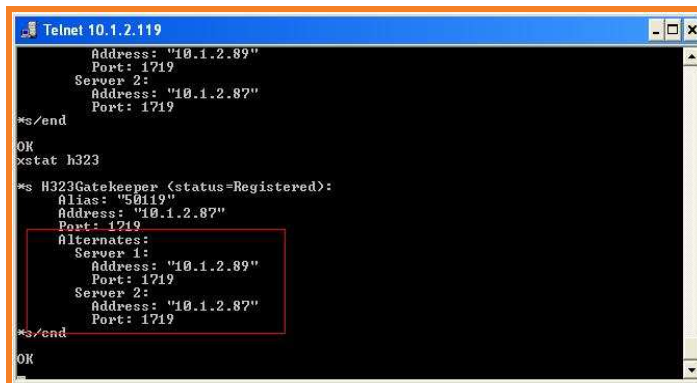


Figure 5: Alternate Gatekeeper

- 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 transfer to that system that was called and your (local) system will be disconnected.



Figure 6: H.323 Transfer

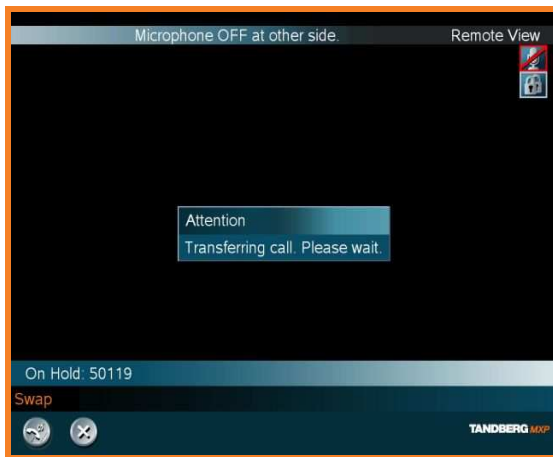


Figure 7: H.323 Call being Transferred

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.

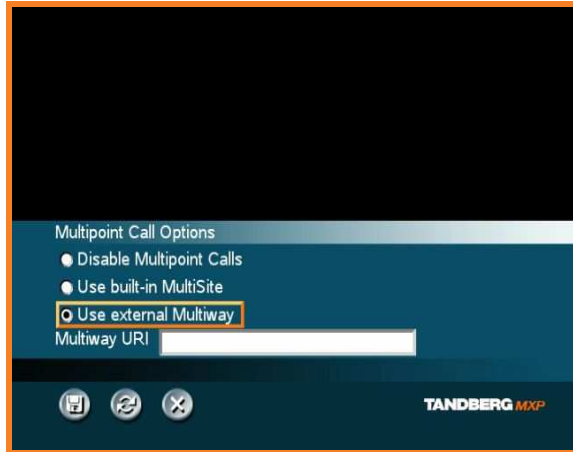


Figure 8: Multiway Settings

- 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.

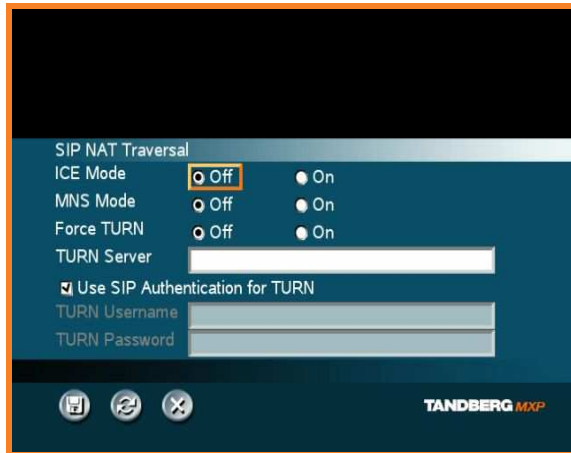


Figure 9: SIP ICE Settings

- 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.

MSN (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.

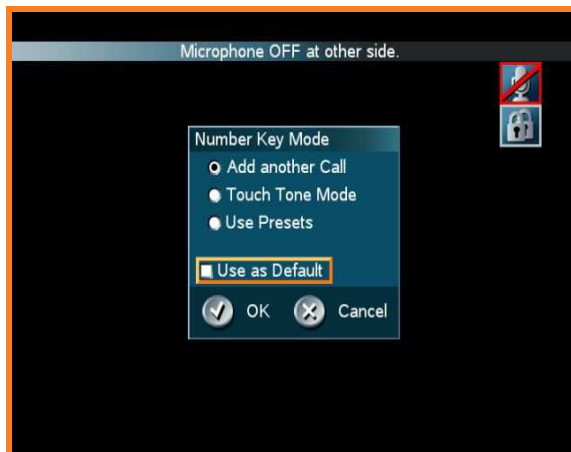


Figure 13: Number Key Mode

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

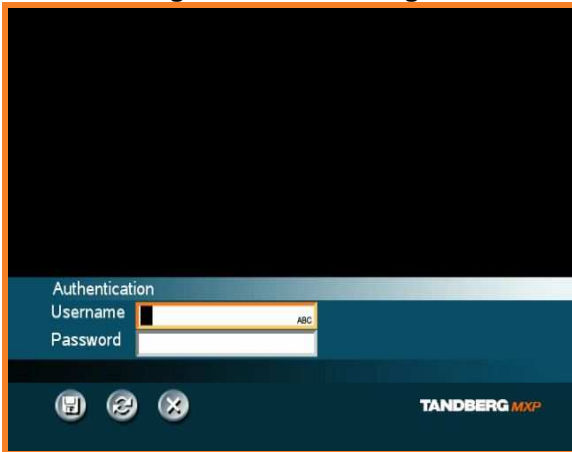


Figure 16: SIP Authentication Settings

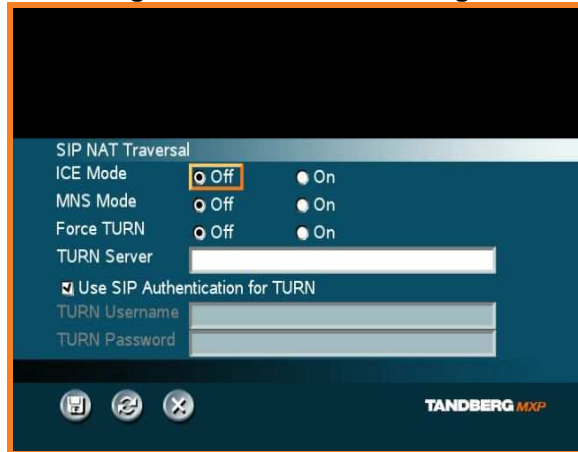


Figure 17: SIP NAT Traversal Settings

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 moved to the opposite corner of the Icon Placement settings.

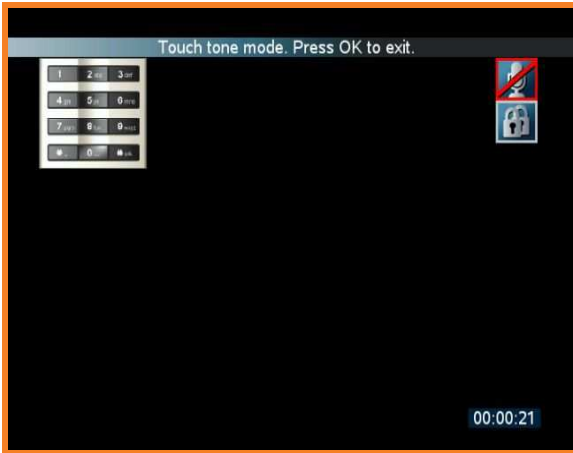


Figure 18: DTMF Keypad \ Left Side

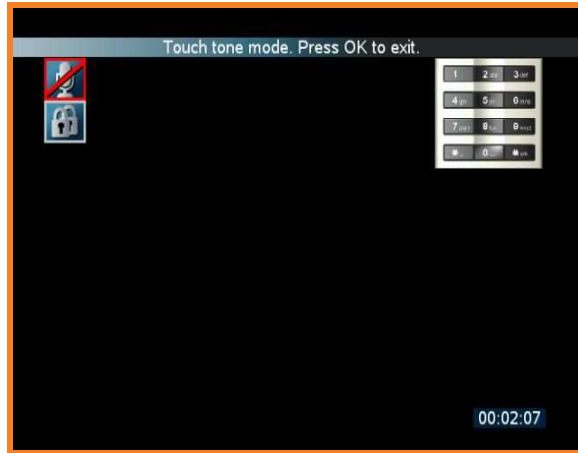


Figure 19: DTMF Keypad \ Right Side

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 manage, both the extension and IP address would be registered.

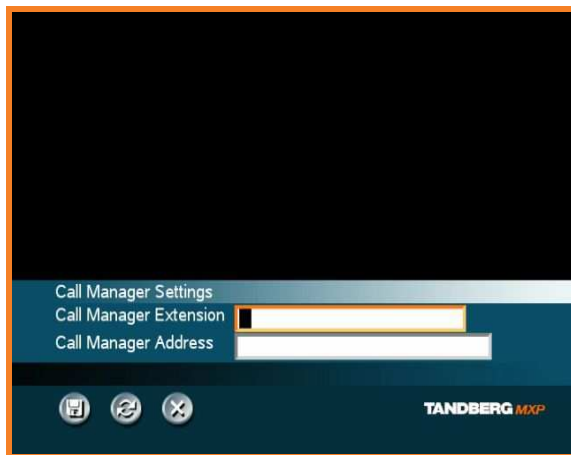


Figure 20: Call Manager Settings

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 E1.64 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 and 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.

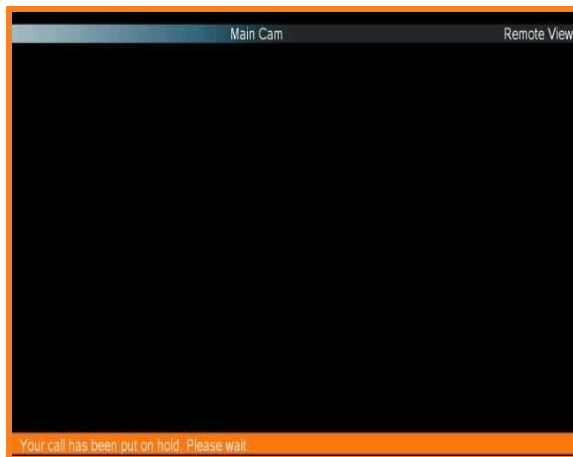


Figure 21: H.323 Hold Banner

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.

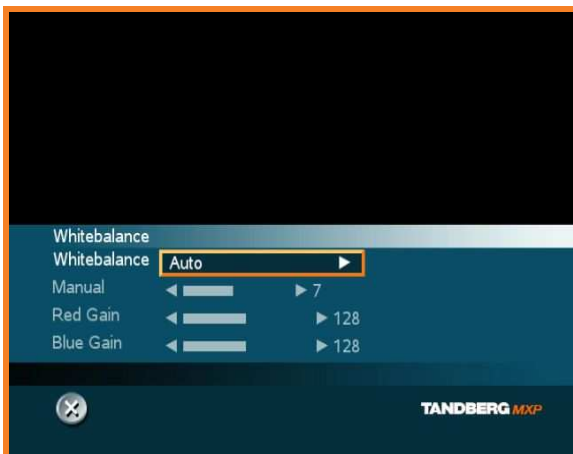


Figure 22: Whitebalance \ Auto Setting



Figure 23: Whitebalance \ Other Settings

Streaming (New Location)

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



Figure 24: Services

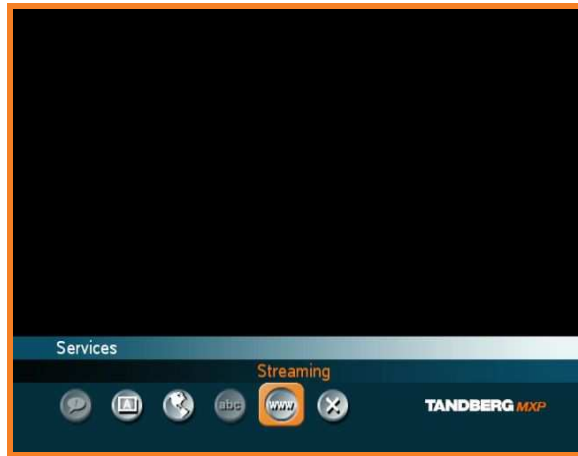


Figure 25: Streaming

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).
- No three (3) consecutive characters can 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 calls 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 is 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.236+ \ 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