

TANDBERG

Video Portal

User Manual



Software version V2
D1392501

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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

- TANDBERG's Research and Development is continuously improving TANDBERG's products towards less use of environmentally hazardous components and substances as well as to make the products easier to recycle.
- TANDBERG's products are Communication Solutions. The idea of these solutions is to reduce the need for expensive, time demanding and polluting transport of people. Through people's use of TANDBERG's products, the environment will benefit from less use of polluting transport.
- TANDBERG's wide use of the concepts of outsourcing makes the company itself a company with a low rate of emissions and effects on the environment.
- TANDBERG's policy is to make sure our partners produce our products with minimal influence on the environment and to demand and audit their compatibility according to applicable agreements and laws (national and international).

Environmental Considerations

Like other electronic equipment, the TANDBERG Video Portal contains components that may have a detrimental effect on the environment. TANDBERG works continuously towards eliminating these substances in our products.

- Printed-wiring boards made of plastic, with flame-retardants like Chloride or Bromide.
- Component soldering that contains lead.
- Smaller components containing substances with possible negative environmental effect.

After the product's end of life cycle, it should be returned to authorized waste handling and should be treated according to National and International Regulations for waste of electronic equipment.

Operator Safety Summary

For your protection, please read these 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.

Warnings

- Caution risk of explosion if battery is replaced by an incorrect type. Dispose of used batteries according to the instructions.
- Water and moisture - Do not operate the equipment under or near water - for example near a bathtub, kitchen sink, or laundry tub, in a wet basement, or near a swimming pool or in areas with high humidity.
- Cleaning - Unplug the apparatus from the wall outlet 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. Install in accordance with the installation instructions. 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.
- Grounding or Polarization - Do not defeat the safety purpose of the polarized or grounding-type plug. A polarized plug has two blades with one wider than the other. A grounding type plug has two blades and a third grounding prong. The wide blade or third prong is provided for your safety. If the provided plug does not fit into your outlet, consult an electrician.
- Power-Cord Protection - Route the power cord so as to avoid it being walked on or pinched by items placed upon or against it, paying particular attention to the plugs, receptacles, and the point where the cord exits from the apparatus.
- Attachments - Only use attachments as recommended by the manufacturer.
- Accessories - Use only with a cart, stand, tripod, bracket, or table specified by the manufacturer, or sold with the apparatus. When a cart is used, use caution when moving the cart/apparatus combination to avoid injury from tip-over.
- Lightning - Unplug this apparatus during lightning storms or when unused for long periods of time.
- 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.
- Damaged Equipment - Unplug the apparatus from the outlet and refer servicing to qualified personnel under the following conditions:
 - When the power cord or plug is damaged or frayed
 - If liquid has been spilled or 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, or the cabinet has been damaged
 - If the apparatus fails to operate in accordance with the operating instructions

Contact us

If you have any questions, comments or suggestions, please see the [Online Support](#) service at www.tandberg.net.

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1 Introduction

The TANDBERG Video Portal enables interactive menu driven content access and call routing from endpoints and UMTS handsets. A Video Portal can operate either standalone or in tandem operation with a TANDBERG 3G Gateway. To connect a Video Portal to the UMTS network it has to operate in tandem with a TANDBERG 3G Gateway.

IP Services and Procedures

- SIP and H.323 dial in
- Load balance

UMTS Services

The TANDBERG Video Portal offers a variety of interactive dial-in services:

- Content retrieval – content selection from a video menu via DTMF interaction
- Direct Content Dialing – retrieve live or stored content based upon the dialed number
- Interactive Video Response (IVR) – select an endpoint (SIP, H323 or mobile) based upon numbers shown in a menu or address book type of services.

Security

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

Video Quality

- H.263 and MPEG-4 simple profile 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 H324M video telephony capable handsets which support 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 Video Portal.

HTTP Web-interface for system management, call management such as call transfer, 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 sub layer 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

- Up to 120 video sites can be connected at the same time.
- Call rate of 64 kbit on ISDN side, through the TANDBERG 3G gateway, and 109kbps on IP side for each call is supported.
- Video IVR.
- Selecting IP endpoint from address book.

1.1 The TANDBERG Video Portal

Front view

The front panel provides 4 LAN interfaces, an LCD display, RS232 interface and control buttons.



Rear view



1.1.1 Video Portal Capacity – typical scenarios

Due to direct support of AMR in the video portal audio transcoding is not required. Every call will consume 64 kbit/s per session, and depending on the option package the amount of simultaneous sessions can be between 30 and 120 calls.

2 Installation

Precautions:

- Never install telephone wiring during a lightning storm.
- 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, the product should be installed in the following manner:
 - There should be a clearance of 9.1cm between the product and any other product mounted in the rack.

2.1 Unpacking

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

- User Manual and other documentation on CD.
- Rack-ears, screws.
- Cables:
 - Power cable
 - Ethernet cable
 - RS232 cable
- TANDBERG Video Portal

Installation site preparations

- Make sure that the Video Portal is accessible and that all cables can be easily connected.
- For ventilation: Leave a space of at least 10cm (4 inches) behind the video portal's rear panel and 10cm (4 inches) in front of the front panel.
- The room in which you install the video portal 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 video portal.
- Do not place hot objects directly on top, or directly beneath the video portal.
- Use a grounded AC power outlet for the video portal.

2.2 Connecting cables

Power cable

Connect the system power cable to an electrical distribution socket.

LAN cable

To use the video portal on IP, connect a LAN cable from the 'LAN 1' connector on the video portal to your network. The LAN 2, 3 and 4' connector is not used and should be left open.

RS 232 cable

To control the video portal using the data port, connect an RS 232 cable between the video portal's RS 232 connector and the COM-port of a PC. For further information, please refer to paragraph 2.3 and the Data Port Command Interface User Guide.

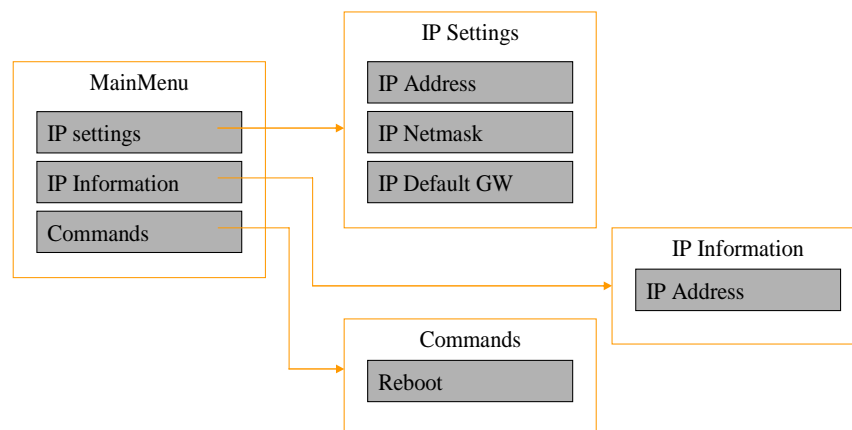
2.3 Video Portal Configuration

The Video Portal requires some basic configurations before it can be used. It will be necessary to find the IP-address

It is possible to use the front panel LCD display or the serial RS232 cable. Using the RS232 cable, follow the instructions below:

1. Connect the RS232 cable between the video portal and a PC and then switch on the video portal.
2. Start a terminal program on the PC and configure it to: 115200, 8, 1, None.
3.
 - a. To assign a static IP-address, type 'Xconf ip Assigment: "Static" ' and 'Xconf Ip address <IPAddr>'.
 - b. To assign an IP Subnetmask, type 'Xconf ip address subnetmask <subnetmask>'.
 - c. To assign an IP Gateway address, type 'Xconf ip address gateway <gateway IP-address>'.
4. Restart the video portal.
5. Start a WEB browser and enter the IP-address of the video portal. Default password: 'TANDBERG'.

The LCD panel makes it possible to configure and the check the IP settings and to reboot the system. The front panel LCD menu items are displayed below. Due to the limited amount of buttons the function will differ on every menu level also depending on the function of the menu (reading or editing). Appendix 7.2 contains a detailed description of all levels and functions of every button. The LCD-panel functions work in an intuitive way; their use should not result in any problems.



To configure the IP number, follow the instructions below:

1. Press any key to get the main menu.
2. IP settings should be displayed.
3. Press [ENTER] to access the IP settings menu.
4. Use the [UP/DOWN] key to select IP Address.
5. Press [ENTER] to access the IP address editing menu.
6. Press [ENTER] again to get a cursor.
7. Use up down keys to navigate between the different digits.
8. After selecting a digit use the [ENTER] key in combination with the [UP/DOWN] key to change the digit value.
9. When finished editing use [ESC] key to go to the confirm change menu.
10. Use the [UP/DOWN] key to select yes or no and [ENTER] to confirm.
11. Use [ESC] key to navigate back to the main menu.

Note that DHCP assigned IP-addresses are supported by the TANDBERG Video Portal (factory default).

Video Portal start-up

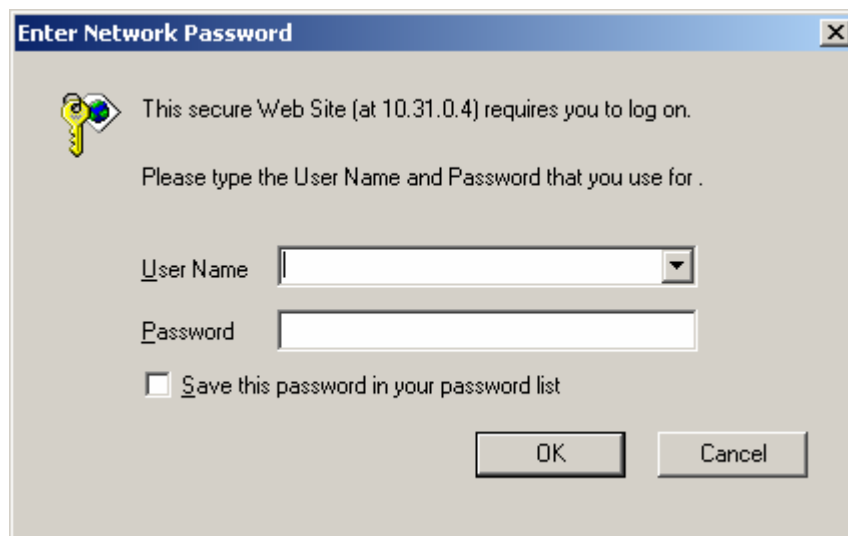
To start the video portal, please make sure that the power cable is connected, and press the power switch button at the back side to '1'.



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

Accessing the video portal

You may access the video portal by entering the IP-address of the Video Portal in a standard WEB-browser. You will then be asked to enter a password. It is not necessary to enter 'User Name'. The default password for the Video Portal is '**TANDBERG**'. Remember that the password is case sensitive. Note that it also possible to use SSH and Telnet to configure the Video Portal.



Note that the password can be changed in System Configuration', Misc'. See also the paragraph '6.5 Miscellaneous Configuration'.

Forgot the password? Use the following procedure to set a new password:

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

3 Using the video portal

The TANDBERG Video Portal contains a separate web based interface for Content Provider and (premium) phone number management. This WEB interface is developed in such a way that it is possible for Hosting Provider to grant access to different Content Providers comparable with an Internet Service Provider (ISP)¹. Via the web based user management (user name and password) it is possible for Content Providers to get remote access to the Video Portal. Via a sophisticated distribution system it is possible to support many Content Providers on one video portal.

3.1 Roles

With respect to the Video Portal the following roles can be distinguished:

- The **Hosting Provider** (HP) operates the Video Portal and is responsible for the technical management of the Video Portal. The HP is also responsible for the service management, e.g. the provisioning of the content providers.
- The **Content Provider** (CP) is the end-customer who wants to deliver content to 3G enabled handsets and IP endpoints via the Video Portal.

There is a clear hierarchy in these roles:

Hosting Provider → Content Provider

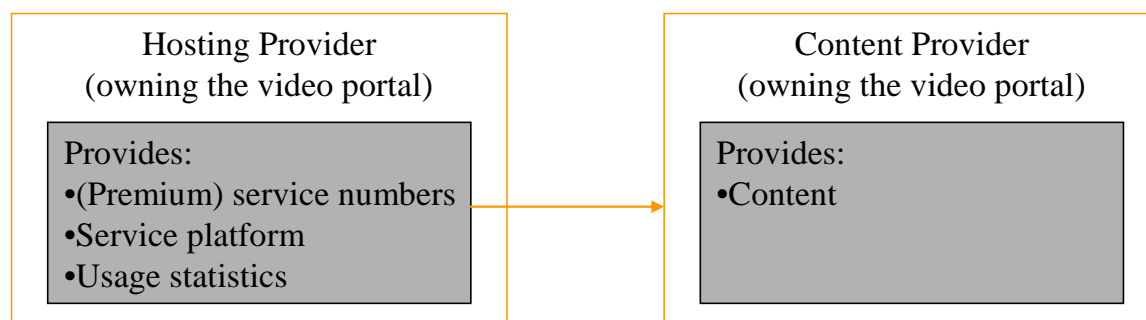


Figure 1: Overview of the roles

These roles can be combined within one company, e.g. the Hosting Provider might be the same as the Content Provider. Typically these roles are then performed by different departments in a company.

3.1.1 The Hosting Provider

The main tasks of the Hosting Provider are to provide and manage the Video Portal and manage the Premium Numbers. The roles of the HP are:

- service management
 - provide service numbers (i.e. the B-numbers or 'real' telephone numbers of the Video Portal).
 - provision Content Providers
 - provide premium numbers.

¹ Note that interconnecting with the public Internet requires security measures like firewalls or VPN access; both are no part of the TANDBERG Video Portal.

- provision Content Providers
 - assign premium numbers to Content Providers.

These two roles will most likely be done by two different departments.

The Hosting Provider has no knowledge of the content (except when necessary for the technical management of the Video Portal or the switching infrastructure).

3.1.2 The Content Provider

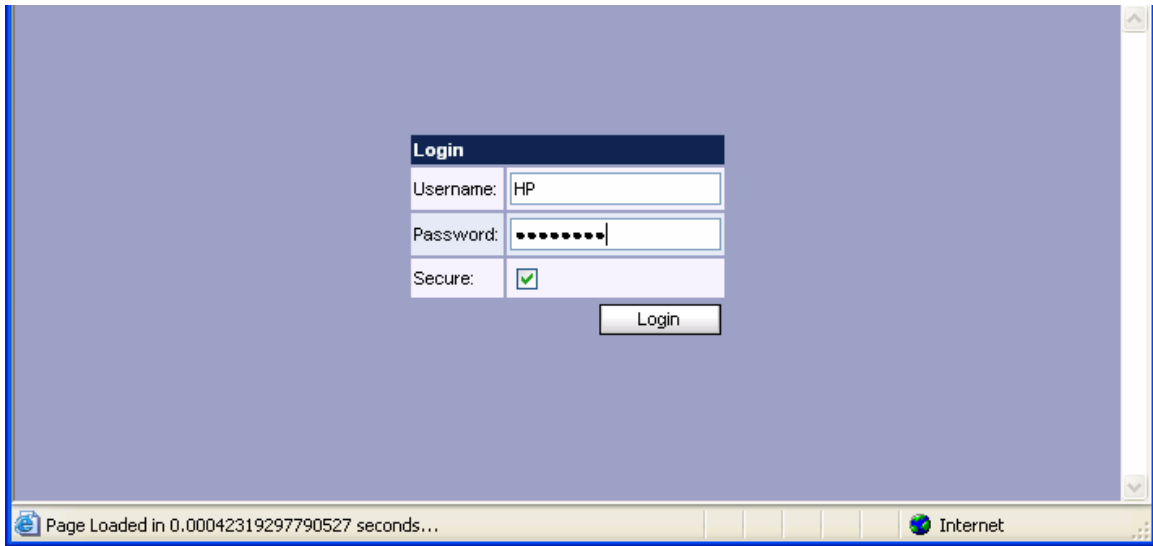
The Content Provider is actually putting content on the Video Portal. Content is provided in the form of an interactive video menu service (i.e. a menu created with the Service Creator) called a **service**. Services are mapped onto premium numbers, which are provided by Hosting Providers to Content Providers. Roles of the Content Provider are:

- create content with the Video Portal Service Creator
- define services.
- map services onto premium numbers.
- map Video Portal design's (.IVR) to services.
- upload content to the Video Portal.

3.2 Preparation for use

The Video Portal management interface is a web-based tool. This means that anyone with an Internet Browser can use the tool². Access to the Video Portal is by default possible via the URL http://portal_ip_number:8000/management_console/index.php. The default Hosting Provider Username is *hp* with Password *TANDBERG*. The Hosting Provider needs to provide the Content Provider with the necessary information to use the Video Portal. This includes:

- the URL (web site name) of the Video Portal Web interface.
- the User name
- the Password



A standard web-browser (currently only Firefox 1.0 and IE 6.0 (or higher) have been tested) should work. When the **Secure** option is selected the password is encrypted when it is sent across the network. Due to a limitation in Firefox the checkbox **Secure** needs to be disabled when using Firefox.

For users who need to upload content a plug-in for Sun's Java runtime needs to be installed, but this only works with IE 6.0. This plug-in (the Java™ 2 Runtime Environment, Standard Edition (JRE)) can be found on <http://java.com>. Administrator privileges are needed to install this plug-in. Installation instructions can be found on the web site.

3.2.1 Security Certificate

If the Java applet is installed then the following popup may appear. This means that a security certificate is installed for the Content Provider Web interface, but it is not issued by a trusted 3rd party like VeriSign or Thawte, but by the Hosting Provider. It is safe to click **Yes**, or even better to click **Always**.

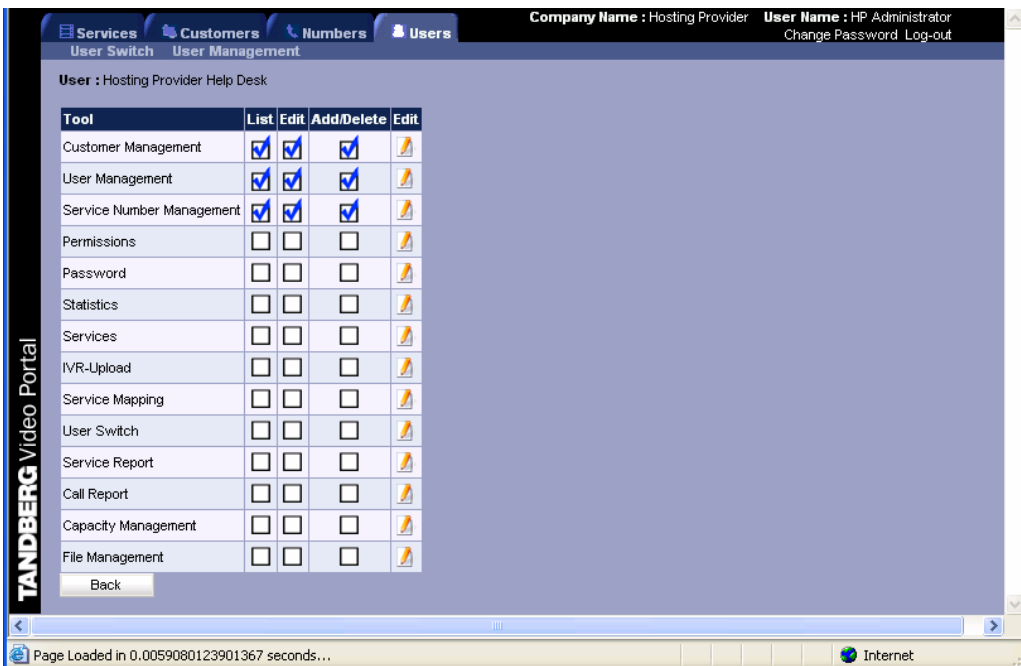
² Of course there may be restrictions, like specific IP addresses of the clients that can connect to it, etc.



3.2.2 Using a web-based tool

Using a web-based tool is somewhat different from using a Windows-based tool. The web page is just a front-end to a central database. Changes made via the web page do not automatically lead to changes in the database. Often an **Edit** button has to be pressed first to get into a new screen where changes can be made. Only when a button (usually called **Save**) is pressed the changes will be committed.

E.g. in the screen shot below all permissions for a user are listed. When a change needs to be made to the permissions for a particular function, e.g. **IVR-Upload**, the **Edit** button on that line has to be pressed.



After pressing the edit button the next screen pops up and allows the changes to be made.



After the check marks have been made or removed, the **Save** button must be pressed. Then the system returns to the previous screen and the updated permissions are shown.

4 Video Portal Tools

This chapter will describe the tools of the Video Portal in detail. Depending on your installation and permissions the tools will appear in the top bar of the screen.

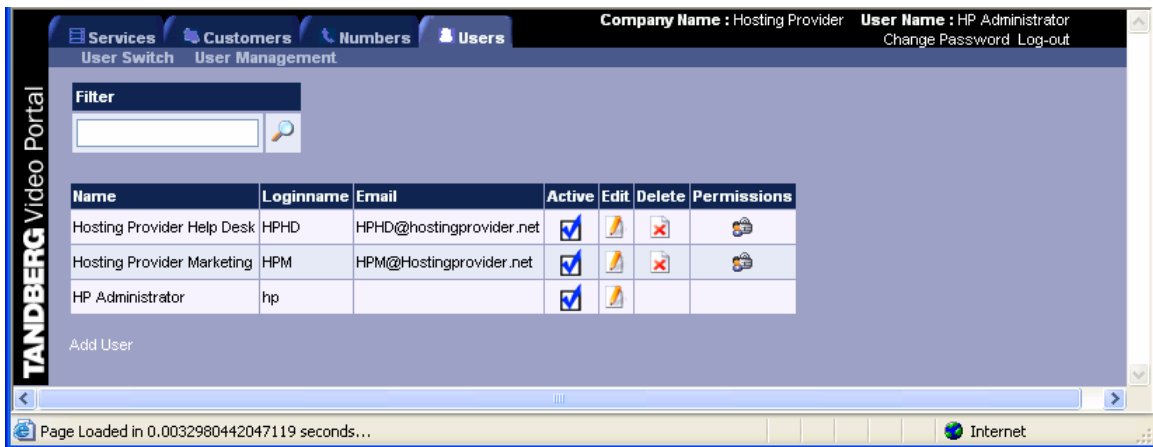


4.1 User Management

Users >> User Management

User management is one of the common functions of the Video Portal WEB interface. When the Video Portal is delivered to the Hosting Provider it has one default administrator account **hp** with default password **TANDBERG**. The Hosting Provider (HP) administrator can create additional user accounts like for example the helpdesk and the marketing department. The administrator can also add Content Providers to the Video Portal, named Customers. This is explained in more detail in paragraph 4.2. However when a new Content Provider is created, one default administrator account is created. Via this administrator account it is possible for the content provider to add users like for example the CP marketing department. So the Hosting Provider and each Content Provider have their own, separate user management console. Login names have to be unique. But since all users from both Content Providers and Hosting Provider log into one central system, there might be a conflict between user names. When adding a new user, an error message, indicating that the login name is not unique, may appear, although there are no user accounts with the same login name within the Content Provider.

On the top of the screen at the right there is a link to log out of the system and one to change the password. The last one applies to the password of the current user. There is also a Password option within the User Management tool, but this allows changing the password of another user (mostly used by Administrators to reset the password if a user has forgotten it).



4.1.1 Permissions

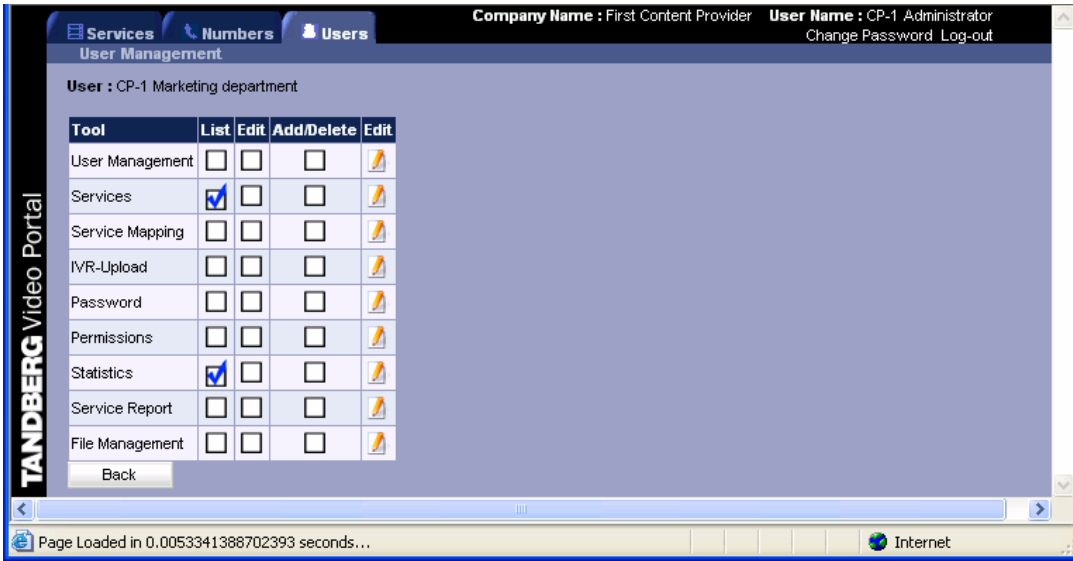
The permissions need to be set per user. This is typically used to separate the various functions within the Hosting Provider or Content Provider. E.g. someone in the design department of a Content Provider may add services and upload content, but someone in the marketing department may just look at the statistics. Since the administrator accounts have all permissions set (and they cannot be changed for Administrator) it is advised to create additional accounts for other users and not to use the administrator account for all activities.

The permissions are applied to specific functions. User management is common to all tools, but each tool will have its own specific functions as well. E.g. only the Content Provider can assign permissions for the Services Management function.

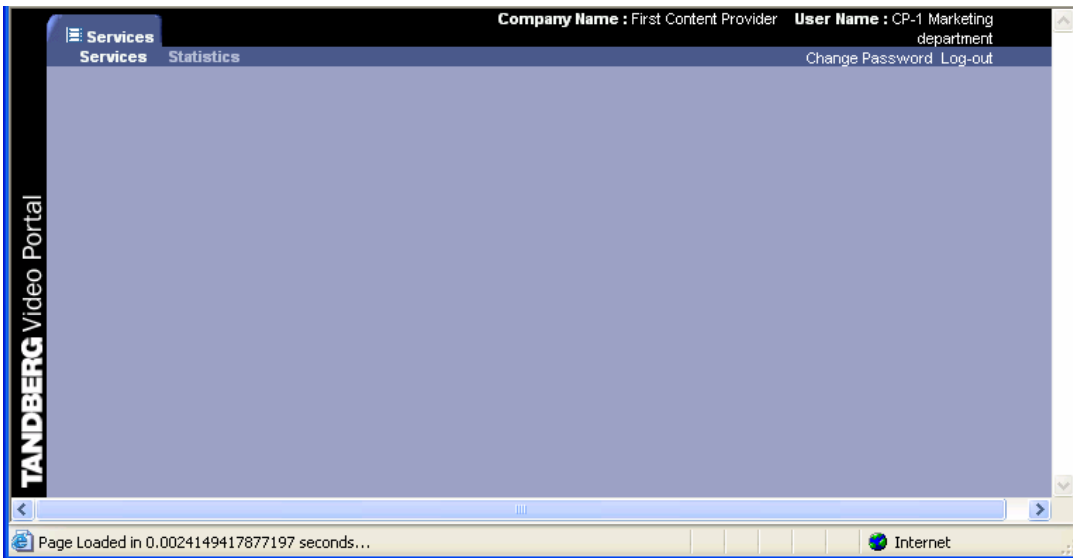
The permissions which can be assigned are:

- **List**
The user can only view the information, but cannot change anything. When this option is disabled the user will not see the tool in the upper tool bar.
- **Edit**
The user can modify the information, but cannot create or delete new entries.
- **Add/Delete**
The user can add or delete entries and fill in the initial information, but cannot modify the information unless the edit permission is also set.

Permissions can be added, e.g. for a Content Provider there might be two users³, one for someone in the creative department who creates the services and uploads them and one for someone in the marketing department who needs the statistics on the use of the service.



When user Marketing Department logs in the result looks like:



³ There is always an Administrator account which always has all permissions set.

Note that the user does not have permissions for User Management and that tool is not listed when the Marketing Department logs in.

This permission scheme is quite flexible and care has to be taken when setting permissions for a user. It is possible to create permissions which make no sense, e.g.

Function	List	Edit	Add/Delete
Services		✓	

This user may edit a service, but cannot see them!⁴

The permissions of some functions depend on other functions. Care has to be taken when filling in the permissions. E.g. **Service Mapping** and **IVR-upload** are only useful when at least the **List** permission for **Services** has been set.

4.1.2 Logging in

Each user will have an account name and a password. When the user account is created, a password is initially generated by the system. The user who creates the account (usually the Administrator) should edit the account and set a new password. The first time a user logs in this password must be used. After that the password can be changed by the user.

4.1.3 Passwords

To avoid security breaches passwords have to obey certain rules:

- A password must be at least 6 characters long
- A password must contain at least 1 capital letter (A – Z)
- A password must contain at least 1 small letter (a – z)
- A password must contain at least 1 number (0 – 9)
- A password cannot contain any non-alpha-numeric symbols

⁴ This will be fixed in a future version.

4.2 Customer Management

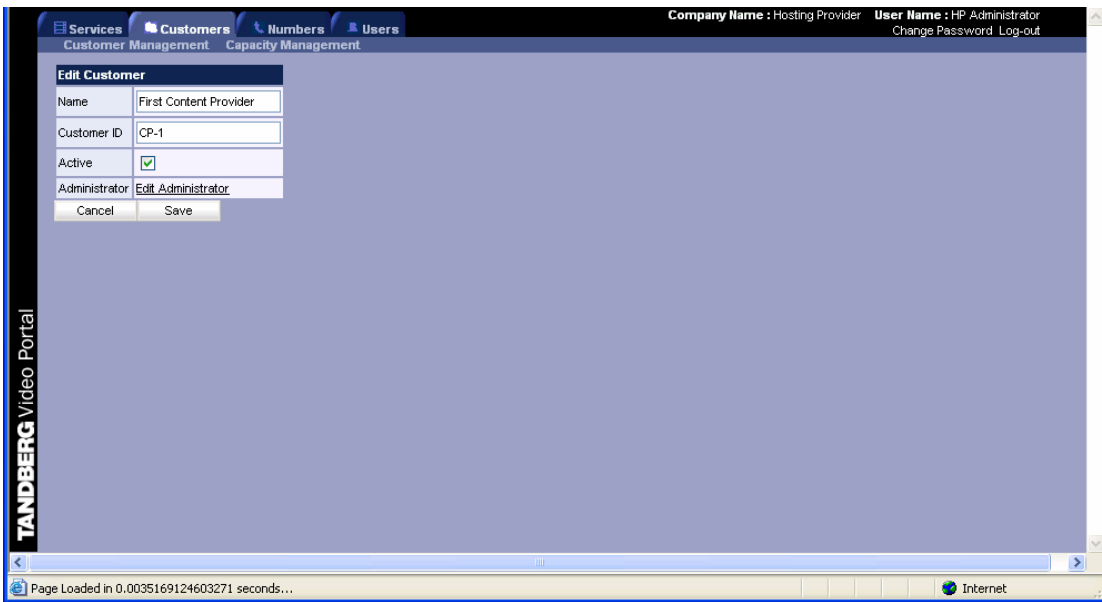
Customers >> Customer Management

Via the Customer management tab it is possible to add Content Providers to the system as a Hosting Provider. In this particular case (see screenshot below) two customers are defined. The columns in the table represent the following:

1. **Name** – this is just the name of the customer. It is a text field and customer names must be unique.
2. **Customer ID** – this is an optional text field which can be used for an identification of the customer. Usually this will be used as a link to information in other systems, e.g. customer care or billing.
3. **Customer Type** – this indicates the type of customer. In future releases it is possible to distinguish other type of customers.
4. **Active** – this indicates whether the customer account is activated or not. Only when it is active, a user from the customer can log in. This is typically used during the provisioning or migration of the service. This box is not checked by default on creating a customer!
5. **Edit** – allows the modification of the details of the customer.
6. **Delete** – deletes the customer.

Name	Customer ID	Customer Type	Active	Edit	Delete
First Content Provider	CP-1	Content Provider	<input checked="" type="checkbox"/>		
Second Content Provider	CP-2	Content Provider	<input checked="" type="checkbox"/>		

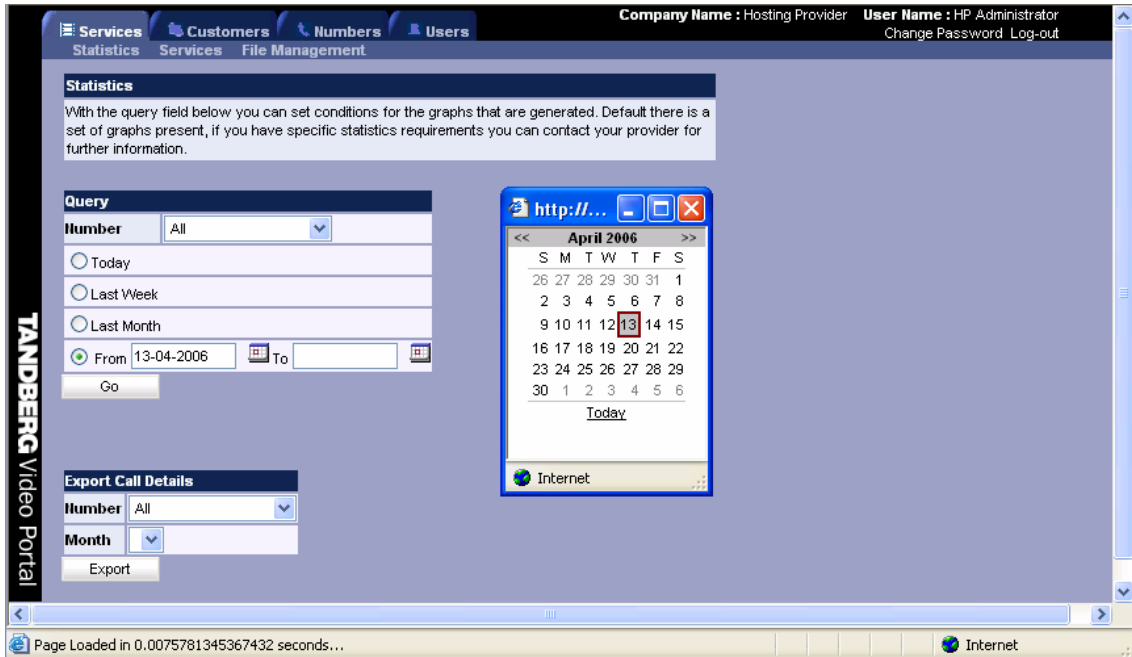
Customer properties can be changed in the Edit screen. It is advised to edit the properties directly after creating the customer. As a minimum the password has to be changed. It is advised to enter also an email address. In future versions this will be used for new functionalities.



4.3 Statistics

Services >> statistics

All tools have statistics functionality. Whether a user actually sees the statistics tool depends on the permissions set for this user (see paragraph 4.1.1). The default installation only contains one simple query.



The default query allows for the generation of a number of simple bar graphs. The period the statistics relate to can be selected. The following options are available:

- Today
- Last Week
- Last Month
- Time Period – The time period always starts on 00:00 of the first day (**From** field) till 00:00 on the last day (**To** field) and only one number at a time can be queried. The From and To fields must be filled in. For instance if all calls on 19-01-2005 have to be shown, then the From date is 19-01-2005 and the To date is 20-01-2005.

The default query generates the following graphs:

Graph	Description
Calls per hour	The total number of calls for each 1-hour period measured over all days of the query period. So, e.g. all calls between 09:00 and 10:00 on all days are added together.
Unique calls per hour	The same as above, but for each A-number (the number of the caller) only 1 call is counted.
Sum duration per hour	The total duration (in seconds) of all calls in each 1-hour

	period measured over all days of the query period.
Average duration per hour	The average duration (in seconds) of all calls in each 1-hour period measured over all days of the query period.
Calls per day	The total number of calls for each day measured over the query period.
Unique calls per day	The same as above, but for each A-number (the number of the caller) only 1 call is counted.
Sum duration per day	The total duration (in seconds) of all calls per day.
Average duration per day	The average duration (in seconds) per call of all calls per day.

4.4 Service and Premium Number Management

Numbers >> Service Number Management

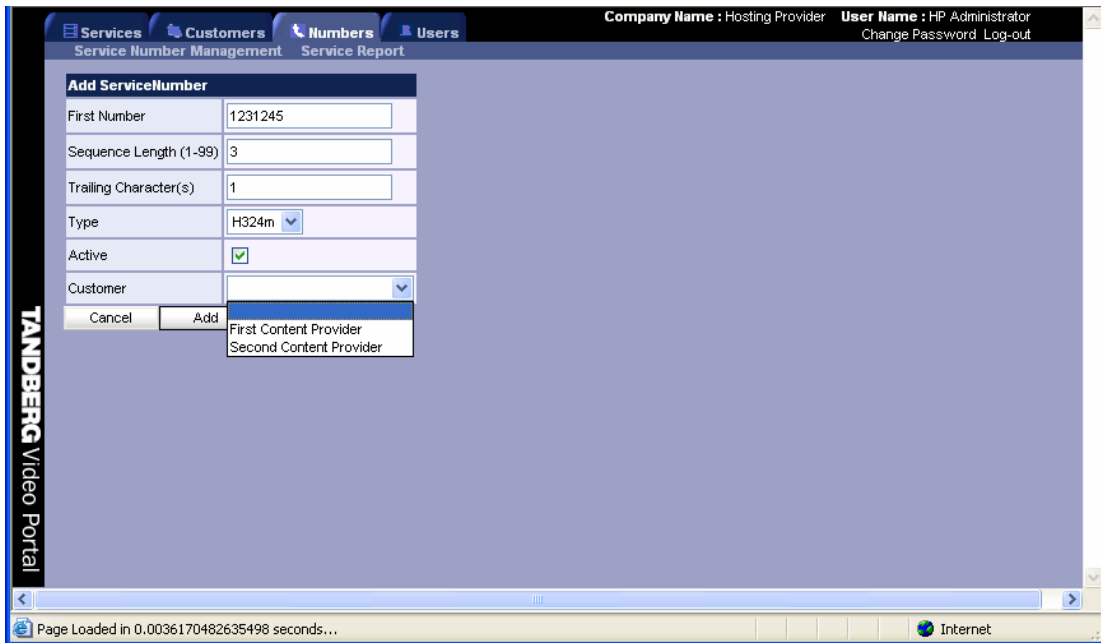
Service numbers are the telephone numbers to which the Video Portal responds (i.e. the B-numbers of calls). These numbers are not the same as the Premium numbers the end-users will dial. The telephone switches in the public telephone infrastructure will do a call forward of the premium numbers onto these service numbers e.g. dialing 09001234 is mapped on 1231243 (See figure below).

Service Number	TC	Type	Premium Number	Alias	Customer	Active	Edit	Delete	Stats
1231245	N	H324m	08001234		First Content Provider	<input checked="" type="checkbox"/>			
1231244	N	H324m	09000528		Second Content Provider	<input checked="" type="checkbox"/>			
1231243	N	H324m	09001234		First Content Provider	<input checked="" type="checkbox"/>			
98765		SIP	98765		First Content Provider	<input checked="" type="checkbox"/>			
98766		H323	98766		First Content Provider	<input checked="" type="checkbox"/>			
98767		H323	98767		First Content Provider	<input checked="" type="checkbox"/>			
98768		H323	98768		First Content Provider	<input checked="" type="checkbox"/>			

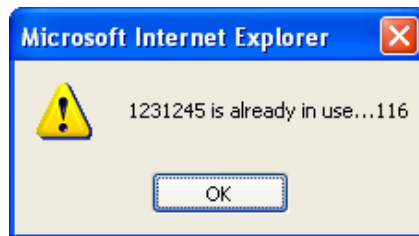
1. **Service Number** – this indicates the number on which the phone call arrives at the Video Portal.
2. **TC** – The trailing character(s) (TC) is optional. It is usually used to provide extra information about the call, e.g. “N” for a National call and “I” for International. This information is typically provided by the switch operator and transferred together with the number itself via the C7 level to the Video Portal. What character(s) are used depends on the configuration of the switches to which the Video Portal (via a Gateway) is connected. Please consult your switch administrators for more information. The specified trailing characters, i.e. string, are stripped from the telephone number.
3. **Type** – indicates the call type. Available options are: H324m, H323, SIP and All.
4. **Premium Number** – the premium number is the number that is dialed by the end user of the service. This number is usually equal to the service number, and can be filled in here for administrative (reference) reasons only. This number is a character string and may contain all alphanumeric characters
5. **Alias** – this can be used as a label that refers to the number.
6. **Customer** – this indicates to which customer the number is assigned to.
7. **Active** – this indicates whether the number is activated. Only when it is active, the respective dialed number is connected to a service.
8. **Edit** – allows modification of phone number settings.
9. **Delete** – deletes the number.
10. **Status** – presents call statistics for the selected number.

The management of the service numbers on the Video Portal is just an administrative action and has nothing to do with the provisioning and routing of numbers in the telephone network.

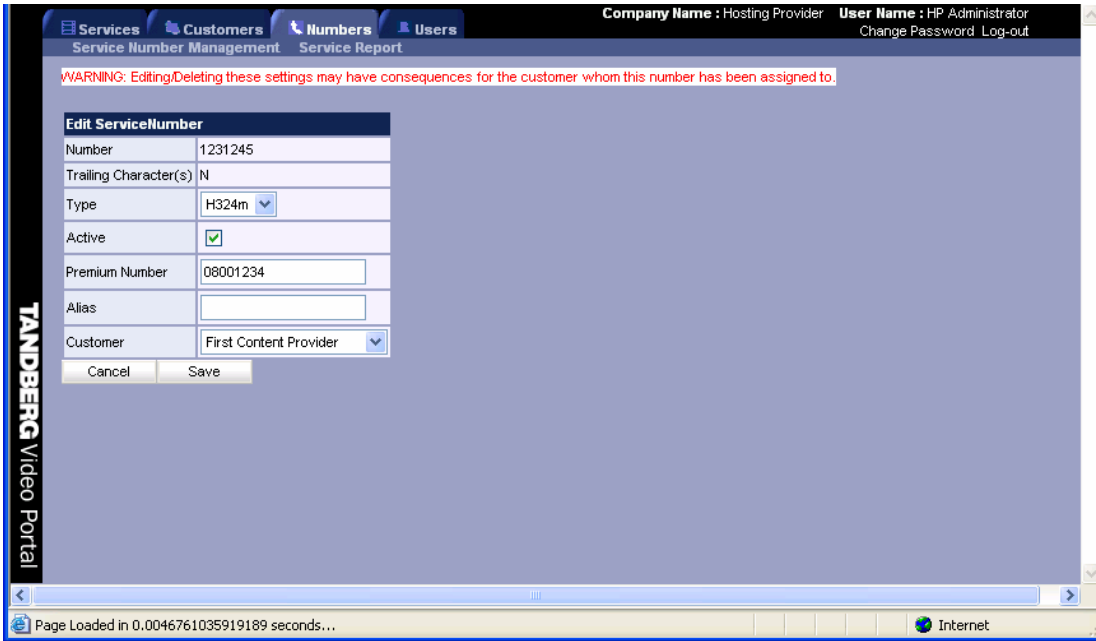
The Hosting Provider has to define and assign service numbers to Content Providers. The best way is to define the Content Providers first and the service numbers subsequently. Click the **Add ServiceNumber** link, just below the last Service Number entry, to allocate a range of service numbers to previously defined Content Providers. The range of Service Numbers starts with the Service Number defined in the First Number field. The length of the range is defined in the Sequence Length field, which is set to 1 by default, and will be assigned to the customer selected in the Customer field. For instance if the First Number equals 1231245 and the sequence length is set to 3, the range will be 3 numbers long and includes the numbers 1231245, 1231246 and 1231247.



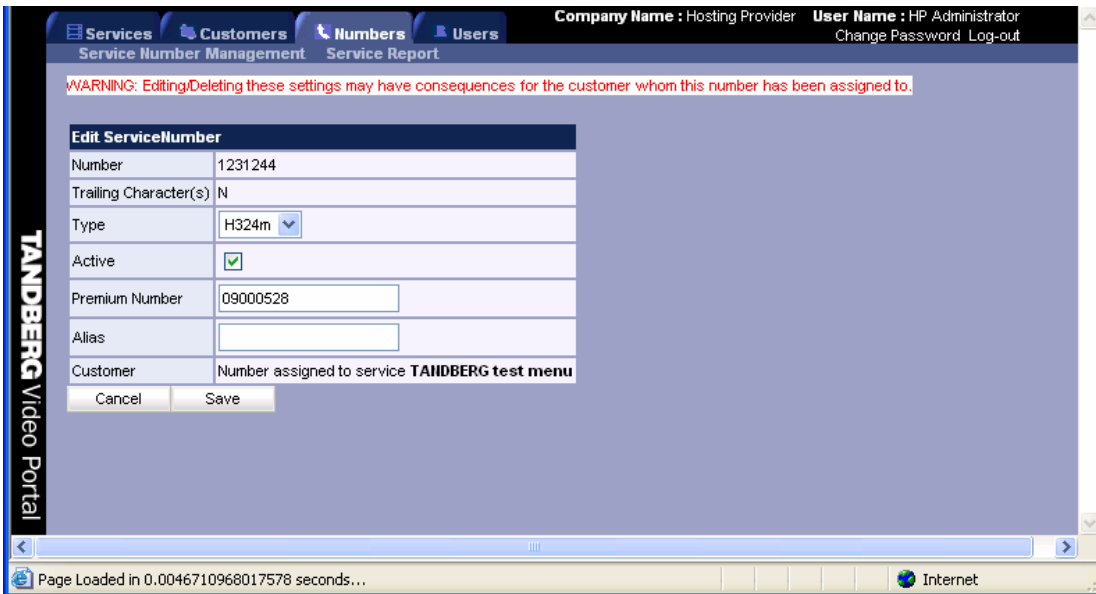
If the phone number, in this case 1231245, is already in use then an error window appears, as shown in the figure below.



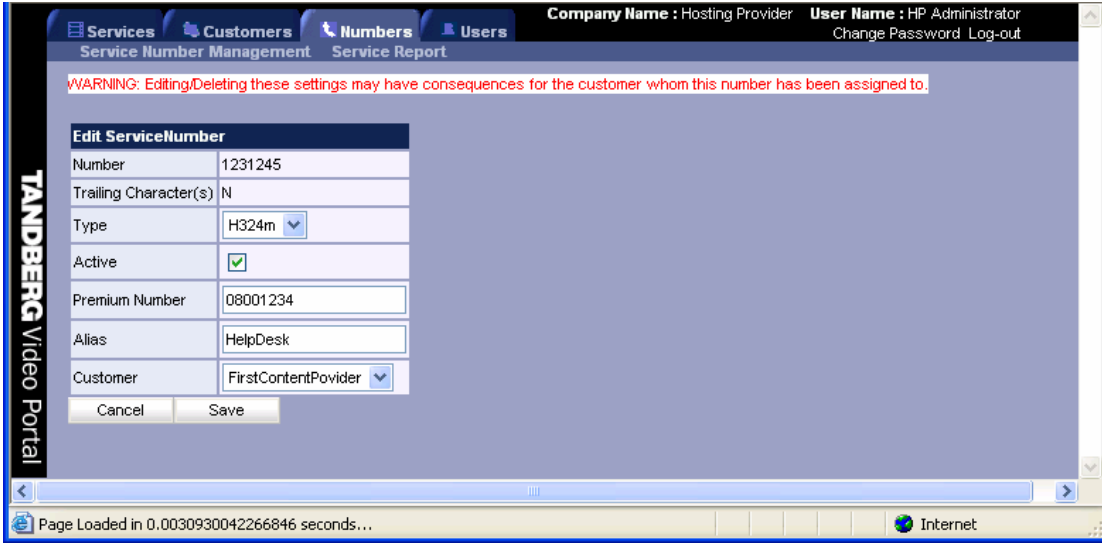
When the Service Number settings for existing customer services are adapted, then the following warning appears:



However, when the Service Number settings for self owned existing services are adapted, then the Customer field is blocked and the following warning appears:

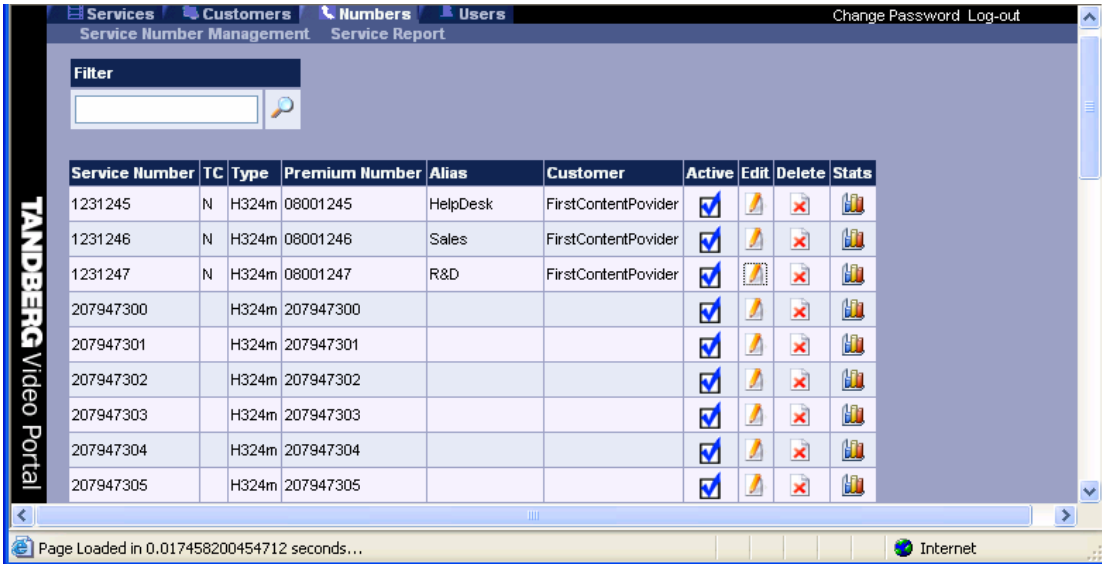


If the Content Provider is defined after the service numbers have been entered, the assignment of service numbers to Content Providers can be done via the **Edit** button. The same holds for the assignment of premium numbers to service numbers.



Service numbers can also be unassigned. This will usually be the case when the Hosting Provider has reserved a block of numbers and assigns numbers on demand to Content Providers.

The picture below shows what happens when the Hosting provider defines a sequence of three numbers starting with 1231245.

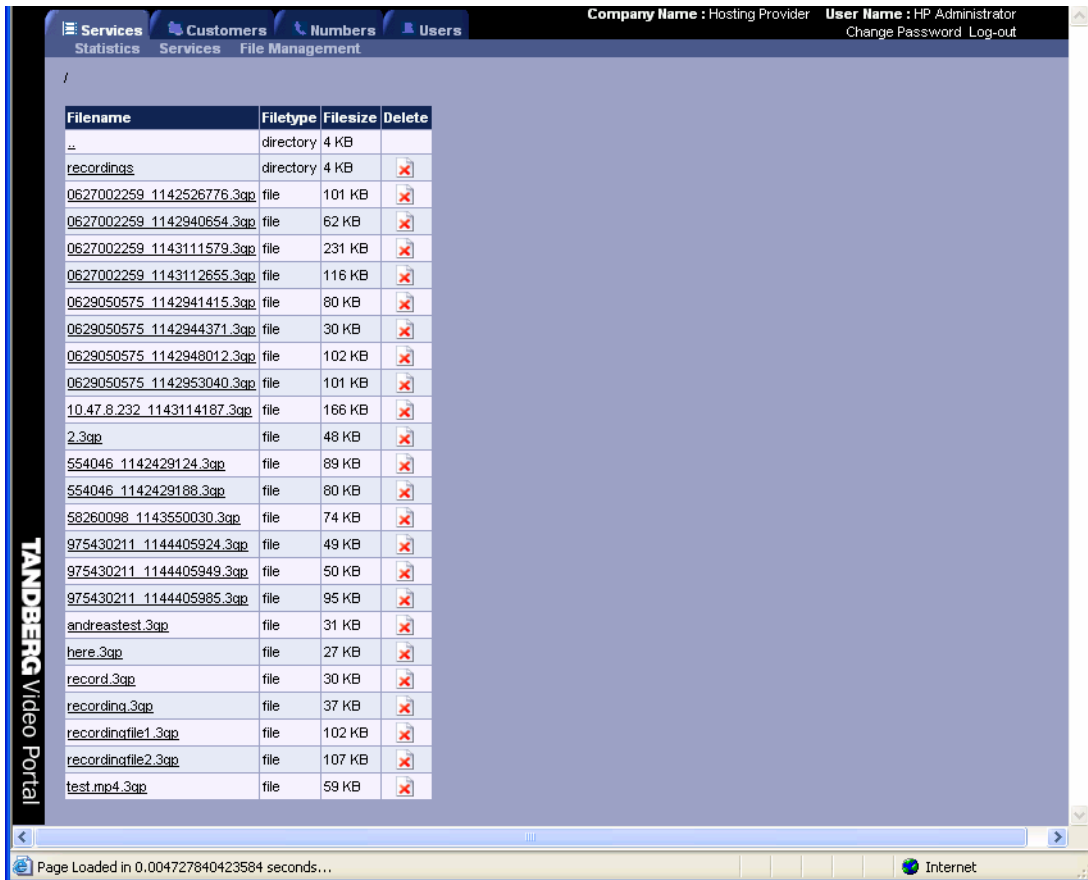


Note that after adding a service number the premium number is the same as the service Number which can be changed via the **Edit** button. The premium number, an alpha numeric character string, can be filled in here for administrative (reference) reasons only.

4.5 File Management

Services >> File Management

The File Management window shows all directories and files containing recorded content, i.e. .3gp files.



Filename	Filetype	Filesize	Delete
.	directory	4 KB	
recordings	directory	4 KB	
0627002259_1142526776.3gp	file	101 KB	
0627002259_1142940654.3gp	file	62 KB	
0627002259_1143111579.3gp	file	231 KB	
0627002259_1143112655.3gp	file	116 KB	
0629050575_1142941415.3gp	file	80 KB	
0629050575_1142944371.3gp	file	30 KB	
0629050575_1142948012.3gp	file	102 KB	
0629050575_1142953040.3gp	file	101 KB	
10.47.8.232_1143114187.3gp	file	166 KB	
2.3gp	file	48 KB	
554046_1142429124.3gp	file	89 KB	
554046_1142429188.3gp	file	80 KB	
58260098_1143550030.3gp	file	74 KB	
975430211_1144405924.3gp	file	49 KB	
975430211_1144405949.3gp	file	50 KB	
975430211_1144405985.3gp	file	95 KB	
andrestest.3gp	file	31 KB	
here.3gp	file	27 KB	
record.3gp	file	30 KB	
recording.3gp	file	37 KB	
recordingfile1.3gp	file	102 KB	
recordingfile2.3gp	file	107 KB	
test.mp4.3gp	file	59 KB	

Selecting the file and right clicking it with the mouse enables the user to save this file in a different location. Selecting a directory will show both its contents and its name above the column named Filename, as depicted in the picture below for the directory named 'recordings'.

TANDBERG Video Portal User Manual

The screenshot displays the TANDBERG Video Portal interface. At the top, there are navigation tabs for Services, Customers, Numbers, and Users. The current view is 'File Management'. The page title is '/recordings/'. Below this is a table with the following columns: Filename, Filetype, Filesize, and Delete. The table contains 17 rows of data, each representing a video file. The first row is a directory entry, and the subsequent 16 rows are .3gp files. Each file entry includes a unique identifier, the file type, its size in KB, and a delete icon.

Filename	Filetype	Filesize	Delete
..	directory	4 KB	
9047582259_1142424624.3gp	file	53 KB	
9047582259_1142424655.3gp	file	63 KB	
9047582259_1142424905.3gp	file	54 KB	
9047582259_1142424977.3gp	file	62 KB	
9047582259_1142425052.3gp	file	67 KB	
9047582259_1142425414.3gp	file	60 KB	
9047582259_1142429119.3gp	file	95 KB	
9047582259_1142520493.3gp	file	60 KB	
9047582259_1142940510.3gp	file	56 KB	
9047582259_1142956306.3gp	file	51 KB	
9047582259_1143108707.3gp	file	59 KB	
9047582259_1143112599.3gp	file	67 KB	
9047582259_1143113334.3gp	file	86 KB	
9047582259_1143547118.3gp	file	56 KB	
9047582259_1144316977.3gp	file	89 KB	
9047584627_1142425641.3gp	file	60 KB	
904767198_1143549954.3gp	file	55 KB	

The interface also shows a status bar at the bottom with the text 'Page Loaded in 0.0041182041168213 seconds...' and an 'Internet' icon.

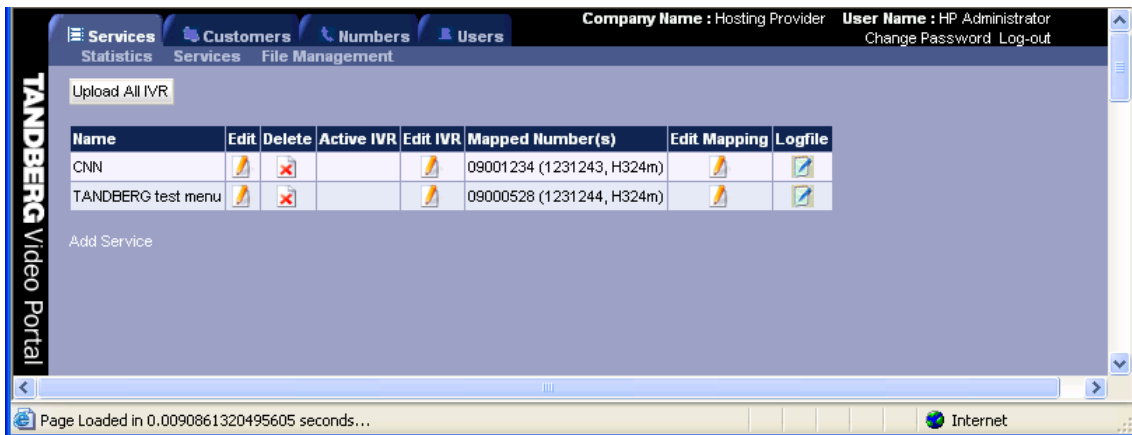
4.6 Services

Services >> Services

A service is basically the same as a top-level menu. The content is created with the Service Creator application (see separate documentation). This tool creates a so-called .ivr-file (Interactive Video Response).

To define a service the following steps need to be taken:

1. A service needs to be defined – click the **Add Service** link and type the service name, as presented in the web interface, in the name field.
2. The service must be mapped to at least one premium number – click the **Edit Mapping**. See paragraph 4.6.1 for a more detailed explanation of mapping services to premium numbers.
3. At least one IVR-file needs to be assigned to the service – click the **Edit IVR** button of the service to which the IVR-file should be assigned. See paragraph 4.6.2 for a more detailed explanation on IVR-files.



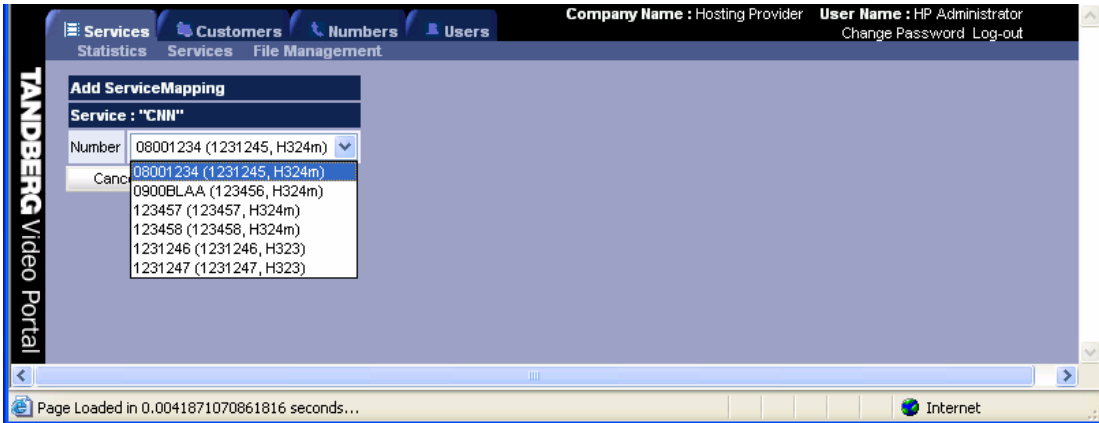
The columns in the table represent the following:

1. **Name** – this is just the name of the service. Moreover, service names must be unique.
2. **Edit** – allows service name modification.
3. **Delete** – deletes the respective service and all VR-files associated with it.
4. **Active IVR** – lists the IVR-file which is currently active. Paragraph 4.6.2 elaborates on IVR-files.
5. **Edit IVR** – assign one or more IVR-files to a service.
6. **Mapped Number(s)** – shows the numbers that are mapped to the service. Moreover, the call type, i.e. H324m, SIP, H323 is also specified.
7. **Edit Mapping** – change the mapping between premium numbers and services.
8. **Log** – this will popup the logging of the IVR-files.

To synchronize the data base of the Video Portal with the database of the management console, press the Upload All IVR button. All previously active IVR files will be queued again with their original start, time. When start times are in the past these services will become active instantaneously.

4.6.1 Edit Mapping

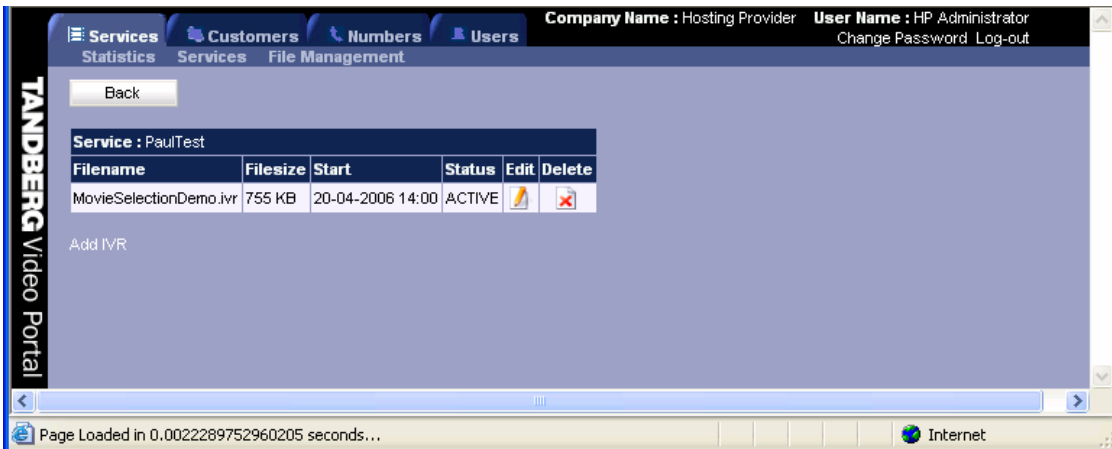
The mapping of services to premium numbers is quite straightforward.



Click the Edit Mapping button and click the **Add ServiceMapping** link to select the premium number. Only free premium numbers can be selected. More than one premium number can be mapped to a single service. This can be used e.g. in the case where premium numbers in different countries, or short codes from different (mobile) operators need to be mapped to the same service.

4.6.2 IVR-files

When the **Edit IVR** button is clicked the user is presented with an overview of all the IVR-files for the selected service. When no IVR-files are present for the service the list will be empty and the user has to add an IVR-file first (by clicking the **Add IVR** link).



The columns in the table represent the following:

1. **Filename** – the name of the IVR-file.
2. **File size** – the size in Kilobyte.
3. **Start** – the date and time when the service should become active.
4. **Status** – the status of the IVR-file, e.g. INACTIVE, QUEUED or ACTIVE.
5. **Edit** – allows modification of the start time and status of the service.
6. **Delete** – deletes the IVR-files from the Video Portal.

Since start times can be specified for all IVR-files, it is possible to specify multiple files for the same service becoming active at different times. They will be stored on the Video Portal until they are needed. Each IVR needs to be uploaded by clicking the **Upload** button.

Once an IVR-file has been uploaded its status can be:

- **Active** – the IVR file is active. All end-users dialing the service will see this menu.
- **Inactive** – the IVR file has been uploaded to the Video Portal, but it is de-activated. It can be re-activated in the future by changing the start date and changing its status to **Queued**.
- **Completed** – the IVR file has been active but is de-activated on activation of another IVR file. Basically this is an old IVR file, but it can be re-activated at a point in the future.
- **Error** – the IVR file has errors in it (e.g. missing RTSP links) or an error has occurred during the upload of the IVR file. As a minimum fix the IVR file should be deleted and uploaded again. But if the IVR file contains errors it has to be recreated.
- **Queued** – The IVR file is uploaded, but its start time is still in the future. It will be made active when the start time has been reached.
- **Uploading** – The IVR file is currently being uploaded.

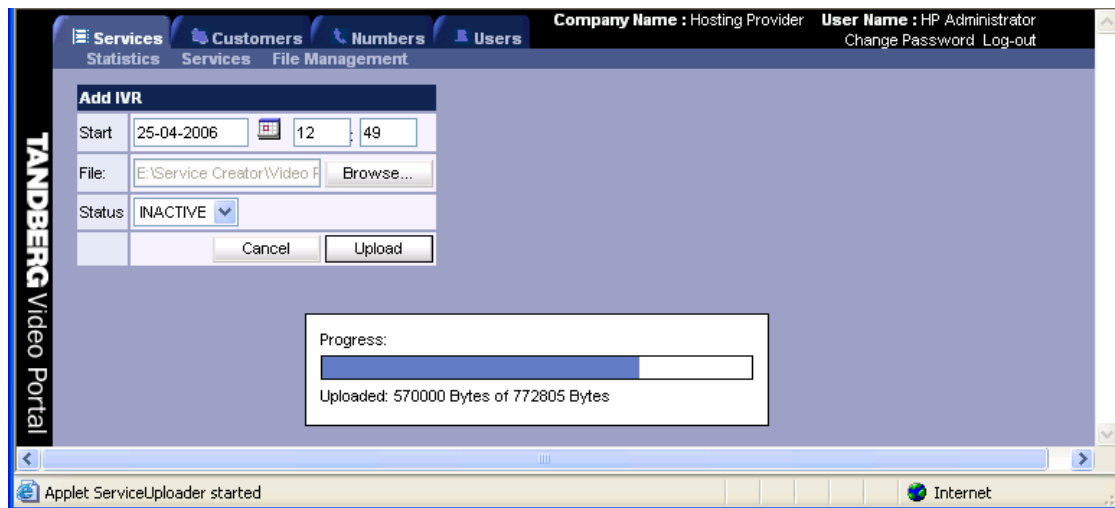
The user can change the status of an IVR-file but only to the **Inactive** and **Queued** status.

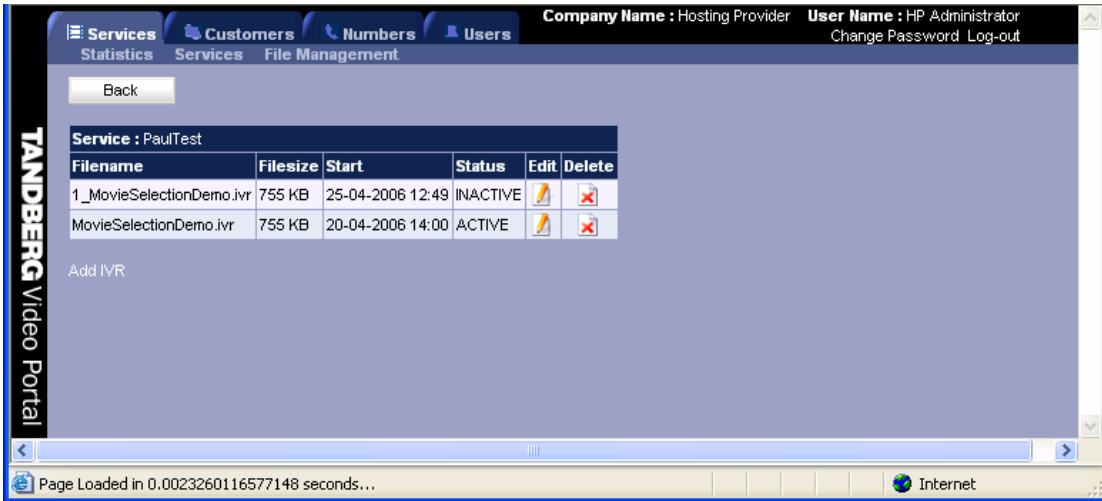
Scheduling

The CP Management Console has a scheduler that examines all the uploaded IVR files and determines what to do with them. If an IVR file is **Queued** and the start date/time has been reached, the scheduler will set the status to **Active**. The IVR file which has been **Active** till that moment will be set to **Completed**. If two IVR files with the same start date and time are uploaded to one service, the one that was uploaded last will be activated.

Uploading IVR files

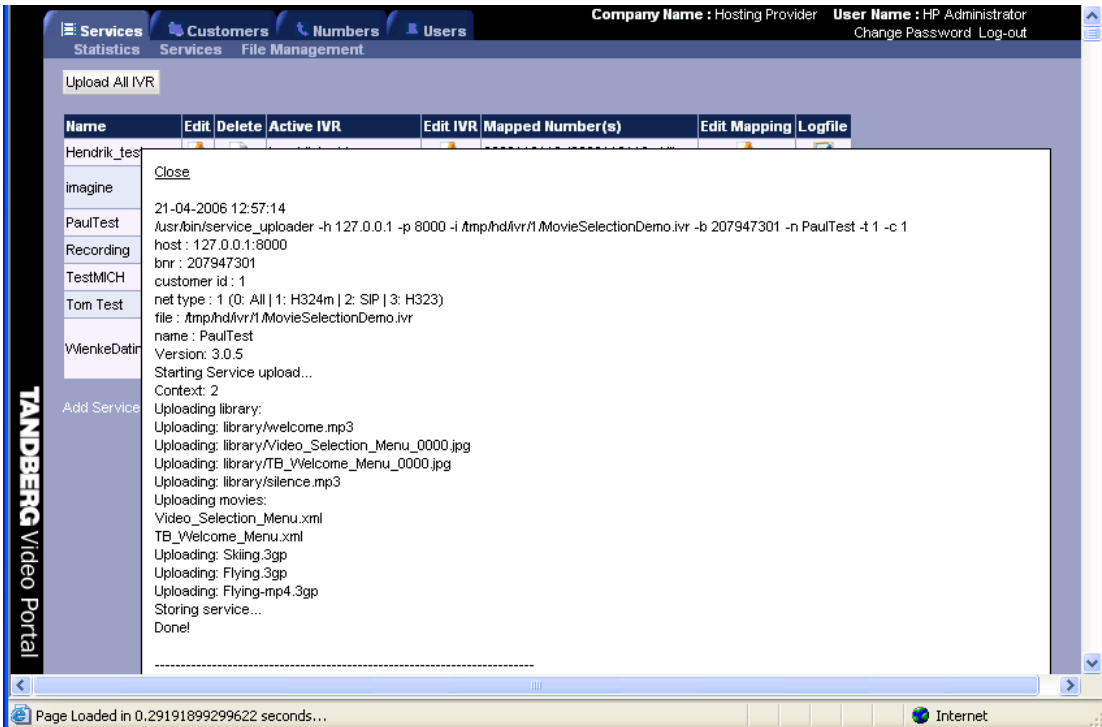
When a new IVR file is added a filename and a start date and time can be specified. The status can be set to either **Inactive** or **Queued**. When the **Upload** button is pressed the IVR file is uploaded to the Video Portal and stored there. If the status was set to **Inactive**, nothing will be done with the IVR file once it has been uploaded. It will be available for future use, triggered by some explicit action from the user. If the status is **Queued**, the IVR file will become **Active** as soon as the start date/time has been reached.





4.6.3 Service Logging

After the IVR file has been uploaded it is possible to check the log file as soon as the scheduler tried to activate the IVR file. Before that time the log file is empty. If e.g. the IVR file is not correct the status will turn to **Error** and clicking on **Log** in the services sections will result in the following popup screen with the log information.



4.7 User Switch

Users >> User Switch

The User Switch allows the super user to take over a user account from its customers. Clicking the **Switch** button of a user the user's system environment will be entered and changes can be made or problems solved, e.g. correcting settings..

Customer Parent	Party Type	Customer	Name	Login Name	Switch
Hosting Provider	Content Provider	First Content Provider	CP-1 Administrator	CP-1-ADMIN	Switch
Hosting Provider	Content Provider	First Content Provider	CP-1 Marketing department	CP-1-Mkt	Switch
Hosting Provider	Content Provider	First Content Provider	CP-1-Creative Department	CP-1-CD	Switch
Hosting Provider	Content Provider	Second Content Provider	CP-2 Administrator	CP-2-ADMIN	Switch

1. **Party Type** – this indicates the type of customer.
2. **Customer** – this indicates the name of the customer.
3. **Name** – this indicates the name of the user.
4. **Login Name** – this indicates the login name of the user.
5. **Switch** – by clicking the switch button the user's system environment will be entered.
6. **Filter** – by typing a search name you can limit the length of the list and help finding the customer you want to switch to.

NOTE: If one is switched to another user and one want to return to the original view one needs to logout first and then login again in one's own account.

4.8 Service Report

Numbers >> Service report

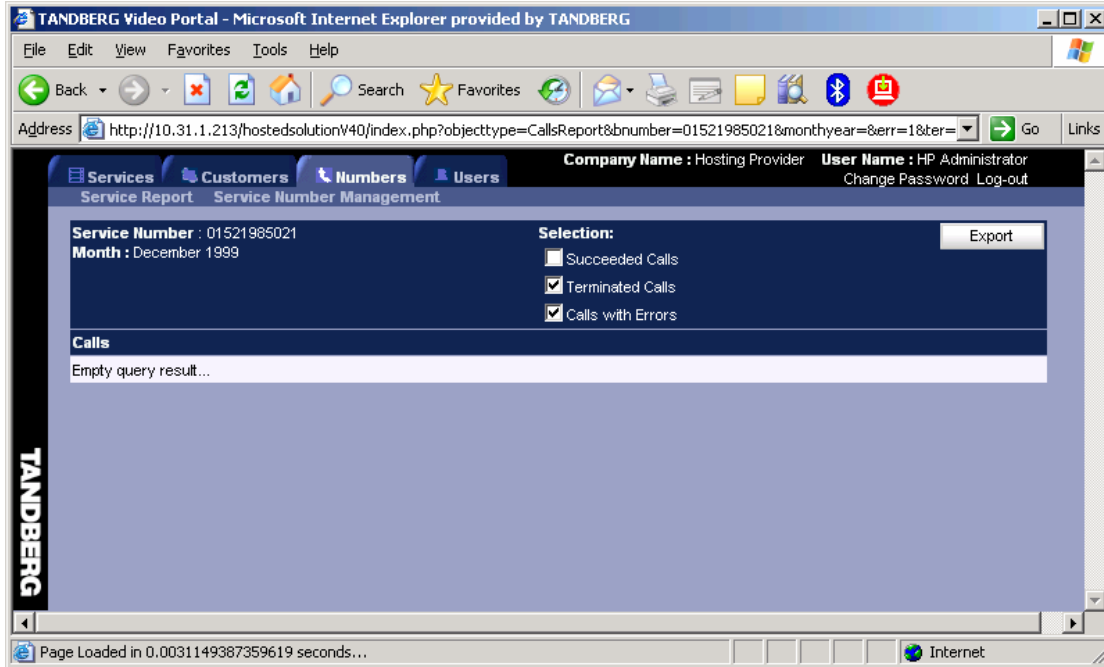
The service report allows the user to monitor all Video Portal numbers and its customers.

Premiumnumber	Service Number	Total Duration	Total Calls	Avg. Duration Per Call	Avg. Calls per Day	Calls Succeeded	Calls with Errors	Calls Terminated	Stats	Calls
0152198502	01521985021	00:00:00	0	00:00:00	0.00	0 %	0 %	0 %		
0152198503	01521985031	00:00:00	0	00:00:00	0.00	0 %	0 %	0 %		
0152198504	01521985041	00:00:00	0	00:00:00	0.00	0 %	0 %	0 %		
08001234	1231245H	00:00:00	0	00:00:00	0.00	0 %	0 %	0 %		
09000528	1231244H	00:00:00	0	00:00:00	0.00	0 %	0 %	0 %		
09001234	1231243H	00:00:00	0	00:00:00	0.00	0 %	0 %	0 %		

Service Number Report:

1. **Premium Number**
2. **Service Number**
3. **Total Duration** – the total of seconds called to the service number.
4. **Total Calls** – total number of calls called to the service number.
5. **Avg. Duration per Call** – the average duration of a call.
6. **Avg. Calls per Day** – the average calls per day.
7. **Calls Succeeded** – the percentage of succeeded calls.
8. **Calls with Errors** – the percentage of calls with errors.
9. **Calls Terminated** – the percentage of calls, which are terminated by the Video Portal, because it was impossible to establish successful video connections.
10. **Calls** – by clicking on details the Calls-report screen will appear.

By clicking on the Calls-button a detailed report of the calls made to a service number will appear.



The screen above shows all the terminated calls and calls with errors by default. By selecting the checkbox “Succeeded Calls” all the calls made to the referring service number and the selected month will appear.

1. **Date** – Date and Time of the moment when the call started.
2. **Session ID** – a unique identification code which refers to a call.
3. **Duration** – indicates the duration of the call.
4. **A Number** – the number of the terminal which called the service number.
5. **Initiator** – indicates if it is a mobile or a sip call.
6. **Status** – indicates the status of the call (0 = call succeeded, 1 = call with errors, 2 = call was terminated).
7. **Error Reason** – indicates the reason of failure.
8. **Log** – by clicking on the “View Log”-button the all the system logging of the referring call will appear.

The export button will export the current list to a coma separated values file, by clicking it you will be asked to open or save the file.

4.9 Capacity Management

Customers >> Capacity Management

The Capacity management offers the hosting provider the possibility to control usage of the Video Portal hard drive per Content Provider.

1. **Parent Customer**
2. **Customer Name**
3. **Used Diskspace** – the amount of disk space used in Kilobytes by the customer at the moment of inquiry.

The screenshot displays the 'Capacity Management' section of the TANDBERG Video Portal. At the top, navigation tabs for 'Services', 'Customers', 'Numbers', and 'Users' are visible. The 'Customers' tab is active, and the sub-tab 'Capacity Management' is selected. The user is logged in as 'HP Administrator' for the 'Hosting Provider' company.

The main content area includes a descriptive text: 'This overview shows the used disk space per customer. This is the sum of the files in the root (File Management) and all uploaded IVRs.' Below this is a table:

Parent Customer	Customer Name	Used Diskspace
Hosting Provider	Second Content Provider	104 KB
	First Content Provider	40796 KB

Below the table, it states 'You are currently using 220 KB'. Another descriptive text follows: 'This overview gives an estimation about the current available, used and total disk space on the video portal.' This is followed by a 'Disk Overview' table:

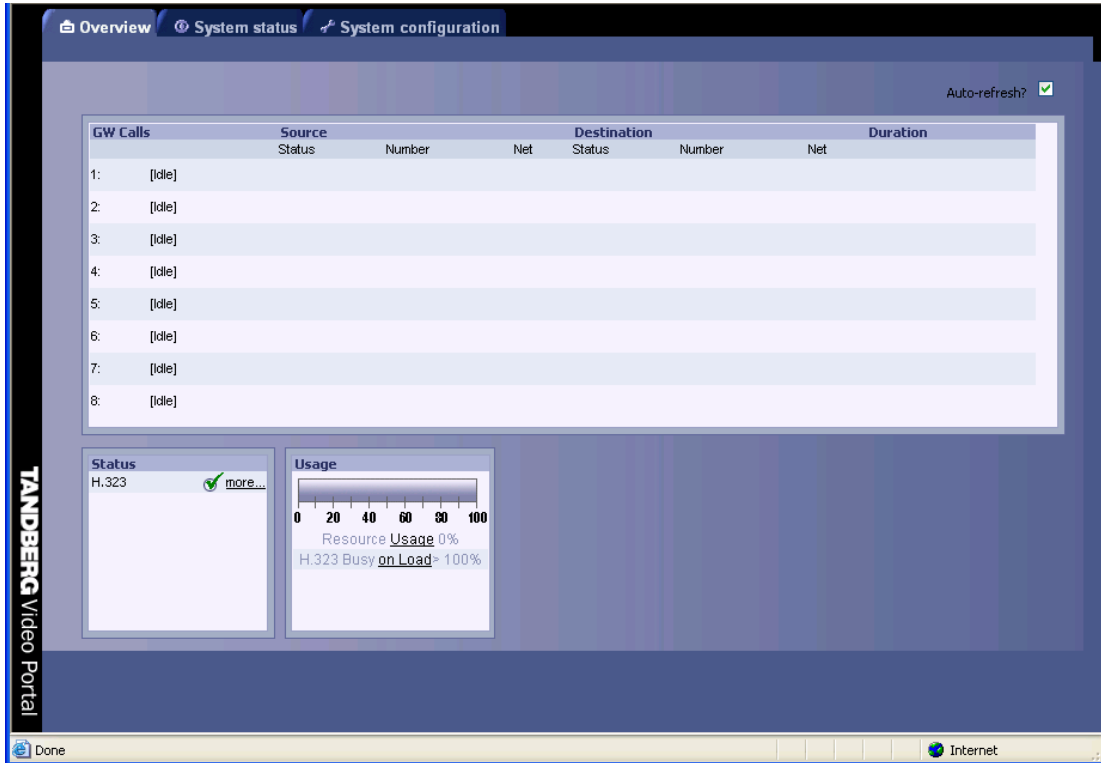
Filesystem	Size	Used	Available	Used(%)	Mounted
/dev/hda1	72G	1.5G	67G	3%	/
/dev/shm	251M	0	251M	0%	/dev/shm

The browser's address bar shows the URL: `http://10.31.1.213/management_console/data/index.php?objecttype=Password&action=Edit&id=1`. The browser's status bar indicates 'Internet'.

5 View System Status

The System Status windows of the Video Portal can be accessed via the default URL:
http://VideoPortal_IP_Address/.

The '**Overview**' window presents information about all calls routed through the Video Portal, i.e. inbound and outbound numbers, duration of calls and call status, like ringing (alerting), connecting and connected.



VP Calls

Shows all active calls, which are made through the Video Portal.

[Idle] No call is active.

Active Call A call is active.

Source / Destination

Source shows the Status of the incoming call to the Video Portal, the number and which network the incoming call is using.

Destination shows the Status of the outgoing call from the Video Portal, the number and which network the outgoing call is using.

Idle No active call, call has been disconnected.

Alerting Call is being connected, i.e. ringing state.

Connected Call is connected.

Number ISDN or IP number.

IP/H.323 Call connected is using the H.323 protocol over IP.

Duration

Shows the length of the current call.

Status

Shows current status of the IP status.

IP/H.323:



detail.

The gateway is registered with a Gatekeeper. Click on More... to see status in



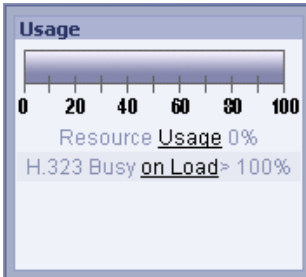
detail.

The gateway is not registered with a Gatekeeper. Click on More... to see status in

Usage

The usage bar shows the current status of all the available resources (CPU, ISDN channels and number of calls)

When the Resource Usage reaches the “Busy on Load”-limit, the gatekeeper will try to route outgoing IP calls to other gateways. This is done to maintain availability for incoming UMTS calls when using multiple gateways.

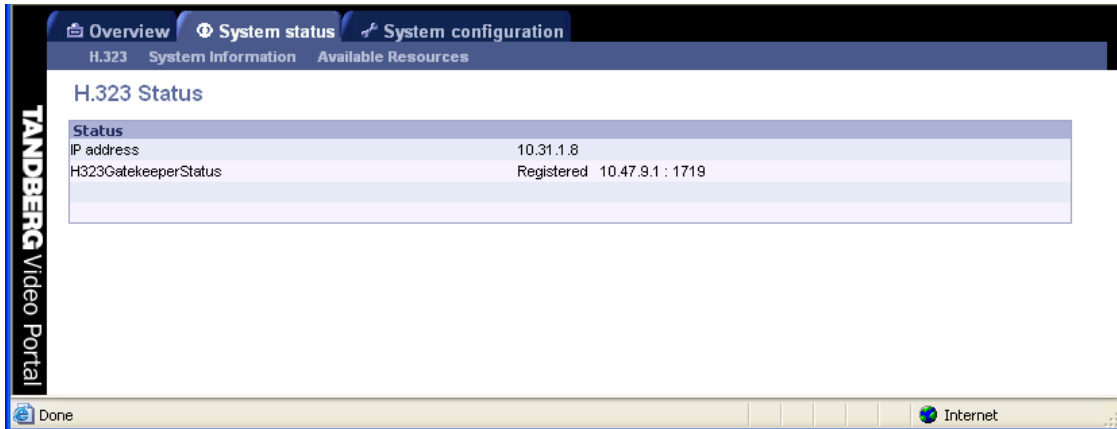


Resource Usage 90%. Click on the Usage link to see resource usage in detail.

H.323 Busy on Load > 70%. Click on the Load link to adjust the value.

5.1 H.323 Status

To view H.323 gatekeeper status, open 'H.323 Status' of the 'System status' tab, as shown in the figure below.



Note that, since this target system is not an endpoint it is not possible to use this IP address to place calls to or through the video portal.

IP Address

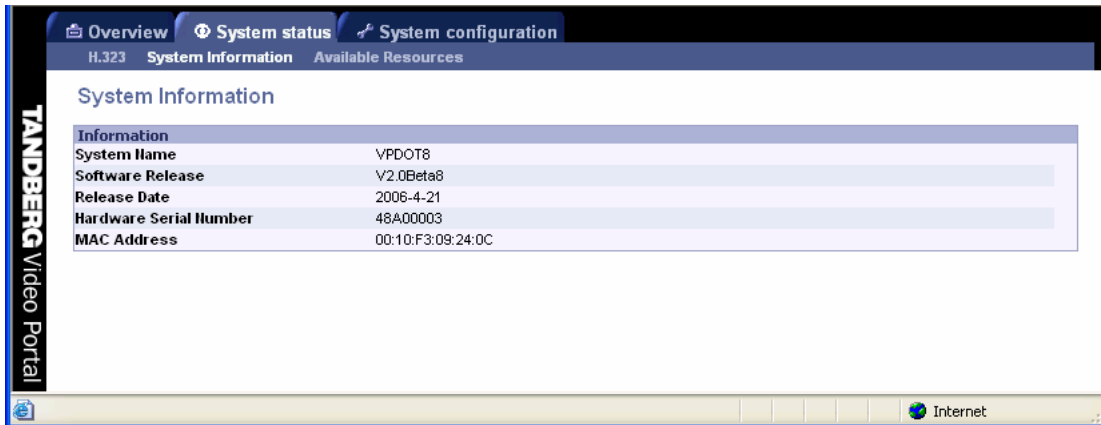
Shows the IP address of the Video Portal.

H.323 Gatekeeper Status

Shows status and IP address of the Gatekeeper, the Video Portal is registered to. '**Inactive**' means the Video Portal is not registered to a Gatekeeper. '**Registering**' means the Video Portal has problems registering with the selected Gatekeeper.

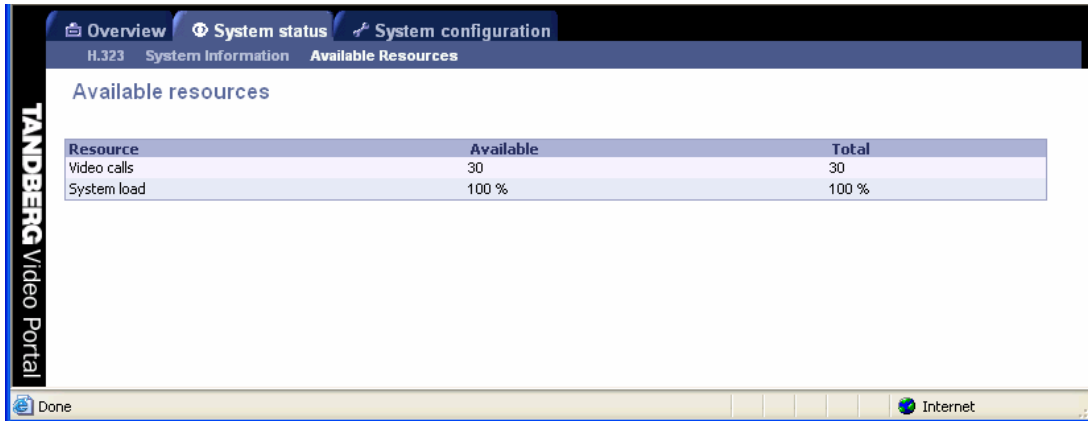
5.2 System Information

To view Video Portal information, open 'System Information' of the System status tab as shown in the figure below. This page provides an overview of installed software and hardware.



5.3 Available Resources

To view available resources on the Video Portal, open 'Available Resources' of the Systems status tab as shown in the figure below.

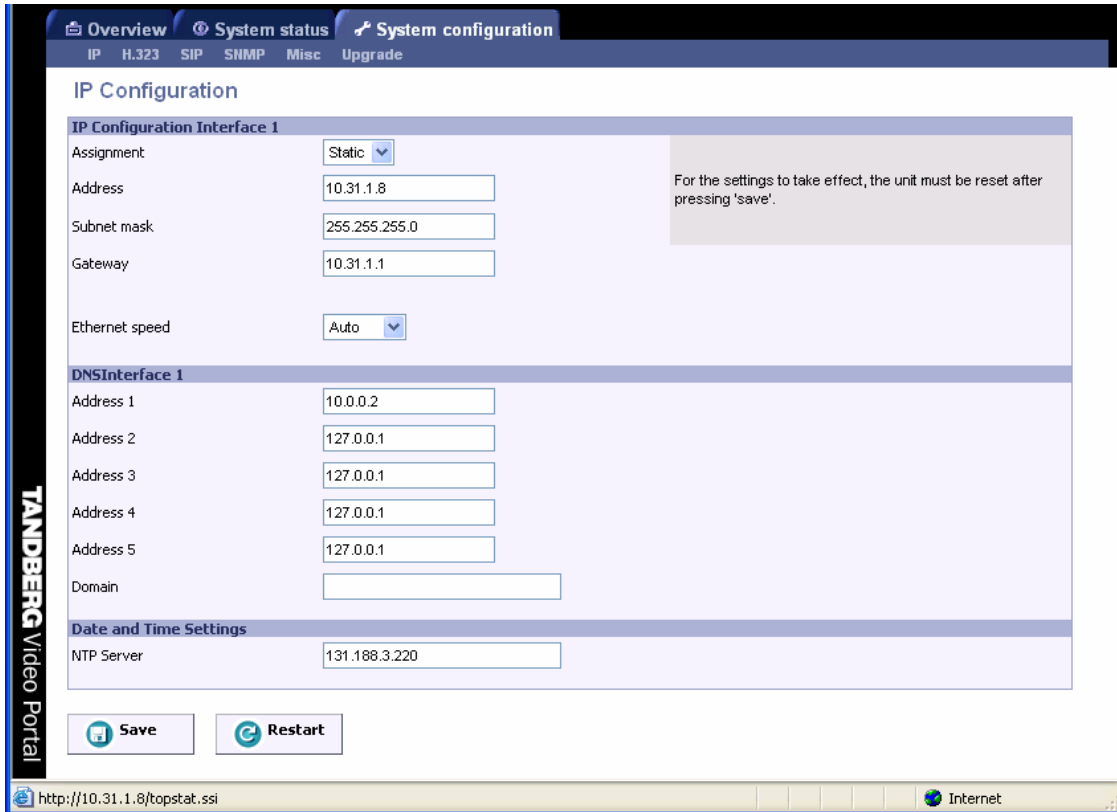


Resource	Available	Total
Video calls	30	30
System load	100 %	100 %

This tab shows the actual System Load, the amount of video calls and the amount of available ISDN channels. These figures depend on the system's resource use. Note that available System Load 100% indicates no load on the Video Portal.

6 Configure the Video Portal

To configure the Video Portal, click on the 'System configuration' tab. The window opens with the IP Configuration window by default.



6.1 IP Configuration

To configure the IP settings on the Video Portal, open 'IP' of the System configuration tab as shown in the figure above.

IP Configuration Interface1

IP Address Assignment

DHCP: Dynamic Host Configuration Protocol can be selected when a DHCP server is present. Static Video Portal 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 Video Portal's IP address and IP subnet mask and the Gateway's IP address must be specified in the respective IP address fields.

Address

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

Subnet Mask

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

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.

Ethernet Speed

- **Auto** The Video Portal will automatically detect the speed/duplex on the LAN.
- **10Half** The Video Portal will connect to the LAN using 10 Mbps/Half Duplex.
- **10Full** The Video Portal will connect to the LAN using 10 Mbps/Full Duplex.
- **100Half** The Video Portal will connect to the LAN using 100 Mbps/Half Duplex.
- **100Full** The Video Portal will connect to the LAN using 100 Mbps/Full Duplex.

DNS Interface1

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

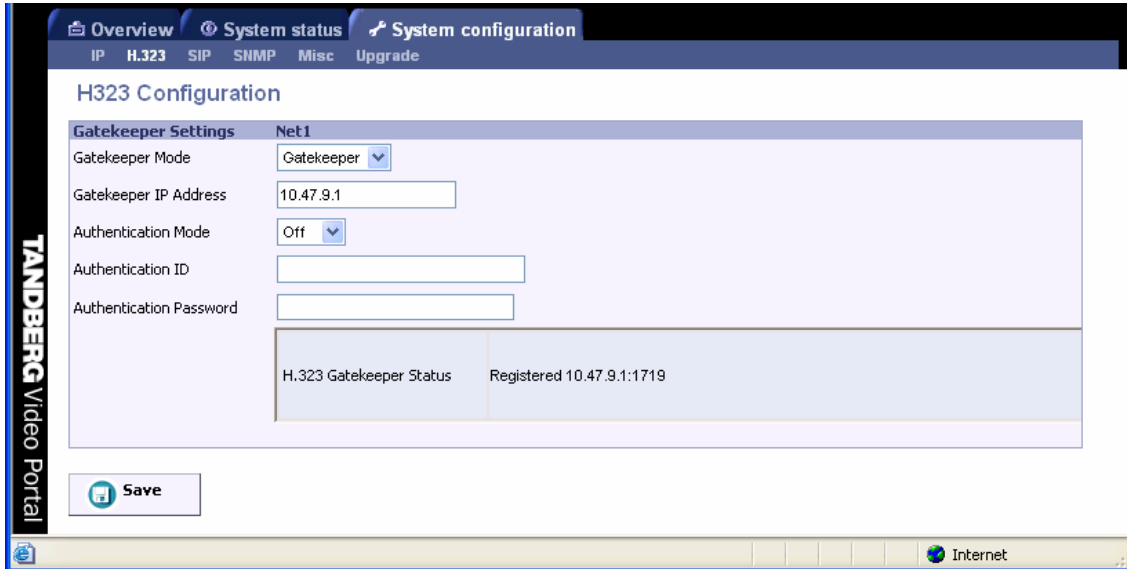
When ready to store the new settings, press '**Save**'. These settings will take effect when the system has been restarted.

Restart

This button will restart the Video Portal. Any changes made in the IP Configuration of the Video Portal will take effect after the system has been restarted.

6.2 H.323 Configuration

To dial out from IP to ISDN, through the Video Portal and 3G Gateway, requires the use of H.323 numbers (E.164 aliases). This means that the Video Portal must be registered to a Gatekeeper.



H.323 Gatekeeper Status shows the current status of the Gatekeeper registration.

Note that if the Gatekeeper is configured with an alternative Gatekeeper, the Status area might report a registration to the IP address of the alternative Gatekeeper.

Gatekeeper Settings

Gatekeeper Mode Enables the Video Portal to register to a Gatekeeper or without (direct mode). Selecting direct will gray out the gatekeeper IP address settings. When registered with a gatekeeper, the H.323 Gatekeeper Status shows Registered, the Gatekeeper's IP address and the port used.

Selecting direct mode will result in no Gatekeeper registration; hence it is not possible to dial through the Video Portal via alias names. The H.323 Gatekeeper Status area will be empty.

Problems with registration will be shown in the Status area and as a Red alarm on the 'Overview' page.

Gatekeeper IP Address

Enter the Gatekeeper IP Address that the Video Portal should register to. Leaving empty will result in direct dialing without the use of aliases.

Authentication Mode

Off Register to the Gatekeeper without authentication.

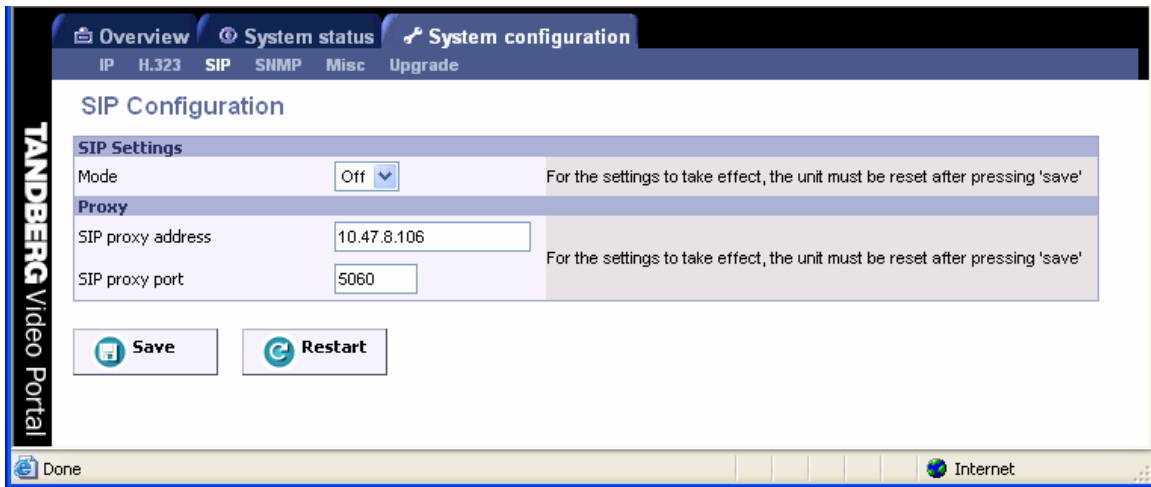
Auto Register to the Gatekeeper with H.235 authentication using ID/Password given below.

Authentication ID, Password

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

Note in case password is empty the Video Portal will still use the Authentication ID to register with the gatekeeper. However, when the Authentication ID is left empty, the System Name field (see paragraph 6.5) will be used to register the Video Portal with the gatekeeper in stead. In case both the Authentication ID field and the System Name field are empty the Video Portal can not be registered with the gatekeeper.

6.3 SIP Configuration



SIP settings

Mode

When set to “On” the Video Portal is registered to the SIP proxy.

Proxy

SIP proxy address

Enter the IP Address of the proxy server the Video Portal should register to.

SIP proxy port

Enter the port number belonging to the above mentioned proxy IP address.

Note that setting the Mode “Off” configured won’t hide the SIP proxy address and port settings

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 Video Portal. Any changes made with respect to the SIP settings of the 3G Gateway will take effect after the system has been restarted.

6.4 SNMP Configuration

SNMP (Simple Network Management Protocol) is used for monitoring and configuring different units in a network. The Video Portal'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.

Configuration

SNMP Mode

The SNMP operation modus can be set to:

- **On**, turn SNMP on;
- **Off**, turn 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 Video Portal.

Note that 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.

System location

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

SNMP Trap Host (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.

Save

Press '**Save**' to activate the new settings.

6.5 Miscellaneous Configuration

To configure the miscellaneous settings on the Video Portal, open 'Misc' of the System configuration tab as shown in the figure below.

The screenshot displays the 'Miscellaneous Configuration' page within the 'System configuration' tab. The page is organized into several sections:

- Configuration:** System Name field containing 'VPDOT8'.
- Password:** New Administrator password field and a Delete Password checkbox.
- Phonebook settings:** Address field and path field containing 'tms/public/external/phonebook/Phone'.
- External Manager settings:** Address field and path field containing 'tms/public/external/management/Sys'.
- Services:** Four dropdown menus for Telnet Service (On), SSH Service (On), HTTP Service (On), and HTTPS Service (Off).

A note on the right side of the Services section reads: 'For the settings to take effect, the unit must be reset after pressing 'save''. At the bottom of the configuration area, there are 'Save' and 'Restart' buttons. The left sidebar shows 'TANDBERG Video Portal' and the top navigation bar includes 'Overview', 'System status', and 'System configuration'.

Configuration

To change the system name of the Video Portal, enter the new system name in the '**System Name**' field.

Note that when the Authentication ID in the H.323 link (see paragraph 6.2) is left empty, the System Name field will be used to register the Video Portal with the gatekeeper in stead. In case both the Authentication ID field and the System Name field are left empty the Video Portal can not be registered with the gatekeeper.

Password

To change the system password of the Video Portal, enter the new password in the '**New Administrator Password**'. To delete the existing password, select '**Delete Password**'.

Note:

Forgot the password? Use the following procedure to set a new password:

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

- One 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.

Phonebook settings

To enable a phonebook in the Video Portal it is required to configure a TMS server. Enter both the IP address and the phonebook path.

External Manager settings

To enable cooperation between the 3G Gateway and an external TANDBERG Management System (TMS) enter both its IP address and its path.

Services

The different IP services on the Video Portal - Telnet, SSH, HTTP, HTTPS and SNMP can be disabled independently to prevent the respective access mode to the system.

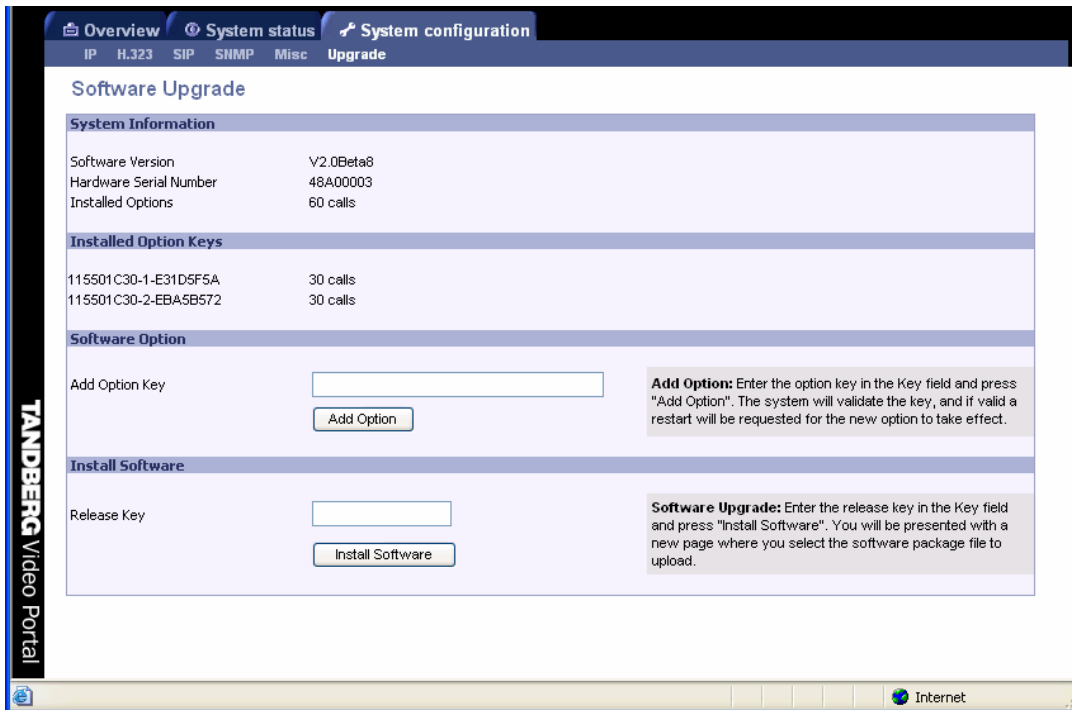
In addition, the SNMP Service Read Only/Traps Only will make it possible to read SNMP messages in addition to enable/disable SNMP.

Save

Press '**Save**' and thereafter the '**Restart**' to activate the new settings.

6.6 Software Upgrade

Software upgrade is where new software to the Video Portal can be installed from. It also shows current software version and the Video Portal's hardware serial number.



Note that to upgrade the Video Portal; both a valid Release key and Software file are required. 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 Video Portal must be provided when ordering Software Upgrade.

Installed Options

Shows the currently installed Options.

Installed Option Keys

Shows the installed options per option key.

Software Option

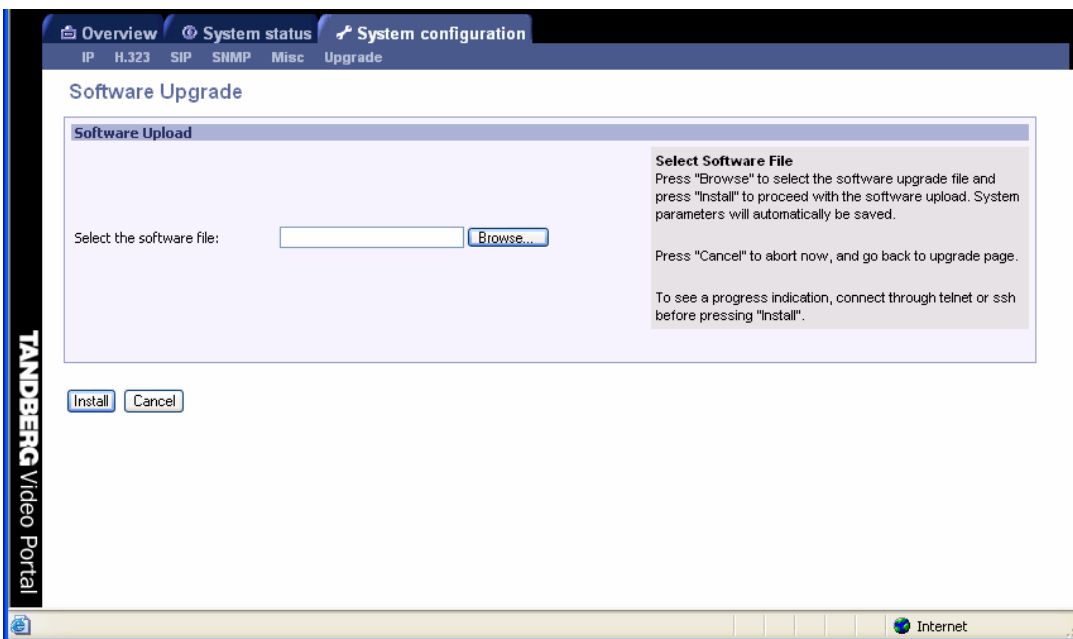
Enter the supplied option keys and press 'Add Option'. Note that the new options take effect after the next reboot.

Install Software

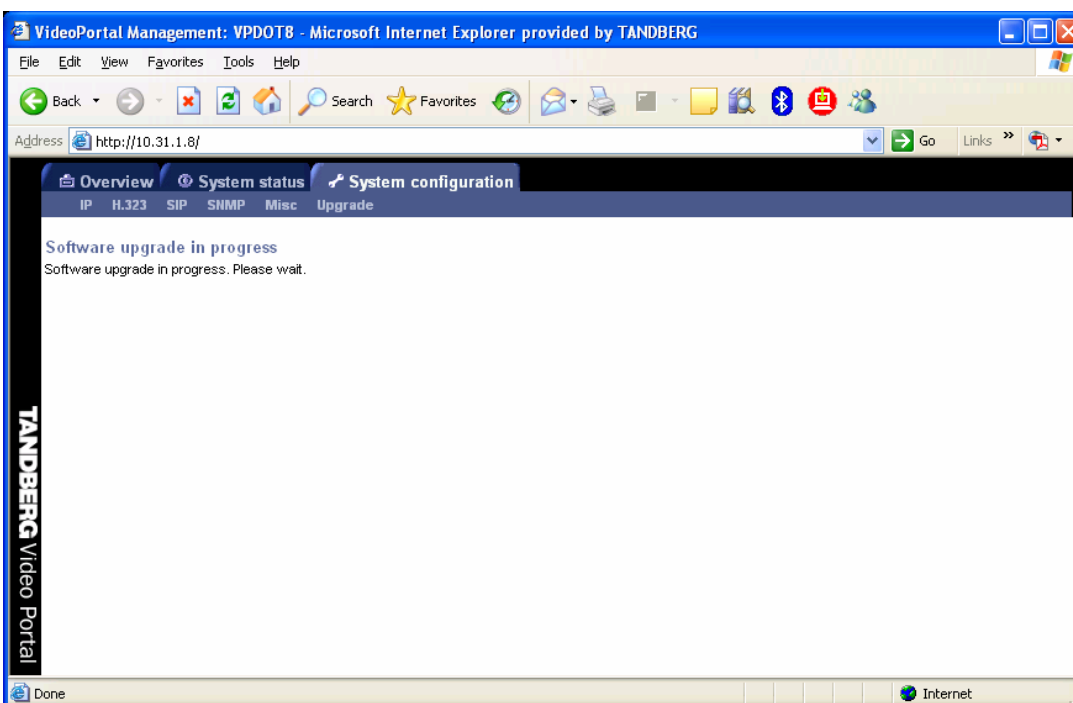
Release Key

Enter the release key in the Key field and press 'Install Software'. A new window will be presented, which enables

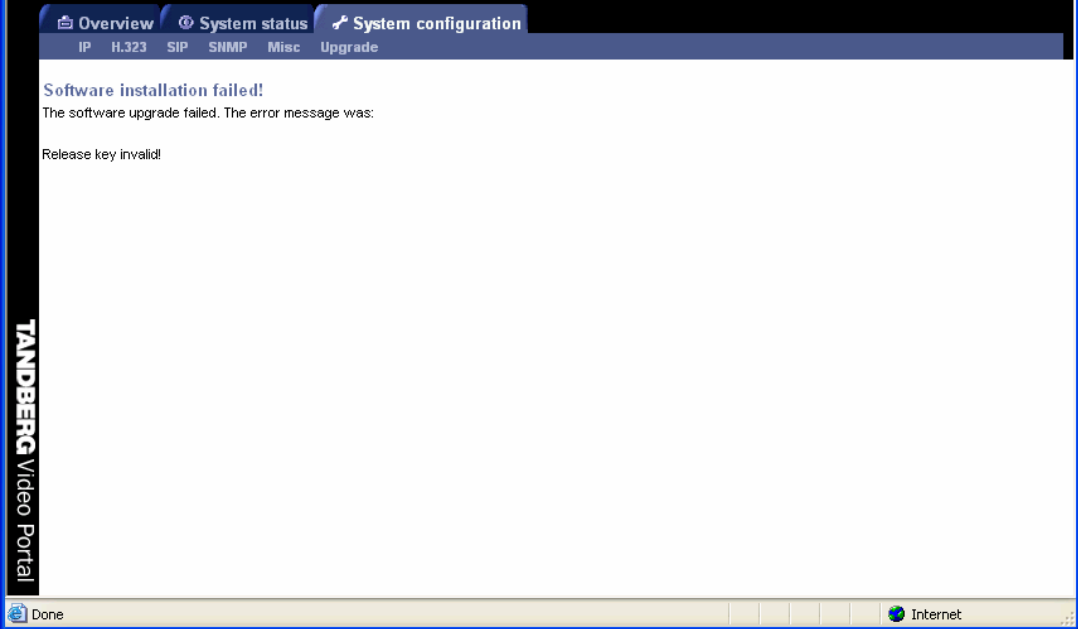
the entry of the software package, i.e. a .pkg, file to be uploaded (See figure below).



After the .pkg file has been selected, this will be uploaded into the flash memory of the Video Portal, showing the screen below.



In case of an incorrect Release Key, the original software will not be replaced; an error message is generated as presented in the figure below.



7 Appendices

- Appendix 1: Declaration of Conformity
- Appendix 2: Using the front panel LCD keys

7.1 Appendix 1: Declaration of Conformity

TANDBERG

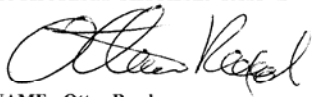
EC DECLARATION OF CONFORMITY

MANUFACTURER: TANDBERG Telecom AS
TYPE NUMBER: TTC2-03
DESCRIPTION: Network unit
DIRECTIVES: LVD 73/23/EEC
This equipment EMC 89/336/EEC
R&TTE 99/5/EEC
complies with.
HARMONISED STANDARDS: EN 60950-1: 2001, A11
Applied in order to verify EN 55022 : 1994, A1/A2
compliance with directives. EN 55024 : 1998, A1/A2
EN 61000-3-2 : 2000
EN 61000-3-3 : 1995, A1
TBR3 Layer 1, 2 and 3
TBR4 Layer 1, 2 and 3

TEST REPORTS/ CERTIFICATES ISSUED BY:	Report/Certificates No.:
LVD (Nemko AS)	55584
EMC (Nemko AS)	55273/3
EMC (Spot-on International Inc)	EC4D2807
R&TTE (Deutsche Telekom AG)	01/01789/2/UVZ
R&TTE (Cetecom Int Serv GmbH)	3-4143-1-2/04
R&TTE (Cetecom Int Serv GmbH)	3-3487-1-2/02
R&TTE (Deutsche Telekom AG)	98/164/HJ

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7.2 Appendix 2: using the front panel LCD keys

Every button on the front panel has multiple functions due to the limited amount of keys. In this appendix it is explained what the different functions are at different levels.

State 0: Display Status info

Any Key: State 1

State 1: menu navigation, Display current menu item

- **Up/Down**: navigate between different sub-menus
- **ESC** Up in the menu structure, State 1; from lowest level to State 0
- **ENTER** for menu items: deeper into the menu structure, State 1
- **ENTER** for data items: State 2
- **ENTER** for selectable data items: State 7
- **ENTER** for command items (reboot..): State 6

State 2: Show Data Element (1e line Data Element description, 2e line Data Element value)

- **Up/Down**: Scrolling in the content if wider then 1 display width, State 2
- **ESC**: State 1
- **ENTER** for textual data items: State 3
- **ENTER** for selectable data items: State 7

State 3: Navigate within textual data element

- **Up/Down**: Cursor (non blinking) place on correct location in the data element, if necessary scroll. Positions with an alphabet of only 1 character (e.g. the full stop "." in an IP address) is skipped), State 3
- **Enter**: State 4
- **ESC**: With changes in the data: State 5 Confirm
- **ESC**: Without changes in the data: State 2

State 4: Edit textual data element, Cursor blinking on the character position to be changed

- **Up/Down**: Change character cyclic within the alphabet for that position, State 4
- **ENTER**: Next position (as State 3 [UP]), State 4
- **ESC**: State 3

State 5: "Confirm" Menu with 2 Items that can be scrolled using UP/DOWN (like State 1), "Yes"/"No", "No" is de default.

- **Up/Down**: browse Yes/No

- **ENTER:** in No state: State 3
- **ENTER:** in Yes state, store, State 2
- **ESC:** Cancel the edit, State 2

State 6: "Confirm" Menu Items like State 1 with Yes/No, No is the default

- **Up/Down:** Scroll through Yes/No
- **ENTER:** Confirm choice, State 1
- **ESC:** State 1

State 7: Choose Configuration option.

- **Up/Down** previous/next, State 1
- **ESC** Cancel Edit, to State 2
- **ENTER** Confirm Edit, to State 2

Technical Specifications

Mean Time Between Failures:

NSA1046: 37404 hr (flash base)

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