

# **TANDBERG Gatekeeper N1 Release Document**

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TANDBERG

D50300, Rev 1.0

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# 1. Document Revision History

Rev 1.0 - Included Release of N1.0, Initial Version

## **2. Release Notes for the TANDBERG Gatekeeper Software Version N1.0**

### **2.1 Introduction**

#### **2.1.1 New Product Abstract**

The TANDBERG Gatekeeper is a new addition to the TANDBERG product line. It is a fully featured gatekeeper that provides simplified dialing using aliases, bandwidth management, and controlling access to network resources such as an MCU and/or a gateway.

### **2.2 New Feature Overview**

#### **2.2.1 Autodiscovery**

The TANDBERG Gatekeeper allows endpoints to manually register to it as well as automatically through auto-discovery of the Gatekeeper. This feature is enabled by default and can be disabled if desired. Endpoints will discover the gatekeeper using the Multicast address of **224.0.1.41** on port **1718 UDP**. The Gatekeeper will then send a confirmation to the endpoint including its IP address so that the endpoint may register.

#### **2.2.2 Zones**

The TANDBERG Gatekeeper can support one local zone and up to 100 remote or neighboring zones. A zone is a collection of all terminals, gateways, and multipoint control units managed by a single gatekeeper. A zone may be independent of network topology and may be comprised of multiple network segments. Each zone uses a local prefix which is used to identify the zone from other remote zones.

#### **2.2.3 Parent Gatekeeper**

The TANDBERG Gatekeeper can support one Parent Gatekeeper. The Parent Gatekeeper is used when there is one master gatekeeper and multiple child gatekeepers. All requests will be forwarded to the Parent when the gatekeeper is unable to locate the requested system or service.

#### **2.2.4 Bandwidth Management**

The TANDBERG Gatekeeper can manage bandwidth within the local zone (Intra-Zone) and between the remote zones (Inter-Zone). Bandwidth can be managed by setting limits on a Per Call basis and on a Total Bandwidth basis. When an endpoint initiates a call that exceeds the Per Call limit, the Gatekeeper will downspeed the call by signaling the endpoint the new call rate it should use. When the Total Bandwidth limit has been exceeded, all calls will be rejected until the total bandwidth in use is below the defined limit.

#### **2.2.5 Local Management**

##### **2.2.5.1 RS-232**

The Gatekeeper has 2 DB-9 serial ports that may be used for configuration and administration. The serial ports are also used for initial configuration using the embedded set-up wizard. Software upgrades may also be monitored via the serial ports.

## 2.2.6 Remote Management

### 2.2.6.1 Telnet

The Gatekeeper has an embedded telnet server for configuration and administration. The telnet server may be disabled if desired. The telnet service is enabled by default.

### 2.2.6.2 SSH

The Gatekeeper has an embedded SSH (Secure Shell) server for configuration and administration. SSH provides a CLI (command line interface) similar to telnet but over a secure, AES encrypted connection. The SSH server may be disabled if desired. The SSH service is enabled by default.

### 2.2.6.3 HTTP

The Gatekeeper has an embedded web server for software upgrades. The server may be disabled if desired. The HTTP service is enabled by default.

### 2.2.6.4 HTTPS

The Gatekeeper has an embedded secure web server for software upgrades. The server may be disabled if desired. The HTTPS service is enabled by default.

### 2.2.6.5 SNMP

The Gatekeeper has an embedded SNMP manager for proactive reporting of problems and systems status. Programs such as TANDBERG Management Suite (TMS) and HP OpenView can make use of this feature. The SNMP manager can be disabled if desired. The SNMP service is enabled by default.

## 2.3 Supplemental Notes to Manuals

### 2.3.1 Software Versions

There are 3 versions of the TANDBERG Gatekeeper available.

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

### 2.3.2 References/Related Documents

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

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

- D1338101 TANDBERG Gatekeeper User's Manual
- D1338001 TANDBERG Gatekeeper Installation Sheet

### 2.3.3 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.

## 2.3.4 Layer 4 Ports used by the system

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)

## 2.4 Changes and Improvements since previous version

- Version N1.0 is the initial release of the TANDBERG Gatekeeper

## 2.5 Interoperability

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

### 2.5.1 Gatekeepers

Equipment	Software Revision
Radvision ECS Gatekeeper	3.5.1.2
Cisco MCM Gatekeeper	12.2(13)T5
VCON MXM	3.11SP1
Ezenia Encounter 3000	2.0.0.1

### 2.5.2 Gateways

Equipment	Software Revision
Radvision ViaIP GW	2.0.1.8*†
Radvision L2W GW	2.2.3.2.5*
Polycom MGC 100/50/25 GW	6.00.65*
TANDBERG Gateway	G2.0

### 2.5.3 MCU's

Equipment	Software Revision
TANDBERG MCU	D3.2, D3.3
TANDBERG MPS	J1.0
Polycom MGC 100/50/25 MCU	6.00.65*
Radvision OnLan MCU	2.2.1.0*•
Radvision ViaIP MCU	3.2.38*•‡
Cisco IPVC 3540	3.2.113*•‡

### 2.5.4 Endpoints

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, B9.0, E1.1, E2.0, E3.4, E4.0
TANDBERG MXP	F1.0
Polycom IPower 9000	6.0.0.315

Polycom IPower 970	6.0.0.315
Polycom IPower 680	5.3.0.1202
Polycom FX	6.0.1
Polycom VS	6.0.1
Polycom MP 512	7.5.2
Polycom SP 384	7.5.2
Polycom ViaVideo	5.1.1.1009
Sony 1600	3.33
Sony 6000	5.02
Sony PCS-1	2.20
VTEL Galaxy	2.2.0.070
Microsoft Netmeeting	3.01

\* Must have Autodiscovery enabled on Gatekeeper

† Must deselect "IVR Registers with gatekeeper"

• Must register MCU as a Gateway

‡ Must deselect "Register Conference ID"

## 2.6 Known Limitations

- A Radvision VIU is unable to register to a TANDBERG Gatekeeper because it registers with duplicate E.164 aliases
- Due to the iPower not supplying the destinationAddress H.2250.0-Q931 element, an iPower system is unable to call an endpoint registered to a TANDBERG Gatekeeper if the iPower system itself is not registered to a gatekeeper.