TANDBERG

ENTRYPOINT

ADMINISTRATOR

Software version EP1.0 D14050.04 OCTOBER 2007

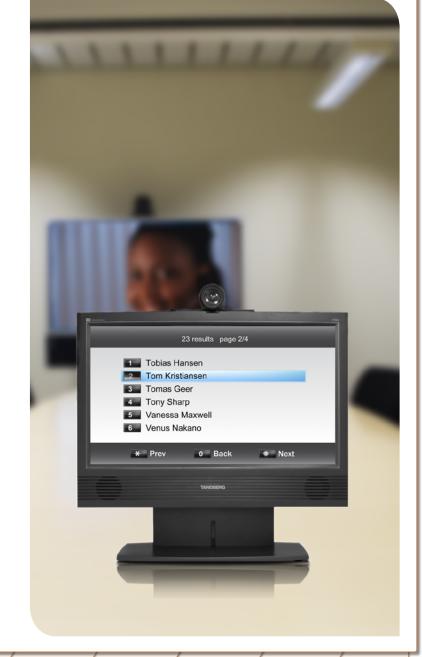




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What's in this **User Guide?**

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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.

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

 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 qualified 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.

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.

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

MANUFACTURER: TANDBERG Telecom AS PRODUCT NAME: TANDBERG Entrypoint

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.

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 http://www.tandberg.net/recycling if you need more information on the collection and recycling system in your area.

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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产品中有毒有害物质表

部件名称	有毒有害物质或元素				有毒有害物质或元素		
中门石林	铅	汞	镉	六价铬	多溴联苯	多溴二苯醚	
金属部件	Х	0	0	0	0	0	
印刷电路板及组件	Х	0	0	0	0	0	
线缆和线缆组装	Х	0	0	0	0	0	
显示器(包括照明灯)	Х	Х	0	0	0	0	

说明:

- O: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。
- X: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。

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To get You Up and Going

Before you start using the system we recommend that you take your time to read through this section of the User Guide to get you up and going.

This section outlines how to connect the system and the basic operating principles.

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Unpacking and Installation

What's in the Box?

To avoid damage to the unit during transportation, the Entrypoint is delivered in a special shipping box, which should contain the following components:

- Entrypoint 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.



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.

Installation Site Preparations

- Make sure that the Entrypoint is accessible and that all cables can be easily connected.
- For ventilation: Leave a space of at least 10cm (4 inches) behind the Entrypoint's rear panel and 10cm (4 inches) in front of the front panel.
- The room in which you install the Entrypoint 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 Entrypoint.
- Do not place hot objects directly on top, or directly beneath the Entrypoint.
- Use a grounded AC power outlet for the Entrypoint.
- 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 operator!
- If you are behind a PABX make sure that the PABX is capable of routing mobile (H.324M) video calls.

General Installation Precautions

- Never install telephone wiring during a lightning storm.
- Never install telephone jacks in wet locations unless the iack 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 GR-1089-CORE and is NEBS approved by UL. For NEBS compliance, there should be a clearance of 9.1cm between the product and any other product mounted in the rack.

Connecting the Cables

RS232 cable. To control the Entrypoint using the data port, connect an RS232 cable between the Entrypoint's RS 232 connector and the COM-port on a PC. See **Entrypoint Configuration** and the Data Port Command Interface User Guide (available separately)



LAN cable. To use the Entrypoint on IP. connect a LAN cable from the LAN 1 connector on the Entrypoint to your network. The LAN 2. 3 and 4 connectors are not used and should be left open.



Power cable. Connect the system power cable to an electrical distribution socket.

ISDN PRI or BRI cables. The E1/T1 cable should be connected to a CSU (Channel Service Unit). You will need a CSU between your Entrypoint and the PRI line from your network provider.

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for more on this.

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Entrypoint Features at a Glance

About the Entrypoint

The TANDBERG Entrypoint 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 Entrypoint system opens up a wide range of interactive video and call routing services.

Entrypoint 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.





Features Highlights

IP Services and Procedures

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

UMTS Services

The TANDBERG Entrypoint offers a variety of UMTS dial-in services:

- Direct Inward Dialling (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.
- Menu the destination end point or service can be selected via a menu.

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.

Audio Quality

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

Interoperability

- Worldwide compatibility with standards-based videoconferencing systems
- Compatible with all available WCDMA H.324M video telephony capable handsets supporting DTMF tones.

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 Entrypoint

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 Entrypoint.
- Interactive Video and voice Response (IVR).
- Default Entrypoint service when calling Border Controller IP number
- Support voice only calls (VoIP gatewaying)

Video IVR

Selecting IP endpoint from address book.

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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 Entrypoint is receiving framing info, but in this framing info the other side tells the Entrypoint 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.

Entrypoint Start-up

To start the Entrypoint, simply connect the power cable, and press the power switch button at the back side to position 1.



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



Connectors, Switches, Display, and Buttons

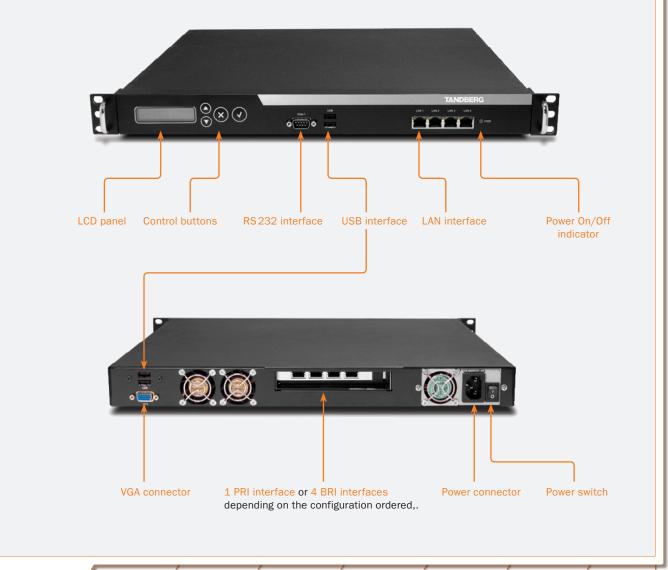


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Configuring Your Entrypoint via the RS 232

About Gateway Configuration

The Entrypoint requires some basic configurations before it can be used. It will be necessary to find the IP-address and to create the dial-in and dial-out services to program the ISDN-PRI Line numbers.

Make sure the Entrypoint is Off and connect an RS232 cable between the Entrypoint and a PC.



Configuring via the RS 232

2 Switch on the Entrypoint.



Start a terminal program on the PC and configure it to:

115200, 8, 1, None

Configuration via the Front Panel

As an alternative to the configuration via RS 232 you may use the LCD panel to configure and check the IP settings, as well as to reboot the system. This is outlined on the next page.

4 To assign a static IP-address, type
Xconf ip Assigment: "Static"
and
Xconf ip address <IPAddr>

To assign an IP Subnetmask, type
Xconf ip address subnetmask
<subnetmask>

To assign an IP Gateway address, type Xconf ip address gateway <gateway IP-address> Restart the Entrypoint.

6 Start a WEB browser and enter the IP-address of the Entrypoint. Default password: TANDBERG

Note the case sensitivity!

To configure the Entrypoint for UMTS dial-in, enter PRI or BRI numbers and dial in number(s). For details, see Configuring the Entrypoint.

To configure the Entrypoint for IP dial in, register the Entrypoint to a Gatekeeper and enter H.323 services. For details, see Configuring the Entrypoint

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Configuring the IP Address via the Front Panel

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About Entrypoint Configuration

The Entrypoint requires some basic configurations before it can be used. It is necessary to configure the IP-address and to create the dial-in and dial-out services to program the ISDN-PRI Line numbers.

Configuring the IP Address via the Front Panel

Switch on and press any key to produce the Main Menu. Use UP/DOWN to navigate to the IP Settings, if needed.

Press ENTER to access the IP Settings submenu.

Use the UP/DOWN keys to select IP Address.

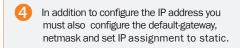
Configuring via the Front Panel

The LCD panel makes it possible to configure and check the IP settings as well as to reboot the system. The front panel LCD menu items are as follows:

Menu Hierarchy

IP Settings

Main Menu



Press **ENTER** again to produce the cursor.

Use **UP/DOWN** keys to navigate between the digits of the number.

IP Settings

IP Default GW

IP Address ➤ IP Netmask Use ENTER to enter Digit Altering Mode.

Use UP/DOWN to alter the digit value.

Press ENTER as many times as needed to move to the next digit to be altered and alter this digit.

When finished editing use ESC to go to the Confirm change menu.

Use the UP/DOWN key to select yes or no and ENTER to confirm.

Use ESC key to navigate back to the main menu.



DHCP assigned IP-addresses are supported by the TANDBERG Entrypoint (factory default).

IP Information IP Information IP Address Commands ➤ Reboot

Configuration via RS 232

As an alternative to the configuration via the LCD panel you may use RS232 to configure and the system. This is treated on the previous page.

Switching On the Unit

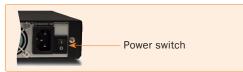




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Using the Entrypoint

This section of the Entrypoint 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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USER NAME is admin

PASSWORD. Default password is **TANDBERG** (NB!

case sensitive)

Starting Up the Entrypoint

Entrypoint Start-up

To start the Entrypoint, simply connect the power cable, and set the power switch button (both at the rear) to position I.

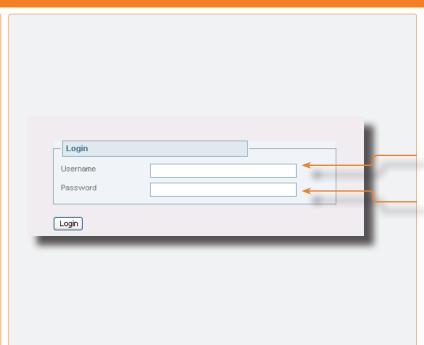


On the front panel of the system the power indicator LED, marked PWR, will turn GREEN.



Accessing the Entrypoint

You may access the Entrypoint by entering the IP-address of the Entrypoint in a standard WEB-browser. You will then be asked to enter a password. You will need to enter admin as user name. The default password for the Entrypoint is TANDBERG. Remember that the password is case sensitive. Note that you may also use SSH and Telnet to configure the Entrypoint.



Forgot the Password?

- Reboot the Entrypoint.
- Connect to the Entrypoint via the serial interface once it has restarted.
- B Login with User Name pwrec. No password is required.

You will be prompted for a new password.



The pwrec account is active for one minute following a restart. Beyond that time, the system will have to be restarted to change the password.

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An Overview of the Management Menu System

The Overview Window

The System Status windows of the Entrypoint can be accessed via the default URL: http://Entrypoint_IP_ Address/overview.

Remote Number. This is the inbound number.

Net. Indicates the net type, i.e. H.323, H.324m, SIP or Streaming.

The Overview window presents information about all calls routed through the Entrypoint.

How to access the Management Menu System is described on the previous page.

Overview Status System Configuration Services Maintenance Overview 9 You are here: Overview H323 Direct Inwards Dialing 00:29:21 View details

Service. Indicates the service type, i.e. DID, IVR, TMS phonebook, Menu.

Duration. Duration of the call in hours, minutes and seconds.

Log out and Help. Click on the little key icon to log out and on the question mark to gain access to Help features.

Actions. Clicking on view details reveals both incoming and outgoing call leg information.

Clicking on a service call entry shows the service call details of the respective call, like e.g. inbound and outbound numbers – see the next page for more on this.

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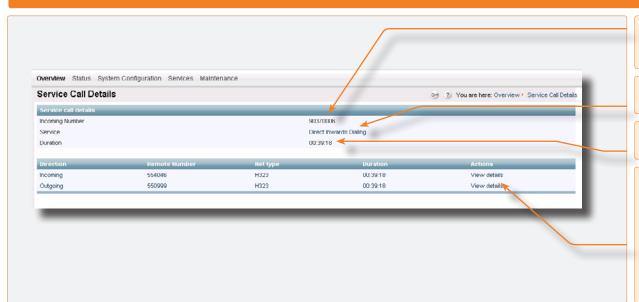
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About Service Call Details

The View Call Details tab presents information about all calls routed through the Entrypoint, i.e. inbound and outbound numbers, duration of the calls and call status - i.e. ringing (alerting), connecting and connected.

Incoming. Indicates the information belonging to the call leg of the calling party. Outgoing. Indicates the information belonging to the call leg of the called party/ service.

The Service Call Details Window



Incoming number. The service number, i.e. the number an external user dialed to get access to a portal service.

Service. Indicates the service name, i.e. DID. IVR. TMS Phonebook. Menu.

Duration. Indicates the duration of the call in hours, minutes and seconds.

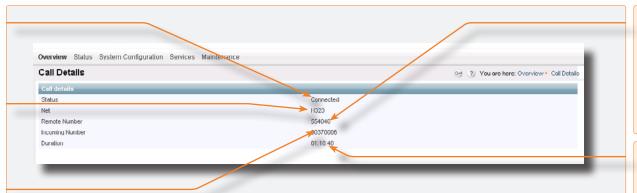
Details. Remote numbers of the Incoming calls are the numbers of the calling party and remote numbers of the Outgoing calls are the numbers of the called party or service. Clicking View details reveals the Call Details, i.e. details belonging to the respective call leg.

When View Details Has Been Selected

Status. Either alerting, connected or disconnected.

Net. Indicates the net type, i.e. H.323, H.324m, SIP or Streaming.

Incoming Number. Service number; can only be represented for inbound call legs.



Remote Number. For inbound call legs it represents the number of the calling party, for outbound call legs it represents the number of the called party or service

Duration. Duration of this call leg in hours, minutes and seconds.

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Call Setup via Default Services

About Default Services

The Entrypoint 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 Dialling (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.
- Menu service A menu based call directory.
- TMS Corporate Directory (phone book) A connection with the installed TANDBERG Management System (TMS) phone book is set up. Via the phone book menu an outbound call to another endpoint, e.g. a 3G Mobile, H.323 or SIP endpoint, can be set up.

DID - Direct Inward Dialling

Example Hotline

Entry details: Enabled: Check

Name: H.324m-H.323 Net Type: H.324m Prefix: 67890000

Suffix:

Service Type: Direct Inwards Dialling

Arguments: Net Type: H.323

AV Mode: Auto + fallback to audio

Prefix: 51234 Suffix

Use Remainder: No Allow Forwarding: No

When dialling number 67890000 this will match without leaving a remainder. The H.323 number that will be connected to will be: 51234 (construction: prefix). When dialling number 67894321 there will be no match. When dialling number 678900009876 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!

Dial Extension (IVR) Example

Example

- 1. A 3G handset user calls a Dial Extension service number.
- 2. The Entrypoint activates the Welcome screen and sound.
- 3. The Entrypoint, when set in the dial plan, shows the DTMF Information screen.
- 4. The 3G handset user enters the extension (H.324m, H.323 or SIP alias) followed by the # (pound-sign) to indicate end of number.
- 5. The Entrypoint starts to call the endpoint and the Connecting picture and sound are activated.
- 6. When the call is connected audio and video are transmitted through the Entrypoint.



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Dialling from UMTS – Using Phone Book

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

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.
- 2. 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 (*) key on the keypad is used as backspace.









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string.

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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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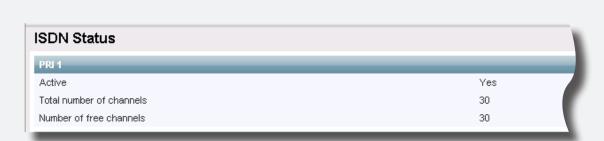
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ISDN/PRI Status (PRI Versions only)





Select PRI Status to access the PRI Status pane.

The PRI status indication consist of 3 fields (see About the Rear Panel LED Operation below for PRI status):

- Active Indicates weather the PRI port is active or not.
- Total number of channels indicates the maximum available number of simultaneous ISDN slots (calls) per port; typically 30 for an E1 PRI and 8 for an E1 BRI.
- Number of free channels indicates the number of free Bchannels on ISDN.
- To view the ISDN PRI status, select the ISDN status item of the Status tab.

About the Rear Panel LED Operation

In addition to the web page indications, the ISDN interface also contains 4 LEDs, located at the Entrypoint rear panel.

These LEDs indicate the following PRI status:

- Green: Normal operation
- Red Alarm or Loss of signal (LOS) indicates that there is no signal and thus no framing info received. A defect or unplugging the PRI cable will produce the same effect.
- Yellow Alarm or Remote Alarm Indicator (RAI) means that the Entrypoint is receiving framing info, but in this framing info the other side tells the Entrypoint that it is not reading the Gateway's transmitted framing info. 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.

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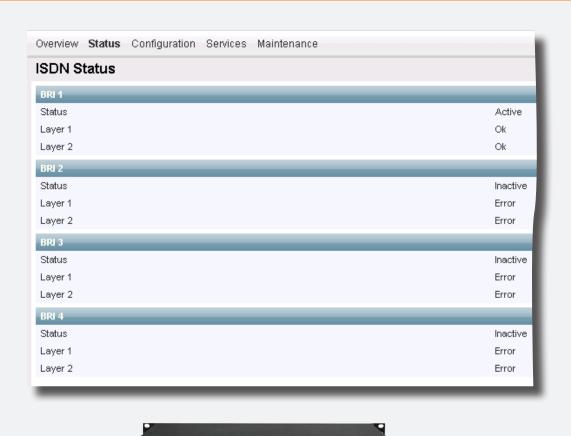
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ISDN/BRI Status (BRI Versions only)



Select ISDN/BRI Status to access the ISDN/BRI Status pane.

BRI hardware status indication

The screenshot shows the status page of a BRI version of the Entrypoint. The BRI status displays the conditions of ISDN layer 1 and 2 separately. Green indicates up and in sync. Red indicates not in sync and indicate probably a disconnected ISDN line.

Besides the indications on the webpage each ISDN BRI interface located at the back-side of the Entrypoint has a green and orange LED. The meanings of these LEDs are:

- Green: Layer 1 of the ISDN signalling is up.
- • Green and Orange. This indicates that both layers 1 and 2 are up. In some countries the orange LED can blink on a regular interval, or is turned on when there is an active call.
- No LED's illuminate. This indicates that there is no connection or a wrongly wired connection.



In some countries layer 2 can be down when there is no activity (ongoing connections).

However, layer 2 should become active once a call is made or received.



In case the BRI Entrypoint is connected with less than 4 BRI lines, the BRI interfaces with the highest number(s) should be left open. For example when only 2 ISDN lines are used they should be connected with interface 1 and 2.

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H.323 Gatekeeper Status

About H.323 Status

H.323 Gatekeeper Status shows the current status of the Gatekeeper registration. To view H.323 gatekeeper status, as indicated in the screenshot shown here, select H.323 Status item of the Status tab.

Registration Status Registered



Registration Status. If Registered, the Entrypoint is registered to the Gatekeeper with below mentioned Address and Port.

IP Address. Shows the IP address of the Gatekeeper.

Port. Shows the destination port number on the Gatekeeper.

Registration Status Inactive



In case the Entrypoint is in direct mode or in case the gatekeeper IP address is filled in incorrectly, the Entrypoint will not be registered with the Gatekeeper, and the Registration status is stated as Inactive.

Registration Status Rejected

TANDBERG Entrypoint

Overview Status System Configuration Services Maintenance

H.323 Status

H.323 Status

Rejected

Rejected

Rejected

Registration status will show Rejected when:

- Gatekeeper unreachable; the Entrypoint's H.323 stack returns this reject message in case the gatekeeper is down.
- Duplicate alias; a system with an identical name has already been registered.
- Authentication failure; Authentication ID and/or Authentication Password are incorrect.

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Note that, since this

target system is not

an endpoint it is not

possible to use its IP

address to place calls to or through the Entrypoint!

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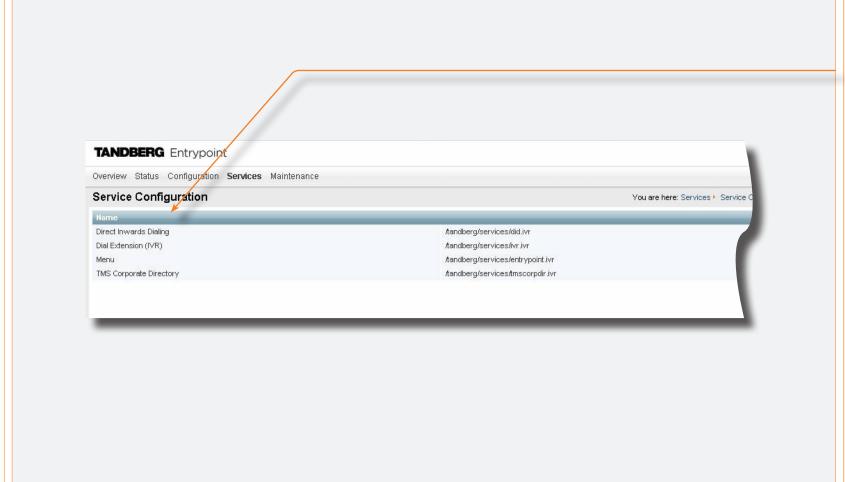
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The default services, which come standard with an Entrypoint system, are:

- Direct Inwards Dialling
- IVR
- TMS Corporate Directory
- Entrypoint Service

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Select System Information to access the System Information pane.

This pane provides an overview of installed software and hardware.

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To view available resources of the Entrypoint, open System Resources of the Status tab, as shown here.

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This menu item shows the amount of active sessions. i.e. video and audio calls on this system. The system load percentage indicates the processor load.

These figures depend on the system's use of resources. The use of Call Forwarding in dial plans reduces system load and therefore increases the number of simultaneous calls.



A System Load of 0% indicates no load on the Entrypoint!

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Configuring the Entrypoint

To configure the Entrypoint, hover with the mouse pointer over the System configuration to produce a drop-down menu. The drop-down menu consists of 6 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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ISDN/PRI Configuration (ISDN/PRI Versions only)

PRI Interface Configuration.

Indicates the lowest numbered E1/T1 B-channel the system is allowed to use for each PRI-line when selecting channels for outgoing calls. Not in use in this version.

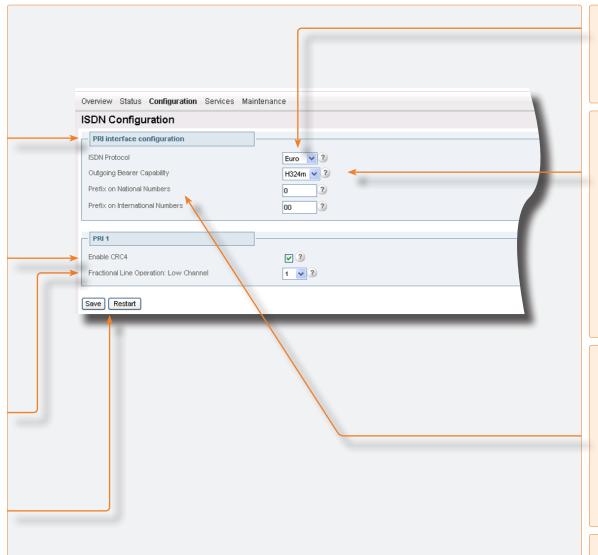
Enable CRC-4. Used for most E1-PRI configurations. If your network equipment does not support this feature, switch off PRI CRC-4.

Fractional line operation:

Low Channel. Indicates the lowest numbered E1/ T1 B-channel the system is allowed to use for each PRIline when selecting channels for outgoing calls. Presently, this setting has no effect.

Save. When all settings are entered, click on Save to store the new settings.

Note that changing from E1 to T1 configuration requires a restart of the unit (click Restart to restart the unit).



PRI Protocol. Select between the following PRI protocols:

- NI (National ISDN)
- ATT (AT&T Custom)
- Euro (ETSI = Euro ISDN)
- Japan (Japan/Taiwan ISDN)

Outgoing Bearer capability

Within ISDN different bearer capabilities are used to signal the type of data (Voice, Data, H320, H.324M), which is used by telephony switches and other equipment to determine how to handle data or calls (compressing voice data neglect etc). The outgoing bearer capability sets the ISDN bearer capability for the outgoing telephone (voice only) and video telephone calls.

- H.324M: This ITU standardized capability is selected for outgoing calls by default.
- UDI: In some situations the switch does not accept calls which use the correct H.324M capability. This setting makes it possible to use the Entrypoint in these situations via selecting UDI.
- Prefix on National/International Numbers
- Specifies the prefix, which has to be added to National and International numbers, respectively.
- The signalling specifies whether the call is national or international. Since these prefixes are removed from inbound telephone numbers, the correct prefixes have to be added on call-backs.

These settings only apply if the Service providers network uses prefixes for national and international calls.



All incoming calls are accepted independent of their bearer capabilities, consequently audio calls are accepted as well.

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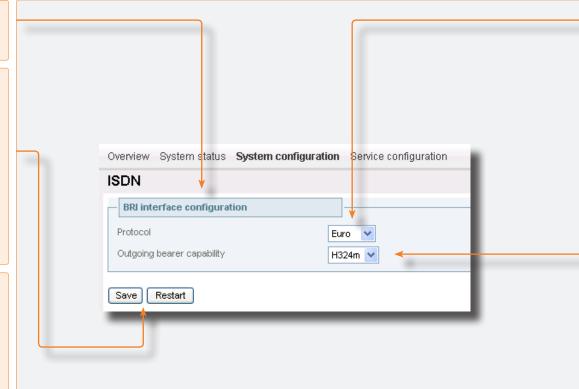
Dial Plan Examples

ISDN/BRI Configuration (ISDN/BRI Versions only)

Select BRI to access the BRI Configuration pane.

Save. When all settings are entered, click on Save to make the new settings become effective.

You cannot configure ISDN BRI lines for special functions like dial out only! The 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! Contact your ISDN or telecom supplier about numbering plans of ISDN lines.



BRI Protocol. Select between the following BRI protocols:

- ETSI (Euro ISDN)
- National ISDN
- AT&T Custom
- Japan/Taiwan ISDN

Outgoing Bearer capability. Within ISDN different bearer capabilities are used to signal the type of data (Voice, Data, H320, H.324M), which is used by telephony switches and other equipment to determine how to handle data or calls (compressing voice data neglect etc). The outgoing bearer capability sets the ISDN bearer capability for the outgoing telephone (voice only) and video telephone calls.

- H.324M: This ITU standardized capability is selected for outgoing calls by default.
- UDI: In some situations the switch does not accept calls which use the correct H.324M capability. This setting makes it possible to use the Entrypoint in these situations via selecting UDI.



All incoming calls are accepted independent of their bearer capabilities, therefore audio calls are accepted as well.

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IP Configuration

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

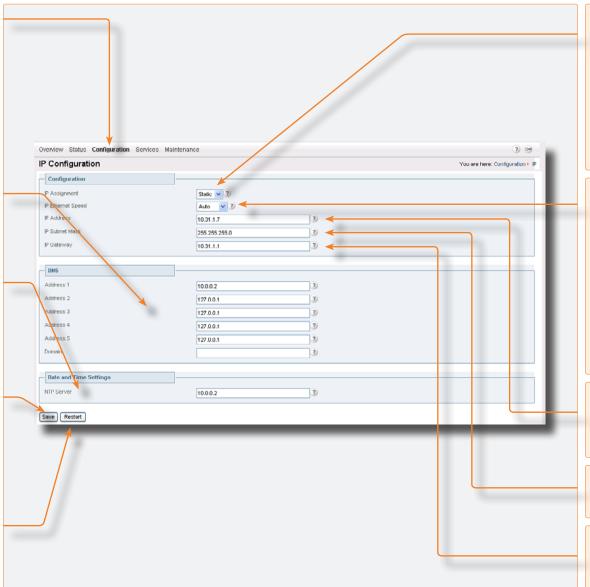
DNS Interface

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 Entrypoint 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 Entrypoint. Any changes made in the IP Configuration of the Entrypoint will take effect after the system has been restarted.



IP Address Assignment is DHCP or Static:

- DHCP: Dynamic Host Configuration Protocol can be selected when a DHCP server is present. Static IP Address, Static IP Subnet Mask and Static IP Gateway are ignored because these parameters are assigned by the DHCP server.
- Static: If Static assignment is used, the Entrypoint's IP address, IP subnet mask, and the Gateway's IP address must be specified in the respective IP address fields.

IP Ethernet Speed provides five settings to choose from:

- Auto The Gateway will negotiate detect the speed and duplex on the LAN.
- 10Half The Gateway will connect to the LAN using 10 Mbps/Half Duplex.
- 10Full The Gateway will connect to the LAN using 10 Mbps/Full Duplex.
- 100Half The Gateway will connect to the LAN using 100 Mbps/Half Duplex.
- 100Full The Gateway will connect to the LAN using 100 Mbps/Full Duplex.

IP Address. The Static IP Address defines. the network address of the Entrypoint. This address is only used in static mode. Your LAN administrator will provide you with the correct address for this field.

IP Subnet Mask, The Static IP Subnet Mask defines the type of network. Your LAN administrator will provide the correct value for this field.

IP Gateway. The Static Gateway IP address is set to 127.0.0.1 by default. In case of a router enter its address here. Your LAN administrator will provide the correct value for this field.

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H.323 Configuration

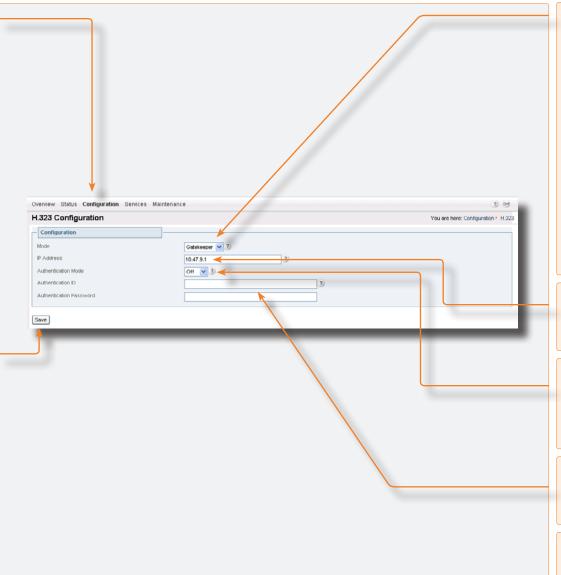
Select H.323 to access the H.323 Configuration pane.

When registered with a gatekeeper, the H.323 Status shows Registered, the gatekeeper's IP address and the Port used (see also Status, H.323 Status).

Dialling out from IP to IP or ISDN, through the Entrypoint, requires the use of H.323 numbers (E.164 aliases and service prefixes). This means that the Entrypoint must be registered to a gatekeeper; select the H.323 menu item in the Configuration menu.

Save. When ready to store the new settings, press Save.

In case password is not set/configured/inserted, the Entrypoint will still use the Authentication ID to register with the gatekeeper. However, when the Authentication ID is left "unused". the System Name field, will be used to register the Entrypoint with the gatekeeper instead. In case both the Authentication ID field and the System Name field are "unused" the Entrypoint can not be registered with the gatekeeper.



Mode. Enables the Entrypoint to register with a gatekeeper or leave it unregistered, i.e. in direct mode. Make sure that System Name is always set in direct mode. When registered with a gatekeeper, the H.323 Status shows Registered, the gatekeeper's IP address and the Port used.

When the registration fails, the Registration status will be rejected. Three cases can be distinguished:

- Gatekeeper unreachable; the Entrypoint's H.323 stack returns this reject message in case the gatekeeper is down.
- Duplicate alias; a system with an identical name has already been registered.
- · Authentication failure; Authentication ID and/or Authentication Password are incorrect.

Selecting direct mode will result in no gatekeeper registration; hence it is not possible to dial through the Entrypoint via alias names. The H.323 Status shows Inactive.

IP Address. Enter the Gatekeeper IP address that the Entrypoint should register to. Leaving this empty will result in direct dialling without the use of aliases.

Authentication Mode is Off or Auto.

- Off. Register to the Gatekeeper without authentication.
- Auto. Register to the Gatekeeper with H.235 authentication using ID/Password given below.

Authentication ID and Password. Enter the ID and password required to perform H.235 authentication at the Gatekeeper. To register with a Gatekeeper that requires authentication, an NTP server has to be configured.



If the Gatekeeper is configured with an alternative Gatekeeper, the Status area alternative Gatekeeper, the Status area may report a registration to the IP address of the alternative Gatekeeper.

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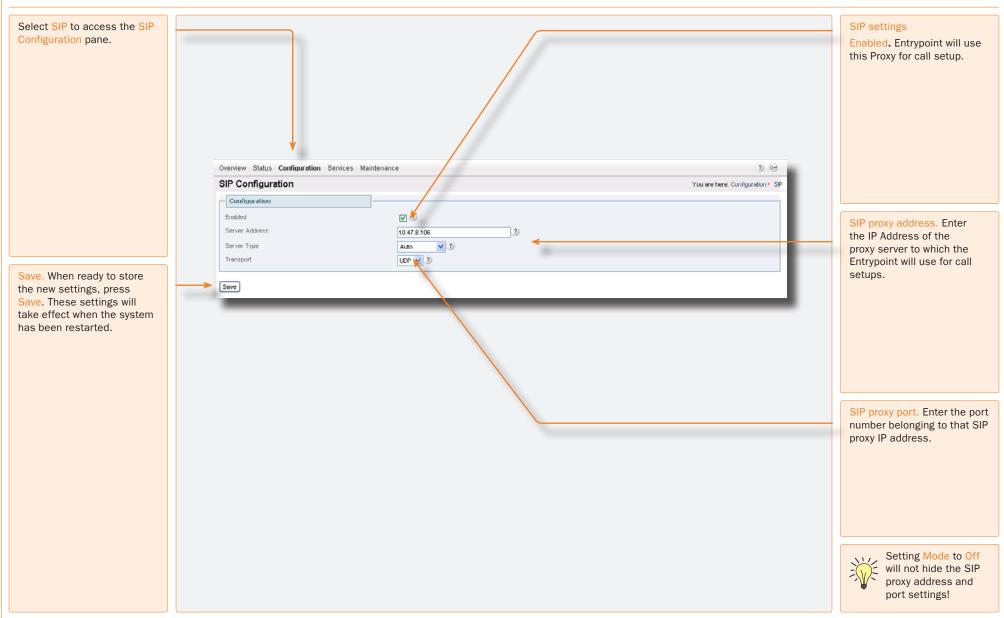


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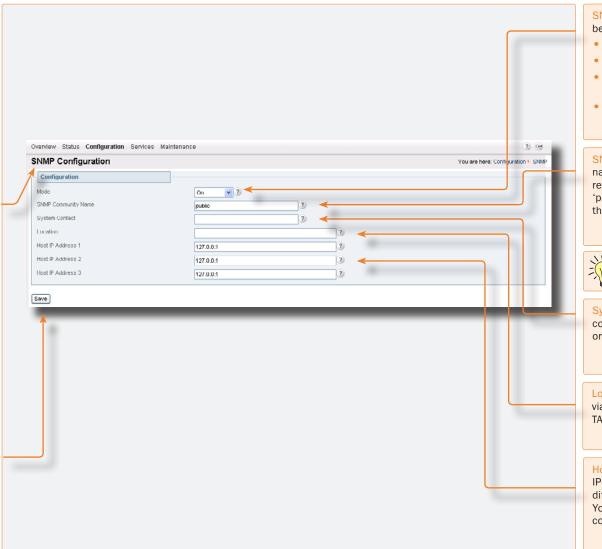
Examples

SNMP Configuration

SNMP (Simple Network Management Protocol) is used for monitoring and configuring different units in a network. The Entrypoint's SNMP Agent responds to requests from SNMP Managers (a PC program etc.). SNMP traps are generated by the agent to inform the manager about important events.

Select SNMP to access the SNMP Configuration pane.

Save. Press Save to activate new settings.



SNMP Mode. The SNMP operation modus can be set to:

- On. Turns SNMP On
- Off. Turns SNMP Off
- ReadOnly. Do not send SNMP information to the host
- TrapsOnly. Only send SNMP information identified as TRAPS to the host.

SNMP Community name. SNMP Community names are used to authenticate SNMP requests. SNMP requests must have this 'password' in order to receive a response from the SNMP agent in the Entrypoint.



The SNMP Community name is case sensitive!

System contact. Used to identify the system contact via SNMP tools such as HPOpenView or TANDBERG Management Suite.

Location. Used to identify system location via SNMP tools such as HPOpenView or TANDBERG Management Suite.

Host IP Address (1, 2 and 3). Identifies the IP-address of the SNMP manager. Up to three different SNMP Trap Hosts can be defined. Your LAN administrator should provide the correct values for these fields.

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To configure the miscellaneous settings on the Entrypoint, select the System Configuration item.

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 Entrypoint. Any changes made in the IP Configuration of the Entrypoint will take effect after the system has been restarted.



Configuration. To change the system name of the Entrypoint, enter the new system name in the System Name field.

Note that when the Authentication ID in the H.323 link is left empty, the System Name field will be used to register the Entrypoint with the gatekeeper in stead. In case both the Authentication ID field and the System Name field are left empty the Entrypoint can not be registered with the gatekeeper.

Services. The different IP services on the Entrypoint - Telnet, SSH, HTTP and HTTPS, can be disabled independently to prevent access to the system. Moreover, with Session Time Out, a maximum login time can be set.

External Manager settings. To enable cooperation between the Entrypoint and an external TANDBERG Management System (TMS) enter both its IP address and its path.

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TANDBERG ENTRYPOINT USER GUIDE 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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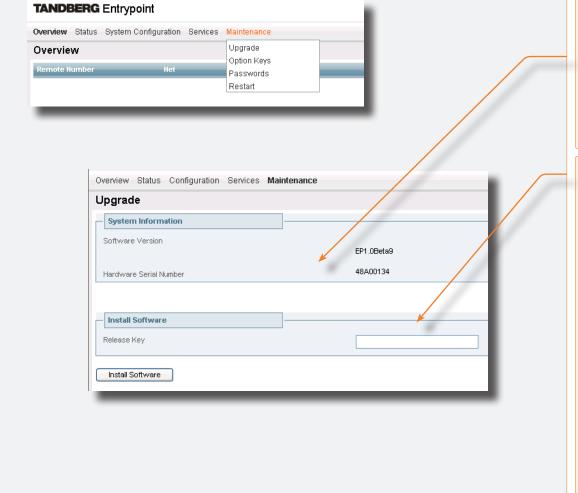
Maintenance - General

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

To upgrade the Entrypoint, a valid Release key and Software file are required. However, for dot-release upgrades a Release Key won't be needed.

To expand software options additional Option keys are required. Contact your TANDBERG representative for more details.



System Information

- Software Version. Shows the currently installed Software version.
- Hardware Serial Number. This unique identifier number for the Entrypoint must be provided when ordering Software Upgrades and Option Keys.

Release Key. Needed to upgrade a system to a new version. Dot releases do not require an option key.

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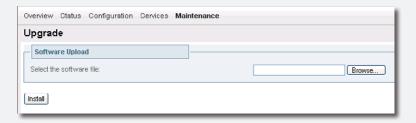
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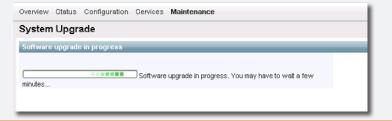
Maintenance – Upgrading the System

Upgrading the System

Once you have entered the release key in the Release Key field (see the previous page) and pressed Install Software a new window will appear, which enables the entry of the software package, i.e. a .pkg, file to be uploaded For dot release upgrades a Release Key won't be needed.



After the .pkg file has been selected, this will be uploaded into the flash memory of the Entrypoint.



After the upload has been completed, this message is shown.



4 This screen appears after clicking the Restart System button.

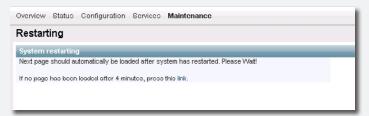


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Maintenance – Option Keys, Password and Restart

Option Keys To expand software options additional Option keys are required. Contact your TANDBERG representative for more details. Overview Status Configuration Services Maintenance Option Keys Passwords Overview Status Configuration Services Maintenance Overview Status Configuration Services Maintenance Passwords Restart Restart Coll Stortus:

Save Restart

Overview Status Configuration Services Maintenance

Restart

Restart

Coll Status:

There are 0 cells active

Add Option key. Enter the supplied option keys and press Add Option.

Key. Shows the option-key number.

EP1 ((Beta9

48A00134

Description. Shows the software function belonging to the key number. Forgot the password? Use the following procedure to set a new password:

- Reboot the Entrypoint and connect to the Entrypoint 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 Entrypoint 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.

W

New options take effect after the next restart only.

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Services

On Entrypoint systems dial plans can be configured with default services. Four default services can be distinguished:

- · Direct Inwards Dialling
- Dial Extension (IVR)
- Menu
- 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.

A dial plan can be configured around one of the default services. To configure a dial plan select the Dialplan Configuration item.



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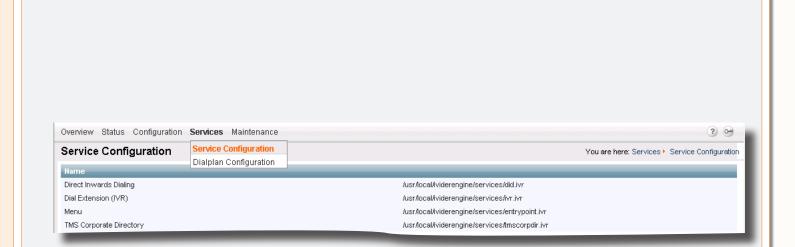
Dial Plan Examples

About Default Services

The Entrypoint 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 Dialling (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.
- Menu Service. A menu based call directory.
- 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.



The Service Configuration Window

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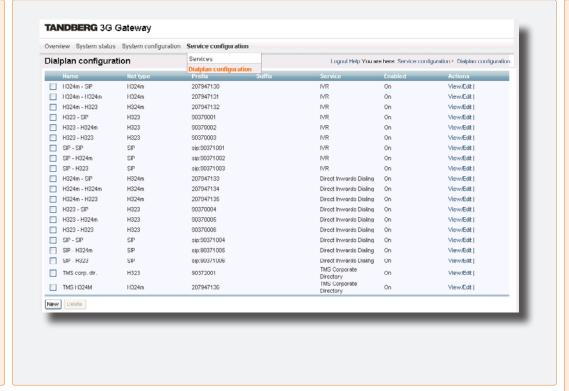
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Dialplan Configuration

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



In the dialplan: 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.

Example:

An existing dialplan entry:

name: Test 123 nettype: SIP

prefix: 12@10.47.8.74"

service: F00

Is changed to:

name: Test 123 nettype: All

prefix: "12@10.47.8.74"

service: F00

The H.323 registration will now fail, because"12@10.47.8.84" is not a

valid H.323 prefix

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 Dialling
- Dial Extension (IVR)
- Menu
- TMS Corporate Directory (Phone book)

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

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 prefixis 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).
- Service. Select one of the services as configured in the Services menu item (see the previous page for more on this).

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Argument Details for the Default DID Service

DID Argument Details

Use Remainder. Specifies whether a particular part, i.e. the remainder, of the inbound number will be used to form a part of the outbound number.

For a remainder to become non-zero a specified inbound Prefix has to match the first part and/ or a specified inbound Suffix has to match the last part of an inbound number, however individually or combinations of both never fully match the complete inbound number.

Both inbound Prefix and Suffix can be defined under Dialplan entry details. When Use Remainder, is active the previously mentioned "remainder" will be appended to and precede the Prefix and the Suffix of the outbound number, respectively. The outbound Prefix and Suffix precede and append, respectively, the "remainder" as to form the complete outbound number.

The latter prefix and suffix can be defined under Arguments, Prefixes and suffixes are standard parameters of dial plans.

Suppose, as an example, in the Dialplan entry details the inbound Prefix equals 9876 and inbound suffix equals 54. In the Arguments settings the outbond prefix equals 1234. For an inbound connection to phone number 9876154 the Entrypoint will strip the prefix 9876 and the suffix 54 from the called number. hence the remainder equals 1. For the outbound connection the Entrypoint will add the prefix (configured in arguments) in front of the remainder, hence the outbound number equals 12341.

For the same settings with an inbound number 9876254 results in an outbound number 12342. In case the prefix and/or suffix fully match the inbound number the remainder will be empty and the useremainder value will be ignored.

Allow forwarding must be switched off when using the Secretary functionality! The Secretary functionality will be discussed in the examples.

Suffix. Specifies the last part, i.e. the part appended to the remainder, of the Outbound number. The outbound suffix can be defined under Arguments.

Prefix. Specifies the first part, i.e. the part preceding the remainder, of the outbound number. The outbound prefix can be defined under Arguments.

Overview Status Configuration Services Maintenance Dialplan Details Dialplan entry details Enabled V 3 Name H323 - H323 Net Type H323 V 3 Prefix 90370006 Suffix Service Direct Inwards Dialing Arguments H323 Net Type AV Mode Auto + fallback to audio Prefix Suffix ? Yes V ? Use Remainder Allow Forwarding No V ? Use Sub Number No V Media Sources Save

Allow forwarding. After call setup the call is offloaded from the Entrypoint system, i.e. not routed via the Entrypoint system any longer, to free resources.

Use sub number. The sub number is a number extension following the main number separated from the main number by an *. In this way a number plan behind a main number can be reached directly.

No Media Sources can be added to DID service.

Net type. Either H.324m, H.323 or SIP of the outbound call.

AV mode. This mode determines the outbound audio and video call settings. It is either Audio Only, Audio + Video, Auto(matic) no fallback to audio. Auto + fallback to audio and Auto + always fallback to audio.

- In the Audio Only mode a voice call is being setup. even when all endpoints support both audio and video capabilities. Note that this setting will be overruled in case Allow Forwarding is set to Yes and both endpoints possess audio and video capabilities.
- In the Audio + Video mode a call is only being setup when endpoints support both audio and video capabilities and a call with both these capabilities can be set up.
- In the Auto mode a call is being setup according to the capabilities of the endpoints. Of the latter, 3 versions can be distinguished: no fallback to audio, fallback to audio or always fallback to audio.
- In the no fallback to audio case either an audio + video or an audio only call is being setup, depending on the capabilities choice of the initiating endpoint, i.e. when an audio + video call is being set up, whereas the receiving endpoint only supports audio, the call is terminated.
- In the fallback to audio case capabilities can be changed to an audio only call when the receiving endpoint supports only audio, even when an audio + video call is being set up by the initiating endpoint.
- The always fallback to audio case is used in case the telephony switch interferes or cannot handle capability renegotiation, therefore when an audio + video call fails automatically an audio call will be set up.

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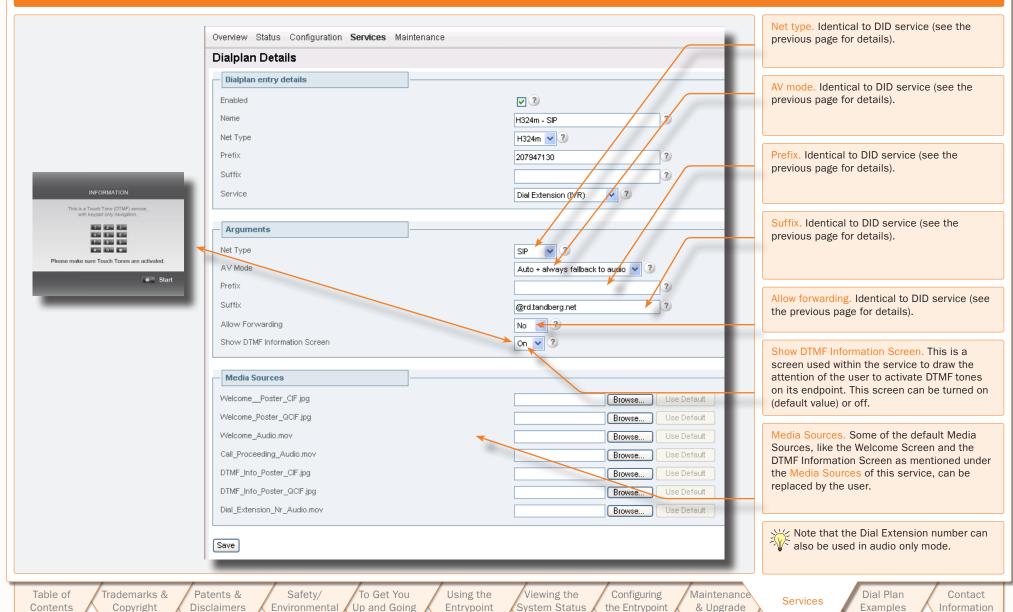
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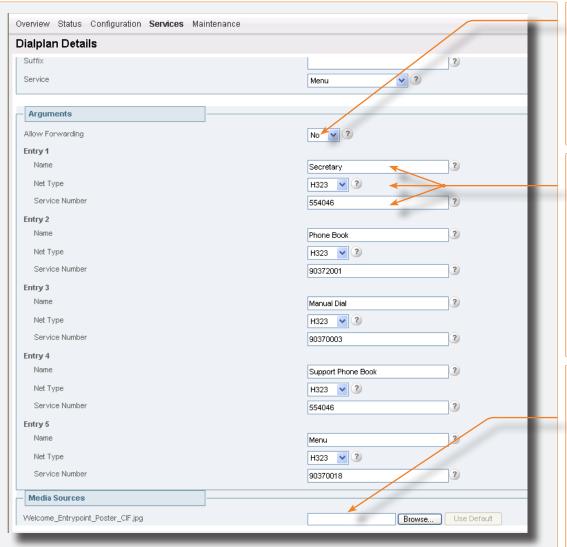
Argument Details for a Default IVR Service

IVR Argument Details



Argument Details for a Default Menu Service

Menu Service Argument Details



Allow forwarding. Identical to DID service – see two pages back for details.

Entry [1 - 5]. For each of the five entries in the menu a number of three items can be configured:

- Name. Name of the service as depicted in the menu.
- Net type. Call type of the outbound call
- Service number. The outbound call number dialled on selection of the respective menu item.

Media Sources. Some of the default Media Sources, like the Welcome Screen the DTMF Information Screen and the audio file belonging to the main menu, as mentioned under the Media Sources of this service, can be replaced by the user. Replacing the latter mentioned audio file enable the possibility to use the Menu service in audio only mode as well. The entries within a Menu service can also be used to link to another Menu service.

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TMS Corporate Directory Argument Details

Dialplan Details	
Dialplan entry details	
Enabled	
Name	TMS corp. dir.
Net Type	H323 ▼ ③
Prefix	90372001 TMS address. IP address of Tandberg
Suffix	Management System (TMS).
Service	TMS Corporate Directory Allow forwarding. Identical to DID ser
Arguments	details, see three pages back.
TMS Address	10.47.1.10
Allow Forwarding	No Show DTMF Information Screen. Iden
Show DTMF Information Screen	On V 2 Dial Extension (IVR) service.
AV Mode	Auto + fallback to audio
	AV mode. Identical to DID service – for see three pages back.
- Media Sources	See three pages back.
Call_Proceeding_Audio.mov	Browse Use Default
WelcomePoster_CIF.jpg	Browse Use Default
Welcome_Poster_QCIF.jpg	Browse Use Default Media Sources. Some of the default
Welcome_Audio.mov	Browse Use Default Sources, like the Welcome Screen, the Information Screen and the Please w
Please_Wait_MovieH263.mov	as mentioned under the Media Source
DTMF_Info_Poster_CIF.jpg	Browse Use Default service, can be replaced by the user.
DTMF_Info_Poster_QCIF.jpg	Browse Use Default

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

Entry details: Enabled: Check

Name: H.324m-H.323

Net Type: H.324m Prefix: 6789

Suffix: Service: Direct Inwards Dialling

Arguments: Net Type: H.323

A V Mode: Auto + fallback to a

Prefix: 5

Suffix: Use Remainder: Yes

When dialling 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 dialling 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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About the 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.323
- 7. SIP-SIP
- 8. SIP-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.

DID Dial Plan Examples

Suffix

Example 1: Number-plan mapping

Entry details: Enabled: Check

Name: H.324m-H.323 Net Type: H.324m Prefix: 6789

Suffix: Service: Direct Inwards Dialling

Arguments: Net Type: H.323

A V Mode: Auto + fallback to audio

Prefix: 5
Suffix: Use Remainder: Yes
Allow Forwarding: No

When dialling 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 dialling 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 Dialling

Arguments: Net Type: H.323

A V Mode: Auto + fallback to audio Prefix: 51234

Prefix: 512
Use Remainder: No
Allow Forwarding: No

When dialling number 67890000 this will match without leaving a remainder. The H.323 number that will be connected to will be: 51234 (construction: prefix). When dialling number 67894321 there will be no match. When dialling 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!

Example 3: H.323 to H.323 Secretary Functionality

Entry details: Enabled: Check

Name: Secretary
Net Type: H.323
Prefix: 986521

Suffix: Service: Direct Inwards Dialling

Arguments: Net Type: H.323

A V Mode: Auto + fallback to audio

Prefix: (See note below)

Suffix: Use Remainder: No

Allow Forwarding: No (Must be "No" for the secretary

option to work properly

For example when dialling number 986521 on an H.323 endpoint, one is connected to a secretary. She or he can connect you to another endpoint by dialling this endpoint number terminated with the # sign.

Note: The E.164 alias to the secretaries video system has to be configured in the prefix field in arguments for this service to work

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Dial Extension (IVR) 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:

- 1. An endpoint user calls a Dial Extension service number.
- 2. The Entrypoint activates the Welcome picture and sound.
- 3. The Entrypoint, when set in the dial plan, shows the DTMF Information screen.
- 4. The endpoint user enters the extension (H.324m/H.323/SIP alias) followed by the # (pound-sign) to indicate end of number.
- 5. The Entrypoint starts to call the endpoint and the Connecting picture and sound are activated.
- 6. When the call is connected audio and video are transmitted through the Entrypoint (SIP to SIP calls and H323 to H323 calls will only go through the Entrypoint when Allow Forwarding is set to No).

It is not possible to configure ISDN BRI lines for special functions like dial out only. The Entrypoint 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.

Dial Extension (IVR) Dial Plan Examples

Example 4: 3G to H.323 IVR

Entry details: Enabled: Check

> 3G-H.323-IVR Name: Net Type: H.324m Prefix: 123478 Service Type: Dial Extension

Arguments: Net Type: H.323 A V Mode: Auto

Prefix:

Suffix:

Suffix: Allow Forwarding: No

When dialling number 123478 on a 3G handset, one is connected to an IVR service, from which an H.323 endpoint number can be entered.

Example 5: 3G to H.323 via a Phone book

Entry details: Enabled: Check

> Name: 3G-H.323- Phonebook

Net Type: H.324m Prefix: 123489

Suffix: Service Type: TMS Corporate Directory

Arguments: Net Type: e.g. H.323

A V Mode: Auto

Prefix:

Suffix: Allow Forwarding: No

When dialling number 123489 on a 3G handset, one is connected to an TMS Corporate Directory, from which an H.323 or SIP endpoint can be selected. Note that the Net Type to be selected in arguments is irrelevant, since the endpoint to be called is selected from a phone book.

Example 6: 3G to SIP IVR

Entry details: Enabled: Check

3G-SIP-IVR Name: H.324m Net type: Prefix: 1234790 Dial Extension Service type:

Arguments: Net Type: SIP A V Mode:

Prefix: Suffix:

Suffix:

@<SIP_Proxy_Address or Registrar_Address>

Auto

Allow Forwarding: No

When dialling 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.

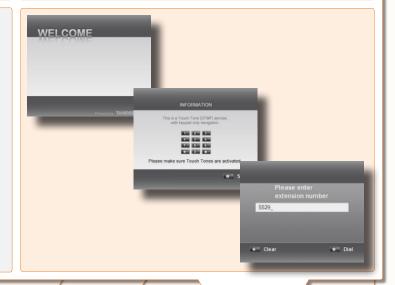


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Secretary Service

The secretary service enables a caller (Alice) to be relayed to a callee (Bob) via a third party (Secretary).

Alice calls either via a DID, Dial Extension, Menu or Phone book service a secretary (No. 9876 in this example).

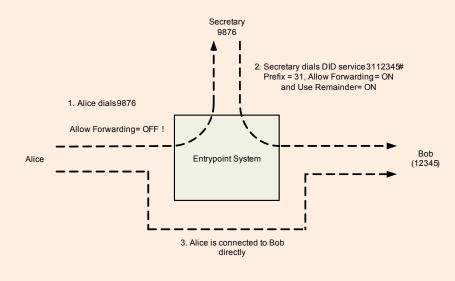
Make sure that for the inbound call party, i.e. Alice, the Allow Forwarding is set to Off, otherwise the call will be offloaded from the system, i.e. Alice is connected to the secretary directly, which disables the influence of the Entrypoint system on this service.

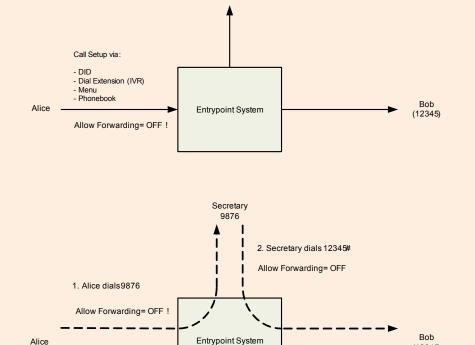
The secretary relays the call to Bob by dialling Bob's number followed by the pound sign, i.e. #. In this example 12345# Now the call is automatically redirected to Bob. In case for the outbound call Allow Forwarding is also set to Off Alice is connected to Bob via the Entrypoint box and therefore using resources, i.e. increasing processor load.

The processor load can be reduced by offloading the call from the system. Alice will be connected to Bob directly, without intervention of the Entrypoint system, by setting Allow Forwarding and Use Remainder to On for a

specially for this purpose configured outbound did service: let this DID service start with a Prefix (31 in this example). To connect Alice with Bob the secretary therefore has to dial Prefix + Bob's number (3112345 in the example).

Offloading the Entrypoint system:





Secretary

9876

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3. Alice is connected to Bob via the Entrypoint system

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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.

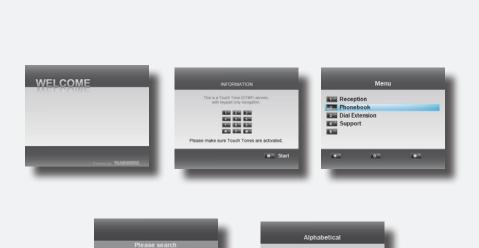
The TMS Corporate Directory service searches and displays entries matching the user input string. A maximum of 6 entries per page are displayed.

One can browse back and forth through the pages by pressing the *button or the #button, respectively. With the O 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 one 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 dialling of the outbound number will be commenced immediately.



If the above left search field is left empty and Search (lower right corner) is clicked on, the alphabetical search as shown to the right will be displayed.

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