

TANDBERG

3G Gateway

Software Release Notes

Software Version R3

D50495 revision 1.0

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DOCUMENT REVISION HISTORY

Revision 1.0 Release of R3.0, Initial Version

SOFTWARE RELEASE NOTES FOR TANDBERG 3G GATEWAY VERSION R3

Introduction

These release notes describe the features and capabilities included in the TANDBERG 3G Gateway software version R3.0 released on 27 June 2007.

New Features

Audio

Audio Calls

The TANDBERG 3G Gateway now accepts audio calls from the PSTN. When calling from the PSTN to a SIP endpoint or from the PSTN to a H.323 endpoint, the call setup will now support the "Audio Only" mode and you will be able to successfully connect an audio call.

Audio Fallback

Audio fallback is now supported when calling a 3G phone from an endpoint. A call placed to an H.323m endpoint will now fall back to audio only if video features are not supported at the time of call connect.

Video

MPEG-4 Support

The TANDBERG 3G Gateway will now support transparent MPEG-4 formatted video to be used over H.323 only.

IVR Enhancements

TANDBERG Gateway Interoperability

It is possible to use the TANDBERG gateway to connect with a TANDBERG 3G Gateway but still use the TMS phonebook and IVR service separately.

Input Reminder

The default IVR service will now remind a caller after 30 seconds that an entry is needed to proceed.

Usability

New Web Design

The TANDBERG 3G Gateway web interface had been re-designed so that administrator can more effectively navigate through the GUI. The new layout makes configuration and management of the 3G Gateway more efficient.

System Load Monitoring

From the web interface, the TANDBERG 3G Gateway will now show the actual CPU load on the system in real-time.

Higher Bandwidth Support

The TANDBERG 3G Gateway now supports higher bandwidths and CIF connections during calls.

Supplemental Notes to Manuals

Hardware Versions

The TANDBERG 3G Gateway is available in two different factory-installed hardware options: 1 x ISDN PRI Option, 4 x ISDN PRI Option. The 1 x PRI option allows for a full ISDN PRI to be installed with the system, thereby providing the network for up to 30 (E1) or 23 (T1) concurrent calls. The 4 x PRI Option allows for up to 4 full ISDN PRIs to be installed, allowing for up to 120 (E1) or 92 (T1) simultaneous connections.

Note: For the 1 x PRI option to the 4 x PRI option, please consult your TANDBERG representative.

References/Related Documents

TANDBERG Website <http://www.tandberg.com>

TANDBERG FTP Site <ftp://ftp.tandberg.com>

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

See the following documents for more information on the TANDBERG 3G Gateway

- D13841 TANDBERG 3G Gateway User Manual
- D115196 TANDBERG 3G Gateway Installation Sheet
- D13202 TANDBERG 3G Gateway API Guide

Network Support

The TANDBERG 3G Gateway will exist both on an H.323 / SIP IP network and an H.324M / ISDN network and is designed to connect together the two networks for those protocols only. The H.324M side of the 3G Gateway can connect up to 4 ISDN PRIs, while the H.323/SIP portion is intended to be connected to an 802.3 IP network. Only the first 802.3 IP port is used, the other three are for future development. The 802.3 IP interface on the TANDBERG 3G Gateway supports auto speed and duplex detection as well as manually setting 100Mbit Full/Half Duplex or 10Mbit Full/Half Duplex. If at all possible, Full Duplex should be used.

Note: The 802.3 IP interface on the 3G Gateway supports 1000Mbit Full/Half Duplex through auto negotiation of the speed and duplex.

Layer 4 Ports Used

The following IP Layer 4 ports are used by the TANDBERG 3G Gateway.

<i>Function</i>	<i>Type</i>	<i>Direction</i>
Gatekeeper RAS	1719 UDP	↔
Gatekeeper Discovery	1718 UDP	↔
SSH (Includes SCP)	22 TCP	↔
Telnet	23 TCP	↔
HTTP	80 TCP	↔
HTTPS	443 TCP	↔
SNMP (Queries)	161 UDP	↔
SNMP (Traps)	162 UDP	3G Gateway → SNMP Host
NTP	123 UDP	↔
Incoming H.323 Call	1720 TCP	↔
Incoming H.323 RTP	25000-27000 UDP	↔
Incoming H.323 RTCP	25000-27000 UDP	↔

Changes and Improvements since Previous Version

Video

H.264

The issue with a TANDBERG MXP running software F6.0 dialling via the IVR and H.264 codec is turned off has been resolved, video is now provided to the dialled endpoint.

Network

Resource Available Indicator

An issue that would prevent the proper operation of the Resource Available Indicator (RAI), used for gateway rollover, has been resolved.

Bitrate Control

The TANDBERG 3G Gateway will now transcode video between the IP and H.324m endpoint to ensure that video is sent to the 3G phone at the proper rate.

Connection to Video Portal

The connection between the TANDBERG 3G Gateway and the TANDBERG Video Portal is now H.323 based. The proprietary checkbox in the interface has been removed and is no longer available.

Security

Password Validation

When a new password is entered into the TANDBERG 3G Gateway web interface, the confirmation of the password is now validated against the initial password to confirm they both match.

Usability

Dial Plan Update

The dial plan configuration was been updated within the TANDBERG 3G Gateway.

System Name

The TANDBERG 3G Gateway now allows a maximum of 50 characters to be used in the system name field.

Background Images

Within the TANDBERG 3G Gateway, it is possible for the background pictures of the IVR menu to be changed from the default image.

Interoperability

RADVision

The issue has been resolved when connecting a call from an ISDN endpoint through the RADVISION GW-P20 and TANDBERG 3G Gateway to an H.324M endpoint, no audio or video will be received by the 3G endpoint. In addition, the ISDN endpoint will not receive any audio and the local video will be looped back.

Known Limitations

TANDBERG

<i>Equipment</i>	<i>Limitations</i>
TANDBERG 3G Gateway ver R3.0	The TANDBERG 3G Gateway has to be rebooted twice after a major reboot so that it can be accessed via the web.
TANDBERG 3G Gateway ver R3.0	A reboot is required after the sip proxy server is configured.
TANDBERG 3G Gateway ver R3.0	In the 3G Gateway, when the Net Type is set to "All" make sure that the prefix and/or suffix is a valid H.323 prefix. Setting it to "All" means that the prefix will be registered to the gatekeeper.
TANDBERG 3G Gateway ver R3.0	Calls to any service with a poster (IVR and phonebook) do not timeout.
TANDBERG 3G Gateway ver R3.0	The gateway does not currently support Resource Available Indicator (RAI), primarily used to signal when no resources are available.
TANDBERG 3G Gateway ver R3.0	The gateway currently only supports one phonebook from TMS. Adding more than one phonebook will result in no phonebook being displayed.
TANDBERG 3G Gateway ver R3.0	If, within an MPEG-4 call, the control string needs to be adjusted at any point throughout the call to the H.324M endpoint, the mobile device will lose video.
TANDBERG 3G Gateway ver R3.0	Although the TANDBERG 3G Gateway will allow an administrator to configure a call route from a SIP endpoint to an H.323 endpoint, this functionality should not be used.

Cisco

<i>Equipment</i>	<i>Limitations</i>
Cisco IPVC 3540 ver 3.2.224	When connecting to the Cisco IPVC 3540 MCU that also has a H.323 endpoint connected locally, the H.323 endpoint will not be able to view the video from the 3G endpoint.

Polycom

<i>Equipment</i>	<i>Limitations</i>
Polycom MGC 25/50/100 ver 7.0.2.6	When the 3G Endpoint calls into an active conference on the Polycom MGC, the endpoint will be placed into 'Secondary' mode within the conference, resulting in no video being transmitted or received by either end. Audio will function normally.
Polycom MGC Gateway 25/50/100 ver 7.0.2.6	When connecting a call between a 3G endpoint and an ISDN endpoint through the 3G gateway and the Polycom MGC Gateway, no audio or video will be received by the 3G endpoint. In addition, the ISDN endpoint will not receive any audio and the local video will be looped back.

Interoperability Testing

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

Gatekeepers

<i>Equipment</i>	<i>Software</i>	<i>Comments</i>
TANDBERG VCS	X1.0	
TANDBERG Gatekeeper	N5.2, N5.1, N4.1, N3.2	
TANDBERG Border Controller	Q5.2, Q5.1, Q3.1, Q2.2	
RADVision ECS	4.1.0.0	
Cisco MCM	12.3(10), 12.3(13a)	
Polycom PathNavigator	7.00.03	

Gateway Interoperability

<i>Equipment</i>	<i>Software</i>	<i>Comments</i>
TANDBERG MPS Gateway	J3.3	
TANDBERG Gateway	G3.2	
TANDBERG Entrypoint	EP1.0	
RADVision gw-P20	5.0.0.0.22	
Polycom MGC 25/50/100	8.0.0.27, 7.5.1.7	
Cisco CallManager	4.1(3)SR2	

MCU Interoperability

<i>Equipment</i>	<i>Software</i>	<i>Comments</i>
TANDBERG MPS	J4.0, J3.3, J2.4	
TANDBERG MCU	D3.9	
Polycom MGC 25/50/100	8.0.0.27, 7.5.1.7	
RADVision VialP MCU	4.2.10	
Cisco IPVC 3540	4.2.10	
Codian 4210/ 4505	2.0(1)	

Streaming Server

<i>Equipment</i>	<i>Software</i>	<i>Comments</i>
TANDBERG Content Server	S2.0	

Endpoint Interoperability

<i>Equipment</i>	<i>Software</i>	<i>Comments</i>
TANDBERG MXP	F6.0, F5.3 F4.2	
TANDBERG Personal Series	L4.2, L3.1, L3.1, L2.2, L1.2	
TANDBERG Classic Series	E5.3/B10.3, E4.2/B9.2	
LifeSize Room	2.6.5(6)	
Polycom iPower 9000/970	6.2.0.1208	
Polycom iPower 680	6.2.0.1208	
Polycom FX	6.0.5	
Polycom ViewStation	7.5.4	
Polycom MP512	7.5.4	
Polycom SP 384	7.5.4	
Polycom VSX	8.5.2	
Polycom V500	8.5.3	
Polycom PVX	8.0.2	
Sony PCS-1	3.41	
Sony PCS-TL50	2.31	
VTEL Galaxy	2.2.0.070	
Microsoft NetMeeting	3.01	
Aethra VegaStar	6.0.49	

Mobile Phone Interoperability

<i>Equipment</i>	<i>Software</i>	<i>Comments</i>
Fujitsu	F700i, F700iS, F880iES, F881iES, F900i, F900iC, F900iT, F901iC, F901iS	
LG	U8110, U8120, U8130, U8138	
Mitsubishi	D701i, D900i, D901i, D901iS	
NEC	e313, e616, N2101V, N700i, N900i, N900iS, N900iG, N901iC, N901iS, 703N(002), 802N(010), 802N(180), 802N(429)	
Nokia	6630, 6680, N70, N90, 702NK2	
Panasonic	P2102V, P700i, P900i, P900iV	
Samsung	Z100, Z107V	
Sanyo	SA700iS	
Sharp	SH700i, SH700iS, SH901iC, SH901iS, SH902i, 902SH(108), 902SH(379)	
SonyEricsson	V800, W900i, Z1010, 802SE(181), 802SE(124)	