

# **TANDBERG Gatekeeper N2 Software Release Document**

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TANDBERG

D50338, Rev 1.1

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## 1. Document Revision History

Rev 1.1	- Release of N2.1, Minor Release
Rev 1.0	- Release of N2.0, Initial Version

## 2. Release Notes for TANDBERG Gatekeeper Software Version N2.1

### 2.1 Introduction

These release notes describe the features and capabilities included in the TANDBERG Gatekeeper Software minor release version N2.1 released on 11 April 2005.

### 2.2 New Features Overview

#### 2.2.1 Call Features

- The Call Time to Live field within the web interface of the Gatekeeper checks all calls at the specified interval (in seconds) to ensure they are still active calls. If the call is no longer active, the Gatekeeper will free up any resources not needed.
- Gatekeeper will now send a RIP (Request In Process) whenever it receives an LRQ.

#### 2.2.2 Border Controller Registration

- If the Gatekeeper loses communication with the Border Controller, it will attempt to re-register once communication is restored to the Border Controller.

### 2.3 Changes and Improvements Since Previous Version

#### 2.3.1 RAS Signaling

- The Gatekeeper now responds with a GRJ if AutoDiscovery is turned off.
- Improved bandwidth restriction field such that calls that come in above maximum bandwidth connect at the maximum bandwidth specified, instead of being rejected.

#### 2.3.2 Interoperability Improvements

- RADVision Gateway can be registered with TANDBERG Gatekeeper and have full call functionality.
- Resolved issue between Microsoft NetMeeting and Polycom ViaVideo.

#### 2.3.3 Web Interface Improvements

- The web interface will now show all Gateway prefixes within the details for the Gateway registration.

### 2.4 Known Limitations

- The Allow and Deny Lists are currently limited to 250 entries.
- It is not possible to change the Ethernet speed from the web interface. In order to change this field, either telnet, SSH or connect to the dataport on the box and enter the command 'xConfiguration Ethernet Speed: <Auto/10half/10full/100half/100full/>'.  
'xConfiguration Ethernet Speed: <Auto/10half/10full/100half/100full/>'
- Adding a system to the Deny List does not force that system to un-register from the Gatekeeper. It must be manually removed from the registration list.
- It is not possible to call between Microsoft NetMeeting and Polycom PVX over the traversal link.

## 3. Release Notes for TANDBERG Gatekeeper Software Version N2.0

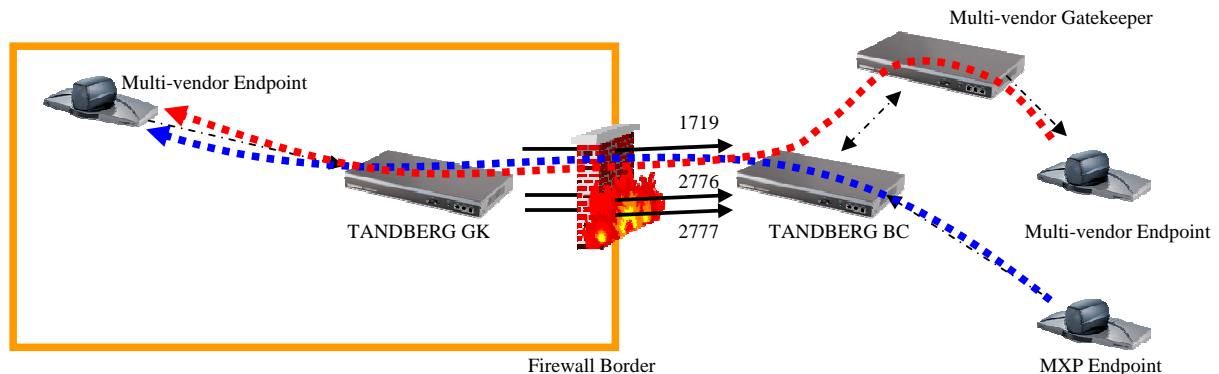
### 3.1 Introduction

These release notes describe the features and capabilities included in the TANDBERG Gatekeeper software version N2.0 released on 7 February 2005.

### 3.2 New Feature Overview

#### 3.2.1 Firewall Traversal

In conjunction with the TANDBERG Border Controller, the TANDBERG Gatekeeper will allow a system to traverse a firewall for H.323 traffic without having to implement port forwarding, complex NAT rules or place systems on the public Internet. Utilizing this solution, an endpoint on a private network can call an endpoint on the public network by calling the IP address, E.164 alias or the H.323 ID of the far end system.



#### 3.2.2 Improved Addressing

The TANDBERG Gatekeeper allows you to place and receive calls utilizing DNS for the far end system. When an endpoint places a call to the far end system by DNS, one would dial either the H.323 ID or the E.164 alias of the far end system and append the DNS suffix of the far end organization. This feature is multi-vendor and will work with any endpoint that registers to the TANDBERG Gatekeeper.

*Example:* dialing john.doe@company.com would ask the gatekeeper or border controller with the DNS name of company.com to connect to the endpoint with the H.323 ID of john.doe.

*Example:* dialing 54321@company.com would ask the gatekeeper or border controller with the DNS name of company.com to connect to the endpoint with the E.164 alias of 54321.

#### 3.2.3 Neighboring Enhancements

##### 3.2.3.1 Flat Neighboring

With N2.0 software, the TANDBERG Gatekeeper will now support neighboring other gatekeepers and zones without requiring a remote zone prefix. This allows for the creation of mesh networks within the H.323 infrastructure.

### 3.2.3.2 Multiple Remote Neighbors and Zones

The TANDBERG Gatekeeper will allow the addition of multiple remote zones, both with and without remote zone prefixes. If the Gatekeeper receives a call that does not match any of the remote prefixes, the call will be forwarded to all remote zones that do not have a remote prefix.

### 3.2.3.3 Control of Forwarding LRQs

N2.0 software will allow you to allow or deny the forwarding of LRQs to the remote neighbors in order to control network flow and remove LRQ loops from the network.

### 3.2.4 Registration Control

The TANDBERG Border Controller will operate in one of three different modes in order to allow control of the systems that can register into the Gatekeeper, thereby allowing more control over the network in general.

- **Promiscuous Mode:** (Restriction Policy Off) anyone can register into the gatekeeper, regardless of the E.164 alias or H.323 ID
- **Allow List Mode:** the far end must register with an E.164 alias or H.323 ID that is on the list, otherwise the registration will be rejected.
- **Deny List Mode:** the far end will only be rejected if it tries to register into the Gatekeeper with one of the E.164 aliases or H.323 IDs that are on the Reject List.

### 3.2.5 Remote Management

The TANDBERG Gatekeeper now has an embedded web interface for control. This interface offers a user friendly, graphically-driven method to configure and control the TANDBERG Gatekeeper on all features and functionality.

## 3.3 Supplemental Notes to Manuals

### 3.3.1 Software Versions

There are 3 different versions of the TANDBERG Gatekeeper Software available. Each one of these versions may be enhanced with the Traversal option in order to allow the Gatekeeper to communicate with the TANDBERG Border Controller using the Expressway Technology.

- 25/100** - Allows for 25 concurrent calls and 100 registrations
- 75/300** - Allows for 75 concurrent calls and 300 registrations
- 200/1000** - Allows for 200 concurrent calls and 1000 registrations

**Expressway Options:** The Expressway solution is currently available in four different options within the TANDBERG Gatekeeper. The options are available in 0 concurrent traversal calls, 5 concurrent traversal calls, 10 concurrent traversal calls and 20 concurrent traversal calls. The number of concurrent traversal calls is not in addition to the number of total concurrent calls.

### 3.3.2 References/Related Documents

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

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

D11381 TANDBERG Gatekeeper User Manual  
 D11380 TANDBERG Gatekeeper Installation Sheet

### 3.3.3 Network Support

The TANDBERG Gatekeeper is an H.323 device and is intended to be connected solely to an Ethernet network. Only the first ethernet port is used, the other two are for future development. The ethernet interface on the TANDBERG Gatekeeper supports auto speed and duplex detection as well as manually setting 100Mbit Full/Half Duplex or 10Mbit Full/Half Duplex.

### 3.3.4 Layer 4 Ports Used

Function	Port	Type	Direction
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	⇒ (outgoing from Gatekeeper)
Incoming H.323 Call	1720	TCP	↔

### 3.4 Changes and Improvements since previous version

- Improved call handling with Polycom iPower
- Improved registration with RADVision OnLan MCU
- Improved speed of removing systems from registration table after the TTL expires.

### 3.5 Interoperability Testing

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

#### 3.5.1 Gatekeepers

Equipment	Software Revision
RADVision ECS	3.5.2.5
Cisco MCM	12.3(10a)
VCON MXM	4.12.M09.D01.Y04

#### 3.5.2 Gateway Interoperability

Equipment	Software Revision
TANDBERG Gateway	G2.1
RADVision gw-P20	3.0.0.12*†
RADVision L2W GW	2.2.3.2.5*
Polycom MGC 25/50/100	6.03.2*

#### 3.5.3

### 3.5.4 MCU Interoperability

Equipment	Software Revision
TANDBERG MCU	D3.4, D3.5
TANDBERG MPS	J1.1, J2.0
Polycom MGC 25/50/100	6.02.4, 7.0.0.57*
RADVision ViaIP MCU	3.5.24*•‡
RADVision OnLan MCU	2.2.1.0*
Cisco IPVC 3540	3.2.224*•‡

### 3.5.5 Endpoint Interoperability

Equipment	Software Revision
TANDBERG MXP	F1.4, F1.5, F2.0
TANDBERG 150	L1.1, L1.2
TANDBERG Classic Series	B1.2, B2.4, B3.4, B4.3, B5.1/B5.11, B6.2/E1.2, B7.4/E2.4, B8.4/E3.4, B9.1/E4.1
Polycom iPower 9000/970	6.1.0.511
Polycom iPower 680	5.3.0.1202
Polycom FX	6.03
Polycom ViewStation	7.5.2
Polycom VSX	7.01, 7.5
Polycom MP512	7.5.2
Polycom SP 384	7.5.2
Polycom ViaVideo	5.1.1.1009
Polycom PVX	6.01.1315
Sony 1600	3.33
Sony 6000	5.02
Sony PCS-1	2.44
VTEL Galaxy	2.2.0.070
Microsoft NetMeeting	3.01
VCON Vpoint	5.10.0160
Aethra VegaStar	5.1.35

### 2.5.5 Firewall Interoperability

Equipment	Software Revision
Cisco PIX	6.2(4), 6.3(1), 6.3(3), 6.3(4)
Sonicwall SOHO 3	6.6.0.2
Linksys BEFW11S4	1.44.2
Linksys WRT54G	1.30.7, 1.42.3, 3.01.3
Linksys BEFSR81	2.45.10
Linksys BEFSR41	1.05.00

\* Must have Autodiscovery enabled on Gatekeeper

‡ Must deselect "IVR Registers with gatekeeper"

• Must register MCU as a Gateway

‡ Must deselect "Register Conference ID"

### **3.6 Known Limitations**

- RADVision GW cannot receive incoming calls if registered directly to the TANDBERG Gatekeeper.
- Gatekeeper will not respond with GRJ when AutoDiscovery is turned off.
- Incoming calls will fail if a system not registered into the Gatekeeper makes a call to a system registered into the Gatekeeper and bandwidth restriction is turned on.
- Inconsistent calls from Microsoft NetMeeting to Polycom ViaVideo.