

# **TANDBERG Gateway G3 Release Document**

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TANDBERG

D50369, Rev 1.2

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## 1. Document Revision History

- Rev 1.2 - Included Release of G3.2, Minor Release
- Rev 1.1 - Included Release of G3.1, Minor Release
- Rev 1.0 - Included Release of G3.0, Initial Version

## 2. Release Notes for the TANDBERG Gateway Software Version G3.2

### 2.1 Introduction

This release note is to describe the new features and capabilities included in the TANDBERG Gateway software version G3.2 released on 11/7/2006.

### 2.2 New Feature Overview

#### 2.2.1 Audio

G3.2 includes an improved audio processing algorithm to help suppress acoustic and line echo from connected telephone calls.

### 2.3 Changes and Improvements since previous version

#### 2.3.1 SNMP

- The Gateway will now respond to an SNMP broadcast query
- The Gateway will now send the correct PRI Link Up trap instead of Ethernet Link Up

#### 2.3.2 H.323

- Corrected memory leak in RAS which could have caused unexpected restarts
- Corrected issue where a call setup that did not contain information in the source info field could cause an ARQ error resulting in a failed call
- The Gateway will now report the correct gatekeeper IP address when changed

#### 2.3.3 ISDN

- Corrected issue where ISDN NSF codes were not sent within the Q931 call setup

#### 2.3.4 Management

- The Gateway will now report the correct resource usage when idle

#### 2.3.5 API

- Added 2 new NSF commands to enable/disable NSF codes  
xConfiguration ISDN PRI NSFTelephonyMode: On/Off  
xConfiguration ISDN PRI NSFVideoTelephonyMode: On/Off

#### 2.3.6 Web

- Added NSF Video Enable and NSF Telephony Enable selections within the PRI configuration page

#### 2.3.7 Inter-Op

- Improved TTL timer to prevent gatekeeper un-registrations with a Cisco MCM
- Corrected issue where ISDN calls to a Polycom MGC would fail to connect when H.239 and AES encryption was enabled
- Corrected issue where ISDN calls to a Polycom MGC would connect as audio only when the MGC conference is configured as an IVR Meeting Room with H.239 and Continuous Presence enabled

## **3. Release Notes for the TANDBERG Gateway Software Version G3.1**

### **3.1 Introduction**

This release note is to describe the new features and capabilities included in the TANDBERG Gateway software version G3.1 released on 3/14/2006.

### **3.2 New Feature Overview**

#### **3.2.1 SNMP**

##### **3.2.1.1 Gatekeeper Registration Trap**

The TANDBERG Gateway now includes the gatekeeper IP address within the registration success and registration failure traps.

#### **3.2.2 H.243**

##### **3.2.2.1 Unicode Support**

The TANDBERG Gateway now supports H.243 Unicode site names. This allows site names to be displayed within the terminal list or to be passed through in their original local language.

### **3.3 Changes and Improvements since previous version**

#### **3.3.1 Management**

- Resolved issue users of Windows XP FTP clients were required to enter a user name
- Resolved issue where software upgrades could fail if upgrading while calls are active

#### **3.3.2 Web**

- Resolved issue where unexpected restarts could occur when using HTTPS with NON-AES version
- Resolved issue where the Gateway would report a call rate of 6489kbps while the call was still establishing

#### **3.3.3 SNMP**

- Resolved issue where link up and link down traps were sent with the interface values of 2-5 instead of 1-4
- Added new parameter with Gatekeeper traps to now include the Gatekeeper IP Address

#### **3.3.4 Network**

- Resolved issue where a failed call would always indicate cause code 16 (normal clearing)
- Resolved issue where telephone calls to certain networks could take up to 30 seconds to fully connect and pass audio
- Resolved issue where certain T1 errors could cause unexpected restarts
- Resolved issue where 2xH221 calls may connect at 64k on the H.323 side of the call

### 3.3.5 Inter-Op

- Resolved issue where floor requests were not sent to the MCU
- Resolved issue where a Sony PCS-1 was unable to send H.239 over H.323
- Resolved issue where H.239 would stop when sending to a Sony PCS-1 over H.323
- Resolved issue where H.239 failed with a Sony PCS-1 over H.320
- Resolved issue where FECC did not work when connected to a Polycom MGC
- Resolved issue where the QVGA video format was not recognized and therefore was displayed as “Off”
- Resolved issue where H.261 video from a Mitsubishi FM2200 was not decoded properly resulting in no receive video

## 4. Release Notes for the TANDBERG Gateway Software Version G3.0

### 4.1 Introduction

This release note is to describe the new features and capabilities included in the TANDBERG Gateway software version G3.0 released on 7/18/2005.

### 4.2 New Feature Overview

#### 4.2.1 Firewall Traversal

##### 4.2.1.1 Expressway Support

The TANDBERG Gateway now supports the Expressway firewall traversal technology. This feature will allow the TANDBERG Gateway to register directly to the TANDBERG Border Controller, thereby increasing the flexibility of the Gateway within the network infrastructure.

#### 4.2.2 Security

##### 4.2.2.1 H.235 v3

The TANDBERG Gateway now supports both H.235v2 and H.235v3 encryption. This allows for maximum flexibility when communicating with older version 2 and newer version 3 compliant H.235 systems.

##### 4.2.2.2 H.235 Authentication

The TANDBERG Gateway now supports H.235 Annex D gatekeeper authentication. New configuration options required for authentication include NTP IP, Authentication ID, and Authentication Password.

##### 4.2.2.3 Independent Encryption

The TANDBERG Gateway now supports the ability to have encryption active on only 1 side of a call. This is useful when using external IP or ISDN encrypters where the TANDBERG encryption is not necessary. In this mode, encryption can be set to Auto, On, or Off for IP and ISDN.

##### 4.2.2.4 Transparent Encryption

This mode of encryption is identical to previous versions of TANDBERG Gateway software. The Gateway will pass encryption capabilities through to both endpoints and will negotiate the same encryption mode based on endpoint capabilities.

##### 4.2.2.5 Telephone Call Blocking

It is now possible to disable incoming ISDN telephone calls. When disabled the Gateway will reject all incoming ISDN telephone calls but will allow outbound telephone calls.

#### 4.2.3 Video

##### 4.2.3.1 H.239

The TANDBERG Gateway now supports H.239 as well as TANDBERG Duo Video for dual video streams. Please note that the Gateway no longer supports Polycom proprietary People+Content with G3 software.

## 4.2.4 Usability Features

### 4.2.4.1 TCS4 on IP

The TANDBERG Gateway now supports TCS4 codes from IP endpoints. This will allow an endpoint to dial seamlessly through 2 gateways. For example, an endpoint will now be able to dial the Gateway prefix along with the ISDN number of the remote gateway followed by an asterisk and then the remote endpoints E164 alias.

Example: IP endpoint dials 917035551212\*55555 where 9 is the gateway prefix, 17035551212 is the ISDN number of the remote gateway and 55555 is the remote IP endpoint's E164 alias.

### 4.2.4.2 H.221 IP Calls

It is now possible for an IP endpoint to initiate an H.221 (2X64k) call through the TANDBERG Gateway. An endpoint would simply dial the gateway prefix followed by the first ISDN number followed by 2 consecutive asterisks and then the second ISDN number.

Example: IP endpoint dials 917035551212\*\*17035551313 where 9 is the gateway prefix, 17035551212 is the first ISDN number and 17035551313 is the second ISDN number.

### 4.2.4.3 Incoming H.221 ISDN Calls

It is now possible to configure the TANDBERG Gateway with an exclusive H.221 number for incoming calls. This has been added to allow better interoperability with 3<sup>rd</sup> party video systems.

## 4.2.5 API

### 4.2.5.1 XML API

The TANDBERG Gateway now has an XML API interface for complete system control and management.

## 4.3 Supplemental Notes to Manuals

### 4.3.1 References/Related Documents

TANDBERG Website – <http://www.tandberg.net>

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

See the following documents for more information on the TANDBERG Gateway:

- D1318703 TANDBERG Gateway User's Manual
- D1318001 TANDBERG Gateway Installation Sheet
- D1320203 TANDBERG Gateway API

## 4.4 Changes and Improvements since previous version

- Improved DTMF detection to eliminate low level tones not being detected

## 4.5 Interoperability

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

### 4.5.1 MCU Interoperability

Equipment	Software Revision
Accord MGC 100	6.10, 7.0.0
TANDBERG MCU	D3.5, D3.6
TANDBERG MPS	J2.1, J2.2
RADVision MCU-30	4.0.41
Codian 4210	1.2

### 4.5.2 Gateway Interoperability

Equipment	Software Revision
TANDBERG Gateway	G2.1
RADVision GW-P20	3.0.0.12

### 4.5.3 Gatekeeper Interoperability

Equipment	Software Revision
CISCO MCM	12.3(10)
TANDBERG Gatekeeper	N2.1, N3.1
TANDBERG Border Controller	Q1.1, Q2.1
RADVision ECS 100/400	3.6.0.5

### 4.5.4 Firewall Interoperability

Equipment	Software Revision
CISCO PIX	6.3 (4)

### 4.5.5 Endpoint Interoperability

Equipment	Software Revision
TANDBERG 500-6000/8000	B1.1, B2.3, B3.4, B4.3, B5.1, B5.11, B6.1, B7.0, B8.4, B9.1, E1.1, E2.0, E3.4, E4.2
TANDBERG MXP	F2.6, F3.0
Polycom iPower 9000	6.2.0.1208
Polycom iPower 970	6.0.0.1208
Polycom ViewStation FX	6.0.3
Polycom VS	6.0.3
Polycom MP 512	7.5.4
Polycom SP 384	7.5.4
Polycom PVX	6.0.2.1359
Polycom VSX7000	7.5.2
Polycom ViewStation EX	6.0.3
Sony PCS-1	3.03
Aethra Vegastar Silver	5.2.20

### 4.6 Known Limitations

- Far End Camera Control does not currently work when connecting through the Gateway with a Polycom MGC MCU.
- H.239 will fail to send through the Gateway when connected to a Polycom MGC MCU on H.323
- When connecting to a Polycom MGC MCU on ISDN with H.239 enabled in the conference, the site will connect as secondary (audio only) on the MGC
- The Codian MCU does not send video to the Gateway when using H.264
- AES encryption with the Polycom IPower will only work when set to Independent on the Gateway
- AES encryption with the Polycom MGC MCU will only work when set to Independent on the Gateway
- H.264 does not currently work to the Polycom MGC MCU causing sites to connect as secondary (audio only)