

TANDBERG

TE

Software Release Notes

Software Version TE2

D14504 Revision 5

August 2010

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DOCUMENT REVISION HISTORY

Revision 5	Release of TE2.2.1 software, maintenance version.
Revision 4	Release of TE2.2.0 software, minor version.
Revision 3	Release of TE2.1.0 software, minor version.
Revision 2	Release of TE2.0.1 software, maintenance version.
Revision 1	Initial release of TE2.0.0 software

SOFTWARE RELEASE NOTES FOR TANDBERG E20 VERSION TE2.2.1

Introduction

This release note describes the new features and capabilities included in the TE2.2.0 software used by the TANDBERG E20 released on 30th of August 2010.

Note: This software applies to endpoints that run the TE series of software. The TANDBERG MXP and TANDBERG C Series endpoints do not run TE software, but rather F/L or TC software. Statements and functionality in this release note does not apply to the TANDBERG MXP systems. Please see the Software Release Document for F and L series software.

Changes and Improvements Since Previous Version

Misc

- Fixed a production related issue. No changes to functionality in this release.

Supplemental Notes

Software Filenames

The correct software filename is listed in the following table.

TANDBERG E20 System	Software	Serial Number Range
AES Encryption	s52100te2_2_1.pkg	All
No encryption	s52100tenc2_2_1.pkg	All

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

Ref. ID	Equipment	Limitations
63939	TANDBERG E20	Not possible to auto answer with microphone off.

60270	TANDBERG E20	When connecting the LAN cable to the PC port everything will work, but you will get a "No LAN" message on the display. Connect the LAN cable to the LAN port.
	TANDBERG E20	Not possible to escalate from an audio call to a video call when dialing from E20 to a Microsoft OCS client.
	TANDBERG E20	Not possible to hold/resume on the TANDBERG E20 in an E20 to MOC call.
	TANDBERG E20	Multiple SIP profiles will not work with all combinations of PBXs.
	TANDBERG E20	In most scenarios we recommend not using the PacketPacing feature due to possible lip sync problems.
	TANDBERG E20	No video on Polycom HDX JITC version when E20 sends video with resolution higher than 448p. Select lower bandwidth to avoid this issue.
73070	TANDBERG E20	When registered to a cluster of SIP proxies the E20 needs to reboot to try an alternate proxy.
77708	TANDBERG E20	When using the E20 with Cisco Unified Communications Manager 6.1.x the E20 fails sending DTMF.
	TANDBERG E20	Consultative transfer does not work with Siemens PBX.

SOFTWARE RELEASE NOTES FOR TANDBERG E20 VERSION TE2.2.0

Introduction

This release note describes the new features and capabilities included in the TE2.2.0 software used by the TANDBERG E20 released on 31st of May 2010.

Note: This software applies to endpoints that run the TE series of software. The TANDBERG MXP and TANDBERG C Series endpoints do not run TE software, but rather F/L or TC software. Statements and functionality in this release note does not apply to the TANDBERG MXP systems. Please see the Software Release Document for F and L series software.

New Features

System

- Added support for TANDBERG Callway. Callway is a subscription-based service delivering high-definition video and voice communications across the Internet, connecting you with anyone who is using a standard-based video device, landline or mobile phone. See <http://www.tandberg.com/callway> for more information.
- Added support for Cisco Message Waiting Indication. The envelope button will blink and there will be an icon displayed on the display.

Network

- Added support for configuration of the network interface MTU.

GUI

- Added support for expanding My Contacts in phonebook root folder.

API

- xConfiguration Experimental Menu MyContactsExpanded – Expand My Contacts in phonebook root folder On/Off.
- xConfiguration Network 1 MTU – Configuration of the network interface MCU
- xConfiguration SIP Profile [1-3] NonStandardDTMF – Turn non standard DTMF signalling On/Off

Changes and Improvements Since Previous Version

System

- Heartbeat mechanism in HTTP provisioning. The E20 will send HTTP requests to the external manager at a regular interval enabling new provisioning information.
- Increased performance due to simplified internal logging mechanism.
- Fixed an issue where waking up the system from standby using the soft buttons would place a call to the associated number. (#71897)
- Fixed an issue where the speed dial buttons would be lit when in standby mode. (#73589)
- Fixed an issue where the E20 would report incorrect values for the call rate (#73362)
- Fixed an issue where the call logs are not deleted after a factory reset (#75835)
- Fixed an issue where consultative transfer fails when receiving presentation (#75140)
- Fixed an issue where Multiway join fails resulting in two connected calls (#73871)
- Fixed an issue with the configuration wizard where provisioning would fail when Broadsoft is selected (#74980)
- Fixed an issue where the E20 could crash when receiving presentation in an interworked call. (#75294)

Video

- Fixed an issue where a Cisco 7985 would receive no video from the E20 (#73299)
- Removed support for WQCIF encoding due to interoperability issues (#66313)

API

- xCommand LayoutFamily removed.

Supplemental Notes

Software Filenames

The correct software filename is listed in the following table.

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AES Encryption	s52100te2_2_0.pkg	All
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Known Limitations

TANDBERG

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	TANDBERG E20	Not possible to hold/resume on the TANDBERG E20 in an E20 to MOC call.
	TANDBERG E20	Multiple SIP profiles will not work with all combinations of PBXs.
	TANDBERG E20	In most scenarios we recommend not using the PacketPacing feature due to possible lip sync problems.
	TANDBERG E20	No video on Polycom HDX JITC version when E20 sends video with resolution higher than 448p. Select lower bandwidth to avoid this issue.
73070	TANDBERG E20	When registered to a cluster of SIP proxies the E20 needs to reboot to try an alternate proxy.
77708	TANDBERG E20	When using the E20 with Cisco Unified Communications Manager 6.1.x the E20 fails sending DTMF.
	TANDBERG E20	Consultative transfer does not work with Siemens PBX.

SOFTWARE RELEASE NOTES FOR TANDBERG E20 VERSION TE2.1.0

Introduction

This release note describes the new features and capabilities included in the TE2.1.0 software used by the TANDBERG E20 released on 8th of February 2010.

Note: This software applies to endpoints that run the TE series of software. The TANDBERG MXP and TANDBERG C Series endpoints do not run TE software, but rather F/L or TC software. Statements and functionality in this release note does not apply to the TANDBERG MXP systems. Please see the Software Release Document for F and L series software.

New Features

System

- Added support for BroadSoft PBX. With this release TANDBERG E20 has expanded its integration with PBX vendors by introducing full integration support with BroadSoft SIP-based PBX. This integration allows the E20 to function similar to other IP phones when registered to the BroadSoft solution, including full support for the following features:
 - Provisioning – Easy plug and play provisioning with the BroadSoft platform.
 - Shared Call Appearance – allowing an E20 to participate as a part of a group sharing the same number/URI
 - Click-to-dial – Control call activity of the E20 from your computer.
 - Push-to-talk – Connect instantly to a defined person or group.
- Added support for multiple lines (SIP profiles) – have your E20 register with up to 3 SIP numbers/SIP URIs.
- Added support for TMS Agent large scale provisioning. With this release TANDBERG E20 is now easy to deploy in large scale deployments both within the enterprise and in external locations, including the following features:
 - Provisioning – Easy provisioning using TANDBERG Large Scale Provisioning
 - Software upgrade – Easily upgrade software on all your deployed E20s.
 - Phonebook – Manage and deploy phonebooks to all your deployed E20s.
- Added support for HTTPS provisioning with digest scheme. Alternative generic provisioning mechanism for no touch provisioning based on bootstrap server.
- Added support for Bluetooth headsets – allows you to pair and use your Bluetooth headset when in call.
- Added support for SRTP on Microsoft OCS R2 – Encrypted calls when registering E20 natively to OCS R2.
- Added support for BFCP when behind a NAT/firewall device.
- General performance improvements making the E20 more responsive.

GUI

- Added a setup assistant that will guide the user through basic configuration.
- Added USB Picture frame support. The ability to use the display of the E20 as a picture frame in screen saver mode when plugging in a USB stick with image files.
- Added programmable soft buttons for speed dialling.
- Added support for Finnish, Polish and Chinese Traditional language.

API

- xCommand Audio Led
- xCommand Bluetooth Connect/ConnectCancel/Debond/Disconnect/Inquire/Stop
- xCommand Call Seize/Unseize
- xConfiguration Menu ScreenSaver – Support for USB Picture Frame and show HTML pages.
- xConfiguration Meny CustomSoftbuttons – Support for soft buttons.
- xConfiguration Provisioning - Added support for Provisioning.
- xConfiguration SIP Profile – Added support for several SIP profiles.
- xConfiguration SystemUnit Bluetooth – Added support for Bluetooth.

Changes and Improvements Since Previous Version

SIP

- Fixed an issue where CSEQ would not be incremented for “422 Session Too Small”
- Fixed a reboot issue where the E20 would receive a NOTIFY without Event:
- Improved SIP interoperability.

Misc

- Fixed an issue with settings not cleared after a factory reset.

GUI

- Added shortcut to advanced configuration from system information.
- Fixed an issue where it was not possible to enter uppercase letters in advanced configuration.
- Fixed an issue where the “No network” dialog is not removed after network recovery.
- Improved GUI performance.

API

API commands that have changed since previous version:

- xCommand Dial – Able to select Appearance and Line
- xCommand Key Click – Able to select Duration

Supplemental Notes

Software Filenames

The correct software filename is listed in the following table.

TANDBERG E20 System	Software	Serial Number Range
AES Encryption	s52100te2_1_0.pkg	All

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>
63939	TANDBERG E20	Not possible to auto answer with microphone off.
60270	TANDBERG E20	When connecting the LAN cable to the PC port everything will work, but you will get a “No LAN” message on the display. Connect the LAN cable to the LAN port.
	TANDBERG E20	Not possible to escalate from an audio call to a video call when dialing from E20 to a Microsoft OCS client.
	TANDBERG E20	Not possible to hold/resume on the TANDBERG E20 in an E20 to MOC call.
	TANDBERG E20	Message Waiting Indicator not working with Cisco Unified Communications Manager
	TANDBERG E20	Unsolicited Message Waiting Indicator not supported.
	TANDBERG E20	Multiple SIP profiles will not work with all combinations of PBXs.
	TANDBERG E20	In most scenarios we recommend not using the PacketPacing feature due to possible lip sync problems.

	TANDBERG E20	Consultative transfer does not work with Siemens PBX.
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SOFTWARE RELEASE NOTES FOR TANDBERG E20 VERSION TE2.0.1

Introduction

This release note describes the new features and capabilities included in the TE2.0.1 software used by the TANDBERG E20 released on 20th of August 2009.

Note: This software applies to endpoints that run the TE series of software. The TANDBERG MXP endpoints do not run TE software, but rather F or L series software. Statements and functionality in this release note does not apply to the TANDBERG MXP systems. Please see the Software Release Document for F and L series software.

Changes and Improvements Since Previous Version

Video

- Fixed scrolling video in a 60Hz environment.

Web

- Fixed HTTP 404 error when upgrading the software from web.

GUI

- Fixed upper case letter support in 802.1x login.
- Fixed an issue where GUI restarted if screensaver is activated.

Misc

- Security bug: CVE-2009-0692. Stack-based buffer overflow in DHCP client, allows remote DHCP servers to execute arbitrary code via a crafted subnet-mask option.
- Fixed an issue where the system needed to be rebooted after changing VLAN id. Ref: #65258

Supplemental Notes

Software Filenames

The correct software filename is listed in the following table.

TANDBERG E20 System	Software	Serial Number Range
AES Encryption	s52100te2_0_1.pkg	All

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>
65516	TANDBERG E20	When using a headset and the headset button is selected the incoming call alert tone is routed through the headset.
63939	TANDBERG E20	Not possible to auto answer with microphone off.
	TANDBERG E20	E20 does not support SRTP. It is necessary to turn off some security settings in the OCS R2 server to use the E20.
60270	TANDBERG E20	When connecting the LAN cable to the PC port everything will work, but you will get a "No LAN" message on the display. Connect the LAN cable to the LAN port.
66717	TANDBERG E20	Audio only call from MOC not getting connected.
	TANDBERG E20	Bluetooth will be activated in a later software release.

SOFTWARE RELEASE NOTES FOR TANDBERG E20 VERSION TE2.0.0

Introduction

This release note describes the new features and capabilities included in the TE2.0.0 software used by the TANDBERG E20 released on 10th of July 2009.

Note: This software applies to endpoints that run the TE series of software. The TANDBERG MXP endpoints do not run TE software, but rather F or L series software. Statements and functionality in this release note does not apply to the TANDBERG MXP systems. Please see the Software Release Document for F and L series software.

New Features

Video

- Reduction of video burst in packet loss situations

System

- Added support for Microsoft Office Communicator Server R2
- Added support for Early Media (RFC 3960)

Network

- Added support for IEEE 802.1X Network Security Authentication.
- Added support for IEEE 802.1Q and 802.1P Tagging.
- Added support for down speeding when packet loss.

GUI

- Added support for Simplified Chinese, French, German, Italian, Japanese, Korean, Norwegian, Portuguese, Russian, Spanish, Swedish and Turkish language.
- A display box will now appear when you place your call on hold.
- Added support for deleting call history.
- Time Zone changed for Venezuela to correct value -4.30 UTC
- Calling from recent call list, will now use original call rate set for that call.
- Middle soft button will pulse when in Standby and there is a missed call.
- Added hearing impaired call indication.

API

- xConfiguration Conference 1 TelephonyPrefixExp
- xConfiguration Experimental Video PacketPacing Mode
- xConfiguration Menu EncryptionIndicator
- xConfiguration Menu Screensaver Mode

- xConfiguration Menu Screensaver ConfigureString
- xConfiguration Menu Screensaver TimeoutValue
- xConfiguration Network 1 VLAN Voice Mode
- xConfiguration Network 1 VLAN Voice VlanId
- xConfiguration Network 1 VLAN Voice Priority
- xConfiguration Network 1 VLAN Data Mode
- xConfiguration Network 1 VLAN Data VlanId
- xConfiguration Network 1 VLAN Data Priority
- xConfiguration Network 1 IEEE8021x Mode
- xConfiguration Network 1 IEEE8021x EAP
- xConfiguration Network 1 IEEE8021x TlsVerify
- xConfiguration Network 1 IEEE8021x UseClientCert
- xConfiguration Network 1 IEEE8021x ClientCertPassphrase
- xConfiguration Network 1 IEEE8021x AnonymousIdentity
- xConfiguration Network 1 IEEE8021x Identity
- xConfiguration Network 1 IEEE8021x Password
- xConfiguration Provisioning ExternalManager Domain
- xConfiguration SIP Profile 1 Outbound
- xConfiguration SIP Profile 1 Proxy [2-4]
- xConfiguration SystemUnit MenuLanguage
- xConfiguration SystemUnit HearingImpairedMode
- xConfiguration Video Wallpaper
- xCommand Call AutoRedial
- xCommand SystemUnit Configuration ResetToFactoryDefaults
- xCommand SystemUnit StartUpgrade
- xStatus SystemUnit State Subsystem Provisioning Domain

Changes And Improvements Since Previous Version

Video

- Improved colour reproduction
- Improved sharpness filter

Audio

- Improved echo cancellation when handset volume is set at high.
- Improved lip-sync

System

- Improved general system stability.

- Improved DTMF support.

Protocol

- Improved SIP interoperability.

GUI

- Improved GUI graphics and performance.
- Improved Phonebook stability.

API

API commands that have changed since previous version.

- xCommand CallLog Clear – Can now specify LogTag.
- xCommand Dial OnlyAudio is replaced with xCommand Dial CallType.
- xCommand HttpFeedback Deregister – FeedbackSlot is no longer required.
- xCommand Phonebook Contact Add – Added the arguments: CallRate, Device, Number and Protocol.
- xCommand Phonebook Search – Added the argument SearchField.
- xHistory CallLogs – History is replaced with Call

Supplemental Notes

Software Filenames

The correct software filename is listed in the following table.

TANDBERG E20 System	Software	Serial Number Range
AES Encryption	s52100te2_0_0.pkg	All

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>
65258	TANDBERG E20	On boot a DHCP request is sent before VLAN tagging is turned on, resulting getting a IP address from a untagged subnet on some networks.
65516	TANDBERG E20	When using a headset and the headset button is selected the incoming call alert tone is routed through the headset.
63939	TANDBERG E20	Not possible to auto answer with microphone off.
	TANDBERG E20	E20 does not support SRTP. It is necessary to turn off some security settings in the OCS R2 server to use the E20.
60270	TANDBERG E20	When connecting the LAN cable to the PC port everything will work, but you will get a "No LAN" message on the display. Connect the LAN cable to the LAN port.
67717	TANDBERG E20	Audio only call from MOC not getting connected.
	TANDBERG E20	Bluetooth will be activated in a later software release.

Interoperability Testing

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

SIP Registrars/Proxies

<i>Equipment</i>	<i>Software Revision</i>	<i>Comments</i>
TANDBERG Video Communication Server (VCS)	X4.2 & X5.1.1	Max w288 resolution from E20 to MXP on H323 using X4.2. This issue is fixed in X5.
Office Communications Server 2007	R1 & R2	Not possible to escalate from an audio call to a video call when dialing from E20 to a Microsoft OCS client. Hold/Resume not working on E20 in an E20 to MOC call.
Alcatel OmniPCX	OXE 8.0.1	E20 to E20 and E20 to Alcatel IP phones
Cisco	6.1, 7.0.1.	E20 to E20 calls and E20 to Cisco phones
Broadsoft	Broadworks R16	E20 to E20 calls
Siemens	HiPath8000 v3.1	E20 to E20 and E20 to Siemens Openscape
Nortel MCS5100	4.0	E20 to E20 calls and E20 to Nortel IP phones.

Gateway Interoperability

<i>Equipment</i>	<i>Software Revision</i>	<i>Comments</i>
TANDBERG MPS Gateway	J4.5	
TANDBERG Gateway	G3.2	

MCU Interoperability

<i>Equipment</i>	<i>Software Revision</i>	<i>Comments</i>
TANDBERG MPS	J4.5	
TANDBERG MCU	D3.11	
TANDBERG\Codian 4210	4.0(1.54)	
TANDBERG\Codian 4505	4.0(1.54)	

Streaming Servers

<i>Equipment</i>	<i>Software Revision</i>	<i>Comments</i>
TANDBERG Content Server	S4.1	

Endpoint Interoperability

<i>Equipment</i>	<i>Software Revision</i>	<i>Comments</i>
TANDBERG Movi	3.1.1	
TANDBERG TC	TC3.1.0	
TANDBERG MXP	F7.3.3 and F8.2	
TANDBERG Personal Series	L6.0	
TANDBERG Classic	E5.3/B10.3	Tested through TANDBERG VCS, where the VCS convert the SIP from the E20 to H.323, which the TANDBERG Classics is able to receive and vice versa.
VSX 3000 / VSX 7000	9.0.5.2	Tested with interworking H323-SIP. Issues receiving calls from VSX, VSX hangs on connect. E20 to VSX works. Encryption is not working.
HDX 8000	2.5.0.2-3395	E20 calls HDX with call rates <=446 works. HDX calls E20 with call rates >=384 works. Duo Video does not work. Transfer fails.
IPELA PCS-XG80	2.04.00	Transfer not working.
LifeSize Room	LS-RM2_4.2.0(17)	Calls working. If call is disconnected by E20, call is not disconnected on the LS side, and must be disconnected manually.
LifeSize Express	LS_EX1_3.0.2(1) LS_EX1_4.0.0(0)	We were unable to register this device to our SIP server (TANDBERG VCS); hence we were unable to dial in or out.

Current RFCs and drafts supported in TE2.0.0

- [RFC 1889](#) - RTP: A Transport Protocol for Real-Time Applications
- [RFC 2190](#) - RTP Payload Format for H.263 Video Streams
- [RFC 2327](#) - SDP: Session Description Protocol
- [RFC 2396](#) - Uniform Resource Identifiers (URI): Generic Syntax
- [RFC 2429](#) - RTP Payload Format for the 1998 Version of ITU-T Rec. H.263 Video (H.263+)
- [RFC 2617](#) - HTTP Authentication: Basic and Digest Access Authentication
- [RFC 2782](#) - A DNS RR for specifying the location of services (DNS SRV)
- [RFC 2833](#) - RTP Payload for DTMF Digits, Telephony Tones and Telephony Signals
- [RFC 2976](#) - The SIP INFO Method
- [RFC 3016](#) - RTP Payload Format for MPEG-4 Audio/Visual Streams
- [RFC 3047](#) - RTP Payload Format for ITU-T Recommendation G.722.1

- [RFC 3261](#) - SIP: Session Initiation Protocol
- [RFC 3262](#) - Reliability of Provisional Responses in the Session Initiation Protocol (SIP)
- [RFC 3263](#) - Session Initiation Protocol (SIP): Locating SIP Servers
- [RFC 3264](#) - An Offer/Answer Model with the Session Description Protocol (SDP)
- [RFC 3311](#) - The Session Initiation Protocol (SIP) UPDATE Method
- [RFC 3361](#) - Dynamic Host Configuration Protocol (DHCP-for-IPv4) Option for Session Initiation Protocol (SIP) Servers
- [RFC 3420](#) - Internet Media Type message/sipfrag
- [RFC 3515](#) - The Session Initiation Protocol (SIP) Refer Method
- [RFC 3550](#) - RTP: A Transport Protocol for Real-Time Applications
- [RFC 3581](#) - An Extension to the Session Initiation Protocol (SIP) for Symmetric Response Routing
- [RFC 3605](#) - Real Time Control Protocol (RTCP) attribute in Session Description Protocol (SDP)
- [RFC 3711](#) - The Secure Real-time Transport Protocol (SRTP)
- [RFC 3840](#) - Indicating User Agent Capabilities in the Session Initiation Protocol (SIP)
- [RFC 3890](#) - A Transport Independent Bandwidth Modifier for the Session Description Protocol (SDP)
- [RFC 3891](#) - The Session Initiation Protocol (SIP) "Replaces" Header
- [RFC 3892](#) - The Session Initiation Protocol (SIP) Referred-By Mechanism
- [RFC 3960](#) - Early Media and Ringing Tone Generation in the Session Initiation Protocol (SIP)
- [RFC 3984](#) - RTP Payload Format for H.264 Video
- [RFC 4028](#) - Session Timers in the Session Initiation Protocol (SIP)
- [RFC 4145](#) - TCP-Based Media Transport in the Session Description Protocol (SDP)
- [RFC 4566](#) - SDP: Session Description Protocol
- [RFC 4568](#) - Session Description Protocol (SDP) Security Descriptions for Media Streams
- [RFC 4574](#) - The Session Description Protocol (SDP) Label Attribute
- [RFC 4583](#) - Session Description Protocol (SDP) Format for Binary Floor Control Protocol (BFCP) Streams
- [RFC 4585](#) - Extended RTP Profile for Real-time Transport Control Protocol (RTCP)-Based Feedback (RTP/AVPF)
- [RFC 4587](#) - RTP Payload Format for H.261 Video Streams
- [RFC 4629](#) - RTP Payload Format for ITU-T Rec. H.263 Video
- [RFC 4796](#) - The Session Description Protocol (SDP) Content Attribute
- [RFC 5168](#) - XML Schema for Media Control
- [RFC 5359](#) - SIPPING19