

# TrueConf Server Video Conferencing System

Administrator Guide



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# About this document

This document is part of TrueConf Server video conferencing system documentation package and contains instructions on installation, setting up and use of the system's server part.

For effective work with the document basic level of IT and network literacy is required.

# **Contact Information**

TrueConf Tel.: +1 347 8783263 General inquiries: info@trueconf.com Sales inquiries: sales@trueconf.com Support inquiries: support@trueconf.com

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# **1. General Information**

# 1.1. TrueConf Server Components

# 1.1.1. Server Side

- TrueConf Server;
- TrueConf Manager.

# 1.1.2. Client Side

TrueConf Client.

Note: See TrueConf Client application user guide to learn how to install and configure TrueConf Client application.

# 1.2. TrueConf Server Components Description

# 1.2.1. TrueConf Server

This component is a software video server. It gets installed as Windows operating system service and provides:

- Client authentication and authorization;
- Client connection, including connection through NAT's and proxy servers;
- Media stream retranslation when direct stream translation is not possible;
- Communication between remote servers connected to the option "Federation";
- Storing the call history.

## 1.2.2. TrueConf Web Manager

This component is dedicated to server component configuring.

TrueConf Manager provides:

- Server registration, start, stop and state monitoring;
- Server log viewing;
- Server IP-address and port set-up;
- Registration of new users, activation and deactivation;
- Revision of support information;
- Group conferencing of different modes.

# 1.2.3. TrueConf Client

This is a client application. It is installed on the users' computers and allows making and receiving of video calls.

TrueConf Client provides:

- User authentication in the TrueConf Server system;
- Possibility to make video calls or create and participate in various group video conferences;
- Set up of video and audio input and output;
- Exchange of text messages;
- White board tool for 1- on -1 conferences;
- Slide show tool for displaying of graphic images in 1-on-1 and group conferences;
- Screen sharing for transmission of your desktop screen to one or more participants;
- File transfer in 1-on-1 video calls;
- User address book support and management;

- Call list management;
- Self view display in conferences;
- Support of video formats: SD (320×180), HQ (640×360), HD (1280×720). In 1-on-1 video conferences is supported FHD video format (1920×1080);
- Video and/or audio mute feature;
- TCP and UDP transport.

Note: You can find information on how to connect client application to server in the <u>"Client Application</u> <u>Connection"</u> section of this document

# 1.3. Recommended configuration for TrueConf Server system server

- a Dual Core processor;
- 1GB RAM;
- 20Gb free hard disk space;
- 100 Mbit/s Ethernet;
- MS Windows Server 2000/2003/2008 operating system.

# 1.4. Recommended configuration for TrueConf Server client terminal

- Intel or AMD Processor with 2 GHz or higher clock speed;
- 512 MB of RAM and 100 MB free hard disc space;
- Windows 2000/XP/Vista/7 operating system;
- 256 kbps network connection in both directions;
- Webcam;
- Full-duplex sound card;
- Headset (in order to avoid echo).

## 1.5. Recommended configuration for the use of HQ mode

- Windows 2000/XP/Vista/7 operating system;
- CPU: Intel Core 2 Duo E6400 / AMD 64 X2 4200+;
- 1GB RAM;
- DirectX 9c compatible video card (at least 256 MB RAM).

Note: To learn more about the use of TrueConf Server client application please refer to the "Client Application Manual" which is also included into the system documentation package.

# 2. Server setup and registration

When TrueConf Server software is installed and server computer is connected to the network, then the rest of server configuration will take about 5 minutes.

#### Step 1

Install TrueConf Server software.

#### Step 2

After the installation of your web browser will automatically start server setup interface

#### Step 3

Register the server. To activate the server you have to get a registration key. Click on "Get FREE Key":

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Inecion FREE Server trueconf.name#vcs	
TrueConf Server Activation	î
You have to register TrueConf Server in order to activate it. You can request a free registration key or buy an extended license.	
Registration Key	
Server Name Server name should be unique. Example: videoserver.your-company.com	
Register	
See the <u>help</u> section or contact TrueConf support by phone +1 347 TRUECNF (878-3263) or write us at sales@trueconf.com	
You have initiated offline registration process. Open the file you received by e-mail to continue this process. Please enter registration data above to register the serve Internet.	r over the
Continue offline registration	
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Click to open a page with application to TrueConf Server Free. Carefully fill all the fields and click on "Get Registration Key":

⇒ C (	https://trueconf.com/server/key/?lang=en&utm_medium=app&	utm_source=TCS&utm_campaign=configurator&utm_conten Q & 😒 🧕	=
	TrueConf Server Free: Get a Registration Ke Felds marked with an asterisk (*) are required.	Language: English •	
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	Ukraine		
		Need help?	
	Get a Registration Key	What are the terms of use of the TrueConf Server Free?	
		<ul> <li>Can Lisstal TrueConf Server on a regular PC2</li> </ul>	
		Are valified to don't inen dochere:	
		Phone: 1-347-TRUECNF (1-347-678-3263)	ł
		Enal: sales@trueconf.com  Need help?	

A registration key will be sent to the email address that you provided:

← → C 🙆 https://trueconf.com/server/key/fini	ish/	Q 등 값 🙆 🚍
	1-347-TRUECNE (1-347-878-3263) G TrueConf W	oridivide A Personal Area
Conf Products Feature	s Pricing Equipment # Download	Support About Blog
Fre	ee Video Conferencing & UC Server for LAN Download	
	Langue The registration key has been sent Thank you for signing up with us! A letter with the registration key has been sent to enal judison@trucconf.ru MOTE Do not close the window until you receive an enal from us with your registration key. If there is no such enal, please check your SPAR folder or resend the email by cloding on the h case of any difficultes please contact us: sales <u>Shuecenf.com</u> or by plone 1-347-TRUECTM*(1-347-878-3263)	ege: English •

Note: The key should be delivered in 15 minutes maximum. If this did not happen, try again, or check the SPAM folder in your email client.

Return to the page of TrueConf Server settings and enter the registration key you have just received by e-mail.

Press "Register" to continue:

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← → C [] localhost/admin/reg/begin/	< 등 ☆ Ξ
Ineconf FREE Server trueconf.name#vcs	
TrueConf Server Activation	÷
You have to register TrueConf Server in order to activate it. You can request a free registration key or buy an extended license.	
Registration Key           Server Name	
Register           See the help section or contact TrueConf support by phone +1 347 TRUECNF (878-3263) or write us at sales@trueconf.cc	<u>903</u>
You have initiated offline registration process. Open the file you received by e-mail to continue this process. Please enter registration data above to registration functional and the second	er the server over the
Continue offline registration	
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After the server has been successfully registered, on top of the activation window of web-configurator a special sign will appear.

If you are installing server behind the firewall, then in order to complete the registration you should open port 4310 access from inside to internet.

#### **Offline registration**

To register offline on a computer without an Internet connection, you will need a device connected to the Internet to obtain a registration key. On that device, go to https://trueconf.com/server/trial/ and follow the instruction from the **"2.Server setup and registration"** section.

Once you receive an e-mail with the test key, enter it in the field **"Registration Key"** in the Web manager on the computer with the running server and without an Internet connection, and click on **"Register"**:

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TrueConf Server Activation		•
You have to register TrueConf Server in order to ac You can request a free registration key or buy an ex Get FREE Key	tivate it. trended license.	
Registration Key Server Name Server name	e should be unique. Example: videoserver.your-company.com	
Register See the <u>help</u> section or contact TrueConf support by	y phone +1 347 TRUECNF (878-3263) or write us at <u>sales@trueconf.com</u>	
You have initiated offline registration process. Open the file you n Internet. Continue offline registration	received by e-mail to continue this process. Please enter registration data above to register the server over the	
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In the registration window a new button will appear, **"Create registration file"**. Clicking on it will generate a file that you will need to send:

3 TrueConf Server Activation ×	
← → C Diocalhost/admin/reg/begin/?offline=1	ର୍ଜ ☆ ≣
TrueConf FREE Server trueconf.name#vcs	
TrueConf Server Activation	
You have to register TrueConf Server in order to activate it.	
Get FREE Key         Offline-server registration	
Registration Key	
Server Name Server name should be unique. Example: videoserver.your-company.com	
Register	
See the help section or contact TrueConf support by phone +1 347 TRUECNF (878-3263) or write us at sales@trueconf.com	
Failed to connect to the registration server. The server might be unavailable at the moment, or TrueConf Server is not connected to the Internet. In this co offline registration.	ase you can use
To do this you will need generate offline registration file and send it to sales@trueconf.com.	
Create registration file	
Choose the file you received to continue registration process. In case you shut down the browser window, you can continue registration process at the True restart.	eConf Server Manager
Continue offline registration	-
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Offlinereg.vrg file will be automatically saved in the default "Downloads" folder of the browser.

Transfer this file using a flashdrive to a PC connected to the Internet and send at

support@trueconf.com. In return, you will get the file you will need to transfer to your PC with the server you are registering offline.

\* If downloading files option is disabled in your browser, you will not be able to download the offline registration file. Enable downloading option in your browser, then press again "Create registration file".

Note: always wait for a response to a request you have sent and do not restart the offline registration. If you restart the offline registration, the file sent for the previous request would not work aand you will have to do the process again to register.

Click on "Continue offline registration" on your computer and select the file offline.reg:

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← → C Diocalhost/admin/reg/begin/	Q 🖪 🏠 🔳
IrueConf FREE Server trueconf.name#vcs	
TrueConf Server Activation	
You have to register TrueConf Server in order to activate it. You can request a free registration key or buy an extended license. Get FREE Key	
Registration Key	
Server Name Server name should be unique. Example: videoserver.your-company.com	
Register	
See the <u>help</u> section or contact TrueConf support by phone +1 347 TRUECNF (878-3263) or write us at <u>sales@true</u>	econf.com
You have initiated offline registration process. Open the file you received by e-mail to continue this process. Please enter registration data above over the Internet.	to register the server
Continue offline registration	-
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When offline registration is successfully finished, the Web manager will notify that the server is registered.

#### Step 4

The server will start using all computer IP addresses on a default TrueConf port - 4307. If you are installing the server behind the firewall or NAT, and some clients will be using the server outside the firewall or NAT, you should open and/or forward port from client connections.

Note: For more information see the <u>"Network"</u> section.

#### Step 5

In left menu select "Users", then select "User Accounts" tab and add the desired users.

#### Step 6

For the users to start video conferencing, the link to the guest page must be distributed among them. On this page they can download client application for all operating systems.

Guest page is available at: http://localhost/guest (link may be different ac-cording to the settings of the server). For example, if the port 8888 was cho-sen during the installation, the guest page will be available at http://localhost:8888/guest).

You can find the link to the guest page in the Web/Settings Tab on the server settings page. On the guest page the user can download client applications for Windows, OS X, Linux, Android, and iOS:



#### Step 7

Distribute the link of the client application to be installed on end-user com-puters.

Note: For more information see the <u>Client Application Connection</u> section.

TrueConf Server is ready to work.

Now you can configure other server settings. You can find description of other server manager tabs later in this document.

# 3. Server installation

To install the server components use your installation package.

You will need a registration key.

Locate and run installation package

Follow the installation prompts

After the installation finishes, in your browser will launched web interface to configure the TrueConf Server.

# 4. Administering the Server

Server can be administered from any computer in the same local network where it is installed. The access is limited to the following ranges of IP addresses: 10.\*, 192.168.\*, 172.16-172.31, 127. At this point the installer does not open a port in the firewall for TrueConf Web Manager. If the administrator wants to administer the server from a remote machine, he/she needs to make sure that the server firewall allows connecting on the port, on which TrueConf Web Manager is launched. TrueConf Web Manager port is determined during the server installation. By default, port 80 is selected. If it is taken, 8888 is selected. If it is also taken, the user selects the port in the installation dialog window (if the port is not 80, then it is visible in the browser address bar after the colon in the hostname http://localhost:8080).

To access TrueConf Web Manager from the machine on which the server was installed you will not need any password (the host in the browser - localhost or 127.0.0.1).

Remote access requires authorization with the accounts of the Windows users from the group "TrueConf Server Admin". When the server is installed the user account is added to this group. To give another user access to TrueConf Web Manager, the administrator must add the user account to the "TrueConf Server Admin" group.

# 5. Configuring Server

# 5.1. "General" Group of Settings

# 5.1.1. "About" Section

This page contains details on the license, registered contact person and available extensions used by the server. You can re-register your server here or proceed to purchasing new licenses for your server. In case of troubles with the registration of the server administrator may contact TrueConf technical support using the contact information that is displayed in case of an error.

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					Server status: running, registered
🖑 TrueConf			ub0ep.trueconf.name#	vcs	System T
General About Settings Network Network Settings	About Registration informat Server 32:	LIBOEP			Registered Economic 25 days
SMTP SIP Gateway H.323 Gateway Web Settings Security	Organization name: Country: Contact person: Contact e-mail;	IT-Company USA Kate Brooks brooksijitueconf.com			Ragicler
Security Users User Accounts Groups Allates User Storage Group Conferences Recordings Endpoints Help	License information Online uses: Conferences: Dupintion citie: Renew citie: SIP/H.323 gateways: Mode:	20 20 17.01.2015 17.01.2015 1 Permanent	Extensions Connaction to registration server Rosming LEAP File Transfer Seconomy Venteor Recording Venteor Recording Venteor Recording Scientiony Agrametic Conferences Robebased Conferences Robebased Conferences Multipletway WebRTC Boascasting WebRTC Boascasting WebRTC Boascasting WebRTC Boascasting WebRTC Boascasting Robebased Dectory Server Type Webmas Technical support	Not required Disabled Enabled Enabled Enabled Enabled Enabled Enabled Enabled Enabled Enabled Enabled Disabled Disabled Bask	
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If the server is connected to the Internet, administrator will get notifications about server updates. Notification sign will appear in the left menu in TrueConf Web Manager by the "About" section. On top of the page a message will be displayed with the link to download new version. After an update the sign and the notification will disappear.

If connection to the registration server is lost, your sever will be shut down in 12 hours. The scheduled time of shutdown will be displayed in the tab "About".

## 5.1.2. "Settings" Section

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					Ser	ver status: running, registered
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Help	TrueConf Clent	6.5.0	6.2.0	6.5.0	http://127.0.0.1/downibads/trueconf_client.eve	
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	Applications settings					
	Guest user password				_ ←	
	User bitrate limit					
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	Pixel frame size limit	Auto	•			
	Enable extended statuses in conferences	0.4				
(13)	Bave Application Bettings					
<u> </u>	This product is the part of the TrueCorf Server v4.3.0.13	24 loarse and is need	ed to configure and cont	nd server. TrueCorf Se	rver (c) 2003-2014 TracCorf LLC. All rights reserved.	

1 - server work directory, logs are saved here.

**2** - by checking this field you activate detailed logging.

3 - opens the server log viewer.

4 - allow to view a list of statistical reports for each month. Each report consists of two parts: part 1

- detailed information about each conference, part 2 - information about conferences, grouped by user.

**5** - backs up the server configuration to a file. A backup copy of the TrueConf Server settings allows you to save the basic settings of your server: users, groups, scheduled conferences, network settings. This capability is useful when re-configuring the server, e.g. when you have reinstalled your operating system. Backup copy does not save files from the working directory as well as recordings.

**6** - restores server configuration from the file. When restoring settings from a backup created on the earlier version of the server, you need to re-launch the installation of the current server version upon completion of restoring. It is necessary for applying the settings to the new version of the server.

If server does not run after restoring backup settings, check the network settings: the current IP addresses of the server might not match with the previous IP addresses of TrueConf Server, and you will need to configure the IP addresses again.

If you are restoring the settings on an OS other than the OS you ran when you were making backup of those settings, you will need to re-register the server to start it.

If you are installing a new version of the server over the old one, all settings are retained, you don't have to apply backup settings after the installation of a new version of the server.

If you are installing the older version over the new one or restoring the settings created on a newer version of the server, the stable operation of the server is not guaranteed.

**7** - the list of client applications, available to use with the server. Every client can be managed independently. To do this click on the application name and change the needed settings in the

opened tab - "TrueConf Client Settings" or "TrueConf Mac OS X Settings".

**8** - the password used to connect guest users from TrueConf web plugin. The availability of this function will be regulated by the TrueConf Server license.

**9** - check the box to the right of the field and move the slider to set the maximum outgoing bitrate (minimum value - 32kbit / s, maximum value - 4096 kbit/s).

**10** - the default value is "Automatically". When clicking on the arrow, a drop-down menu will appear with values 10, 15 and 30 fps. Select the appropriate version.

**11** - the default value is "Automatically". When clicking on the arrow, a drop-down menu will appear with the value range from 320x186 to 1280x720 px.

**12** - displaying statuses during a conference.

**13 -** save changes client application.

#### TrueConf Client/TrueConf Mac OS X Settings

Settings TrueConf Client	×	
Min version		
6.2.0	•	-(1
Current version		
6.4.4	+	-2
Last version	_	
6.4.4	+	-3
Setup URL		
http://192.168.66.79:8888/downloads/trueconf_clien	+	-4
Update URL		
http://192.168.66.79:8888/downloads/trueconf_clien	+	-(5
	-	
6 Save Cancel		

**1** - the earliest available version of the client. If the current version of the client application is earlier than the said version, the work of the client application will be stopped and it will be updated in a mandatory manner.

**2** - indicates the current preferred version of the client application. If the application version is less than the indicated version, the user will be asked to upgrade his client application and given the link to the appro-priate version.

**3** - the version of client application to be downloaded with the update. it is indicated in the process of updating.

4 - link to download the client application.

5 - link to download the new client application.

6 - to save the changes.

# 5.2. "Network" Group of Settings

# 5.2.1. "Network settings" Section

**Internal addresses** and ports that will be used for clients to contact this server. By default the server uses all IP addresses of machine on default TrueConf Server port 4307. When default settings are on, current connections are displayed in this column.

**External addresses** are the ports and IP addresses or DNS names, which help client applications to connect to the server. If the server uses NAT or has DNS names, external addresses can differ from the internal ones.

DNS names can be used for host identification. When using addresses and/or ports translation (NAT), translated address and port must be en-tered into the relevant fields.

If you plan to transfer server to another IP address, you need to enter the future IP address and relevant port into the right column. This will help users to store the future IP address during the next session. When the server is switched to the new address, users will switch to it automatically.

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🕾 TrueConf	ub0ep.trueconf.n	ame#vcs	System T
General About Settings Network INEtwork Settings SMTP SIP Gateway H-323 Gateway Web Settings Security Users User Accounts Groups Aliases User Storage Group Conferences Recordings Endpoints Help	Network Settings Internal addresses Isternal addresses Isternal addresses Isternal addresses Isternal addresses Add	External addresses	2 Apply 5

- 1 to change internal addresses, uncheck "Listen on all IP addresses" checkbox.
- 2 to specify non-default external addresses, check "Specify" checkbox.

**3** - to add a new internal or external IP address. Use the button "Add" and enter the necessary data in the "Host and "Port" fileds.

- 4 return to previous settings.
- **5** to save the changes.

# 5.2.2. "SMTP" Section

Mail server is used to send notifications to the users about missed calls and to the TrueConf system administrators about the server operation.

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		Apply		

**1** - IP address or hostname of the SMTP server used by the TrueConf Server.

2 - allows the server to send notifications by e-mail in case of restart of the service.

**3** - authentication type. If you click on the arrow, a drop-down menu will appear with the following values: **no authoriation** - mailing through the SMTP server withoutn authorization; **simple password** - mailing through the SMTP server with authorization; **NTLM** - mailing through the server with NTLM authorization (no password).

Note: When **"simple password"** authentication type is selected, new fields will appear in section "Outgoing Mail Server" - "Username" and "Password". Specify your email login and password. If SMTP is configured in the local network, you don't need to fill in these fields. You also need to specify the email details in the fields "Host" and "Port". E.g., if you are using a gmail account, you have to enter "smtp.gmail.com" in the field "Host" and the port value in the "Port" field.

If the external mail server demands using SSL (a secure authorization protocol) when authorizing, check the box **"Use ssl"**.

4 - allows the server to send Missed Calls notifications by e-mail.

Note: IP address 127.0.0.1 means that you are using SMTP server on the same computer as TrueConf Server. In this case you will be prompted to verify SMTP server installation on this computer.

In case of a missed call to a registered or unregistered user of TrueConf Server this event will be logged on the server and user will be notified by predefined e-mail.

5 - this button restores the default letter templates.

- 6 editable example of subject and body of the letter about the missed call to unregistered users.
- 7 editable example of subject and body of the letter about the missed call to registered users.
- **8** by placing a checkmark in this box you activate an automatic notifications feature, that will notify users about taking part in a conference. Each of the chosen participants will receive an

invitation e-mail. If the conference is One-time, the user will receive an invitation immediately, if the con-ference is Recurrent, the invitation will be sent directly before its start.

**9** - template of the invitation to a group conference.

**10 -** saving the changes made.

Note: Server logs time of the call, name of the caller, username. This information is substituted by the server in the template using tags:

- %recipient\_display\_name name;
- %caller\_display\_name display name of the caller;
- %caller\_call\_id id of the calle;
- %missed\_call\_time time of the call.

# 5.2.3. "SIP Gateway" Section

Components of this tab allow to configure parameters of the SIP gateway.

\* The maximum number of SIP connections in the free version of TrueConf Server Free is 1.

- a P	localhost/admin/network/sin/	
	localitost/admin/network/sip/	
veConf	ub0ep.trueconf.name#vcs	Server status: running, i System
	SIP Gateway	
Settings	VotP Server	0
oway ateway	Pasavord: Pasavord:	3
(5 <u></u>	Registration: off  Registration: off Registratio: off Registration: off Registration: off Registration	(4)
rage therences	Network settings	
	Ø Lizen on al IP addresses     ↓     127.0.0.15060 (top)	
	127.0.0.1:5060 (udp)	
	Add	
9—	127.0.0.1 Apply	10
	Default Call Destination	

VoIP Server is used for making calls to phones (#tel:89261112233);

SIP Proxy by default is used for making calls to Call\_ID of a user (#sip:james78).

- 1 IP-address or host name of the server, which is used for calls in the PSTN.
- 2 account of the VoIP Server/SIP Proxy for the gateway.

**3** - password to the account of the VoIP server/SIP Proxy, which is used for the gateway in the system.

4 - registration mode on a third-party SIP server using REGISTER request.

#### **Possible entries:**

off - REGISTER request cannot be sent, au-thorisation is performed during a call;

**permanent** - automatic authorisation on each server's launch, available untill the server shutdown;

before call - REGISTER request is sent di-rectly before a call and is supported during a call only.
5 - instead of plus "+" symbol enter in the field the international prefix (e.g. prefix for calls from Russia: 8-10). Thus, when dialing +7(926)123-45-67, it will be automatically substituted with 8-10-7(926)123-45-67. If you place the mouse cursor over the field, a popup tip will appear.
6 - display of the status of the connection to the SIP server. Possible values: connected - connection with the SIP/VoIP server has been established; wrong authorization - authrization error

(wrong login or password); invalid server - incorrectly specified SIP/VoiP server.

# 7 - saving the changes.

**8** - by default, all IP addresses are used. You can un-check the field and add the addresses manually. To do this, fill the Host and Port fields. Then click on "Add". The table on the left will display the submitted information. They can also be deleted. To do this, select the one you want to delete by checking the tick on the left and click on "Remove Selected".

**9** - domain name or IP address of the server. Click on "Apply" so that the incoming calls are displayed as user@domain, where domain is the Outgoing SIP domain. This allows SIP users to call back the users of the server.

**10 -** saving the changes made for SIP from Domain.

**11 -** input field for TrueConf recipient ID. CID of the conference can be used as a call addressee. Press "Apply" to enable SIP subscriber to define the recipient of the call.

# 5.2.3.1. SIP-terminal calling format from TrueConf Client

One of the formats given below can be used:

- #sip:Call\_ID@Server\_name, where Call\_ID is SIP user, Server\_name is a host name or IP-address
  of the SIP server;
- #sip:Call\_ID, call is directed to the Call\_ID user on the server, which is indicated in the VoIP Server/SIP Proxy of the SIP Gateway tab;
- #sip:@IP, call to the IP-address of the SIP terminal.
- **#sip:@hostname**, call to the DNS name of the SIP terminal.

Call routing	Value
Via VolP	Calls are redirected to phone numbers (#tel:89261112233)
Via SIP Proxy	Calls are redirected to user's Call_ID (#sip:james78)

## 5.2.3.2. Invitation of TrueConf customer to the conference that is held on the SIP server.

- login to the client application TrueConf Client;
- organize conference on the SIP server (MCU), invite terminals to the conference;
- add to the conference TrueConf ID you used to login to the client application TrueConf Client, as TrueConf\_ID@IP, where IP – gateway address of the TrueConf Server, which is indicated in the SIP Gateway tab.

## 5.2.3.3. Invitation of the SIP-terminal to the conference that is held on the TrueConf Server.

There are two ways ot inviting a SIP endpoint into a video conference - from Address book of TrueConf Client application or from TrueConf Web Manager.

- 1. From Address Book in TrueConf Client application. Do the following:
- add SIP endpoint to the Address book in the following format: #sip:user@host, where "host" is IPaddress or a domain name;
- call it by a double-click on the name of the subscriber.

- 2. from TrueConf Web Manager. to do this:
- create and plan a group video conference, using the tab "Group conferences";
- enter SIP endpoint as a participant of the conference. In the indicated day all the participants will be invited to the conference.

#### 5.2.3.4. Connection using CID (Conference ID)

If several group conferences are organized on TrueConf Server, you can choose the conference directly from the SIP-terminal. For that:

- Organize a group conference in the Group Conferences tab of TrueConf Server configuration wizard;
- Remember the CID (e.g. \c\e22a39ba2a);
- In the address bar of the terminal make call on your CID@IP, where IP address of the TrueConf gateway. Note: some terminals (for instance, Polycom PVX) de-lete special symbols from the address bar. In this case for Polycom PVX you will need to enter \\c\\e22a39ba2a@IP.

#### 5.2.3.5. Connection to the fixed name groupconf

- Organize a group conference in the Group Conferences tab of TrueConf Server configuration wizard;
- Remember the CID (e.g. \c\e22a39ba2a);
- In the Application tab of TrueConf Server configuration wizard create property default\_mconf\_name, equal to the CID without \c\, for the given example: e22a39ba2a;
- Restart TrueConf Server;
- Make a call to the name groupconf@IP from the terminal, where IP is address of the TrueConf Gateway.

#### 5.2.3.6. Invitation to the conference from TrueConf Client

- Add to the TrueConf Client address book terminals that you want you want to invite to the TrueConf conference in the format described in the paragraph 5.2.3.1;
- Organize conference in the TrueConf Server configuration wizard or client application TrueConf Client;
- Invite terminals to the conference by a double click on the terminal name in the TrueConf Client address book.

#### 5.2.3.7. Connecting to an IP-camera in a video conference

You can connect an IP-camera to a conference during a point-to-point call or a group conference, if the given camera supports RTSP protocol.

#### Connecting from TrueConf Client application:

- For a video call: paste #rtsp\_url in the address bar and click on «Call». rtsp\_url is an individual RTSP address of the camera (it's format depends on the vendor, model and camera's mode). For example, the cameras by Axis rtsp://IP/axis-media/media.amp. When pasting, replace the IP with the real IP-address of the camera, and symbols '/' with '%2f'. The final version may look like this: #rtsp:%2f%2f217.17.220.110%2faxis-media%2fmedia.amp;
- Invitation to a group conference: add the IP-address of the camera to the address book beforehand. Choose the group video conference and invite the participants. If the event is already taking place, go to the Address book, choose the IP-camera from the contact list and click on "Invite to the conference".

#### Connecting from Web-Manager (for the administrator):

- ñreate a group conference in the tab "Group conferences";
- enter the address of the IP-camera in the field "Add by ID" and click on "Add";
- run the video conference:

CDI	ocalhost/admin/conferences/create/	Q. 5a
- [		form datase and
onf	ub0ep.trueconf.name#vcs	Server status: runnin System
	Create New Group Conference	
	Conference parameters	
	Topic:	
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	Participants	
5	Acid users to conference 16/16	
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	Add via 30	
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	Delete selected	
	Physics .	
	Choose day and time of conducting a group conference	
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	Time aone	
	(GMT+03:00) Baphdad, Kalining 🔻	

# 5.2.3.8. Problems and Solutions

SIP-terminals do not connect with TrueConf Server

Description	Possible reason	Solution of the problem
SIP-terminals cannot connect with TrueConf Server.	Invalid IP-address in the TrueConf Server configurations.	<ul> <li>Check rightness and correspondence of the data in the SIP Gateway tab of the configuration wizard:</li> <li>Address: an IP-address of the network interface used for TrueConf gateway;</li> <li>Server: IP of the host interface, which is used for VoIP/SIP server.</li> </ul>
	TrueConf Server is offline or has intermediate status.	Run TrueConf Server by clicking System/Start.
	Absent or incorrect parameters of TrueConf Sever on the SIP terminal.	Indicate valid IP-address and TrueConf Server port in the parameter window of the SIP-terminal.
	No network	Check network connection on the PC with SIP- terminal (if SIP-terminal is installed on the PC). To do

Description	connection. Possible reason	this you can use "ping" command with IP-address of <b>Solution of the problem</b> the PC where TrueConf Server is installed.
There is no video and audio in the conference between TrueConf Server and SIP- terminal.	Incorrect codecs negotiation.	Make sure that SIP-terminal supports one of audio codecs: G.711 (alaw/ ulaw), G.728, G.729a; and video codecs: H.264, H.263.

# 5.2.4. "H.323 Gateway" Section

UBOEP - H	1.323 Gateway ×	
← → C	localhost/admin/network/h323/	Q 등 ☆ ☰
		Server status: running, registered
🖑 TrueConf	ub0ep.trueconf.name#vcs	System T
General About Settings Network Settings SMTP SIP Gateway H-323 Gateway Vieb Settings Security Users User Acounts Groups Allaces User Storage Group Conferences Recordings Endpoints Help	H.323 Gateway          H.323 Gateway         H.323 Gateway         H.323 Gateway         H.323 Gateway         H.323 Gateway         H.323 Gateway         H.323 Gateway         H.323 Gateway         H.323 Gateway         H.323 Gateway         H.323 Gateway         H.323 Gateway         H.323 Gateway         H.323 Gateway         H.323 Gateway         H.324 Gateway         H.325 Gateway         H.325 Gateway         H.326 Gateway         H.326 Gateway         H.326 Gateway         H.326 Gateway         H.327 Gateway         H.328 Gateway         H.329 Gateway <td>*</td>	*

Settings on this page are designed to register the TrueConf Server on the external H.323 gatekeeper. After registered successfully, TrueConf users are able make calls to terminals registered on this gatekeeper with the following dialing format: #h323:terminal\_id, where "terminal\_id" is the terminal identifier you are calling to. **#h323:terminal\_id** identical to #h323:h323-id (e.g. #h323:ivan) or **#h323:\e\e164** (e.g. #h323:\e\202).

**1** - enter the address of the H.323 gatekeeper. You can use either a domain name (e.g. test.gatekeeper.com) or IP address (e.g. 34.87.12.127).

2 - enter h323-ID (random alphanumeric identifier) under which the TrueConf Server will be registered on the external gatekeeper. For instance, h323-ID might be this way: #h323:user01.
H.323 terminals can call this number to reach TrueConf Server using gatekeeper.

**3** - you need to enter DialedDigits (E.164), under which TrueConf Server will be registered on the external gatekeeper. DialedDigits (E.164) is an identifier consists of numbers and special characters, «,#\*» (for instance, dial #h323:\e\041412 to call the subscriber 041412). Please note that the characters \e\ are mandatory when using Dialed Digits (E.164). Thus, if you dial #h323:\041412, H323-ID will be used instead of DialedDigits (E.164) and the call can be addressed to other subscriber. After registration, other terminals will be able to make calls to the client application TrueConf using this identifier.

Note: It is not necessary to indicate h323-ID and DialedDigits (E.164) simultaneously. To register a server on the H.323-gatekeeper you only have to enter one of them.

**4** - enter the password received from the administrator to register the TrueConf Server on gaterkeeper. If you leave this field empty, the registration without a password will be used.

**5** - the switch can be used to temporarily disable the server registration on the gatekeeper.

**6** - after making changes to "H.323 Gatekeeper" section, click "Save" to commit the changes. It is necessarily to restart is the server.

**7** - this section contains TrueConf Server settings necessary for work in the Gatekeeper mode. In this mode third-party H.323 endpoints can be registered on the server under the user account of TrueConf Client application. Thus, a user may log in to a server using either TrueConf Client or any H.323 endpoint with a support for password-based registration. By default if 'Use all IP addresses' is selected, TrueConf Server will use all accessible connections by default (server's IP addresses + port 1719). Do not change this section without necessity. If you need to change IP addresses or ports to access TrueConf Server (e.g. to deny access from a particular IP, or if port 1719 is blocked by Firewall and you need another port) uncheck 'Use all IP addresses'. In this case, three buttons will be activated: Add, Reset, and Apply. Using the Add button you can set an additional access point (you should input an IP address for the access in the drop-down window (in the Host field), port, and protocall (TCP or UDP)). By clicking any access point in the list, a similar editing window will open. If you click the Reset button, all changes will be reverted to the previous saved state.

**8** - as explained above, after registered the TrueConf Server on the external gatekeeper, you can make calls to the server using its registration data (h323-id and/or Dialed Digits (E.164)). This section is used to determine the recipient of these numbers. Enter the TrueConf ID or Conference ID (CID) of the recipient in the input field and press "Apply". If left empty, calls to the client application of the TrueConf Server will be rejected.

# 5.3. "Web" Group of Settings

This tab contains settings of external web pages that are available to unregistered users.

# 5.3.1. "Settings" Section

UBOEP - W	/eb Settings ×	
← → C	Di localhost/admin/web/settings/	ର 🖪 🏠 🔳
🖑 TrueConf	ub0ep.trueconf.name#vcs	Server status: running, registered System T
General About Settings Network Settings SMTP SIP Gateway H.223 Gateway H.223 Gateway Web Settings Security Users Users Users Users User Accounts Group Conferences Recordings Endpoints Help	Web Settings  Web contact information of the Arministrator  Web contact information of the Arministrator  Web contact information of the Arministrator  Web web contact information of the Arministrator  Web w	
6		

The "Settings" section includes the following options:

**1** - contains the URL of the page with the download links and configuration information for the client applications for various operating systems. TrueConf Server administrator can distribute the URL among the users of the server.

**2** - TrueConf Server administrator must fill his data in the corresponding fields - Name, Email and Phone, so that users could contact him. The entered data will be displayed in the guest page. After making necessary changes, click on "Apply".

**3** - URL for direct TrueConf Client download.

4 - URL for direct TrueConf Client for Mac OS X download.

**5** - this section allows the administrator to configure the URL of the TrueConf Server external page. The option can be used to correct the URL formation for all external pages of TrueConf Server.

6 - uploading your company logo to display on the guest.

7 - by default, TrueConf Server logo is shown.

### 5.3.2. "Security" Tab

👪 UB0EP - Web Security	×	
← → C 🗋 localho	st/admin/web/security/	ର 🖪 🏠 🔳
	Server sta	tus: running, registered
🖀 TrueConf	ub0ep.trueconf.name#vcs	System T
General About Settings Network Network Settings SMTP SIP Gateway H.323 Gateway Web Settings Security Users User Accounts Groups Aliases User Storage Group Conferences Recordings Endpoints Help	Web Security Dashboard Access to admin area from other computers is limited to TrueConf Server Admin Windows security of Limit access to admin area by IP Limit access to admin area by IP Subnets 10. 192.168. 172.16-172.31 127. Apply API Please indicate the private key for TrueConf Server API Secret key Ohr0j:R25THVGqNn7OI_hj27A2jtYO Generate a new secret key This product is the part of the TrueConf Server v4.3.0.1324 license and is needed to configure and control server. TrueConf Server (c) 2 reserved.	roup. 1 2 Apply 3 010-2014 TrueCorf LLC. All rights

**1** - by ckecking this field you limit the access to controlling your server.

**2** - by default, the "Subnets" field displays the subnets that can be controlled. If you want to change the list, make the edits and click "Apply".

**3** - to ensure that TrueConf Server works with other products through the Internet in federation, the network administrator should connect to Directory. To secure the connection he must use secret security key. After it is generated, click on "Apply".

# 5.4. "Users" Group of Settings

#### 5.4.1. Tab "User accounts"

\* The maximum number of accounts in the free version of TrueConf Server Free is 6.

	lhost/admin/users/list/		Q 🖬 🕸
			Server status: running, registe
🕾 TrueConf	ub0ep.t	rueconf.name#vcs	System
About Settings Network Network Settings SMTP SIP Gateway H.323 Gateway Web Settings	User Accounts All users User Accounts (3) AddUser Search: enter name or TrueConf	(1) ID  (3)	2 → Z □ online
Security	Display Name	TrueConf ID	Status
User Accounts	jack	jack	💄 offline
Groups	kate	kate	💄 offline
Aliases		estaly	🚨 offline

In User Accounts section you can add and manage users.

**1** - adding new user. Clicking on this button will open a form for filling in the information about the user.

2 - refreshing information about the user.

**3** - search to users in Address book. To do this, enter subscriber's data in the filed **Search: enter name or TrueConf ID**. When "Online" checkbox is selected, the search will be conducted among the users who are currently online.

Note: In LDAP mode user edit is not possible, edit users using your LDAP directory tools.

By clicking on any account name or TrueConf ID you will open an editing window:

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← → C	localhost/admin/users/edit/?login=	nataly	ର ा≣ ☆ 🔳
			Server status; running, registered
Conf Conf	ub0ep.tru	econf.name#vcs	System •
Abod Satings Satings Natorak Marcak Satings Matches Satings Matches Satings Matches Satings Matches Satings Matches Satings Matches Ma		1 2 3 4 5 4 5 6 7 8 8 3 1 1 1	
	Ouplay Name	TracCorf ID	<u>9.846</u>
	jack	iak ha	≜ office
Ŧ	Davids substant	ver. Teacfurf Sover (c) 2010-2054 Teacfurf LLC: All roths reserved.	·

**1** - can be Active or Passive. Passive users cannot connect with the server but their account will not be deleted.

**2** - mandatory field. It is used for authorization and calls. Full TrueConf ID contains this TrueConf Server registered server name.

3 - user's password to log in to the client application.

4 - e-mail for user notification.

**5** - this filed is required. If this field is left blank then it will be filled in automatically by joining the TrueConf ID.

**6** - this fileds are not required. Personal data and. The name of the organization where the user works.

7 - user may belong to some group.

**8** - (Save) - click to save all changes to the user account. (Delete) - click to delete the user account. (Back) - Return to the previous page.

**9** - you can enter user's TrueConf ID in this box on the Server side in order to add him/her to your Address Book. You can also enter his/her name in the "Display Name" box.

**10** - adding a user to the Address Book.

**11** - address book for users not included in any group. Read more about elements of this page and their specifications below.

12 - adding a user to the Address Book.

13 - user search by TrueConf ID in Address book.

## 5.4.2. Tab "Groups"

~ C []	] localhos	st/admin/group/list/?che	cked_group_id=0	)004&sort=			Q 16 7
		Grou	ip was created successfully			Server	status: running
rueConf		ub0ep.	.trueconf.name#vcs	5			System
	Groups						
	Group list	2					
Settings	Group Nan	ne	Create				
eway							
ateway		Group Name	Address Book	Address Book Editing	Make Calls	Use collaboration tools	Create group conference
		Marketing	Customite	8			
		Sdes	Customize	8	8	8	8
counts	8	Support	Customize		8		×
rage		Users without group	Qustomize		8	*	*
nterences							

In "Groups" tab you can create, edit and delete groups, as well as add and remove users, manage address books. You can also allow or forbid the following:

- Address book editing;
- Making Calls;
- Using collaboration tools;
- Creating group conferences.

# Menu "Group Name"

Click on the group name to open the page "User accounts". On this page you can rename a group and add users to any group:

→ C	localhost/admin/users/lis	Q 🖬 公	
§ TrueConf		ub0ep.trueconf.name#vcs	Server status: running, reg System
ral sut tings tork twork Settings TP Gateway \$23 Gateway	User Accounts Group Sales Participants of the Group (0) Add users selected tem(s): 1	eme Y Add	2
tings unity s er Accounts ougs ases er Totrage ip Conferences rolings olints	Search: enter name or TrueConf ID	<u>TrueConf ID</u> no users	Stars

In the drop-down list "Groups" select the group you want to rename and press the button "Rename". A window will open:

Rename		×
Group		_
Sales		
	Sava Cancel	
	Jave Cance	- //

In the field "Group" enter a new group name and press "Save" (or "Cancel" if want to exit the window).

## Menu "Customize" - Address book

Administrator can manage address book by adding and deleting contacts, including subscribers that are not the users of the server.

When you click on "Settings", you will be directed to the page "Address book settings" of a specific group. There you can change all the necessary settings:

S UB0EP - Address I	Book for X		
• → C 🗋 k	calhost/admin/group/ab/?key=	0002	Q 🖬 🖒
			Server status: running, regist
🗳 TrueConf	ub0ep.tru	econf.name#vcs	System
neral About Settings twork Vetwork Settings SMTP SIP Gateway	Address Book for "Marketing" Define, which users will be shown in @All users Ouser Groups no selection	n the address book of the users in the group	(1)
n.szs Gateway eb Security ers User Accounts Groups Aliases User Storage	Address Book of the Group (3) ID: Display na Search: enter name or TrueConf ID	ame: Add	3
H.S.23 Gateway eb Security ers User Accounts Groups Aliases User Storage oup Conferences ecordings visoints	Apply Address Book of the Group (3) ID: Display na Search: enter name or TrueConf ID Display Name	ame: Add <u>TrueConf ID</u>	(3) (4) (2) (3) (3) (3) (3) (3) (3) (3) (3) (3) (3
n.323 Gateway eb Security ers User Accounts Groups Aliases User Storage oup Conferences coordings dpoints	Apply Address Book of the Group (3) ID: Display ni Search: enter name or TrueConf ID Display Name jack	amet Add	(3) (4) (2) online Status ▲ offline
n.323 Gateway eb Security ers User Accounts Groups Aliases User Storage oup Conferences cordings dpoints dp	Apply Address Book of the Group (3) ID: Display no Search: enter name or TrueConf ID Display Name iack kate	ame: Add TrueConf ID iack kate	(3) (4) (2) online Status ▲ offline ▲ offline

1 - with this checkbox the users of a certain group will see all users of the server in their.

**2** - group participants see only users of certain groups. When choosing this checkbox you need to select from dropdown menu the groups to include to the address book.

- 3 group participants cannot see other users of the server.
- 4 save all changes.

At the same time, users of a certain group can search for other users of the server and add them to their address book (if address book editing is enabled).

#### Address book for a group

In this menu you can add external contacts by entering TrueConf ID and Name of the user. "Search by name of TrueConf ID" is used for searching for a user in Address book. When "Online" checkbox is selected, the search will be conducted among the users who are currently online.

# 5.4.3. Tab "Aliases"

In this tab PSTN users can dial TrueConf user not by TrueConf ID, but with the help of an alias (extension). You can set an alias to a TrueConf user, that will be used to dial a person under the corresponding configuration of the ATE from our system.

👪 UB0EP - Aliases	×			_ D X
	lhost/admin/users/alias	ses/		Q 🖬 😭 🗏
			Server	status: running, registered
TrueConf	ub0	ep.trueconf.name#vcs		System 🔻
General About Settings Network Network SMTP SIP Gateway H.323 Gateway Web Settings Security Users User Accounts Groups Aliases User Storage Group Conferences Recordings Endpoints	Aliases Aliases Alias I alias	User kate@ub0ep.trueconf.name	Create alias: Alias User Add	
Recordings Endpoints Help	▼ This product is the part of the TrueCord Serv	er v1.3.0.1324 license and is needed to configure and control serv	ver, TaueConf Sener (c) 2010-2014 Taue	Conf LLC. All rights resoured.

**1** - alias is entered by a user into the corresponding field. It can contain letters and digits. The Alias can contain up to 80 symbols. Aliases are updated after server restart.

**2** - you can choose a person from a list of users or enter his/her TrueConf ID into the corresponding field. After the alias is created you can see an alias and TrueConf ID of a user. User name is not unique: one user can have several aliases.

3 - by clicking this button, the chosen alias will appear in the field "Aliases".

**4** - to delete an alias from the list, tick the box on the left of his name and click on "Delete Selected".

# 5.4.4. Tab "User storage"

\* Unavailable in the free version of TrueConf Server Free

👪 UB0EP - User Storag	ge	×		
← → C 🗋 loc	calho	st/admin/	'users/storage/ Q 🖫	:☆ =
1			Server status: runnin	g, registered
🖑 TrueConf			ub0ep.trueconf.name#vcs System	•
General About Settings Network Settings SMTP SIP Gateway H.323 Gateway Web Settings Security Users User Accounts Groups Aliases User Storage Group Conferences Recordings Endpoints Help	*	User Storag	ge use Server is in registry mode. In this mode server stores user information on local computer. Users can be created and edited in VSC configurat When server will be switched to LDAP directory mode, existing Registry mode user information on local machine wi longer be used. In this mode server uses user information from remote or local LDAP directory. Predefined configuration settings f directories are built into the configurator, including Microsoft Active Directory. Predefined configuration settings f built into the configurator, including Microsoft Active Directory. Directory user access coul limited with Active Directory groups. If server is switched to Registry mode, user information will be kept on local machine. Import of user information for LDAP directory is possible in processor mode switching. Password data could not be imported. Si	tor, ill no for LDAP d be from witch
	-	This product is the pa	at of the TrueConf Server v1.3.0.1324 license and is needed to configure and control server. TrueConf Server (c) 2010-2014 TrueConf LLC. All rights re	sserved.

TrueConf Server allows two modes of data storage - Registry and LDAP. Their changeover can be done at any given moment by pressing the «Switch» button in the «User database» tab.

#### 5.4.4.1. Registry Mode

In this data storage mode the server keeps user information on a local computer. It is possible to add and delete new users from the configuration table. If the storage mode on the server has been changed from the Registry Mode to LDAP then the already existing user records won't be used any more.

#### User storage tab in the Registry Mode

Element	Description
Switch	Switching of the data storage modes

#### 5.4.4.2. LDAP Mode

In this data storage mode the server takes advantage of the user information from the remote or local LDAP directory. LDAP settings comply with Microsoft Active Directory by default. You can manage the user information with the help of LDAP Directory standard management tools. For Active Directory the user rights can be defined depending on the Active Directory group to which a user belongs. To activate this mode, put a checkmark in the "Turn LDAP mode on" box and click on the appeared button "LDAP Setup". LDAP settings form will open in Web Manager tool of the Server.

UBOEP - LDAP	×	
← → C' 🗋 loca	lhost/admin/ldap/settings/	0 № ☆
	Ser	ver status: running, registered
🖑 TrueConf	ub0ep.trueconf.name#vcs	System 🔻
General About Settings Network SMTP SIP Gateway H.323 Gateway Web Settings Security Users User Accounts Groups Aliases User Storage Group Conferences Recordings Endpoints Help	LDAP Server settings Server Type: Active Directory • • • • • • • • • • • • • • • • • • •	Port: 389 6 7 9 9 9 1 TucCorf LLC. All rights reserved.

1 - LDAP Server type.

**2** - connection to the LDAP in the safe mode. Only in this case safe transmission of the user information through the network is ensured.

3 - automatic choice of the LDAP server.

4 - manual choice of the LDAP server.

**5** - in the automode the LDAP server can be chosen among the servers by default of the DNS domain, specified in this field. Default servers are being chosen according to the relevant DNS-notes of SRV type. For Active Directory DNS domain name AD can be indicated here.

6 - LDAP server address and port.

7 - core LDAP context.

8 - TrueConf Server authorization modes on the LDAP server.

9 - authorization parameters on the LDAP server.

10 - after choosing this option the users can automatically get authorized in the system by using the current Windows user account. The option is available only for the systems working on the basis of Microsoft Active Directory. For NTLM authentication work it's necessary that the server on which TrueConf Server software is installed is located in the same AD domain with the users.
11 - for Active Directory in this field it's possible to indicate LDAP - group of users, who can get authorized on the TrueConf Server.

To choose a LDAP-group using the Browse button you need to fill in the spaces for connection to the LDAP server (Server Settings and Authentication), including Base DN field.

After choosing the group click on "Apply"

12 - saving a changes.

13 - additional LDAP parameters. Allow to adjust the parameters to other types of LDAP-servers.

14 - back on page "User storage".

When changing from LDAP Mode to Registry mode it is possible to import user data. To do this, choose the "Registry" mode in the "User Storage" tab, tick on "Import User Information" and click on "Switch".

Note: The users' passwords are not imported. After being imported the users' accounts are marked as

«inactive» (see description in the «User accounts» tab).

Directory of groups and users registered on the video-conferencing server.

This tab allows to create and manage the user's groups.

User Accounts tabs allows creating groups and managing rights. In the Registry mode a user can belong to one (or more) of the created group. You can edit his/her attributes in the Edit user information window. In the LDAP mode this window allows to define rights for several LDAP groups. User attribute can be defined in the LDAP folder.

Note: On the server the <Not in group> is created by default.

# 5.5. "Group Conferences" Group of Section

This section allows you to manage group conferences.

\* The maximum number of participants in a group conference of any type in the free version of TrueConf Server Free is 6.

This tab allows administrator to create and manage group conferences.

	alhost/admin/conferences/list/	Q. 🖬 🏠 🗄
	Server :	status: running, registered
🖑 TrueConf	ub0ep.trueconf.name#vcs	System 🔻
General About Settings Network SMTP SIP Gateway H.323 Gateway Web Settings Security Users User Accounts Groups Aliases User Storage Group Conferences Recordings Endpoints Help	Group Conferences Group conference list Create Delete  Create Delete  Conference WebRTC URL: http://127.0.0.1/c/06efe29 the first participant 0 Symmetric TCP Launch Edit	nsport Status

- 1 add group video conference.
- 2 delete group video conference.
- 3 start group video conference.
- **4** edit group video conference.

#### 5.5.1. Symmetric Group conference (Symmetric)

- Can have up to 16 participants at the same time in the normal mode and up to 16 users in the UDP Multicast mode (number of users is limited by the TrueConf Server license;
- All users can see and hear each other.

This conference type availability is limited by the TrueConf Server license

#### 5.5.2. Asymmetric conference (Asymmetric)

- Can have up to 16 participants at the same time;
- One user is chosen to be the Host. He can see and hear everybody;
- Other users can see and hear only the Host.

Conference type availability could be limited by TrueConf Server license

# 5.5.3. Role based conference (Role based)

- This conference type availability can be limited by the TrueConf Server license;
- No more than 4 users can transmit video and audio to the others. They are called "broadcasters";
- Other users can hear and see broadcasters. They can give their opinion. They can become "broadcasters" if the Host allows them.

This conference type availability can be limited by the TrueConf Server license

Note: When the conference is getting started the administrator chooses the user who will be the Host. Other roles will be given by users in a conference. Look for more information in the client application User Manual

#### **Group conference list**

Element	Description
Торіс	Conference Topic
Owner	TrueConf ID of the conference host
WebRTC peers	The number of participants, connected to the conference via WebRTC. It is shown in the conference.
Туре	Chosen type of group video conference: symmetric, asymmetric or role-based.
Transport	<ul> <li>According to the chosen type of conference may be:</li> <li>UDP – corresponds to UDP Multicast;</li> <li>TCP – corresponds to other types.</li> </ul>
Status	Status of the conference

Current version supports WebRTC broadcasting in Chrome, Opera and Mozilla Firefox browsers. The number of concurrent connections is limited by the chosen license capacity.

#### Create new group conference

UB0EP - Cr	reate New Group ×	- • X
← → C	localhost/admin/conferences/create/	Q 55 ☆ Ξ
All TrueConf	ub0ep.trueconf.name#vcs	Server status: running, registered System T
General About Settings Network Network Settings SMTP IJP Gateway H.323 Gateway Vieb Security Users Users User Accounts Group Contemenes Recordings Encipoints Help	Create New Group Conference  Conference parameters  Tope:  Owner:  Up Mutcas:  Wutcas:  Wutcas:  Wutcas:  Wutcas:  Wutcas:  Wutcas:  Wutcas:  Conference:  Conference: Confer	
(10)	Concerning and the backing and good because and	
[14]	Time zone  (EMT + 03.50) Blachdad, Kalnine  Creads  Esok  Creads  Cre	13 15 ~

1 - topic of the conference.

**2** - the filed to choose the Host of the cnference from the list of users. After choosing the Host of the conference, his name automatically appears in the list of participants. Previous Host will not be deleted.

- **3** type of the conference: symmetric, asymmetric, êole based.
- 4 UDP Multicast allows to use local network resources more efficiently.

In this mode video and audio streams are transmitted only in one UDP Multicast domain. Such domains can be set up in local area network (LAN) or VPN. In the internet UDP Multicast is not allowed by default.

More availability can be limited by TrueConf Server license.

- \* WebRTC broadcasting is not compatible with UDP Multicast conferences
- 5 the field to indicate Multicast/Broadcast IP address. By default it is 224.0.1.224:4000-6000.
- 6 conference ID that users can use to join the conference.

**7** - here you can add users to the conference by clicking corresponding usernames in the list. You can also add users by TrueConf ID.

- 8 click to add users int the list of participants on the left.
- **9** the button activates by choosing a user from the list.

**10** - choose the type of conference: «One-time» if you want to create a single event or «Recurrent» if you want to schedule recurrent conferences.

If you choose One-time type, you will need to specify the time, date and time zone of the conference.

If you choose «Recurrent» type, you will see Day of the Week option instead of Date. All other options are the same as in scheduling a single event.

- 11 choose the date of conference.
- **12 -** choose the time of conference.
- 13 choose the time zone.

- **14 -** create conference.
- 15 back in menu Group Conferences.

# 5.6. "Recordings" Section

This tab allows you to manage recording settings and lists previously recorded conferences.

				Server status: running, regis
§ TrueConf		ru47e.trueconf.name#	vcs	System
ral out tings ork twork Settings TTP P Gateway 123 Gateway ttings cutty s e r Accounts	Recordings     Recording settings     disabled     Path: C:\TrueConf\Record     Unit recording and broadcasting i         @ 720p @ 480p @ 36         720p resolution requires additional proce     List of recorded conferences     To view recorder video you can us		Apply	1 2 3
N HOR	March 1	Date	Size	Actions
905	Topic			
ses r Storage i Conferences	0000004f	2014-12-12 16:55:26	2,02 MB	(4)→ ♦ ¥ ←
ies Storage Conferences Jings	0000004f	2014-12-12 16:55:26 2014-12-12 16:54:54	2,02 MB 0,31 MB	(4)→ ¥ ¥ + ¥
es Storage Conferences lings ints	0000004e 0000004c	2014-12-12 16:55:26 2014-12-12 16:54:54 2014-12-12 16:54:54	2,02 MB 0,31 MB 0,10 MB	(4)→* ¥ * ¥ * ¥
es Storage Conferences Ings Ints	0000004e 0000004c 0000004c	2014-12-12 16:55:26 2014-12-12 16:54:54 2014-12-12 16:54:41 2014-12-12 16:54:17	2,02 MB 0,31 MB 0,10 MB 2,21 MB	(4)→ * ¥ ↔ * ¥ * ¥ * ¥

1 - select in the dropdown menu the recording option - disabled, enabled for multipoint conferences or enabled for all types of conferences. If selected "Enabled for multipoint conferences", you will set up automatic recoding for symmetric and role-based conferences and video lectures. If selected "Enabled for types of conferences", personal conferences (in the video call mode) will be recorded as well.

2 - enter the name of the folder to save the video and click on "Apply".

By default the path is shown in the format [server work folder]/Recordings.

The list of recorded conferences displays videos from the chosen folder. If the path is changed, the list will also change.

Before you save the changes of the path, the notification will be displayed "The list of recorded conferences will be changed because of the changed directory".

If you accept the changes, click "Ok". If you click on "Cancel", the path will stay the same.

**3** - limit recording and broadcasting resolution to 360p, 480p or 720p.

**4** - during the recording it will show a red indicator. When the recording has stopped and the conference has finished the indicator will be a green arrow that will lead to the file with the recorded conference.

**5** - click on it to delete the recording.

## 5.7. Endpoints Section

This tab allows to view information about the endpoints.

					ćm 1-1		-
0					Server status	: running, reg	gister
沓 TrueConf	ru	7xt.trueconf.name#v	/CS			System	
meral	*						
About	Endpoints						
settings	Show 10 • entries				Search:		
Network Settings	Endpoint	Logged User	÷	Application + version	÷	IP	
SMTP						-	_
SIP Gateway	A636F53536C8793A9DF203C44FCA1745	2@ru7xt.trueconf.name		TrueConf Client 6.5.1.3722		192.168.1.13	4
I D D D Colorester	EEC3201EC22C4066C46006D205346001	1@ru7xt.trueconf.name		TrueConf Client 6.5.1.3722		192.168.1.13	4
1.323 Gateway	E303107L013040300400000103340001						
H.323 Gateway eb Settings	Showing 1 to 2 of 2 antries				Dressing	1 1	lund
H.323 Gateway eb Settings Security	Showing 1 to 2 of 2 entries				Previo	us 1 N	lext
H.323 Gateway eb Settings Security ers	Showing 1 to 2 of 2 entries				Previo	us 1 N	lext
H.323 Gateway eb Settings Security ers User Accounts	Showing 1 to 2 of 2 entries				Previo	us 1 N	lext
n.323 Gateway ob Sectings Security ers User Accounts Groups	Showing 1 to 2 of 2 entries				Previo	us 1 N	lext
n.323 Gateway eb Security ers Jser Accounts Groups Niases	Showing 1 to 2 of 2 entries				Previo	us 1 N	lext
1.323 Gateway eb Security ers Jser Accounts Groups Nusses Suer Storage	Showing 1 to 2 of 2 entries				Previo	us 1 N	lext
1.1.22 Gateway bb Security ers User Accounts Groups Vileses User Storage Jup Conferences	Showing 1 to 2 of 2 entries				Previo	us 1 N	lext
h.323 Gateway eb Settings Security ers User Accounts Groups Juares User Storage oup Conferences confings	Showing 1 to 2 of 2 entries				Previo	us 1 N	lext
h.323 Gateway eb Security ers User Accounts Groups Aliases User Storage oup Conferences coordings dipoints	Showing 1 to 2 of 2 entries				Previo	us 1 N	iext
1.323 Gateway to to to tecunity ters Jser Accounts Troups Usees Jser Storage up Conferences cordings dpoints p	Showing 1 to 2 of 2 entries				Previo	us 1 N	lext
3.23 Gateway b ettings ecurity rs ser Accounts roups lauses ser Storage up Conferences ordings oppoints p	Showing 1 to 2 of 2 entries				Previo	us 1 N	lex
3.23 Gateway b ecurity rs Iser Accounts roups Jiases Ser Storage rup Conferences arodings dpoints P	Showing 1 to 2 of 2 entries				Previo	us 1 N	lext

Element	Description
Show (number) entries	Select the number of connections displayed in the table.
Search	Input field for connection name.
Endpoint	Name of the Endpoint, registered on the server. Endpoint's name is unique and depends on the computer and client software.
Logged User	TrueConf IDs of the users connected to the server at the moment.
Application + version	Name of the client's software and version of the software
IP	The user IP-address

# 5.7.1. Sound capture and playback information

Example of Endpoint's properties:

Audio Capture: Microsoft Sound Mapper Avance AC'97 Audio Logitech Microphone (Pro 4000)

Audio Render:

Microsoft Sound Mapper Avance AC'97 Audio

# 5.7.2. Video capture device information

Example of Endpoint's properties: Video Capture: Logitech QuickCam Pro 4000 NAS Polycom Video Source Filter vvd.dll

# 5.7.3. DirectX information

Direct X:

# 5.7.4. DirectX features description

The assumed terms: 1 – is supported, 0 – not supported.

Properties	Description
Version	Version of the installed DirectX
Driver	Name and description of the video card driver
Resolution	Screen resolution and number of colours
Video Memory	Video memory volume
Capabilities	Current driver capacities
Bu	Upward scaling
Bd	Downward scaling
Ou	Upward scaling using overlay
Od	Downward scaling using overlay
BFcc	Scaling without using RGB video data representation
Ofcc	Scaling using overlay without using RGB video data representation
YUY2	Ability to use video data in the YUY2 format when displaying something on the screen

Properties	Ability to use video data in the UYVY format when displaying something on the
0111	screen
HB	bilinear upward scaling

# 5.7.5. Connection information

Example of Endpoint's properties: Network Info:

> Type: I don't know Broker: srv1:1 Host: 192.168.61.205 Port: 4307 Protocol: InternetOptions

# 5.7.6. Network Test information

Network Test:

Parameter		IN	OUT
Bitrate, kBit	10	000	9983
Total, kB	74	199	7499
Jitter Max, ms		20	10
Jitter Min, ms		0	0
Response, ms		50	0

Date: Thu Jan 22 17:08:19 2004

Properties	Description
Total	Total amount of information transmitted during the Network Test
Jitter Max	Maximum deviation of the arrival time of the packet in the network from the mean value
Jitter Min	Minimum deviation of the arrival time of the packet in the network from the mean value
Response	Server response time

# 5.7.7. Last conference information

Example of Endpoint's properties:

Last Conf:

Name0000001d@srv1:1Bytess/r73/0kBBitrate s/r12/0kbit

Duration 00:00:46

Properties	Description
Name	Name of the conference
Bytes	the number of sent / received KBytes
Bitrate	the average throughput when sending / receiving data
Duration	Duration of the conference (hh:mm:ss)

## 5.7.8. System information

Example of Endpoint's properties (It looks like PC is not equipped with a camera): Hardware Config:

Video Capture: None Audio Capture: Avance AC'97 Audio Audio Render: Avance AC'97 Audio

sys\_conf:

Windows 2000 Advanced Server Service Pack 2 (Build 2195) Proc: Type 586 Level 6; Client: TrueConf

## 5.7.9. Events leading to the updating of information about the Endpoint

The following information will be updated when a connection with the server is established or resumed:

- Current Network Info Type;
- Audio Capture, Audio Render, Video Capture, Direct X updates during client software start;
- Hardware Config updates during application shutdown.

Updates during a conference:

Last Conf Name.

Updates after running of the Network Test (menu Setup/ Network in client application):

• Network Test.

Updates when logging in to the server:

• System information.

# 6. Client Application Connection

# 6.1. Connection using auto discovering

The client software of TrueConf includes a function of automatic search for the local server TrueConf Server (auto-discover). It is possible to install the client application without any information about your local TrueConf Server. In this case all information about the server will be detected automatically by using DNS. To do this you need to specify the address of the server in users primary DNS (primary DNS suffix).

You need to create SRV record in the domain for vcs2.tcp service and specify the TrueConf Server address and port.

The following example shows how to do this using DNS utility in Microsoft Windows 2000/2003 Server: Navigate to root of the desired domain

Choose «Other New Records...» in a right-click menu.

Choose type «Service Location».

|--|

New Resource Re	cord	? ×
Service Location	(SRV)	
Do <u>m</u> ain:	your.domain.com	
<u>S</u> ervice:	vcs2	<b>_</b>
Protocol:	tcp	•
Pri <u>o</u> rity:	0	
<u>W</u> eight:	0	
Port <u>n</u> umber:	4307	
Host offering thi	s service:	
videoserver.you	ur.domain.com	
	ОК	Cancel

In this example server has address videoserver.your.domain.com and port 4307. Please note that protocol name (tcp) does not contain underscores.

## 6.2. Configuring the client application without using auto discovering

#### Step 1

Open TrueConf Web Manager home page on client computer

#### Step 2

Download client application for your system

#### Step 3

Install client application

# Step 4

If required, connect client application to server using instructions on TrueConf Web Manager home page

# 7. Set up of the previously installed client application to work with the video conferencing server

# 7.1. Manual configuration

Go to the application network settings (Setup | Network ...). Turn off the "Connection default" ("Default server connection"), if it is enabled. Click "Advanced".

Enter the IP address or DNS name and port of the server in the appropriate fields.

# 8. Federation between servers

Federation allows subscribers of different TrueConf Servers to make video calls, conduct group conferences and use collaboration tools. The server which has a "Federation" option enabled provides media streaming between remote servers that support this feature it too. The number of servers involved in Federation is unlimited. Group video conferences will be conducted with regard to the limitations specified in the license of the server, initiating the connection.

Video calls and group conferences during Federation are held on the same principle as within one TrueConf Server. No additional server adjustments should be done when using Federation feature. Still, the following conditions are to be observed: you need to have license for TrueConf Server with Federation feature for all servers that participate in Federation, possibility for all servers and subscribers to connect to your server during Federation.

The server should be available to other servers by its name, indicated at registration. The server can be registered on the existing DNS name, as well as be specified by the actual server address with the help of the SRV records DNS. To read more please see section <u>"Connection using auto discovering"</u>.

# 9. Server Diagnostics

# 9.1. Server status

Server status is shown in the "Server Status" field in green (if the server is working) or in red (if it has stopped) in top right corner of the web management tool window.

# 9.2. Server's log files

You can access the server by clicking on «See the log» in the «Settings» menu.

# 9.3. Change the server language

You can change the language of the program directly from the Web management tool. To do this, click on "System". From the drop-down menu select the appropriate language.

# **10. Troubleshooting**

# 10.1. Server does not start

**Trouble:** Server does not start; the Current State field contains a message "The service is not running" in red.

Possible reason: You have no license, or the license is expired
Workaround: contact your reseller or distributor.
Possible reason: Some server files are missing or have been damaged.
Workaround: reinstall TrueConf Server.

# 10.2. Information shown in manager program is corrupted or couldn't be saved

**Trouble:** Your changes in manager are corrupt or couldn't be saved. After the manager has restarted some information is missing.

Possible reason: No access to registry or registry is corrupt.

**Workaround:** Grant read-write access to registry. Open manager as a user with administrator rights if needed. Reenter the information.