

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.

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TrueConf Server

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 "Roaming".
- Storing the call history.

1.2.2 TrueConf 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 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 trial key. Click on "Get Registration Key":



Click to open a page with application to TrueConf Server trial. Carefully fill all the fields and click on "Get Trial Key".

TrueConf Products Features Prices	Download Support About 1
Video Conferencing Softwarg > TrueConf Server. > Trial Request	Language: English •
TrueConf Server: Free Trial Key Request	
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Contact name*	
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Contact phone*	
The unit the set	anti-tat destates website anti-tate at the second
Ukraine •	
	Need help?
Get Trial Key Terms of Use	What are the TrueConf Server Trial Version Limitations?
	Can TrueConf work under the Frewall, ICS, NAT or Proxy-server2
	Phone: 1-347-TRUECNF (1-347-878-3263)
	Email: sales@trueconf.com

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



* 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 trial key you have just received by e-mail.

Press "Register" to continue:

TrueConf Server Activation ×			
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	_		
Inglion Server Manager ub056.trueconf.name#vcs			
TrueConf Server Activation			
You have to register TrueConf Server in order to activate it. You can request for a Trial code or buy a permanent registration code using "Get Registration Key" button bellow.			
Get Registration Key			
Registration Code			
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@trueconf.ru</u>			
This product is the part of the TrueConf Server v4.2.0 loanse and is needed to configure and control server. TrueConf Server (c) 2005-2004 TrueConf ELC. All rights reserved.	leed help?		

After the server has been successfully registered, on top of the activation window of web-configurator a special sign will appear:

← → C fi 🗋 localhost	:8888/admin/general/info/		☆ =
	5	Server was registered successfully	Server status: running, registered
🖀 TrueConf	ub0	56.trueconf.name#vcs	System V
General About Settings Network Network Settings SMTP SIP Gateway Web Settings Security Users	About Registration information Server ID: Organization name: Country: Contact person: Contact e-mail:	N UB056 IT Company AU John Newman john@trueconf.ru	License agreement Registered Expires in 1776 days Register
User Accounts Groups Alases User Storage Group Conferences Scheduled Recordings Endpoints Help	License information — Online users: Conferences: Guest users: Expiration date: Renew date: SIP/H.323 gateways: This product the east of the ToueCon	20 20 20 28.01.2019 28.01.2019 20	Buy extension

* The number of available tabs in trial version is less than in full version.

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

When registering offline, the web-based setup will create an offline registration file, which must be forwarded to support@trueconf.ru. Make sure to wait for the answer before restarting offline registration. In case of restarting offline registration, the file received by a previous request will not be valid, the application will not be registered and you will have to repeat the procedure again.

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.

* Not available in trial version of the server

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: <u>http://localhost/guest</u> (Link may be different according to the settings of the server. For example, if the port 8888 was chosen during the installation, the guest page will be available at <u>http://localhost:8888/guest</u>).

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, Android, and iOS:



Step 7

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

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 code.

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 host-name 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 - lo-calhost 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" Groupe of Settings

5.1.1 "About" Section

This page allows you to browse the server information, contact person and his e-mail, and view the available licenses used by the server. Also here you can initiate TrueConf Server registration for a second time. In case of troubles with the registration of the server administrator may contact <u>TrueConf</u> technical support using the contact information that is displayed in case of an error.

If the server is connected to the Internet, administrator will get notifications about server updates. Notification sign will appear in the left menu in <u>TrueConf</u> 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 dissapear.

5.1.2 "Settings" Section

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Central System Type About Settings Settings Vork path Network Settings View Log SP Gateway View Log Velow Usage report Settings Configuration Settings Settings Settings View Log User Acounts Configuration Group Sacounts Save the attings to a file or use a previously as ved configuration file to restore the satings. Bases User Acounts Group Sacounts Reports User Acounts Escounts Group Sacounts Reports Bases User Acounts Group Configuration Escounts Bases User Acounts Group Configuration Escounts Bases Los a file or use a previously as ved configuration file to restore the satings. Deschubel Application Independences Step Usit Schubel List ver Min. ver Lett ver Setup USIL Independences Step Usit Step usit user password Count user password Gueut user password						Server statu	is: running, registered
General About A Settings Settings Network Settings Work path Network Settings Path SMTP Ci(TrueConf Sit Gateway Velo Velo Usage report Settings Configuration Security Usage report Users Configuration User Storage Configuration file to restore the settings. Groups Backup Settings Abases Application User Storage Application Groups Conferences Sale data Scheduld Application Itele box 11.0 11.1 Help Set guest user password Guest user password Guest user password Guest user password Settings Stroke data statuses in conferences Save Application Settings Save Application Settings The patch is the past of the Troket Serve viub lacene and is media to origan and carding server, Troket Server (c) 2002/20 Tractor U.C. M right mermed.	👋 TrueConf		ub056.t	rueconf.n	ame#vcs		System 🔻
Online - Live chat with us	General About Settings Network Settings SMTP SIP Gateway Web Settings Security Users Users User Accounts Groups Alianes User Storage Group Conferences Scheduled Recordings Endpoints Help	Settings Work path Path: C:\TrueConf Reports Configuration Save the settings to a file or use a previously Report Save the settings to a file or use a previously Report Save the settings to a file or use a previously Report Save Application Set guest user password W Enable extended statuses in conferences Save Application Settings The poddet is the pet of the ThacGar Seven vid 2 lefe	og rsved configurativ p Settings Cur. ver 6.3.0 1.1.0 1.1.0	Min. ver 6.2.0 1.1.0	Last ver 6.4.0 1.1.1	Apply Usage report Restore Settings Setup URL http://192.168.66.33/downloads/trueconf_client.exgs http://192.168.66.33/downloads/trueconf_client.exgs	

Below you can see a description of the elements of this tab.

Setting	Description
Work path	Server work directory, logs are saved here.
Apply	The link to the home page must be distributed among the users of the server. The users will be able to download the TrueConf Client application on their devices from the guest page.

View Log	Opens the server log viewer
Usage Report	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.
Backup Settings	Backs up the server configuration to a file
Restore Settings	Restores server configuration from the file
Application	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".
Guest user password	The password used to connect guest users from TrueConf web plugin. The availability of this function will be regulated by the TrueConf Server license.
Enable extended statuses in conferences	Displaying statuses during a conference

TrueConf Client/TrueConf Mac OS X Settings

Setting	Description
Min version	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.
Current version	Indicates the current preferred version of the client appli- cation. If the application version is less than the indicated version, the user will be asked to upgrade his client ap- plication and given the link to the appropriate version.
Last version	The version of client application to be downloaded with the update. it is indicated in the process of updating.
Setup URL	Link to download the client application.

5.2 "Network" Group of Settings

5.2.1 "Network Settings" Section

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← → C 🗋 localhost/admin	n/network/address/		@ ☆ 〓	
		Server	status: running, registered	
🕾 TrueConf	ub056.trueconf.na	ame#vcs	System V	
General About Settings Network Network Settings SMTP	Network Settings Internal addresses Listen on al IP addresses	External addresses		
SIP Gateway Web Settings Security Users User Accounts Groups	192.168.66.32:4307	192.168.66.32:4307		
Alases User Storage Group Conferences Scheduled Recordings Endpoints Help	Add Reset Apply This product is the part of the TrueConf Server v4.1.2 license and rights reserved.	is needed to configure and control server, TrueConf Se	Apply erver (c) 2010-2013 TrueConf LLC, All liconse accement	

In this tab the network settings can be changed:

Setting	Description
Internal addresses	IP-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 port 4307.
	When default settings are on, current connections are displayed in this column.
	To change internal addresses, uncheck "Listen on all IP addresses" checkbox.
External addresses	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 ad-
	dress, 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.
	To specify non-default external addresses, check
	"Specify" checkbox.
Changing external and	Click on IP address to open a window for editing.
internal addresses	Clicking on "Delete" will delete the existing IP ad-
	dress. If you want to save the settings, click on
	"Save". To cancel the changes, click on "Cancel". To
	button "Add" and onter the necessary data in the
	"Host and "Port" fileds By clicking on "Save" you will
	add a new IP address. You can return to previous
	settings by clicking on "Reset". To save the changes
	click on "Apply".

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.

3 UB056 - SMTP ×		
← → C 🗋 localhost:888	38/admin/network/smtp/	Q 🕁 :
		Server status: running, registere
🐣 TrueConf	ub056.trueconf.name#vcs	System
General About Settings Network Settings SMTP Settings SIP Gateway Web Settings Security User Group Conferences Scheduled Recordings Endpoints Help Kelp Settings Group Conferences Scheduled Recordings Endpoints Help Kelp Subje Stable Conferences Scheduled Recordings Endpoints Help	proving Mail Server Admin e mail 127.0.01 Port fy administrator about server restart admin@localheat.cl fy administrator about server restart admin@localheat.cl fr administrator about server restart admin@localheat.cl fr mails	om Set default r = %imissed_cal_time ver = %imissed_cal_time

Setting	Description
Host, Port	IP address or hostname of the SMTP server used by the TrueConf Server.
Notify administrator about server restart	Allows the server to send notifications by e- mail in case of restart of the service.
Notify users about missed calls	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.

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 caller;
- %missed_call_time time of the call.

Template of a missed call to registered/unregistered users

Setting	Description
Subject	Subject template.
Body	Body template.
Apply	A button to save the progress.

Template of the invitation to a group conference

Setting	Description
Send invitations to participants of the group conference	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.
Subject	Subject template.
Body	Body template.
Apply	A button to save the progress.

5.2.3 SIP Gateway Section

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

NOTE: SIP Gateway tab is displayed only if there is a valid TrueConf Gateway license.

Administrator Guide

	scooo/aumin/network/sip/	42
		Server status: running, regi
🗳 TrueConf	ub056.trueconf.name#vcs	System
About eneral About Settings etwork NEtwork Settings SMTP SIP Gateway eb Security Sers User Accounts Groups Alases User Storage roup Conferences Scheduled Recordings ndpoints elp	SIP Gateway VoIP Server Server: Login: Password: Registration: off Server: Join: Password: Password:	

Component	Meaning	
Server (VoIP server)	IP-address or host name of the server, which is used for calls in the PSTN.	
Login	Account of the VoIP server for the gateway.	
Password	Password to the account of the VoIP server, which is used for the gateway in the system.	
Server (SIP Proxy by default)	Default IP-address or host name of the SIP server.	
Login	Account of the Proxy server.	
Password	Password to the Proxy server account.	
Registration	 Registration mode on a third-party SIP server using REGISTER request. Possible entries: off - REGISTER request cannot be sent, authorisation is performed during a call; permanent - automatic authorisation on each server's launch, available untill the server shutdown; before call - REGISTER request is sent directly before a call and is supported during a call only. 	
Network Settings (Listen on all IP addresses)	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".
SIP From Domain	Domain name or IP address of the server. Click on "Apply" so that the incoming calls are displayed as <u>user@domain</u> , where domain is the Outgoing SIP domain. This allows SIP users to call back the users of the server.

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.

Call routing	Value
Via VoIP	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 True-Conf 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.

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 IP-address or a domain name;
- call it by a double-click on the name of the subscriber.

From TrueConf Web Manager. To do this:

 create and plan a group video conference, using the tab "Group con ferences - Planned"; • 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 5.10.1.
- 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_url may look like this: 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):

- create a group conference in the tab "Group conferences Scheduled";
- enter the address of the IP-camera in the field «Add by ID» and click on "Add";
- run the video conference.

⇒ G U	localhost:8888/admin/conferences/create/	ව යු 👜
		Server status: running, regist
& TrueConf	ub056.trueconf.name#vcs	System
ral	Create New Group Conference	
tines.	Conference examples	
ork	Concrete parameters	
work Settings	Topic: Conference	
TP	Owner: ···· ··· ···	
Gateway	Type: Symmetric T In symmetric mode all participants see each other.	
ions.	LIDP Multicare R	
urity		
	224.0.1.224/9000-6000	
r Accounts	Use this ID on client application to join the conference:	
ibe	CID: lejšce53826ab	
- Storana	- Paulidania	
Conferences	- Partugants -	
eduled	jeck on extention v	
ordings		
pints	Add via ID	
	#rsp:217.17.220.110%2Facis-media	
	Add	
	v v	
	Delete selected	
	Schedule	
	Choose day and time of conducting a group conference	
	r Type of Conference frequency	
	© One-time	
	© Recurrent Time	
	11:00	
	Time zone	
	(GMT+02:00) Baghdad, Kaliningrad, M 🔻	

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 TrueConf configurations.	in the Server	 Check rightness and correspondence of the data in the SIP Gateway tab of the configuration wizard: Address: an IP-address of the network interface used for TrueConf gateway.

	TrueConf Server is offline or	 Server: IP of the host interface, which is used for VoIP/SIP server. 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 connection.	Check network connection on the PC with SIP-terminal (if SIP- terminal is installed on the PC). To do this you can use "ping" command with IP-address of 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.

5.3 "Web" Group of Settings

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

5.3.1 "Settings" Section

← → C 🗋 localh	ost:8888/admin/web/settings/	Q 🕸 :
		Server status: running, registere
🖀 TrueConf	ub056.trueconf.name#vcs	System 🔻
General About Settings Network SIF Gateway Web Settings Security User Accounts Groups Alases User Storage Group Conferences Scheduled Recordings Endpoints Help	Substance Substance	

The "Settings" section includes the following options:

Element	Description
Guest page	Contains the URL of the page with the download links and configuration information for the client applica- tions for various operating systems. TrueConf Server administrator can distribute the URL among the users of the server.
Visible Contact Infor- mation of the Adminis- trator	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».
URL for direct True-	This section contains direct links to download client
Conf client download	applications for Windows and MacOS X.
External Web URL	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.

Company logo	Uploading your company logo to display on the guest
	page. When you click on "Upload" the window will
	open to upload the file. By default, <u>TrueConf</u> logo is
	shown.

5.3.2 "Security" Tab

👪 UB056 - Web Security	×		• X
← → C 🗋 localhost	/admin/web/security/	Q	☆ =
	Server sta	atus: running, reg	istered
🕾 TrueConf	ub056.trueconf.name#vcs	System	T
General About Settings Network Network Settings SMTP SIP Gateway Web Settings Security User Accounts Groups Aliases User Storage Group Conferences Scheduled Recordings Endpoints	▲ Web Security ▲ Dashboard Access to admin area from other computers is limited to TrueConf Server Admin Windows security group.	sreserved. Licens	e soreenet
	C Onlin	ne - Live chat with us!	<u>e aqreement</u>

In this tab you can limit the access to the management of your server. To do this, simply tick the appropriate field and click "Apply."

By default, the "Subnets" field displays the subnets that can be controlled.

API

To ensure that TrueConf Server works with other products through the Internet in roaming, 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 "User accounts" Section

* Not available in trial version of the server

	lhost:8888/admin/users/list/		Q 🕁
	U	ser have been successfully deleted	Server status: running, regist
StrueConf	ub()56.trueconf.name#vcs	System
out ttings oork twork Settings TP 2 Gateway ttings	User Accounts All users User Accounts (4) Add User Search: enter name or TrueConf ID		Ç onine
s er Accounts	Display Name	TrueConf ID	Status
oups	dmitriy	dmitriy	 offine
er Storage	irina	irina	 offine
p Conferences neduled	otina	otina	offine
cordings pints	test	test	offine

In User Accounts section you can add and manage users.

Press "Add User" button to add new user. Clicking on this button will open a form for filling in the information about the user.

You also search fo users in address book. To do this, enter subscriber's data in the filed Search: enter name or <u>TrueConf</u> ID. When "Online" checkbox is selected, the search will be conducted among the users who are currently online. To edit user, click on him/her in user list.

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

To delete the user tick the box on the left of his name and click on "Delete Selected".

UB056 - Edit user	×		
÷ → 🗙 🗋 local	host:8888/admin/user	s/edit/?login=test	Q th
			Server status: running, register
🖀 TrueConf		ub056.trueconf.name#vcs	System
eneral	Edit user		
About	Account information	n	
Settings	Chabura	el Activo	
twork Jobwork Sottings	Diatos		
MTP	TrueConf ID:	test @ub056.trueconf.name	
IP Gateway	Password:	Confirm:	
b	E and		
ettings	Critidii	test@ubuse.trueconr.i	
ecurity	Display name:	test	
rs ser Accounts	First name:		
roups			
liases	Last name:		
lser Storage	Company:		
up Conferences	Groupsi		
cheduled	Groups.	no selection	
ecoraings Inoints	Mobile:		
D	Work:		
	Home:		
	Save	Delete Back	
	Address book (4)		
	ID:	Display name: Add	
	Uses will have address	a bands of these message combined. Users without anothe	
	User will have addres	a prove or stress Brooks complition: Osers Mistori Globb	
	Search: enter nam	e or TrueConf ID	💷 online
	This method is the part of the '	Teached Canas 14.2.0 linears and is marked to confine and costed server. Teached Canas (s) 2010-2014 Teached 11.0. All sights canas and	
инение	This product is the part of the	Husewer server interver einers einers neeren is neeren to contigure and control server. Intervan server (c) 2010-2014 Truscont LLC. All hights reserved	Need help?

Following is the list of user account attributes.

Element	Description
Status	Can be Active or Passive. Passive users cannot connect with the server but their account will not be deleted.
TrueConf ID	Mandatory field. It is used for authorization and calls. Full TrueConf ID contains this TrueConf Server registered server name.
Password, Confirm	User's password to log in to the client applica- tion.
E-mail	E-mail for user notification
Display Name	If this field is left blank then it will be filled in au- tomatically by joining the TrueConf ID
First Name, Last Name	Optional fields. Personal data.
Company	This filed is not required. The name of the organ- ization where the user works.
Groups	User may belong to some group.
Mobile/Work/Home	The fields are not required. Here you can add home, mobile or work phone number of the user.
Save	Click to save all changes to the user account.
Delete	Click to delete the user account.
Back	Return to the previous page.

Adress book

To add a user to the Address Book, type his TrueConf ID and display name in the corresponding fields and click on "Add". Also, on the page of changing user info you can search for users and delete them.

5.4.2 "Groups" Section

* Not available in trial version of the server

- → C 🗋 local	host:8888/adm	nin/group/list/?checked_group_id	=0001&sort=				વર
		The set	tings are saved			Server status:	running, regi
沓 TrueConf		ub056.true	conf.name#vcs				System
eneral About Settings letwork Network Settings SMTP	Groups	st	Create				
SIP Gateway Veb Settings Security	۰	Group Name	Address Book	Address Book Editing	Make Calls	Use collaboration tools	Create group conference
sers Liser Accounts		Group 1	Customize				
Groups Aliases User Storage roup Conferences Scheduled Recordings ndpoints elp		Users without aroup	Customize	8	8	8	8

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 1-on-1 calls.
- Using collaboration tools.
- Creating group conferences.

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 "Adress book settings" of a specific group. There you can change all the necessary settings:

Element	Description
All users	With this checkbox the users of a certain group will see all users of the server in their

	address book. This checkbox is chosen by default.
User groups	Group participants see only users of certain groups. When choosing this checkbox you need to select from dropdown menu the groups to in- clude to the address book.
No one	Group participants cannot see other users of the server.
Apply	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 <u>TrueConf</u> ID and Name of the user.

"Search by name of <u>TrueConf</u> 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.

"Address book editing" menu

By selecting this checkbox the administrator allows users to edit group data: to change names of the users, delete/add new subscribers or make any changes in the address book of a user.

If the box is not checked, it means that the users of this group cannot make all these changes. In such case, all changes are made by the administrator in the web-management tool and are expanded to all the address books in the group.

5.4.3 Aliases Section

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.

F → C f Docalh	ost/admin/use	ers/aliases/			Q 🎲 🧡
					Server status: running, registe
🕾 TrueConf			ub02m.trueconf.name	#vcs	System
Seneral About Settings Jetwork	Aliases	5 es			
Network Settings				Create alias:	
SMTP		Alias	User	Alias	
SIP Gateway Veb	۲	12	fialkovskaya@ub02m.truecor	nf.name User	
Settings		14	omelchenko@ub02m.trueco	nf.name	
security				Add	
User Accounts					
Groups					
User Storage	•		III	•	
roup Conferences	De	lete selected			
Scheduled Recordings					
ndpoints					

Component	Meaning
Alias	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.
User	You can choose a person from a list of users or enter his/her TrueConf ID into the corresponding field. Af- ter 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.

After typing an alias click on "Add".

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

5.4.4 "User storage" Section

* Not available in trial version of the server

👪 UB02M - User Storage		
← → C 🖬 🗋 local	nost/admin/users/storage/ Q 😒 🌵	Ξ
	Server status: running, register	red
🕾 TrueConf	ub02m.trueconf.name#vcs System	•
General About Settings Network	User Storage Current status: Server is in registry mode. Registry Registry	Â
Network Settings SMTP SIP Gateway	Enable Description: In this mode server stores user information on local computer. Users can be created and edited in VSC configurator. When server will be switched to LDAP directory mode, existing Registry mode user information on local machine will no longer be used.	
Seturity Security Users User Accounts Groups Aliases User Storage	DAP e Enable Description: In this mode server uses user information from remote or local LDAP directory. Predefined configuration settings for LDAP directories are built into the configurator, including Microsoft Active Directory. Existing user information is used and is manageable by LDAP directory tools. For Active Directory user access could be limited with Active Directory groups. If server is switched to Registry mode, user information will be kept on local machine. Import of user information from LDAP directory is possible in processor mode switching. Password data could not be imported.	
Group Conferences Scheduled Recordings Endpoints Help	This product is the part of the TrueConf Server v4.1.1 license and is needed to configure and control server. TrueConf Server (c) 2010-2013 TrueConf LLC. All rights reserved.	eement

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.

5.4.4.2 User storage tab in the Registry Mode

Element	Description
Switch	Switching of the data storage modes.

5.4.4.3 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.

5.4.4.4 Switching user database to the LDAP Mode

Element	Description
Automatically manage	Automatic add-on of all the users to every user's ad-
address book	dress book.
Switch	Switching of the data storage modes.

5.4.4.5 LDAP settings

LDAP tab becomes available when "User storage" is works in the LDAP mode. LDAP mode availability can be limited by TrueConf Server license.

		-	
IrueConf	ub02m.trueconf.name#vcs	Serve	System
General About Settings Network Settings SMTP SIP Gateway Web Settings Security User S Security User Accounts Groups Aliases User Storage Group Conferences Scheduled Recordings Endpoints Help		Domain:	Port: 389 Base DN:

Element	Description
Server type	LDAP Server type.
Secure connection	Connection to the LDAP in the safe mode. Only in this case safe transmission of the user information through the network is ensured.
Auto detect / Manual configuration	Automatic or manual choice of the LDAP server.
Domain (available only in the Auto detect mode)	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.
Server / Port (available only in the Manual configuration mode)	LDAP server address and port.
Base DN	Core LDAP context.
Authentication	TrueConf Server authorization modes on the LDAP server.
NTLM Authentication	After choosing this option the users can automatically get authorized in the system by using

TrueConf Server

	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.
Name, Domain, Password, Confirm	Authorization parameters on the LDAP server.
	For Active Directory in this field it's possible to indicate LDAP - group of users, who can get authorized on the TrueConf Server.
Group	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".
Additional	Additional LDAP parameters. Allow to adjust the parameters to other types of LDAP-servers.

When changing from LDAP Mode to Registry it is possible to import records about the users. For that in the dialog window, which will appear after pressing the Switch button, you need to tick the Import User information option.

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.

5.5.1 "Sheduled" Section

This tab allows administrator to create and manage group conferences. TrueConf Server supports three types of group conferences in two modes – normal and UDP Multicast.

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

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.

Role based conference (Role based)

- Can have up to 120 participants at the same time in the normal mode and up to 250 users in the UDP multicast mode.
- 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

					Ser	ver status: ru	inning, register
沓 TrueConf		ub02m.truecon	.name#vcs			S	/stem
eneral About Settings etwork Network Settings SMTP	Group	p Conferences conference list ate Delete					
SIP Gateway /eb		Topic	Owner	WebRTC peers	Туре	Transport	<u>Status</u>
Security sers User Accounts	۲	Conference WebRTC URL: http://192.168.66.32/c/64a24baaf0	the first participant	0	Symmetric	тср	 offline \c\64a24baaf
Groups Aliases User Storage	•	<u>Monday Meeting</u> WebRTC URL: http://192.168.66.32/c/3f83f533b7	the first participant	0	Role-based	ТСР	● offline \c\3f83f533b'
Scheduled Recordings							

Element	Description
Торіс	Conference Topic.
Owner	TrueConf ID of the conference host.
WebRTC peers	The number of participants, connected to the confeence via WebRTC. It is shown in the conference.
Туре	Chosen type of group video conference: symmetric, asymmetric or role-based.
Transport	According to the chosen type of conference may be:
	UDP – corresponds to UDP Multicast
	 TCP – corresponds to other types
Status	Status of the conference.
Create	Add group video conference. In the trial version of the server this buttion will be un- available. Only one conference is available to the user of the trial version - the one indi- cated in the list of scheduled group confer- ences. This conference may be edited, at- tended and deleted. You cannot create oth- er conferences in the trial mode.
Delete	Delete group video conference.
Launch	Start group video conference.
Edit	Edit group video conference.
WebRTC URL	The address of the page, which broadcasts group conferences via WebRTC.

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Note: Current version supports WebRTC in Chrome, Opera Mozilla and Firefox browsers. The number of simultaneous connections are limited by the license.

Following options are available when conference is created or edited.

	Server status: run	ning, regist
🗳 TrueConf	ub056.trueconf.name#vcssy	stem
neral About Settings	Edit conference	
etwork Settings HMTP IS Gateway b ietnings security es security ses security ses security liases Strouge table ser Strouge biological security ses security ses security ses security ses security ses security ses security ses security ses security ses security ses security ses security ses security ses security ses security ses security ses security ses security ses security ses security security security security security security security ses security secu	Topic: Discuss the adverd, prog Owner:	
	Delete selected Schedule	

Element	Description
Торіс	Topic of the conference.
Owner	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.
	Type of the conference
Туре	Symmetric
, , , , , , , , , , , , , , , , , , ,	Asymmetric
	Role based.
UDP Multicast	UDP Multicast allows to use local network re- sources 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
Multicast address	The field to indicate Multicast/Broadcast IP address. By default it is 224.0.1.224:4000-6000.
CID	Conference ID that users can use to join the conference
Participants	In this box you can add users to the conference by selecting them from a droopout list. You can also add participants by entering their ID's.
Schedule	You can schedule a video conference here. Choose the type of conference: «One-time» if you want to create a single event or Re- current 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. When the participants and the date of your conference are specified, you will see Send Invitation to Participants via E-mail box. If you put a checkmark there, all the chosen participants will receive an invitation letter to join a group conference in TrueConf Server. If the conference is scheduled on a specific time and date (One-time), the invi- tation letter will be sent directly after sched- uling. For Recurrent conferences the invita- tion letter will be sent directly before its start. * Not available in trial version of the server
	server

5.5.2 "Recordings" Section

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

You can choose the path to save the recorded file on your PC. To do this, in the field "Path" 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 fold-er]/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 "Okay". If you click on "Cancel", the path will stay the same.

-> C 🗋 lo	calhost:8888/admin/conferen	ces/recordings/		Qs
				Server status: running, re
TrueConf		ub056.trueconf.name#	tvcs	System
l t k ork Settings o Sateway	Recordings Recording settings Record al conferences Path: C\TrueConfRecordings		Apply	
ngs ity	To view recorder video you can use	VLC player or any other video player that supports WebM	codec.	
Accounts	Торіс	Date	Size	Actions
55	00000c9	2013-12-16 15:15:33	0,00 MB	÷ 🖬
es Storage	0000083	2013-11-22 15:57:58	55,92 MB	÷ 🖬
Conferences Juled	000007d	2013-11-18 12:35:17	2,88 MB	* 🖬
dings	000007c	2013-11-18 11:27:18	16,80 MB	÷ 🖬
	000007Ь	2013-11-18 11:18:07	1,44 MB	÷ 🖬
	0000073	2013-11-12 18:24:57	2,28 MB	÷ 🛛
	0000072	2013-11-12 17:52:11	1,43 MB	÷ ¥
	0000071	2013-11-12 17:51:26	0,52 MB	÷ 🖬
	0000070	2013-11-12 17:49:42	4,71 MB	÷ ¥
	0000006f	2013-11-12 16:28:14	0,77 MB	÷ 🖬
	0000006-	2012-11-12 16:22:56	33.48 MB	

List of recorded conferences

Element	Description
Торіс	Indicates the name of the conference.
Date	Date and time of the recorded conference.
Size	Size of the recorded file.
Actions	During the recording it will show a red indica- tor. 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. When the file is record- ed, a sign of red trashbin will appear to the right. Click on it to delete the recording.

5.6 Endpoints Section

This tab allows to view information about the endpoints.

👪 UB02M - Endpoints 🛛 🗙 🔲				_ = X
← → C ☆ Dicalhost/admin/	connections/list/			☆ 🐺 🔳
			Server statu	s: running, registered
🖀 TrueConf	ub02m.tr	ueconf.name#vcs		System 🔻
General ^ About Settings	Endpoints			<u>۸</u>
Network	Endpoint	Logged User	Application + version	IP
Network Settings SMTP	52DEE50DD0AC6B80E78BE81F89E7751F		TrueConf Client 6.3.0.3229	192.168.66.32
SIP Gateway Web	AD7C824AEA40CF644C1A5504D0D616B		TrueConf Client 6.3.0.3229	192.168.66.32
Settings Security				
Users User Accounts				
Groups				
Aliases User Storage				
Group Conferences				
Scheduled Recordings				
Endpoints				+
Help	his product is the part of the TrueConf Server v4.1.1 lie	cense and is needed to configure and control serve	r. TrueConf Server (c) 2010-2013 TrueConf LLC. A	Il rights reserved.
Ŧ			G Online - L	ive chat with us!

Element	Description
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 ID 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.

5.6.1 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

5.6.2 Video capture device information

Example of Endpoint's properties:

```
Video Capture:
Logitech QuickCam Pro 4000
NAS Polycom Video Source Filter
vvd.dll
```

5.6.3 DirectX information

Direct X:

5.6.4 DirectX features description

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

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

5.6.5 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

5.6.6 Network Test information

Network Test:

Parameter	IN		OUT	
	 			I

Bitrate, kBit		10000		9983	
Total, kB		7499		7499	I
Jitter Max, ms		20		10	I
Jitter Min, ms		0		0	I
Response, ms		50		0	I
Date:	Thu	Jan 22	17:	08:19 200	4

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.

5.6.7 Last conference information

Example of Endpoint's properties:

Last Conf: Name 0000001d@srv1:1 Bytes s/r 73/0 kB Bitrate s/r 12/0 kbit 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).

5.6.8 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
```

5.6.9 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:

- 1. Navigate to root of the desired domain.
- 2. Choose «Other New Records…» in a right-click menu.
- 3. Choose type «Service Location».
- 4. Set the following parameters.

	ecord	?
Service Locatio	n (SRV)	
Do <u>m</u> ain:	your.domain.com	
<u>S</u> ervice:	vcs2	•
<u>P</u> rotocol:	tcp	•
Pri <u>o</u> rity:	0	
<u>W</u> eight:	0	
Port <u>n</u> umber:	4307	
<u>H</u> ost offering t	nis service:	
videoserver.y	pur.domain.com	

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.

6.3 Authorization in client application TrueConf Client

In trial version of TrueConf Server there are 9 user accounts available (editing user accounts is available only for full registration key).

To log in the client application in the trial mode you need to use the following login/password pairs:

- User 1 1 / 1
- User 2 2 / 2
- User 3 3 / 3
- User 4 4 / 4
- User 5 5 / 5
- User 6 6 / 6
- User 7 7 / 7
- User 8 8 / 8
- User 9 9 / 9

If the server is not in the trial mode, administrator must distribute TrueConf ID's (login) and passwords among the users. This data must be used for logging in:

45	TrueConf Client login
Γ	TrueConf ID:
	user
	Password:
	•••••
	☑ Auto login
	OK

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 Roaming between servers

Roaming allows subscribers of different TrueConf Servers to make video calls, conduct group conferences and use collaboration tools. The server which has a "Roaming" option enabled provides media streaming between remote servers that support this feature it too. The number of servers involved in Roaming 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 Roaming are held on the same principle as within one TrueConf Server. No additional server adjustments should be done when using Roaming feature. Still, the following conditions are to be observed: you need to have license for TrueConf Server with Roaming feature for all servers that participate in Roaming, possibility for all servers and subscribers to connect to your server during Roaming.

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 "Connection using auto discovering".

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.

👪 UB02M - Settings 🛛 🗙 U	B02M - Main log ×	_ O X
← → C A Dicalhost/ad	min/general/log/	☆ 🐺 🔳
	Server status: runnin	ıg, registered
🕾 TrueConf	ub02m.trueconf.name#vcs system	▼ 1
General About Settings Network Network Settings	Main Advanced	A E
SMTP SIP Gateway Web Settings	TrueConf Server terminated at Sun Aug 11 19:23:15 2013	
Security Users User Accounts Groups Alases User Storage	TrueConf Server started at Mon Aug 12 12:11:04 2013 no valid licenses available! no valid licenses available! CHLICSRV: license check failed, terminating Error during the initialization. See Stdout[.log]. TrueConf Server terminated at Mon Aug 12 12:11:48 2013	
Group Conferences Scheduled Recordings Endpoints Help	This product is the part of the TrueConf Server v4.1.1 license and is needed to configure and control server. TrueConf Server (c) 2010-2013 TrueConf LLC. All rights reset	rved.
	 Online - Live chat wi 	License agreement ith us!

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

1. **Possible reason:** You have no license, or the license is expired

Workaround: contact your reseller or distributor.

2. **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.