

TANDBERG 3G Gateway

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What's in this **User Guide?**

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 - Neither the name of the University nor the names of its contributors may be used to endorse or promote products derived from this software without specific prior written permission.

Patent Information

TANDBERG technology described in this manual is protected by one or more of the following U.S. Patent Nos. 5,584,077 - 5,838,664 - 5,600,646 - 7,010,119 - 7,034,860 and other patents are pending in the United States and/or other countries.

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Operator Safety / Environmental Issues

For your own protection, please read the overleaf safety instructions completely, before operating the equipment and keep this manual for future reference. The information in this summary is intended for operators. Carefully observe all warnings, precautions and instructions both on the apparatus and in the operating instructions.

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Safety Instructions

For your protection please read these safety instructions completely before you connect the equipment to the power source. Carefully observe all warnings, precautions and instructions both on the apparatus and in these operating instructions.

Retain this manual for future reference.

Water and Moisture

- Do not operate the apparatus under or near water - for example near a bathtub, kitchen sink, or laundry tub, in a wet basement, near a swimming pool or in other areas with high humidity.
- Never install jacks for communication cables in wet locations unless the jack is specifically designed for wet locations.
- Do not touch the product with wet hands.

Cleaning

- Unplug the apparatus from communication lines, mains power-outlet or any power source before cleaning or polishing. Do not use liquid cleaners or aerosol cleaners. Use a lint-free cloth lightly moistened with water for cleaning the exterior of the apparatus.
- Unplug the apparatus from communication lines before cleaning or polishing. Do not use liquid cleaners or aerosol cleaners. Use a lint-free cloth lightly moistened with water for cleaning the exterior of the apparatus.

Ventilation

- Do not block any of the ventilation openings of the apparatus. Never cover the slots and openings with a cloth or other material. Never install the apparatus near heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.
- Do not place the product in direct sunlight or close to a surface directly heated by the sun.

Trademarks & Patents & Copyright Disclaimers Lightning

Never use this apparatus, or connect/ disconnect communication cables or power cables during lightning storms.

Dust

Do not operate the apparatus in areas with high concentration of dust.

Vibration

Do not operate the apparatus in areas with vibration or place it on an unstable surface.

Power Connection and Hazardous Voltage

- The product may have hazardous voltage inside. Never attempt to open this product. or any peripherals connected to the product, where this action requires a tool.
- This product should always be powered from an earthed power outlet.
- Never connect attached power supply cord to other products.
- In case any parts of the product has visual damage never attempt to connect mains power, or any other power source, before consulting service personnel
- The plug connecting the power cord to the product/power supply serves as the main disconnect device for this equipment. The power cord must always be easily accessible.
- Route the power cord so as to avoid it being walked on or pinched by items placed upon or against it. Pay particular attention to the plugs, receptacles and the point where the cord exits from the apparatus.
- Do not tug the power cord.

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 If the provided plug does not fit into your outlet. consult an electrician.

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 Never install cables, or any peripherals, without first unplugging the device from it's power source.

Servicing

- Do not attempt to service the apparatus yourself as opening or removing covers may expose you to dangerous voltages or other hazards, and will void the warranty. Refer all servicing to qualified service personnel.
- Unplug the apparatus from its power source and refer servicing to gualified personnel under the following conditions:
 - If the power cord or plug is damaged or fraved.
 - If liquid has been spilled into the apparatus.
 - If objects have fallen into the apparatus.
 - If the apparatus has been exposed to rain or moisture
 - If the apparatus has been subjected to excessive shock by being dropped.
 - If the cabinet has been damaged.
 - If the apparatus seems to be overheated.
 - If the apparatus emits smoke or abnormal odour.
 - If the apparatus fails to operate in accordance with the operating instructions.

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Accessories

Use only accessories specified by the manufacturer, or sold with the apparatus.

Communication Lines

Do not use communication equipment to report a gas leak in the vicinity of the leak.

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Electromagnetic Compatibility (EMC)

This is a Class A product. In a domestic environment this product may cause radio interference in which case the user may be required to take adequate measures.

EC Declaration of Conformity

MA

MANUFACTURER:	TANDBERG Telecom AS
PRODUCT NAME:	TANDBERG 3G Gateway
TYPE NUMBER:	TTC2-03
DESCRIPTION:	Network unit
This product complies	with Commission Directives:
LVD 73/23/EEC	
EMC 89/336/EEC	
R&TTE 99/5/EEC	

This product complies with harmonized Standards:

EN 60950-1:2001, A11 EN 55022 : 1994. A1/A2 EN 55024 : 1998. A1/A2 EN 61000-3-2 : 2000 EN 61000-3-3 : 1995, A1 TBR 3 Layer 1, 2 and 3 TBR4 Layer 1, 2 and 3

TECHNICAL CONSTRUCTION FILE NO.: X13526

YEAR WHICH THE CE-MARK WAS AFFIXED: 2005

For an official, signed version of this document, or details regarding documentation from the technical construction file, please contact TANDBERG.

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Environmental Issues

Thank you for buying a product which contributes to a reduction in pollution, and thereby helps save the environment. Our products reduce the need for travel and transport and thereby reduce pollution. Our products have either none or few consumable parts (chemicals, toner, gas, paper). Our products are low energy consuming products.

TANDBERG's Environmental Policy

Environmental stewardship is important to TANDBERG's culture. As a global company with strong corporate values, TANDBERG is committed to following international environmental legislation and designing technologies that help companies, individuals and communities creatively address environmental challenges.

TANDBERG's environmental objectives are to:

- Develop products that reduce energy consumption, CO₂ emissions, and traffic congestion
- Provide products and services that improve quality of life for our customers
- Produce products that can be recycled or disposed of safely at the end of product life
- Comply with all relevant environmental legislation.

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European Environmental Directives

As a manufacturer of electrical and electronic equipment TANDBERG is responsible for compliance with the requirements in the European Directives 2002/96/EC (WEEE) and 2002/95/EC (RoHS).

The primary aim of the WEEE Directive and RoHS Directive is to reduce the impact of disposal of electrical and electronic equipment at end-of-life. The WEEE Directive aims to reduce the amount of WEEE sent for disposal to landfill or incineration by requiring producers to arrange for collection and recycling. The RoHS Directive bans the use of certain heavy metals and brominated flame retardants to reduce the environmental impact of WEEE which is landfilled or incinerated.

TANDBERG has implemented necessary process changes to comply with the European RoHS Directive (2002/95/EC) and the European WEEE Directive (2002/96/EC).

Waste Handling

In order to avoid the dissemination of hazardous substances in our environment and to diminish the pressure on natural resources, we encourage you to use the appropriate take-back systems in your area. Those systems will reuse or recycle most of the materials of your end of life equipment in a sound way.

TANDBERG products put on the market after August 2005 are marked with a crossed-out wheelie bin symbol that invites you to use those take-back systems.

Please contact your local supplier, the regional waste administration, or <u>http://www.tandberg.net/recycling</u> if you need more information on the collection and recycling system in your area.

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Information for Recyclers

As part of compliance with the European WEEE Directive, TANDBERG provides recycling information on request for all types of new equipment put on the market in Europe after August 13th 2005.

Please contact TANDBERG and provide the following details for the product for which you would like to receive recycling information:

- Model number of TANDBERG product
- Your company's name
- Contact name
- Address
- Telephone number
- E-mail.

Digital User Guides

TANDBERG is pleased to announce that we have replaced the printed versions of our User Guides with a digital CD version. Instead of a range of different user manuals, there is now one CD – which can be used with all TANDBERG products – in a variety of languages. The environmental benefits of this are significant. The CDs are recyclable and the savings on paper are huge. A simple web-based search feature helps you directly access the information you need. In addition, the TANDBERG video systems now have an intuitive on-screen help function, which provides a range of useful features and tips. The contents of the CD can still be printed locally, whenever needed.

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印什石林 铅 汞 镉 六价铬 多溴联苯 多溴二苯醚 金属部件 X O	如件勾动			有毒	有害物质	或元素	
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支缆和线缆组装 X O O O O O O 显示器(包括照明灯) X X O O O O O 总明: D: 表示该有毒有害物质在此部件所有均质材料中的含量均在中国标准《电子信息产品中有毒有害物质的限量要求》(SJ/T 11363-2006)所规定的限量要求以下。 K: 表示该有毒有害物质至少在该部件的某一均质材料中的含量超出中国标准《电子信息产品中有毒有害物质的限量要求》(SJ/T 11363-2006)所规定的限量要求。 法: 表示该有毒有害物质的限量要求》(SJ/T 11363-2006)所规定的限量要求。 E E 注意: 在所售产品中未必包含所有上述所列部件。 A A A 余非在产品上有另外特别的标注,以下标志为针对所涉及产品的环保使用期限标志。环保使用期限只适用于产品在产品手册中所规定的使用条件。 A A A	印刷电路板及组件	X	0	0	0	0	0
显示器(包括照明灯) X X O O O O O O O O O O O O O O O O O	线缆和线缆组装	X	0	0	0	0	0
 说明: D:表示该有毒有害物质在此部件所有均质材料中的含量均在中国标准《电子信息产品中有毒有害物质的限量要求》(SJ/T 11363-2006)所规定的限量要求以下。 K:表示该有毒有害物质至少在该部件的某一均质材料中的含量超出中国标准《电子信息产品中有毒有害物质的限量要求》(SJ/T 11363-2006)所规定的限量要求。 主意:在所售产品中未必包含所有上述所列部件。 除非在产品上有另外特别的标注,以下标志为针对所涉及产品的环保使用期限标志。环保使用期限只适用于产品在产品手册中所规定的使用条件。 	显示器(包括照明灯)	X	X	0	0	0	0
K (C/1)/JTK/ KE/11 J / HH IL/ HH J //J / //////////////////////////	说明: D: 表示该有毒有害物质有 中有毒有害物质的限量要求 C: 表示该有毒有害物质到 息产品中有毒有害物质的限 主意: 在所售产品中未必有 除非在产品上有另外特别的 是使用期限只话用于产品	生此部件 求》(SJΠ 至少在该 良量要求) 回含所有 的标注, 东产品手	所有均质 □11363-3 部件的某 》(SJ/T 1 上述所列 以下标志	(材料中自 2006) 所 一均质材 [1363-20 部件。 (5) 新研り 定的使用	的含量均在 规定的限量 材料中的含 006)所规定 所涉及产品	E中国标准《 量要求以下。 量超出中国 E的限量要求 品的环保使用	电子信息产品 标准《电子信 。 期限标志。环

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Unpacking and Installation

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What's in the Box?	Installation Site Preparations	General Installation Precautions
 To avoid damage to the unit during transportation, the 3G Gateway is delivered in a special shipping box, which should contain the following components: 3G Gateway Server Network cables ISDN cables (5m) (Qty 4) – only if the 3G/Audio GW 4xBRI option is chosen ISDN cables (5m) (Qty 1) – only if the 3G/Audio GW 1xPRI option is chosen Ethernet cable (5m). Power Cables Install Sheet User Manual CD Registration Card Accessories bag (Console cable, rack ears, rubber feet) Please report any discrepancies to your TANDBERG representative immediately. 	 Make sure that the 3G Gateway is accessible and that all cables can be easily connected. For ventilation: Leave a space of at least 10cm (4 inches) behind the 3G Gateway's rear panel and 10cm (4 inches) in front of the front panel. The room in which you install the 3G Gateway should have an ambient temperature between 0°C and 35°C (32°F and 95°F) and between 10% and 90% non-condensing relative humidity. Do not place heavy objects directly on top of the 3G Gateway. Do not place hot objects directly on top, or directly beneath the 3G Gateway. Use a grounded AC power outlet for the 3G Gateway. You will need a CSU (Channel Service Unit) between your system and the PRI line from your network provider. Make sure that it is possible to receive and to make mobile (H.324M) video calls from behind this line. Check this with your network poperator! 	 Never install telephone wiring during a lightning storm. Never install telephone jacks in wet locations unless the jack is specifically designed for wet locations. Never touch uninstalled telephone wires or terminals unless the telephone line has been disconnected at the network interface. Use caution when installing or modifying telephone lines. Avoid using a telephone (other than a cordless type) during an electrical storm. There may be a remote risk of electrical shock from lightning. Do not use the telephone to report a gas leak in the vicinity of the leak. The socket outlet shall be installed near to the equipment and shall be easily accessible. Never install cables without first switching the power OFF. This product complies with directives: LVD 73/23/EC, EMC 89/366/EEC, R&TTE 99/5/EEC. This product complies with the standards GR-63-CORE and
A brief, yet detailed presentation of the procedure to get you up and going can be found in the Installation Sheet	• If you are behind a PABX make sure that the PABX is capable of routing mobile (H.324M) video calls.	compliance, there should be a clearance of 9.1 cm between the product and any other product mounted in the rack.

A brief, yet detailed presentation of the procedure to get you up and going can be found in the Installation Sheet accompanying your TANDBERG product.

Connecting the Cables



3G Gateway Features at a Glance

TANDBERG 3G GATEWAY USER GUIDE

About the 3G Gateway

The TANDBERG 3G Gateway enables sites on IP and UMTS Handsets to participate in meetings with each other with the quality and reliability found in all TANDBERG equipment. An 3G Gateway system opens up a wide range of interactive video and call routing services.

3G Gateway Capacity – Typical Scenarios

Due to the fixed bandwidth of UMTS video telephony every call will be limited to 64 Kbits/s. This offers a capacity of 30 simultaneous calls through an E1 PRI, 23 simultaneous calls through a T1 PRI, or 8 calls through a 4×BRI. Due to audio transcoding (AMR to G.711) the bandwidth at IP side is 109 Kbits/s per session, 64 Kbits/s G.711 audio and 45 Kbits/s H.263 video calling 3G to H.323 or SIP endpoints. For calls between H.323 endpoints it is possible to set up 60 sessions between 768 and 192 kbit.



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IP Services and Procedures

- H.324m, SIP and H.323 support
- Service Prefix
- Load balance.

UMTS Services

The TANDBERG 3G Gateway offers a variety of UMTS dial-in services:

- Direct Inward Dialing (DID) the destination endpoint is determined from the dialled number
- Interactive Video Response (IVR) the destination endpoint can be selected via touch tones.
- TMS Corporate Directory the destination end point can be selected via a search in a TMS phonebook.

Security

 Secure Access - support XML/SOAP over HTTPS, Web (HTTP) encrypted password and the services that can be disabled.

Video Quality

- H.263 video compression.
- MPEG-4 video compression

Audio Quality

- AMR, G.711 audio compression
- Support AMR bit rate 4.75 Kbit 12.2 Kbit.

Interoperability

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 Worldwide compatibility with standards-based videoconferencing systems

sing the 3G

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• Compatible with all available WCDMA H.324M video telephony capable handsets supporting DTMF tones.

Features Highlights

Management Interfaces

SOAP (Simple Object Access Protocol) is a lightweight protocol for exchange of information in a decentralized, distributed environment.

XML (Extensible Markup Language) is a flexible way to create common information formats and share both the format and the data on the World Wide Web, intranets, and elsewhere. This functionality can be used by management systems like the TANDBERG Management Suite to control the 3G Gateway

HTTP Web-interface for system management, call management such as diagnostics and software uploads

HTTPS Hypertext Transfer Protocol over Secure Socket Layer is a Web protocol that encrypts and decrypts user page requests as well as the pages that are returned by the Web server. It uses Secure Socket Layer (SSL) as a sublayer under its regular HTTP application layering. HTTPS uses port 443 instead of HTTP port 80 in its interactions with the lower layer, TCP/IP. SSL uses a 40-bit key size for the RC4 stream encryption algorithm, which is considered an adequate degree of encryption for commercial exchange.

Network and Features

- Call rate of 64 kbit on ISDN side and 768 kbps on IP side for each call is supported through the 3G Gateway.
- Interactive Video and voice Response (IVR).
- Default 3G Gateway service when calling Border Controller IP number
- Support voice only calls (VoIP gatewaying)

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Selecting IP endpoint from address book.

Services

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The Front and Rear Panels

About the Rear Panel LED Operation

• Green: Normal operation.

- Red Alarm or Loss of Signal (LoS) indicates that there is no signal and thus no framing information received. A defective or unplugged PRI cable will produce the same effect.
- Yellow Alarm or Remote Alarm Indicator (RAI) means that the 3G Gateway is receiving framing info, but in this framing info the other side tells the 3G Gateway that it is not reading the Gateway's transmitted framing information. Typically, this may be a broken connector in the transmit (TX) part of the PRI cable. This could also indicate weak or noisy signal in the transmit (TX) part of the PRI cable.
- Blue Alarm indicates that the received frames are not synchronized properly.
- No LED's illuminate, indicates that layer one framing is working (right protocol like for example EURO ISDN selected), however, there is a problem at layer 2 caused by for example a CRC4 configuration mismatch.

3G Gateway Start-up

To start the 3G Gateway, simply connect the power cable, and press the power switch button at the back side to position **1**.

Power switch

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On the front panel of the system the power indicator LED, marked Pwr, will turn GREEN.

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Connectors, Switches, Display, and Buttons

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Configuring Your 3G Gateway via the RS232



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Configuring the IP Address via the Front Panel



Using the 3G Gateway

This section of the 3G Gateway User Guide shows you how to gain access to the system, how to get an overview of ongoing calls, the menu operating principles, and how to dial from UMTS as well as from IP. Examples are provided for your convenience.

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Starting Up the 3G Gateway



An Overview of the Management Menu System



Service Call Details



Call Setup via Default Services



Dialing from UMTS – Using Phone Book

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About TMS Corporate Directory

The TMS Corporate Directory service allows one Endpoint, i.e. a UMTS phone, H.323 or SIP, to dial another Endpoint directly, without knowing or having to (manually) enter the extension number via DTMF. TMS Corporate Directory is a menu based dial-in method, which combines a directory listing from TMS with IVR. In this mode the user can search in the global address book provided via TMS using the alphanumeric part of the keypad. The TMS Corporate Directory service searches and displays entries matching the user input string.

Example of IVR – Using the Phone Book

Example 1

- 1. Pressing 8 once, twice and three times in a row followed by a # sign, will result in a list with names starting with a letter t, u or v respectively.
- Pressing 8 once, thereafter pressing 6 three times results in the search string to. Pressing 8 twice and 6 once, results in um. Pressing 8 three time and 6 three times results in vo. If one wants to reach Tom Arne press 8 followed by three times 6, i.e. search string to.
- 3. To select the person you wish to dial, press the corresponding key to place a call to that person.

The star (\star) key on the keypad is used as backspace.





Viewing the System Status

To view the current status of the system, hover with the mouse pointer over Status to produce a drop-down menu as shown here. This section discusses the respective menu items.

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ISDN/BRI Status (BRI Versions only)



H.323 Gatekeeper Status



ervices	TANDBERG <mark>3G</mark> US
	The default services, r come standard with a Gateway system, are: Direct Inwards Dia IVR • TMS Corporate Direct IVR
Overview Status Configuration Services Maintenance	
Service Configuration	You are here: Services + Service
Name Direct Inwards Dialing	/tandhero/services/did ivr
Dial Extension (IVR)	/tandberg/services/ivr.ivr
TMS Corporate Directory	/tandberg/services/tmscorpdir.ivr
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		TANDBERG <mark>3G GATE</mark> USER GU
		Select System Information to access the System Information pane.
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Overview Status Configuration Services Maintenance	2 64	
System Information	You are here: Status * System Information	
System Information		
System Nome	Amaterdam30	Inis pane provides an
Software Release	R3.0Beta5	software and hardware.
Software Build	111648	
Hardware Options	4 BRI interface(s)	
Release Date	2007-4-15	
Hardware Serial Number	43A00183 00:40-52:07-85-40	
Time Information	00.10.10.01.01.04	
Un Time	2 days 04:51:35	
NTD		
State	Initializing	
Address		
Port	123	
Last Update		
Last Correction		
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System Resources



Configuring the 3G Gateway

To configure the 3G Gateway, hover with the mouse pointer over the System configuration to produce a drop-down menu. The drop-down menu consists of 6/7 items, i.e. ISDN, IP, H.323, SIP, SNMP and System, to configure respective system parts.

Changing settings in the menus belonging to the ISDN, IP and System items only become effective after a system reboot, therefore these items all contain **Restart** buttons. Every configuration item is supported with a ? button for information about this specific item.

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SS7 Configuration

Select SS7 to access the SS7 Configuration pane.

Link Set Details

A link is a time slot within a trunk used for signalling. Link sets are typically used for signalling fail-over purposes to one switch.

- Enabled. Checking this box enables at least one signalling link in a link set.
- Destination Point Code. Uniquely identifies the destination signalling point of the link. This can differ from the DPC of the trunk, e.g. the DPC of a Signalling Transfer Point (STP), see example 2 on the following pages.
 - Enabled. Link1 is checked by default. Whereas, a second link box can be checked to define an extra signalling link for failover purposes.
 - Trunk. Number of the trunk (1–4) in which a time slot is reserved for signalling.
 - Time slot. Number of the time slot, within aforementioned trunk, reserved for signalling.
 - SLC. A Signalling Link Code is a unique link number provided by the network operator to identify a link.

rview Status Configuration Service	es Maintenance	Overview Status Configuration	on Services Maintenance
tive Calls H.323		SS7 Configuration	
mote Number		Service General Configuration	
SS7	▶ General		
IP	Trunks	Originating Point Code	99
SNMP	Link Sets	Network Indicator	National0 💙
System	Routes	Audio Codec / Law	ALaw 🛩
The status configuration Service	es Maintenance	Overview Status Configurati	on Services Maintenance
habled	V	- Trunk details	
estination Point Code	100	Enabled	
Link 1		Destination Point Code	
nabled	V	Circuit identification Code	0
runk	1 💌	Save	
ime Slot	16		
LC	0		

Overview Status Configuration Services Maintenance 7 04 **SS7 Routes Configuration** You are here: Configuration + SS7 + Routes 100 View/Edit 100 View/Edit 101 View/Edit 101 View/Edit Off View/Edit on View/Edit off View/Edit Off View/Edit

Routes

Routes are typically used for signalling fail-over purposes via multiple switches.

- Destination Point Code. Unique identifier indicating the destination signalling point of a trunk.
- Priority. Priority level of the route to the destination signalling point. Fail-over signalling paths will be followed according to this priority.
- Link set. Indicates the link to the destination signalling point according to the above mentioned priority setting. When set to off the respective route is disabled.

General

 Originating Point Code (OPC). A number in the range 0–2¹⁴, which uniquely identifies a signalling point, in this case the 3G Gateway, within a telephone network. This number consists of three parts, viz. a network, cluster and member number, and will be provided by the network operator.

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- Network indicator. A two bit data field within the Service Information Octet of the Message Signal Unit that permits discrimination between national and international messages.
- Audio Codec / Law. Either ALAW or ULAW. An a-law algorithm is a standard companding, i.e. compressing and expanding, algorithm, used in European digital communication systems to optimize, i.e. modify, the dynamic range of an analogue signal for digitizing. The µ-law algorithm is similar to a-law and used in North American and Japanese systems.

Trunks

A maximum of four PRIs or SS7 trunks, i.e. cables carrying E1/T1, can be enabled in the 3G Gateway.

- Mode. Enable or disable a trunk.
- Destination Point Code (DPC). Uniquely identifies the destination signalling point of the trunk. It will be provided by the network operator.
- CIC. The Circuit Identification Code is a unique identifier for a data time slot in a cable (trunk). In this case the CIC acts as base address and can be defined for each SS7 trunk and sets the first time-slot number of the respective SS7 trunk.

To provide a better understanding of the settings discussed here, two examples are given on the following pages.



SS7 Configuration – Example 1

Suppose all four SS7 trunks of one 3G Gateway are connected to one switch, as indicated in the connection schematic to the right.

In this example the Originating Point Code (OPC) of the 3G Gateway equals 99, and the Destination Point Codes (DPCs) for all trunks equal 100.

Both OPC and DPC are provided by the telephone network operator.

These settings can be seen in the schematic and in the screen shot of the SS7 window below right. All trunks can carry a maximum of 30 calls, i.e. 30 data time slots.

Each data time slot is identified uniquely by its OPC, DPC and Circuit Identification Code (CIC). The "absolute" CIC consist of a CIC "base address", which has to be defined for each trunk in the SS7 window. i.e. in this case 0. 32, 64 and 96, and a relative address. The latter is a number between 0 and 31 and depends on the choice of the framing time slot and signalling time-slot numbers.

Since one time slot is reserved for framing, in this case set to time slot 0 by default, and one time slot has to be defined for signalling (16 in this example), 30 time slots are left to transport call related data, i.e. time slots with relative addresses 1–15 and 17–31, see the table in the schematic.

For signalling fail-over purposes a maximum of 2 SS7 trunks, also called links, can be defined to take care of the SS7 signalling of all 4 trunks in the 3G Gateway,

In this case trunks 1 and 2 are used for SS7 signalling. Since there is a direct connection between the 3G Gateway and the switch. both links are defined in the same link set with the DPC of the switch, i.e. 100. Since fail-over has been arranged within one link set, no routes can be defined.



3G Gateway

OPC = 99

SS7 Trunks Configuratio	You	are here: Configuration + SS7 + Trunks		
Number	Enabled	Destination Point Code	Circuit Identification Code	Actions
1	On	100	0	View/Edit
2	On	100	32	View/Edit
3	On	100	64	View/Edit
4	On	100	96	View/Edit

30 calls

30 calls

30 calls

. 30 calls

Switch

DPC = 100

SLC = 0

SLC = 1

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Trunk1

Trunk2

Trunk3

Trunk4

Overview Status Configur	ation Services Maintenan	ce				2 09
SS7 Link Set Configuration You are here. Configuration > SS7 - Link Sets					Link Sets	
Number	Enabled	Destination Point Code	Link 1	Link 2	Actions	
1	On	100	On	On	View/Edit	
2	0ff	0	0ff	0ff	Vlew/Edit	



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SS7 Configuration – Example 2

Suppose two out of four trunks are connected to one switch and the other two to another switch.

Now SS7 signalling fail-over is arranged via two switches and two Signalling Transfer Points (STPs) over 2 link sets, as can be seen from the schematic and the SS7 window below. Since the trunks are terminated by the switches, the DPCs of trunk 1 and 2 are 100 and 101, respectively.

However, both links are terminated by the STPs. Link set 1 contains SS7 trunk 1 and is terminated by an STP with DCP 200. Link set 2 contains SS7 trunk 3 and is terminated by an STP with DCP 201.

For each link two routes are available to two switches, one directly and one via an STP. Priority 1 is assigned to all direct links, whereas all links via STPs have the lower priority 2.





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IP Configuration

Select IP from the Configuration to access the **IP Configuration** pane.

DNS Interface

Up to five Domain Name Server IP addresses can be specified here. Your LAN administrator will provide the correct values for these fields. By default these fields are set to 127.0.0.1

Date and Time Settings. An NTP server address can be specified here to provide the 3G Gateway with up-to-date time and date information.

Save. When ready to store the new settings, press Save. These settings will take effect when the system has been restarted.

Restart. This button will restart the 3G Gateway. Any changes made in the IP Configuration of the 3G Gateway will take effect after the system has been restarted.



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H.323 Configuration



SIP Configuration



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SNMP Configuration





System

Maintenance and Upgrade

The Maintenance section describes how the system software can be upgraded, how new options can be made available via the installation of option keys, how the system password can be changed, and how the system is restarted.

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Maintenance – General

Under the Maintenance tab the system software can be upgraded, new options can be made available via the installation of option keys, the system password can be changed, and the system can be restarted.

The 3G Gateway's system software can be upgraded via the Upgrade item in the Maintenance menu. It also shows current software version and the 3G Gateway's hardware serial number. For new software versions a release key must be entered before the upgrade can be activated.



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needed.

for more details.

Maintenance – Upgrading the System

Upgrading the System Once you have entered the release key in the Release Key field Æ Overview Status Configuration Services Maintenance (see the previous page) and pressed Install Software a new win-Upgrade dow will appear, which enables the entry of the software package, i.e. a .pkg, file to be uploaded For dot release upgrades a Release Software Upload Key won't be needed. Select the software file: Browse... Install 2 After the .pkg file has been selected, this will be uploaded Overview Status Configuration Services Maintenance into the flash memory of the 3G Gateway. System Upgrade Software upgrade in progress Software upgrade in progress. You may have to wait a few minutes.. Overview Status Configuration Services Maintenance After the upload has been completed, this message is B shown. System Upgrade - Software successfully upgraded Call Status: There are 0 calls active The system needs to be restarted for the new software to take effect Restart System 4 This screen appears after clicking the Restart System Overview Status Configuration Services Maintenance button. Restarting System restarting Next page should automatically be loaded after system has restarted. Please Wait! If no page has been loaded after 4 minutes, press this link Table of Trademarks & Patents & Safety/ To Get You Using the 3G Viewing the Configuring Maintenance Dial Plan Contact Services Up and Going Contents Copyright Disclaimers Environmental Gateway System Status the 3G Gateway & Upgrade Examples Information D13841.08 Download from Www.Somanuals.com All Manuals Search And Download. TANDBERG 10.2007

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Maintenance – Option Keys, Password and Restart

	Option Keys		Password	Restart
To expand software op Contact your TANDBER Overview Status Configuration Service Option Keys 11520184-1-01780917 Detec Software Option Software Version Hardware Serial Number Add Option Key Ass Option	Maintenance	on keys are required. more details.	Overwew Status Configuration Services Maintenance Passwords Administrator Password New Password Retype New Password Sovo Rootent	Overview Status Configuration Services Maintenance Restart Coll Statuo: Thoro are 0 collo active Restart System
Add Option key. Enter the supplied option keys and press Add Option.	Key. Shows the option-key number.	Description. Shows the software function belonging to the key number.	 Forgot the password? Use the following procedure to set a new password: Reboot the 3G Gateway and connect to the 3G Gateway via the serial interface once it has restarted. Login with User Name pwrec. No password is required. You will be prompted for a new password. The pwrec account is only active for one minute following a restart. Beyond that time the system will have to be restarted again to change the password. 	The 3G Gateway can be restarted either via the Restart System menu item in the System configuration menu or via the Restart System buttons in the ISDN, IP, Misc and Upgrade System menus.
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Services

On 3G Gateway systems dial plans can be configured with default services. Three default services can be distinguished:

- Direct Inwards Dialing
- Dial Extension (IVR)
- TMS Corporate Directory

These services can be found under the Service Configuration tab. Each default service has a specific number of parameters which can be set by the user.

To configure a dial plan select the Dialplan Configuration item.

Overview Status Configuration	Services Maintenance
Active Calls	Service Configuration
Remote Number	Net Type



Default Services

About Default Services

The 3G Gateway is equipped with a number of persistent default services, i.e. services stored in the on-board non-volatile memory. Therefore, these services will always be available after a system restart. The following persistent default services can be distinguished:

- Direct Inwards Dialing (DID). Defines a one-on-one relation between an inbound and an outbound number.
- Dial Extension (IVR). Also known as Interactive Voice/Video Response (IVR), defines a relation between an inbound number and an interactive service, i.e. a menu, via which an outbound service can be connected to. The outbound service can be an audio or video service or an externally connected endpoint.
- TMS Corporate Directory (phone book). A connection with the installed TANDBERG Management System (TMS) phone book is setup. Via the phone book menu an outbound call to another endpoint, e.g. a 3G Mobile, H.323 or SIP endpoint, can be setup.
- To view all service entries select the Service Configuration menu from the Service tab.

	ice Configuration Window	
Overview Status Configuration Services Maintenance		୧) ଜ
Service Configuration		Vau are barri Sandar Sandar Gastavetia
Service Configuration		You are here. Services - Service Configuration
Name	Handhare (ann sinna (did isr	
Dial Extension (IVR)	/tandberg/services/uid.wi	
TMS Corporate Directory	/tandberg/services/tmscorpdir.ivr	
This Corporate Directory	/tandberg/services/tmscorpdir.ivr	

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Dialplan Configuration

About Dialplan Configuration

To view all dialplan configuration entries or create a new dial plan select the **Dialplan** configuration menu item from the Services tab.

Dialplan Configuration Window

TANDBERG 3G Gateway

ial	plan configurati/	on	Services		Logout Help You ar	e here: Service conf	iguration 🕨 Dialplan configurati
			Dialplan configuration				
	Name	Net type	Prefix	Suffix	Service	Enabled	Actions
	H324m - SIP	H324m	207947130		N∕R	On	View/Edit
	H324m - H324m	H324m	207947131		IVR	On	View/Edit
	H324m - H323	H324m	207947132		IVR	On	View/Edit
	H323 - SIP	H323	90370001		IVR .	On	View/Edit
	H323 - H324m	H323	90370002		IVR .	On	View/Edit
	H323 - H323	H323	90370003		IVR .	On	View/Edit
	SIP - SIP	SIP	sip:90371001		IVR	On	View/Edit
	SIP - H324m	SIP	sip:90371002		IVR	On	View/Edit
	SIP - H323	SIP	sip:90371003		IVR	On	View/Edit
	H324m - SIP	H324m	207947133		Direct Inwards Dialing	On	View/Edit
	H324m - H324m	H324m	207947134		Direct Inwards Dialing	On	View/Edit
	H324m - H323	H324m	207947135		Direct Inwards Dialing	On	View/Edit
	H323 - SIP	H323	90370004		Direct Inwards Dialing	On	Vicw/Edit
	H323 - H324m	H323	90370005		Direct Inwards Dialing	On	View/Edit
	H323 - H323	H323	90370006		Direct Inwards Dialing	On	View/Edit
	SIP - SIP	SIP	sip:90371004		Direct Inwards Dialing	On	View/Edit
	SIP - H324m	SIP	sip:90371005		Direct Inwards Dialing	On	View/Edit
	SIP - H323	SIP	sip:90371006		Direct Inwards Dialing	On	View/Edit
	TMS corp. dir.	H323	90372001		TMS Corporate Directory	On	View/Edit
	TMS H324M	H324m	207947136		TMS Corporate Directory	On	View/Edit



Dialplan Details

To view the dialplan entry details, click on the dialplan entry or on View/Edit of the respective dial plan. As has been discussed on the previous page four default services can be distinguished:

- Direct Inwards Dialing
- Dial Extension (IVR)
- TMS Corporate Directory (Phone book)

For each default service the dialplan setup will be illustrated with an example on the following pages.

Note: Number matching is performed on dial plans from the top to bottom.

Each dial plan has the following general fields, i.e. Dialplan entry details:

- Enabled. If the box is checked the service becomes available.
- Name. The name of the dial plan as represented in the Dialplan Configuration overview.
- Net type. Inbound call net type: either H.324m, H.323, SIP or All. All means that independent of the net type the call is accepted on a match with the predefined Prefix and Suffix.
- Prefix. Number to which the first part of the inbound number (bnr) is matched. The prefix is specified in the dial plan entry. The prefix is stripped from the inbound number.
- Suffix. Number to which the last part of the inbound number (bnr) is matched. The suffix is specified in the dial plan entry. The suffix is also stripped from the inbound number. The part of the number which remains after stripping both prefix and suffix is called remainder (See also the "useremainder" option in a DID service).

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Argument Details for the Default DID Service

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Argument Details for a Default IVR Service



TMS	prporate Directory Argument Details
Overview Status Configuration Services Ma	ance
Dialplan Details	
Dialplan entry details	
Enabled	
Name	TMS corp. dir.
Net Type	H323 V 3
Prefix	90372001 TMS address. IP address of Tandberg
Suffix	Management System (TMS).
Service	TMS Corporate Directory
- Arguments	- for details, see three pages back.
TMS Address	10 47 1 10
Allow Forwarding	No 12 Show DTME Information Screen Identic
Show DTMF Information Screen	On V
AV Mode	Auto + fallback to audio V ?
	AV mode. Identical to DID service – for
- Media Sources	details, see three pages back.
Call_Proceeding_Audio.mov	Browse Use Defauit
WelcomePoster_CIF.jpg	Browse Use Default
Welcome_Poster_QCIF.jpg	Browse Use Default Media Sources. Some of the default Me
Welcome_Audio.mov	Browse Use Default Sources, like the Welcome Screen, the D
Please_Wait_MovieH263.mov	Browse Use Default Information Screen and the Please wait in as mentioned under the Media Sources
DTMF_Info_Poster_CIF.jpg	Browse Use Default this service, can be replaced by the user
DTMF_Info_Poster_QCIF.jpg	Browse Use Defauit
Save	

Dial Plan Examples

Given the supported net types, H.324m, H.323 and SIP, 9 unique inbound and outbound net type combinations for both DID and IVR dial plans can be defined

Some of these combinations will be discussed in a few examples.

Example 1: Number-plan mapping

	A V Mode:	

When dialing the number 67890000 there will be a match with "0000" as the remaining number. The H.323 number that will be connected to will be: 50000 (construction: Prefix + Use remainder number). When dialing number 67894321 this will match with "4321" as the remaining number. The H.323 number to call will be: 54321. In this way a range of ISDN numbers can be mapped onto for instance a range of H.323 numbers.



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Some Dial Plan Examples (I)

About the Examples	DID Dial Plan Examples			
Given the supported net types, H.324m, H.323 and SIP, 9 unique inbound and outbound net type combinations for both DID and IVR dial plans can be defined: 1. H.324m–SIP 2. H.324m–H.324m 3. H.324m–H.323 4. H.323–SIP 5. H.323–H.324m 6. H.323–H.324m 9. SIP–H.323 Some of the above combinations will be discussed in a few examples. Examples on this page deal with DID dial plans, whereas examples on the next page describe IVR scenarios.	Example 1: Number-plan mapping Entry details: Enabled: Check Name: H.324m-H.323 Net Type: H.324m Prefix: 6789 Suffix: Service: Direct Inwards Dialing Arguments: Net Type: H.323 A V Mode: Auto + fallback to audio Prefix: 5 Suffix: Use Remainder: Yes Allow Forwarding: No When dialing the number 67890000 there will be a match with "0000" as the remaining number. The H.323 number that will be connected to will be: 50000 (construction: Prefix + Use remainder number). When dialing number 67894321 this will match with "4321" as the remaining number. The H.323 number to call will be: 54321. In this way a range of ISDN numbers can be mapped onto for instance a range of H.323 numbers.	Example 2: Hotline Entry details: Enabled: Check Name: H.324m-H.323 Net Type: H.324m Prefix: 67890000 Suffix: Service: Direct Inwards Dialing Arguments: Net Type: H.323 A V Mode: Auto + fallback to audio Prefix: 51234 Suffix Use Remainder: No Allow Forwarding: No When dialing number 67890000 this will match without leaving a remainder. The H.323 number that will be connected to will be: 51234 (construction: prefix). When dialing number 67890009876 one is also connected to the same H.323 endpoint, since there is a match on 67890000 and the remainder, i.e. 9876, is discarded. Note that Use Remainder is set to No!		
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Some Dial Plan Examples (II)

Dial Extension (IVR) Examples	Dial Extension (IVR) Dial Plan Examples
 Interactive Video Response (IVR), also called extension dial-in, is an automated answering system that directs the call to the IP endpoint indicated by the caller. The caller uses telephone tones (DTMF) to enter the H.323/SIP alias or extension. IVR is useful in case a limited amount of numbers, e.g. ISDN PRI or BRI lines, is available. An example shall be provided: An endpoint user calls a Dial Extension service number. The 3G Gateway activates the Welcome picture and sound. The 3G Gateway, when set in the dial plan, shows the DTMF Information screen. The endpoint user enters the extension (H.324m/H.323/SIP alias) followed by the # (pound-sign) to indicate end of number. The 3G Gateway starts to call the endpoint 	Example 4: 3G to H.323 IVREntry details:Enabled:CheckName:3G-H.323-IVRNet Type:H.324mPrefix:123478Suffix:Service Type:Ial ExtensionArguments:Net Type:H.323A V Mode:AutoPrefix:Suffix:Suffix:Allow Forwarding:NoWhen dialing number 123478 on a 3G handset, one is connected to an IVR service, from which an H.323 endpoint number can be entered.VR service, from which an H.323 endpoint number can be entered.When dialing number 123489 on a 3G handset, one is connected to an trivelevant, since the endpoint to be called is selected from a phone book.
 and the Connecting picture and sound are activated. 6. When the call is connected audio and video are transmitted through the 3G Gateway (SIP to SIP calls and H323 to H323 calls will only go through the 3G Gateway when Allow Forwarding is set to No). 	Example 6: 3G to SIP IVR Entry details: Enabled: Check Name: 3G-SIP-IVR Net type: H.324m Prefix: 1234790 Suffix: Service type: Arguments: Net Type: Net Type: SIP A V Mode: Auto
It is not possible to configure ISDN BRI lines for special functions like dial out only. The 3G Gateway will automatically select a free BRI line for H.323 to 3G calls and possibly block a DID or an IVR menu when the BRI lines have different numbers. Consequently, we strongly recommend that all ISDN BRI lines have the same number range.	Prefix: Suffix: @ <sip_proxy_address or="" registrar_address=""> Allow Forwarding: No When dialing number 1234790 on a 3G handset, one is connected to <userinputnumber>@<sip_proxy_address or="" registrar_address="">, where UserInputNumber is the number keyed in by the user from within the IVR menu.</sip_proxy_address></userinputnumber></sip_proxy_address>
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TMS Corporate Directory

The TMS Corporate Directory service allows one Endpoint, i.e. a UMTS phone, H323 or SIP, to dial another Endpoint directly, without knowing or having to (manually) enter the extension number via DTMF.

TMS Corporate Directory is a menu based dial-in method, which combines a directory listing from TMS with IVR. In this mode the user can search in the global address book provided via TMS using the alphanumeric part of the keypad.

The TMS Corporate Directory service searches and displays entries matching the user input string. A maximum of 6 entries per page are displayed.

One can browse back and forth through the pages by pressing the ***** button or the **#** button, respectively. With the **0** button one can go back to a previous stage in the service or even back to the previous service when the phone book is entered via the entry point or dial extension service.

A menu option is available when text is present next to the respective button. In case access to multiple phone books is available, the user can select one in the first stage. In the second stage, either a search string can be entered by the user, or you can use DTMF to search alphabetically.

All names matching the search string will be displayed up to a maximum of 10 pages, where each page contains a maximum of 6 names. Pressing the # button will commence the search. Entering an empty search string, i.e. pressing the **#** button without entering any character, will show a two-stage alphabetical menu structure providing the first letter of the search string only.

In the third stage one of the matched names can be selected by pressing the number preceding the name. When multiple numbers are provided with the selected name one can select the number of choice and the dialing of the outbound number will be commenced immediately.





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