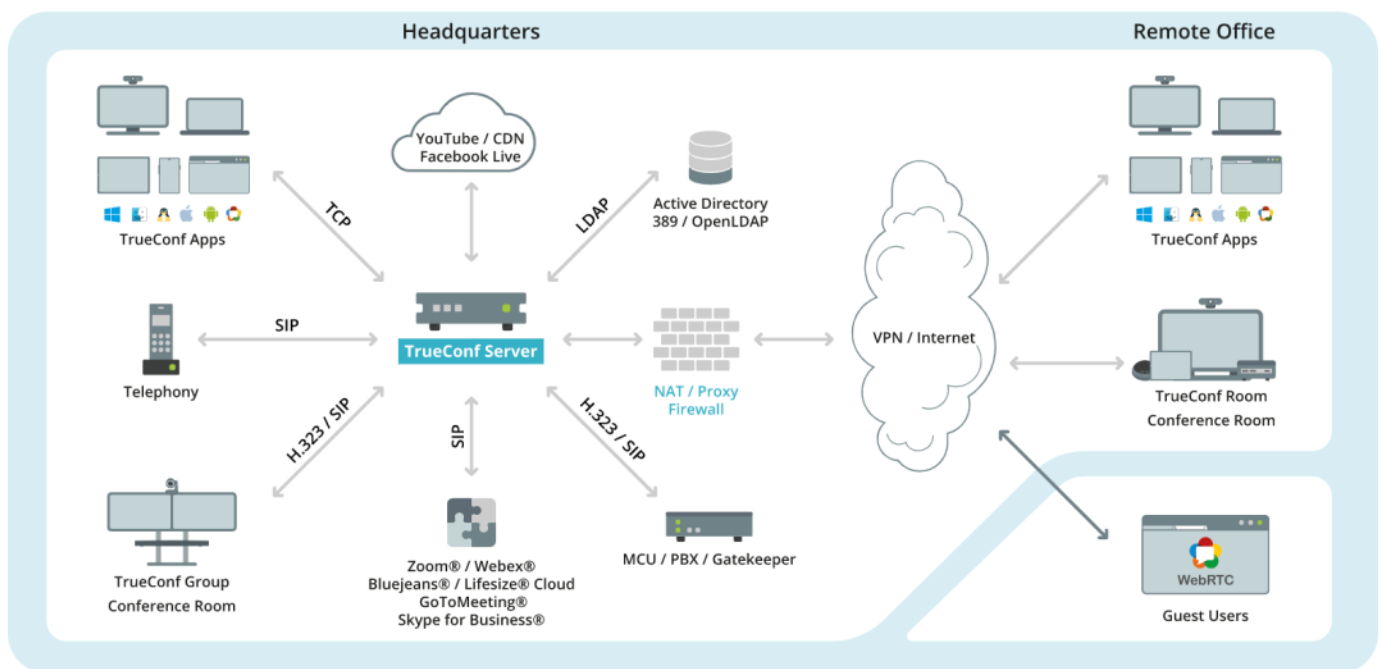


TrueConf Server

Administrator Guide



Version 4.7.3

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1. Installation and initial setup

TrueConf Server comprises a number of components:

- TrueConf Server system services
- Administrator [control panel](#);
- [TrueConf Server Security Admin control panel](#);
- [User's personal area](#);
- Guest page.

TrueConf Server system services

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

- endpoints authentication and authorization
- support for multi-point video conferences and point-to-point video calls
- events logging (calls history, usage statistics and chat messages)
- traverse NAT and proxy servers to connect endpoints
- scalable video coding (SVC) manipulations to media streams
- transcoding for third-party protocols and systems (SIP, H.323, RTSP, WebRTC and Skype for Business)
- communication with remote federated servers.

Administrator control panel

This component is used to control and modify TrueConf Server configuration during its operation. The control panel provides the following capabilities:

- launching and installing the server (as well as monitoring its current state)
- viewing [server reports](#) (log files) and [all user actions](#) (call history, message history, connection history, etc.)
- setting [conference recording](#) and [viewing the records](#)
- managing [user accounts](#) and their personal settings (as well as [combining users into groups](#) with similar settings)
- [conference scheduling](#)
- configuring [TrueConf Server API](#) access.

1.1. TrueConf Server Features

TrueConf Server core features can be extended by the following TrueConf solutions connected to it:

- [TrueConf for Windows, Linux, macOS](#);
- [TrueConf for Android](#);
- [TrueConf for Android TV](#);
- [TrueConf for iOS/iPadOS](#);
- [TrueConf Room](#);
- [TrueConf Kiosk](#);
- [TrueConf Videobar](#).

1.1.1. Supported protocols and codecs

1.1.1.1. Protocols

- Proprietary SVC-based TrueConf protocol used by all client applications.
- H.323 protocol set: H.239 for content sharing; H.281, H.224, Q.922 for camera control; H.235 for media

stream encryption; H.225, H.241, H.245 signaling protocols.

- SIP protocol set: BFCP for content sharing; FECC for camera control; SRTP for media stream encryption; TLS for signaling protocol protection.
- WebRTC: SRTP and DTLS for media stream encryption.
- RTSP video calls.
- QoS support: DSCP, DiffServ.
- AES-256 encryption support..
- Work with TrueConf API using OAuth 2.0 protocol.

1.1.1.2. Supported video codecs

- VP8 SVC, VP8, H.264, H.264 AVC, H.264 SVC, X-H264UC, H.263, H.263+, H.263++

1.1.1.3. Supported audio codecs

- Opus, G.711, G.722, G.722.1, G.722.1C, G.723, G.728, G.729A, Speex, MP3, AAC

1.1.2. Features

- Automatic search for available TCP ports for TrueConf Server control panel and database during the installation process. You can also set ports manually.
- Offline server registration (unavailable with TrueConf Server Free).
- Operation in LAN/VPN (unavailable with TrueConf Server Free).
- Set a minimal available version for TrueConf client apps used for calls and conferences.
- Add new features to your TrueConf Server using additional extensions.
- Back up and restore server settings.
- Configure external and internal addresses of your TrueConf Server instance.
- Send email invitations and newsletters to your users via external SMTP server.
- Create and edit email templates.
- Run video calls and conferences with users of other TrueConf Server instances (unavailable with TrueConf Server Free).
- Built-in gateway for SIP 2.0, H.323 and RTSP protocols.
- Configure video conferencing quality for WebRTC users and H.323/SIP/RTSP devices.
- Configure video conferencing recording quality.
- Brand your guest page and indicate administrator's contact information.
- Limit access to the TrueConf Server control panel for certain admin roles or with the help of an IP filter.
- Create admin accounts with read-only access to the TrueConf Server control panel designed for server monitoring.
- Configure HTTPS (e.g., changing ports, using a self-signed or commercial certificate).
- Integration with third-party video conferencing platforms.
- Add new user accounts or edit and delete existing ones.
- Create, edit and delete groups, include or exclude users from groups, change user rights within a group.
- Create an address book and specify individual application settings for both individual users and user groups.

- Add an alias for SIP/H.323/RTSP devices or for a user from another TrueConf Server instance to make it easier to call them.
- Store TrueConf Server user account data either locally or using a third-party service implementing LDAP protocol (**LDAP/Active Directory** extension required).
- Data transmission between conference participants bypassing the server (**UDP Multicast Conferences** extension is required).
- Create new conferences and webinars, edit and stop running meetings.
- Schedule conferences with weekly recurrence on specific days.
- Add and remove participants from ongoing conferences.
- Configure a general layout for all participants, as well as an individual layout for each user and SIP/H.323/WebRTC participants.
- Automatic recording of all conferences or only required ones.
- Online webinars with guest connections (requires **Public Web Conferences** extension).
- Conference streaming via CDNvideo, Wowza Streaming Engine, Wowza Streaming Cloud, YouTube, etc. (requires **Streaming** extension).
- Create new conference templates or edit existing templates.
- View reports about connections, calls, messages, statuses and user devices.
- Export reports in CSV format.
- Configure conference recordings, view them directly in the TrueConf Server control panel with video and chat synchronized (for .mp4 format only), download and delete them.
- Configure server storage for files transmitted in conferences.
- Extend your video conferencing capabilities using developer tools (TrueConf SDK and API).
- Deploy a system based on multiple video conferencing servers with [TrueConf Enterprise](#).

1.2. System requirements for TrueConf Server

	Basic configuration	Recommended configuration
CPU	Intel Core i3-8100 @ 3.6 GHz Intel Core i5-7400 @ 3.0 GHz Intel Xeon E3-1270 v5 @ 3.6 GHz or any other CPU with at least 4 logical cores and PassMark® CPU mark 7000+	Intel Core i7-8700 @ 3.2 GHz AMD Ryzen 7 2700 @ 3.2 GHz Intel Core i7-7700K @ 4.2 GHz Intel Xeon E5-1680 v4 @ 3.4 GHz Intel Xeon E5-2667 v4 @ 3.2 GHz or any other CPU with at least 8 logical cores and PassMark® CPU mark 12000+
Typical configurations capabilities	<ul style="list-style-type: none"> • Up to 1,000 online users connected via TrueConf client applications. • Recording or streaming of one conference of any type. <i>Plus</i>	
	<ul style="list-style-type: none"> • Up to 200 participants in conferences of any type, connected via TrueConf applications. or <ul style="list-style-type: none"> • Up to 100 WebRTC participants in role-based conferences. or <ul style="list-style-type: none"> • Up to 25 WebRTC participants on screen 	<ul style="list-style-type: none"> • Up to 400 participants in conferences of any type, connected via TrueConf applications. or <ul style="list-style-type: none"> • Up to 200 WebRTC participants in role-based conferences. or <ul style="list-style-type: none"> • Up to 36 WebRTC participants on screen

	in conferences of any type. or <ul style="list-style-type: none"> Up to 100 SIP/H.323 endpoints in role-based conferences. or <ul style="list-style-type: none"> Up to 10 SIP/H.323 endpoints on screen in a conference of any type. 	in conferences of any type. or <ul style="list-style-type: none"> Up to 100 SIP/H.323 endpoints in role-based conferences. or <ul style="list-style-type: none"> Up to 20 SIP/H.323 endpoints on screen in a conference of any type.
	Other examples of typical configurations →	
GPU-based hardware acceleration	With NVIDIA Quadro P2000 (or a comparable graphics card), you can add 20 individual layouts for SIP/H.323 participants without changing other hardware.	
Operating system	Dedicated or virtual server operating system: <ul style="list-style-type: none"> Microsoft Windows Server 2012/2016/2019 (including Core editions) with the latest updates installed Debian 9 / 10 CentOS 8 	
RAM	8 GB	16 GB and more
Hard drive	20 GB of free space	
Network	Ethernet 1 Gbit/s	
Ports	<ul style="list-style-type: none"> Port 443 (can be changed in the control panel) is the default HTTPS port for transmitting service information between the server, client applications and browsers. If this port is closed, the following TrueConf client application features won't be available: meeting scheduler, slideshow and real-time meeting manager. Port 4307 (may be changed in TrueConf Web Manager) is used to exchange media data with client applications. Learn more →	
IP	A static IP address is required for the server to work properly	
Supported hypervisors	Microsoft® Hyper-V, Xen, KVM, Oracle VM VirtualBox, VMware Workstation and ESXi.	

1.3. What is a registration key and how to get one?

Before installing TrueConf Server, please make sure you have a [registration key](#). It is a unique secret combination of characters that identifies licenses for your TrueConf Server instance. You have probably received a registration key when downloading TrueConf Server from our official website or when purchasing it from one of [our partners](#). In this case, skip this step and proceed to [TrueConf Server installation process](#).

If you do not have a key, you can receive a free license by clicking the **Download free version** button on the [TrueConf Server Free webpage](#).



A detailed comparison of the free and paid versions of TrueConf Server is available on the [pricing page](#).

Here you will find a TrueConf Server Free download form:

Download TrueConf Server Free

Language: English

TrueConf Server Free download will start automatically after completing all form fields. This data is required to release a free license for your organization.

Company

Contact name

E-mail

Contact phone

Country

United States

Valid format

☒ Please notify me about new releases, best practices and other TrueConf news.

☒ I accept the [Terms of Use](#) and [Privacy Policy](#).

We may use your email for sending automated notifications and product updates. [Learn more](#) about how TrueConf protects and uses your personal data.

Submit & Download

Corporate Network

Headquarters

Remote office

VPN

Remote user

Free

4K

15 min

SVC

Need help?

- What is TrueConf Server Free?
- How to setup and configure TrueConf Server in 15 minutes?
- What are the terms of use of the TrueConf Server Free?
- Can I install TrueConf Server on a regular PC?
- Are you ready to buy? Then click here!
- Contact Us

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

Thank you! What's Next?

Step 1. Download and Install TrueConf Server

[Download TrueConf Server 4.5.2.10027](#)

Step 2. Get the Registration Key

An email with the registration key has been sent to your email address ██████████.

Step 3. Follow Our Installation Guide

Deployment will take only 15 minutes, simply [follow our short guide](#).

Did Not Receive the Key?

If you cannot find the email containing your registration key in your inbox, please check the SPAM folder or [request the key via live chat](#).

Troubleshooting

If you encounter any issues, please [contact us](#).

Need help?

- How to setup and configure TrueConf Server in 15 minutes?
- Recommended computer configuration for TrueConf Server 4.5.2.10027?
- Where to get TrueConf Client application?



You will receive the key within 15 minutes

If you did not receive the key, please contact us in any way convenient to you or check your **SPAM** email folder.

1.4. Installation

TrueConf Server is distributed as a software installation package that contains the server side components and client applications for Windows PC. TrueConf client applications for other popular platforms are available on TrueConf website (alternatively, you can find the download links on the guest page).

Download and run the distributive to start the installation. The installation process will take not more than a minute.

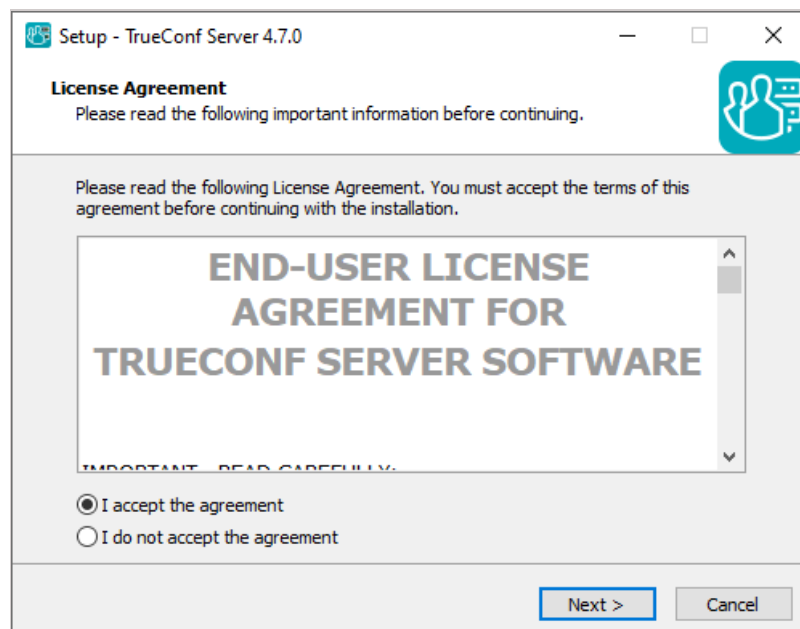
During the installation you can specify:

- TCP port for accessing control panel over HTTP
- TCP port of the database for server reports.



Database port for server reports is set to **5432** by default. It is selected during the installation process and cannot be changed afterwards (to change it you will need to re-install TrueConf Server). The control panel is given port **80** or **8888** (if port **80** is unavailable). If both port **80** and **8888** are unavailable, you will need to specify it manually during the installation process.

If control panel port is not **80** (HTTP) or **443** (HTTPS), you need to specify it manually in the host name after the colon in the browser URL bar (e.g. <http://localhost:8080>).



Can I install TrueConf Server on a PC with a web server already installed?

Yes. The installer will either automatically select available port, or give you the option to assign the port manually.

Your browser will automatically open TrueConf Server control panel after installation.



If you are installing TrueConf Server behind the firewall, in order to complete the registration process you should open TCP port `4310` to allow access to our registration server located at `reg.trueconf.com`.



How to change the port for control panel access without reinstalling TrueConf Server

For Windows OS: go to the TrueConf Server working directory (`C:\Program Files\TrueConf Server\httpconf\conf` by default) and open the **listen.conf** file using a text editor (administrator rights required). Change the port number in the `Listen <port number>` parameter (e.g. `Listen 8888`) and save changes. After that please reboot the computer on which TrueConf Server is installed.

For Debian OS: go to the `/opt/trueconf/server/etc/webmanager/` directory with superuser rights and open the **httpd.conf** file with a text editor. Change the port number in the `Listen <port number>` parameter (e.g. `Listen 8888`) and save changes. After that please restart the web server service using the following command:

```
$ systemctl restart trueconf-web
```

1.5. Registration process

Register the server. To do this, you will need to enter the [registration key you have received earlier](#).

Go back to the TrueConf Server setup page, enter your key in the **Registration Key** field and click the **Registration** button:

TrueConf Server Registration

You have to register TrueConf Server to activate it.
[TrueConf Server: Installation and Registration Instructions.](#)

If you don't have the registration key

[Get FREE Key](#)

Registration Key *

XXXXX-XXXXX-XXXXX-XXXXX

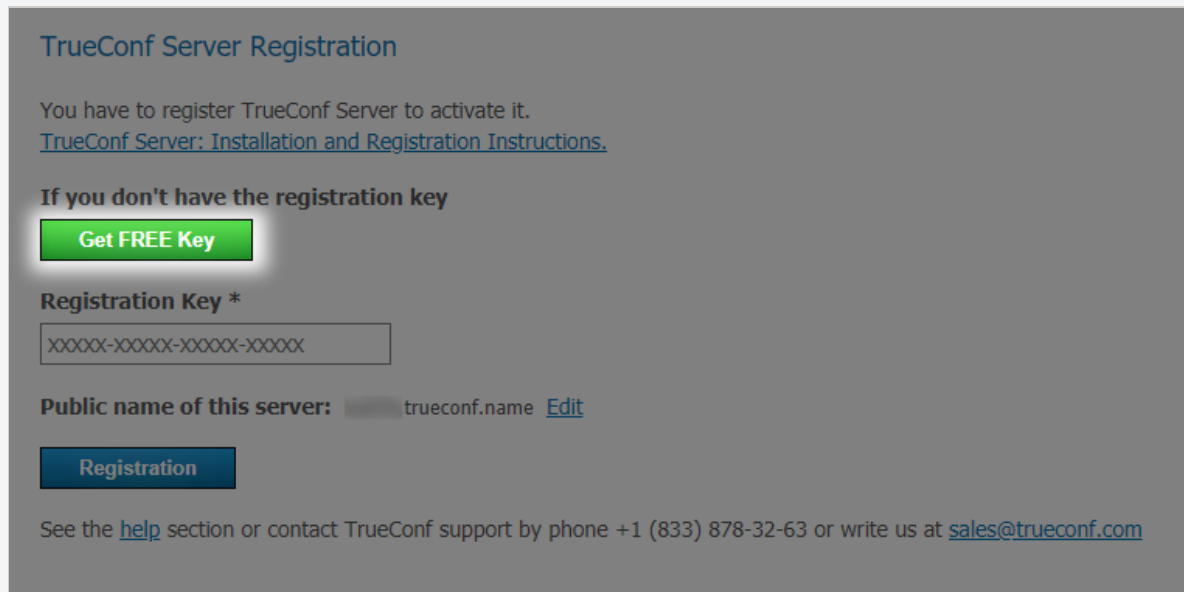
Public name of this server: .trueconf.name [Edit](#)

[Registration](#)

See the [help](#) section or contact TrueConf support by phone +1 (833) 878-32-63 or write us at sales@trueconf.com

*

If you do not have a key, click the **Get FREE Key** button on the TrueConf Server registration page and follow the [instructions above](#):



TrueConf Server Registration

You have to register TrueConf Server to activate it.
[TrueConf Server: Installation and Registration Instructions.](#)

If you don't have the registration key

Get FREE Key

Registration Key *

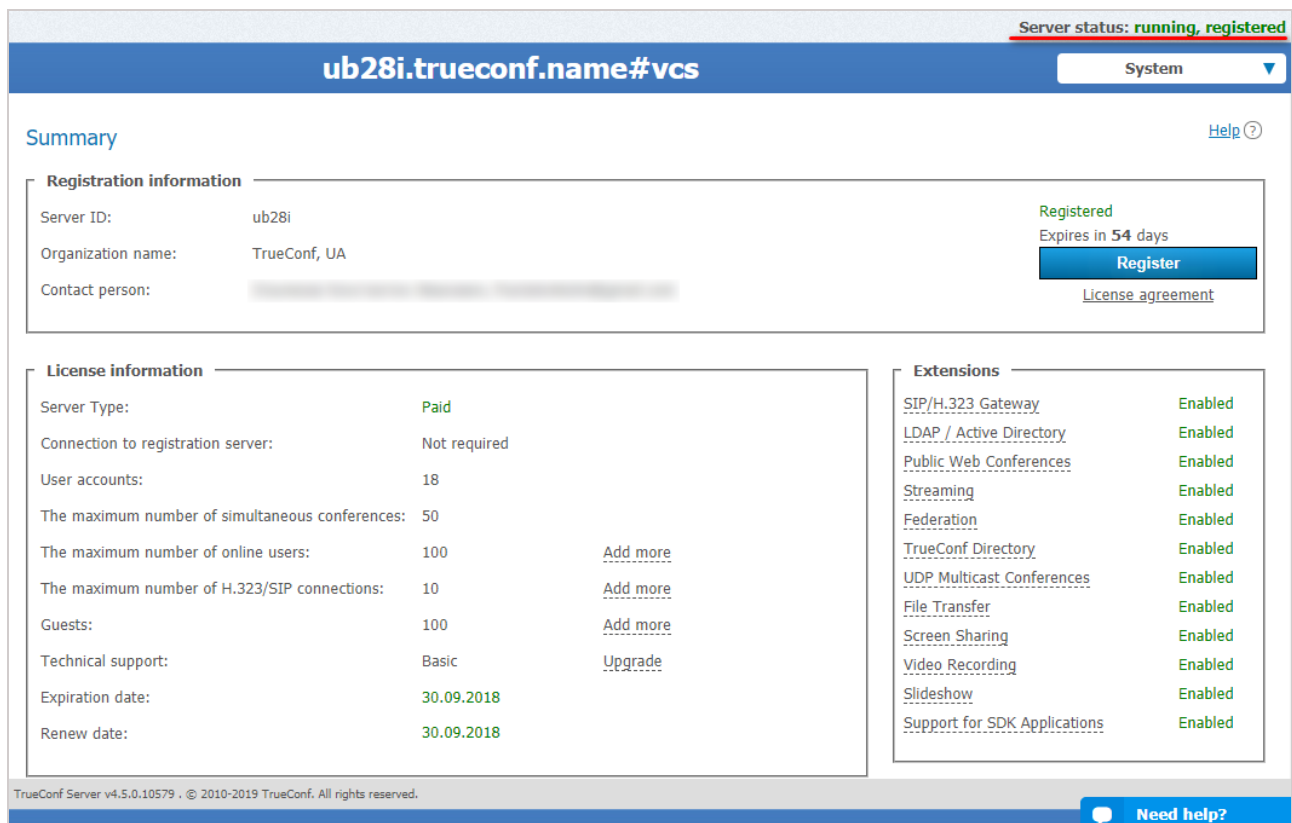
XXXXX-XXXXX-XXXXX-XXXXX

Public name of this server: trueconf.name [Edit](#)

Registration

See the [help](#) section or contact TrueConf support by phone +1 (833) 878-32-63 or write us at sales@trueconf.com

Once TrueConf Server has been successfully registered, you will see **running, registered** at the top right corner of the control panel window:



Server status: **running, registered**

ub28i.trueconf.name#vcs System

[Help ?](#)

Summary

Registration information

Server ID:	ub28i	Registered
Organization name:	TrueConf, UA	Expires in 54 days
Contact person:		Register
		License agreement

License information

Server Type:	Paid	
Connection to registration server:	Not required	
User accounts:	18	
The maximum number of simultaneous conferences:	50	
The maximum number of online users:	100	Add more
The maximum number of H.323/SIP connections:	10	Add more
Guests:	100	Add more
Technical support:	Basic	Upgrade
Expiration date:	30.09.2018	
Renew date:	30.09.2018	

Extensions

SIP/H.323 Gateway	Enabled
LDAP / Active Directory	Enabled
Public Web Conferences	Enabled
Streaming	Enabled
Federation	Enabled
TrueConf Directory	Enabled
UDP Multicast Conferences	Enabled
File Transfer	Enabled
Screen Sharing	Enabled
Video Recording	Enabled
Slideshow	Enabled
Support for SDK Applications	Enabled

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[Need help?](#)

1.6. 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 [trial registration page on our website](#) and follow the instruction from the [Registration section](#).

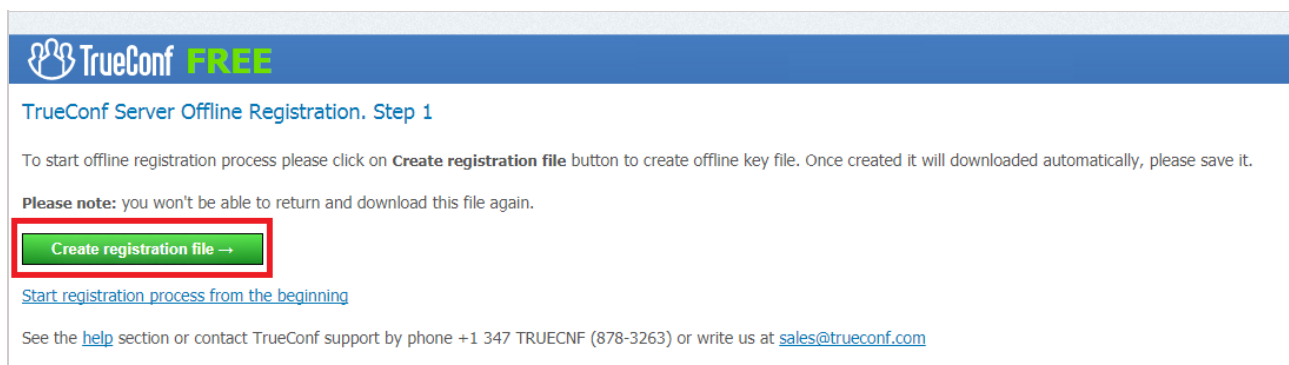
Once you have received an email containing your registration key, open the control panel on a PC

without Internet connection, enter the key into the **Registration Key** field and press **Registration**:



The image shows the 'TrueConf Server Registration' web form. At the top is a blue header with the TrueConf logo and the word 'FREE' in green. Below the header, the title 'TrueConf Server Registration' is displayed. The text explains that the user must register the server to activate it and provides a link to the installation and registration instructions. A green button labeled 'Get FREE Key' is shown. Below this is a red-bordered box containing a text input field for the 'Registration Key *' with a placeholder 'XXXXX-XXXXX-XXXXX-XXXXX'. Underneath the key field, the 'Public name of this server' is shown as 'ub056.trueconf.name' with an 'Edit' link. A blue 'Registration' button is also highlighted with a red border. At the bottom, there is a link to the help section and contact information for TrueConf support.

Create registration file button will appear in the registration window. Click on it to generate a file with your registration information:




The image shows the 'TrueConf Server Offline Registration. Step 1' web form. It has the same blue header as the previous form. The title is 'TrueConf Server Offline Registration. Step 1'. The text explains that the user should click on the 'Create registration file' button to create an offline key file, which will be downloaded automatically. A 'Please note' section states that the user won't be able to return and download the file again. A green button labeled 'Create registration file →' is highlighted with a red border. Below the button is a link to 'Start registration process from the beginning'. At the bottom, there is a link to the help section and contact information for TrueConf support.

The generated file **offlinereg.vrg** will be saved in your browser's **Download** folder. Please send the file to sales@trueconf.com. You will receive a file that needs to be installed on the PC with the offline-registered server.



Please do not try to restart offline registration until you receive a response to your request. If you restart offline registration, you will need to retry the whole process.

Click on **Select file** and select file **offline2.vrg**. Then click **Continue**:

 **TrueConf** **FREE**

TrueConf Server Offline Registration. Step 2

Please send **offlinereg.vrg** file generated during step #1 to sales@trueconf.com.

Browse to the registration confirmation file you've received from the sales department and click **Register**.

Select file

The file is not selected

Continue

[Start registration process from the beginning](#)

If you close this page, the registration process can be resumed at any moment from here on.

See the [help](#) section or contact TrueConf support by phone +1 347 TRUECNF (878-3263) or write us at sales@trueconf.com

If the offline registration has been successful, you will be notified that TrueConf Server has been successfully registered in the control panel.

* Can I register TrueConf Server Free without an Internet connection?

No, this feature is only available to those users who purchased annual or lifetime TrueConf Server license. If you need a trial version of TrueConf Server that operates without Internet connection, feel free to [contact us](#).

1.7. Control panel access settings

By default TrueConf Server can be administered from any computer in the same local network where it was installed. In other words, by default access is limited to the following ranges of IP addresses: `10.*` , `192.168.*` , `172.16-172.31` , `127.*` . If the administrator wants to administer the server from a remote machine, he/she needs to make sure that the firewall allows incoming connections over TCP port chosen for the control panel (`80` by default) and that this option has been enabled in the security section of TrueConf Server control panel.

To gain remote access, log in using your Windows account information from one of the following groups:

- **TrueConf Server Admin** to administer the server
- **TrueConf Server Security Admin** to view logs and conference recordings.

When the server is installed, the user's current account is added to the first group. To make the control panel accessible to another user, the administrator should add this user's account to one of the groups.

If **Allow admin access from localhost without authentication** option is checked in the **Web** → **Security** section, the control panel can be accessed directly without authorization from the machine where the server was installed via `localhost` or `127.0.0.1` host in any browser.

* See also

- How to administer the TrueConf Server [outside of LAN](#)
- [How to connect external users](#)

1.8. Changing the registration key

To change the registration key, proceed to **Dashboard** → **Summary** and click **Registration** button.

Summary [Help ?](#)

Registration information

Server ID:

Organization name:

Contact person:

Registered
Expires in 13 days
[Register](#)
[License agreement](#)

License information

Server Type: Paid

Connection to registration server: Not required

User accounts: 6

The maximum number of simultaneous conferences: 25

The maximum number of online users: 50 [Add more](#)

The maximum number of H.323/SIP connections: 10 [Add more](#)

Guests: 50 [Add more](#)

Technical support: Basic [Upgrade](#)

Expiration date: 02.11.2020 [Renew](#)

Renew date: 02.11.2020

Extensions

SIP/H.323 Gateway Enabled

LDAP / Active Directory Enabled

Public Web Conferences Enabled

Streaming Enabled

Federation Enabled

TrueConf Directory Enabled

UDP Multicast Conferences Enabled

File Transfer Enabled

Screen Sharing Enabled

Video Recording Enabled

Slideshow Enabled

Support for SDK Applications Enabled



What should I do if I get the message "Computer change is not available for this server code" when changing the key?

It means that your key is "bound" to the computer where the server was installed. To disable this binding, please contact us in any convenient way.

If you get the message **The registered server doesn't have valid licenses.** upon entering the key, it means either that the key has expired or the time and date on your PC have busted. Make sure that time and date are specified correctly on your PC.

The registered server doesn't have valid licenses. Please [contact technical support](#) to do it manually.

TrueConf Server Registration

You have to register TrueConf Server in order to activate it.
[TrueConf Server: Installation and Registration Instructions.](#)

If you don't have the registration key
[Get FREE Key](#)

Registration Key *

Public name of this server: ubipa.trueconf.name [Edit](#)

[Registration](#)

See the [help](#) section or contact TrueConf support by phone +1 347 TRUECNF (878-3263) or write us at sales@trueconf.com

1.9. 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 control panel:

Server status: **running, registered**

ub28i.trueconf.name#vcs System

Summary

[Help ?](#)

Registration information

Server ID: ub28i

Organization name: TrueConf, UA

Contact person: [redacted]

Registered

Expires in 54 days

[Register](#)

[License agreement](#)

License information

Server Type: Paid

Connection to registration server: Not required

User accounts: 18

The maximum number of simultaneous conferences: 50

The maximum number of online users: 100 [Add more](#)

The maximum number of H.323/SIP connections: 10 [Add more](#)

Guests: 100 [Add more](#)

Technical support: Basic [Upgrade](#)

Expiration date: 30.09.2018

Renew date: 30.09.2018

Extensions

SIP/H.323 Gateway Enabled

LDAP / Active Directory Enabled

Public Web Conferences Enabled

Streaming Enabled

Federation Enabled

TrueConf Directory Enabled

UDP Multicast Conferences Enabled

File Transfer Enabled

Screen Sharing Enabled

Video Recording Enabled

Slideshow Enabled

Support for SDK Applications Enabled

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[Need help?](#)



What to do if server is not running?

Stopped status is displayed in the **Server status** string.

There are three possible reasons for this:

- **Invalid license:** contact your system supplier to get a license.
- **Some server files are missing or have been damaged:** reinstall TrueConf Server (see [Installation](#))
- **The hardware key is invalid:** check [the manual to fix the hardware key](#) issues.

1.10. Server log

If you encounter any issues with TrueConf Server, TrueConf support team will be able to help you troubleshoot them more efficiently if you provide your server log files. To access the log, go to **System** → **Server log** located in the top right corner of the control panel.



Check **Enable detailed logging** in **Dashboard** → **Settings** section of the control panel to collect more detailed information in your server logs. Our technical support managers may ask you to do it to ease the troubleshooting process.

Server status: **running, registered**

ub28i.trueconf.name#vcs System

Dashboard

Summary

Settings

Network

Summary

Registration information

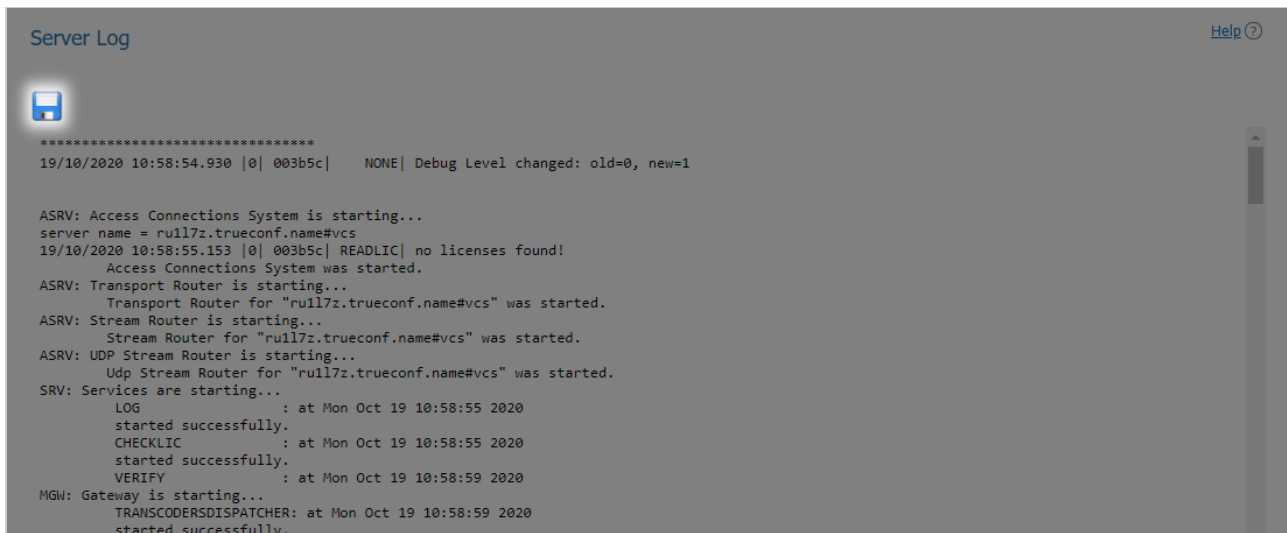
Stop

Restart

Server Log

Preferences...

You can download the logs by clicking on the save icon above the log:



```

Server Log

*****
19/10/2020 10:58:54.930 |0| 003b5c| NONE| Debug Level changed: old=0, new=1

ASRV: Access Connections System is starting...
server name = ru117z.trueconf.name#vcs
19/10/2020 10:58:55.153 |0| 003b5c| READLIC| no licenses found!
Access Connections System was started.
ASRV: Transport Router is starting...
Transport Router for "ru117z.trueconf.name#vcs" was started.
ASRV: Stream Router is starting...
Stream Router for "ru117z.trueconf.name#vcs" was started.
ASRV: UDP Stream Router is starting...
Udp Stream Router for "ru117z.trueconf.name#vcs" was started.
SRV: Services are starting...
LOG : at Mon Oct 19 10:58:55 2020
started successfully.
CHECKLIC : at Mon Oct 19 10:58:55 2020
started successfully.
VERIFY : at Mon Oct 19 10:58:59 2020
MGW: Gateway is starting...
TRANSCODERSDISPATCHER: at Mon Oct 19 10:58:59 2020
started successfully.

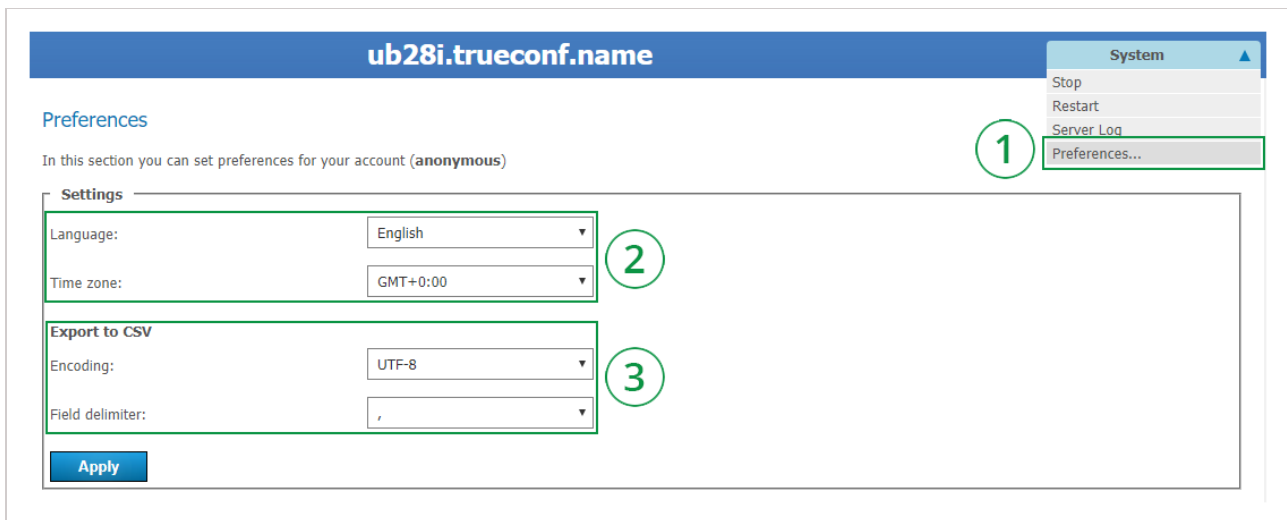
```

1.11. Configuring preferences

Each server administrator can select their own individual preferences.. You can access these settings in **System** → **Preferences** section.

Personal preferences include interface language of the control panel and a timezone. You can also set [report export](#) parameters (encoding and field delimiter to convert the table string to text format) in the **Export to CSV** section.

After making any changes make sure to click **Apply** button.



1. Shortcut for **Preferences** section
2. Interface preferences
3. Reports file export preferences

1.12. Adding users

1.12.1. Where can I find client applications

Send out the link to the [guest page](#) to your users to allow them to connect to your video conferencing system. They will be able to download client applications for any supported platform on the guest page.

The guest page is available at `http[s]://<server>[:<port>]` where:

- `<server>` - address of the PC with TrueConf Server installed
- `<port>` - port used to access the control panel (if you are using default **80** port, you don't need to

specify it)

For example:

- `https://videosever.com`
- `http://100.120.12.12:7777`



You can configure the guest page URL in the [Web → Settings](#) section of the control panel.

1.12.2. How to connect client application to TrueConf Server

You need to specify the server address in the network settings of your client application so that your client application can connect to your TrueConf Server instance and your users can authorize. You can either do it manually or let your client application find the server automatically via DNS.

Once connected to the server user will be prompted to authenticate on this TrueConf Server instance with [username and password](#).

1.12.2.1. Client application manual setting

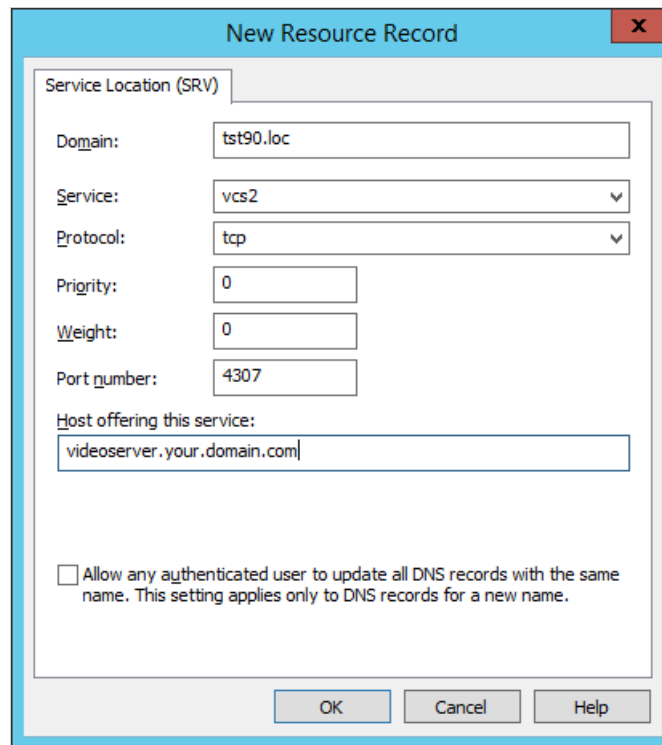
Users can configure connection to TrueConf Server manually. In order to do it, you need to specify the TrueConf Server address and connection port manually in the application network settings menu (or upon the first application launch). You can find detailed instructions on how to connect an application to the server on the guest page.

1.12.2.2. Client application automatic settings

Desktop client applications can automatically search for local TrueConf Server instance. To make this possible administrator needs to specify the address of the server in **primary DNS suffix** by creating a new SRV record for vcs2 service.

The following example shows how to do this using DNS utility in Microsoft Windows 2012 Server:

- Choose **Other New Records...** in a right-click menu
- Choose type «Service Location (SRV)»
- Set the following parameters.



The image shows a 'New Resource Record' dialog box with a blue title bar and a red close button. It contains several input fields and a checkbox. The fields are: Domain (tst90.loc), Service (vcs2), Protocol (tcp), Priority (0), Weight (0), Port number (4307), and Host offering this service (videosever.your.domain.com). The checkbox is labeled 'Allow any authenticated user to update all DNS records with the same name. This setting applies only to DNS records for a new name.' and is currently unchecked. At the bottom are three buttons: OK, Cancel, and Help.

Service Location (SRV)	
Domain:	tst90.loc
Service:	vcs2
Protocol:	tcp
Priority:	0
Weight:	0
Port number:	4307
Host offering this service:	videosever.your.domain.com
<input type="checkbox"/> Allow any authenticated user to update all DNS records with the same name. This setting applies only to DNS records for a new name.	
OK Cancel Help	

In this example the TrueConf Server instance has **videosever.your.domain.com** address and port 4307. Please make sure that protocol name (tcp) does not contain underscores.

2. TrueConf Server control panel

2.1. Control panel

2.1.1. Summary

In this section you can view information about your license, contact person details and the extensions available for your server. Here you can also renew your TrueConf Server license using the **Register** button, or purchase additional licenses in the **Extensions** section:

Summary

License agreement

Registration information

Server ID: UB0KM

Organization name:

Contact person:

Registered

Expires in 1311 days

Register

License information

Server Type: Paid

Connection to registration server: Not required

User accounts: 7

The maximum number of simultaneous conferences: 25

The maximum number of online users: 50

The maximum number of H.323/SIP connections: 5

Guests: 50

Technical support: Extended

Expiration date: 19.08.2020

Renew date: 19.08.2020

Extensions

Support for SDK Applications Add

SIP/H.323 Gateway Enabled

LDAP/Active Directory Enabled

Public Web Conferences Enabled

RTSP Streaming Enabled

Federation Enabled

TrueConf Directory Enabled

UDP Multicast Conferences Enabled

File Transfer Enabled

Screen Sharing Enabled

Video Recording Enabled

Slideshow Enabled

Improved Security Enabled

In case of any problems with TrueConf Server registration, the administrator may reach out to TrueConf technical support team via the contacts that will be displayed in case of an error.



If you're using a free version of TrueConf Server and connection to our registration server (host is `reg.trueconf.com` and TCP port is `4310`) is lost, your server will shut down in 12 hours. The expected shut down time will be displayed in the **Summary** tab. The full version of TrueConf Server does not impose such limitations.

If the server is connected to the Internet, administrator will be able to receive notifications updates in TrueConf Server control panel. In the left menu of the control panel you will see a notification, while at the top of the page a message with the latest version download link will be displayed. After you have updates, the notification will disappear.

2.1.2. Settings

In this section you can specify the work path for TrueConf Server data, view server reports and statistics and configure client applications.

The screenshot shows the 'Settings' page of the TrueConf Server. It is divided into several sections: 'Work path', 'Reports', 'Configuration', 'Application', and 'Application settings'. Numbered callouts (1-12) point to specific elements: 1. 'Path' input field in 'Work path'; 2. 'Enable detailed logging' checkbox in 'Reports'; 3. 'Backup settings' button in 'Configuration'; 4. 'Restore settings' button in 'Configuration'; 5. 'Setup URL' for 'TrueConf Client' in the 'Application' table; 6. 'Generate a new key' button for 'User connections authentication key'; 7. 'Generate a new key' button for 'Guest connections authentication key'; 8. 'User bitrate limit' slider; 9. 'User FPS limit' dropdown; 10. 'Pixel frame size limit' dropdown; 11. 'Display the Reactions panel in multipoint conferences' checkbox; 12. 'Save application settings' button.

Application	Current version	Min. ver	Last ver	Setup URL
TrueConf Client	6.6.3	6.5.4	6.6.3	https://10.120.1.141/downloads/trueconf_client.exe
TrueConf Windows	7.4.0	7.2.1	7.4.0	https://10.120.1.141/downloads/trueconf_windows_client.exe

1. A path to a working directory of server.



You cannot change the path to the working directory in the TrueConf Server for Linux control panel. To do it, we recommend using symbolic links (symlinks).

2. Enable extensive **logging** of server activities. Might be required by our technical support team for troubleshooting.
3. Create a backup file with server settings.
4. Restore your **settings** using a backup file.
5. Download links for client applications, which are published for your users on the guest page.
6. A field for generating a secret key. It is used for creating session keys to authenticate users in a video conference. To replace your key with a new one, press **Generate a new key** button. By replacing the key you can make your conference more secure (e.g. inhibit third-party connections).
7. A key similar to the previous one. It controls authorizing using guest accounts in public conferences.
8. Setting the maximum default bitrate that can be sent from each client application to the server.
9. Set maximum FPS rate transmitted from TrueConf Server to a client.
10. Set frame size limits in pixels.
11. **Enable statuses**, polls or reactions during a conference.
12. Save application settings.



We strongly advise you not to use settings 6-10, unless being told so by our technical support team, as they might significantly decrease the quality of your video conferences or put TrueConf Server security at risk. The ability of TrueConf Server to automatically and dynamically manage video streams encoding parameters is crucial for effective collaboration.

2.1.2.1. Configuration back-up and restore

Backup allows you to export and save most of the server settings excluding HTTPS settings, log files and usage reports. Backup file is essential for TrueConf Server migration and re-installation tasks. You can find the full guide on making a backup copy of and restoring the settings after a server transfer in our knowledge base.

2.1.2.2. Applications update settings

Below you can see the client application section. Here you can put limitations on the versions of the applications which will be used for video calls and conferences on your TrueConf Server instance:

Application				
Application	Current version	Min. ver	Last ver	Setup URL
TrueConf Client	6.6.3	6.5.4	6.6.3	http://192.168.56.1/downloads/trueconf_client.exe
TrueConf Windows	7.5.2	7.4.0	7.5.2	http://192.168.56.1/downloads/trueconf_windows_client.exe

Click on the client application in the first table row to open the settings window:

Settings TrueConf Windows

Minimal version
 7.4.0

Current version
 7.5.2

Last version
 7.5.2

Save Cancel

1. Minimal version of the client application supported by TrueConf Server. If the current version of client application is lower than the one specified here, client application will be stopped and mandatory updated.
2. Preferred version of the client application. If the version of the app is older than the version specified in this field, the user will be prompted to update. It's possible to cancel the update and continue to use the application unless it's version is higher than the Minimal one.
3. The version of client application which will be offered for update.

2.2. Network

This section covers TrueConf Server settings for connectivity with other TrueConf Server instances, client applications, third-party SIP or H.323 endpoints and email templates for notifications.

2.2.1. Network settings

In this section you can specify IP addresses and ports which will be used by TrueConf client applications to connect to TrueConf Server. IP address of the computer where TrueConf Server is installed is used by default.



Client applications communicate with TrueConf Server over **4307** TCP port. It is the only port that is used for signalling, authentication and audio and video streams. During slide show, file sharing and API calls, HTTP and HTTPS ports specified in the **External addresses** section are also used.

Neither UDP nor any other TCP port can be used for communication between TrueConf Server and client applications.

The list of **Internal addresses** includes those addresses and ports that TrueConf Server listens for incoming connections from the client applications. These are the addresses of network interfaces available from the computer where TrueConf Server is installed. When Listen on all IP addresses box is checked (it is usually checked by default), the list is automatically compiled with all such addresses. If you want to edit the list as you see fit, please uncheck this box.

Client applications downloaded from TrueConf Server will try to connect to the addresses from the **External addresses** on a first-priority basis (if they are unavailable, they will try to connect to internal addresses). This list may include the addresses forwarding to the internal addresses, IP address of your NAT, DNS name or the addresses where you are planning to move TrueConf Server to (this is usually done so that the applications that were downloaded previously could connect to the server via a new IP address). If the server is designed to operate on LAN only, you don't need to use this list.

After changing the port to an external, go to the **Web → Settings** section of the web configurator and change the external server URL to Public IP (that you indicated in the **External addresses** list). Then restart the server so that external users can connect to the server.



This guide does not cover TCP port forwarding or DNS names. You can learn more about these topics in your network equipment manuals.

If you plan to migrate the server to another IP address, all you need to do is to add the new IP address to the list of external address beforehand. This will help client apps to store the new address right after the next connection to the server in advance.

Network Settings

Internal addresses

☐ Listen on all IP addresses **1**

192.168.1.1:4307

Add **Reset** **Apply**

External addresses

☒ Specify **2**

3 **4** **5**

Add **Reset** **Apply**

1. This box is checked by default. Please uncheck it if you want to change internal addresses.
2. To specify an external addresses by **Add** button, enable this checkbox.
3. To add a new internal or external IP address.
4. Return to previous settings.
5. Click to save the changes.

2.2.2. SMTP

Although TrueConf Server doesn't have a built-in mail server, it can use an external SMTP server or service to deliver email notifications, invitations and other important messages to your users. You can change the templates used for these messages in this section as well.

To configure an SMTP connection:

SMTP [Help ?](#)

Outgoing Mail Server

Host: companemail.com Port: 465 Connection security: SSL

Authentication Type: simple password Login: admin Password:

Sender email: admin@companymail.com Sender name: Admin

Status: **successfully connected** **Check connection**

Admin e-mail

E-mail: admin@companymail.com

☐ Notify administrator about the server restart due to internal issues.

1. Specify the host (the address of the mail server).
2. Select a secure connection type: SSL, STARTTLS, or none.
3. Specify the port for your connection type if it is not default.
4. Select authentication mode (**simple password** or **no authorization**). If you have chosen password-

protected authentication mode, please enter login and password to connect your TrueConf Server instance to the SMTP server.

5. Fill in the email address fields (full mailbox address, including login, @ and domain) and sender's name in the SMTP **From** field. In this case, the address should match the login and host specified above.
6. Check your settings using the **Check connection** button. The current status of your connection to the mail server is displayed in the **Status** field: **successfully connected** in case of successful connection to the SMTP server and **invalid server** if the connection can not be established.
7. Enter your TrueConf Server administrator email to be displayed in the outgoing emails. Enable the checkbox below the input field so that the administrator is notified when TrueConf Server restarts due to internal errors.
8. Click **Apply** at the bottom of the page to save changes.

You can configure email templates to notify registered and unregistered users about missed calls or invite them to scheduled meetings. The corresponding templates can be found below the SMTP server connection settings.

To receive missed call notifications, enable the **Notify users about missed calls** checkbox. If any of the users is offline during the call or conference invitation, TrueConf Server will send an email notification at the email address specified in the **E-mail** field in the [user account settings](#) or in the corresponding field [imported via LDAP synchronization](#).

To enable email invitations for all new scheduled conferences, enable the **Send invitations to participants of the group conference** checkbox. In this case, when scheduling a meeting, all invited users will receive email invitations where date and time of the meeting (if any) is specified.



You can enable or disable email invitations for each meeting individually in [the Advanced tab](#) when creating or editing the conference.

2.2.2.1. Parameters used in email templates

Use the following syntactic structures to customize the templates of emails sent by TrueConf:

- For notifying users about missed calls:
 - `%caller_display_name` — display name of the caller
 - `%caller_call_id` — ID of the user who made the call (e.g. `user@server.trueconf.name`)
 - `%recipient_display_name` — display name of the caller (the user who missed the call)
 - `%missed_call_time` — time and date of the call.
- For inviting to a conference:
 - `%conf_name` — name of the conference
 - `%conf_id` — ID of the conference, e.g. `\c\df0a2adebe`
 - `%owner_name` — display name of the [conference owner](#)
 - `%user_display_name` — display name of the user who is invited to the conference
 - `%start_time` — time and date of the conference. Time is provided for UTC+00:00 time zone, be aware of your time zone difference
 - `%conf_description` — conference description [specified](#) in the **Advanced** → **Description** section when the conference is being created.

- `%host` — TrueConf Server external web address
- `http[s]://%host/c/%conf_id` — link to join the conference from PCs, macOS devices, mobiles, SIP/H.323 endpoints and browsers, eg. `https://server.trueconf.name/c/CID`.

Server administrator contacts parameters:

- `%admin_name` — display name
- `%admin_email` — email address
- `%admin_phone` — phone number.

2.2.3. Federation

Federation allows TrueConf Server users to call and invite to conferences remote users of other TrueConf Server instances. Federation is available only in full version of TrueConf Server (e.g. - for every paid license). The number of servers involved in federation is unlimited. Group video conferences will be conducted with regard to the license limitations of the server initiating the connection.

TrueConf Server instances can be federated if the connection between them is available. Server connection availability may be defined by black list (in this case the federation is available for all the servers that are not blacklisted) or white list (in this case the federation is available only for those servers that are whitelisted).

For example, by adding `trueconf.com` to the whitelist, you can allow your server users to call and receive calls from TrueConf Online cloud video conferencing service users (only those whose TrueConf ID has the following format: `id@trueconf.com`). By blacklisting `videoserver.company.com`, you will prohibit calls between your server users and any users whose ID has the following format: `id@videoserver.company.com`.



To be able to operate in federation, your TrueConf Server instance should be available to other servers and client applications by its DNS (FQDN) name indicated during the registration process. The server should be registered either under an existing DNS name or a server address using SRV DNS records.

If you would like to learn more, proceed to the client application automatic settings section.

The screenshot shows the 'Federation' settings page. It features a dropdown menu with three options: 'allowed for all but blacklisted servers', 'disabled', and 'allowed for whitelisted servers'. Below the dropdown is a table with columns for 'Server' and 'Status'. To the right is a 'Whitelist' section with a similar table. At the bottom are 'Add' and 'Apply' buttons. Numbered callouts 1 through 6 are placed over the interface to indicate specific actions or settings.

1. Allow connections from all servers except blacklisted ones.
2. Federation is disabled.
3. Allow connections with whitelisted servers only.

4. Click to add a remote server to the blacklist.
5. Click to add a remote server to the whitelist.
6. Click to save changes.

2.3. Gateways

TrueConf Server has built-in gateway for SIP 2.0, H.323, and RTSP protocols interoperability.



Built-in gateway is necessary only if you need to call the devices connected to a third-party server (e.g. H.323 gatekeeper, PBX, MCU). Otherwise you can use the call string for SIP 2.0/H.323 devices.

TrueConf Server supports tone dialing, so you can send the following DTMF commands from your SIP/H.323 endpoint during a [role-based conference](#):

- **1** – request to take the podium.
- **2** – to leave the podium.

To do this, use the supplied remote control or keypad. For more details, read the manuals for your specific device.



In our knowledge base, we covered using [Polycom HDX series endpoints](#) together with TrueConf Server, including sending DTMF commands from them.

2.3.1. SIP gateway

This section helps to configure TrueConf Server built-in SIP 2.0 gateway parameters. The number of rules created using these settings is unlimited.



TrueConf Server Free version provides only one **active** connection through the gateway, including SIP 2.0, H.323 and RTSP protocols.

Calling up devices via SIP gateway requires specific [call string formats](#).

SIP Gateway
[Help ?](#)

Network settings

☒ Listen on all IP addresses

10.120.1.1:5060 (tcp)

10.120.1.1:5060 (udp)

192.168.1.1:5060 (tcp)

192.168.1.1:5060 (udp)

fd00:120::1:d9f2:5060 (tcp)

fd00:120::1:d9f2:5060 (udp)

[Add](#)

Rules for SIP connections

Name	Role	Host	Status
SIP connections list is empty.			

[Add configuration](#)

2.3.1.1. Network settings

This list contains the addresses that are used by the gateway to listen for incoming SIP 2.0 connections. By default the list is prefilled with IP addresses provided by your operating system. You can edit this list by unchecking **Listen on all IP addresses** checkbox.

2.3.1.2. Rules for SIP connections

In this section you can create specific rules for certain SIP addresses or call directions. For example, you can use special set of settings to connect to Skype for bussiness servers and another one for PBX connectivity. Every rule is relevant only for target address specified in **Host** field. Every rule redefines global settings for SIP 2.0 connections.

Gateway can also authenticate on and maintain active connection with SIP devices for which the rules have been created. This option can be useful to maintain permanent connection with PBX or VoIP services. You can find the connection status in the rules for SIP Connections table.

To create a new rule, click **Add a configuration** and select one of the two possible templates: manual configuration or Skype for bussiness connection. Skype for bussiness template has some preselected features required for Skype for bussiness interoperability, e.g. port, protocol, used video codec and registration mode.

2.3.1.3. New rule form

Name field is only displayed in the table for rules. **Host** and **Port** fields are more important and also mandatory. They are required to determine call direction applied to this rule. If you are using an SIP proxy server, enter its address in the corresponding field. If the port for connecting to the proxy is different from the '5060' default port, enter the required port after the address and separate it with a colon. Please note that it isn't possible to set different rules for one host but different ports.

Create new SIP connection configuration. ✕

Name*

This field is required.

Host*

SIP proxy server

Port*

5060

Login

Password

Authorization name

International call prefix

Registration:

off

Transport:

Auto

The following block of fields is designed to authorize on an SIP device for which the rule is created. If the **Authorization name** is the same as login, you may leave this field blank. You can use **International call prefix** to replace the '+' symbol used in phone numbers with another value, e.g. '810'. If you leave this field blank, '+' symbol will not be replaced in the phone numbers your users are calling to.

Registration mode defines registration method for the rule:

- **off** — REGISTER request is not sent, registration or authorization on the external SIP device is not performed.
- **permanent** — registration is performed automatically when TrueConf Server starts.
- **before call** — registration is performed before every call and is kept active only during the call.

You can manually specify the connection protocol (TCP, UDP or TLS) if necessary.



Please note that each active gateway connection reserves one SIP 2.0/H.323 connection from TrueConf Server license.

Reduce SIP messages size

☐ Remove optional SDP attributes for static RTP payload types

☐ Use compact form of SIP headers

Advanced setting

☐ Enable ICE support

☐ Enable SRTP support

☒ Enable content sharing via BFCP

☒ Enable far end camera control via Q.922/H.224/H.281

☒ Enable timers support (RFC4028)

Max session refresh interval (seconds)

1800

Available codecs

<input checked="" type="checkbox"/> H.264	<input checked="" type="checkbox"/> G.722.1C 32 kbit/s	<input checked="" type="checkbox"/> G.722.1 24 kbit/s	<input checked="" type="checkbox"/> G.723
<input checked="" type="checkbox"/> H.263++	<input checked="" type="checkbox"/> G.722.1C 48 kbit/s	<input checked="" type="checkbox"/> Speex	<input checked="" type="checkbox"/> G.711 ulaw
<input checked="" type="checkbox"/> H.263+	<input checked="" type="checkbox"/> G.722.1C 24 kbit/s	<input checked="" type="checkbox"/> G.722	<input checked="" type="checkbox"/> G.711 alaw
<input checked="" type="checkbox"/> H.263	<input checked="" type="checkbox"/> G.722.1 32 kbit/s	<input checked="" type="checkbox"/> G.728	<input checked="" type="checkbox"/> G.729A
<input checked="" type="checkbox"/> X-H264UC			

Role

☐ Default SIP trunk ☐ Default VoIP server

Reduce SIP messages size. Use this option to reduce SIP messages size and avoid possible issues related to exceeding their maximum size (MTU).

Enable ICE support (Interactive Connectivity Establishment) checkbox makes TrueConf Server gateway available behind NAT.

Enable SRTP support checkbox is used to encrypt media data sent in this direction. For some SIP devices encryption is mandatory (e.g. for Skype for business servers).

Enable content sharing over BFCP checkbox will allow you to send and receive content from SIP devices as a second video stream. For example, it can be used to share desktop from the PC connected to SIP endpoint, or send slides back from TrueConf applications to SIP endpoints.

*

When you share content as a second stream from your SIP or H.323 device, the content is transmitted with a reduced frame rate to save traffic. If you need to transmit the second stream content at a higher frame rate, please contact [our technical support](#) to switch to the appropriate mode.

Enable far end camera control over Q.922/H.224/H.281 checkbox enables support for far end camera control of SIP endpoints from TrueConf client applications.

Enable timers support (RFC4028) is used for disconnecting SIP endpoint from the conference when the connection is lost.

You can manually specify **Max session refresh interval (seconds)** (1800 seconds by default).

The list of **Available codecs** displays the codecs which gateway is allowed to use in this direction. Disabling some of the codecs can solve compatibility issues with certain SIP devices, eg. Lifesize endpoints. For more details please contact our [technical support](#) team.

SIP device for which the rule is created can take **special roles**:

- **Default SIP trunk.** This role allows users to avoid entering full SIP URI for calls with `#sip:` prefix. For example, all calls in the `#sip:Endpoint` format will be automatically replaced with `#sip:Endpoint@Host`, where `Host` is taken from the properties of this rule and `Endpoint` is a username specified during the call.

- **Default VoIP server.** This role is required for treating an SIP device as a VoIP server or a PBX and activating the dialers built in TrueConf client applications. All the calls made from application dialers or with the help of `#tel:` prefix will be automatically forwarded to this SIP endpoint. For example, `#tel:Phone` will be automatically replaced with `#sip:Phone@Host`, where `Host` parameter is automatically taken from the properties of this rule and `Phone` is replaced with the phone number entered by user.

Please note that each of these roles can be assigned only for one SIP 2.0/H.323 connection rule.

2.3.1.4. Skype for Business integration configuration

This integration is designed to work with Skype for business 2015 Server or Lync 2013 Server on-premises deployments and cannot be used for their cloud versions:

1. Create a new account on Skype for business server for TrueConf Server gateway.
2. Use Skype for business template to create a new rule for SIP connections. Enter username and password of this freshly created account in the appropriate fields.
3. Enter Skype for business server IP address or domain name in the **Host** field.
4. Check **Default SIP proxy** checkbox.
5. Save the rule and check if the connection status has changed to successful in the table for rules. Please note that TrueConf Server service must be running.

To call Skype for business users from TrueConf client applications, use the following format: `#sip:User`, where `User` is TrueConf username. This user will receive an incoming call from the TrueConf Server account. The same method is used to invite Skype for business users into the conference or add them to address book.

To call TrueConf users from Skype for business client application, send the following message to the user created for TrueConf Server authentication: `/call <TrueConf_ID>`, where `<TrueConf_ID>` is any valid TrueConf Server user ID including SIP / H.323 devices registered on TrueConf Server. You can use `/conf` command to create a multipoint conference, etc. After the message has been sent, TrueConf Server will Skype for business user and connect him/her to a TrueConf user or a conference. If you try to call this user directly, the call will be rejected and you will receive a help message with a list of available commands in chat. However, if default call destination is set in global SIP settings, you will be connected to this default destination address.

Please note that you can also create a group conference on TrueConf Server and invite into the conference the endpoints connected via any protocols the gateway supports. For example Skype for business users and various SIP/H.323 devices or RTSP IP cameras.

2.3.1.5. Global SIP settings section

Most of the settings in this section are identical to the settings described above. However, they automatically apply for all SIP 2.0 connections for which there are no rules.

Global SIP settings

SIP From domain

Default call destination

SIP proxy server

Reduce SIP messages size

☐ Remove optional SDP attributes for static RTP payload types
 ☐ Use compact form of SIP headers

Advanced setting

☒ Enable content sharing via BFCP
 ☐ Enable ICE support
 ☐ Enable SRTP support
 ☒ Enable far end camera control via Q.922/H.224/H.281
 ☒ Enable timers support (RFC4028)

Max session refresh interval (seconds)

1800

Available codecs

☒ H.264
 ☒ G.722.1C 32 kbit/s
 ☒ G.722.1 24 kbit/s
 ☒ G.723
 ☒ H.263++
 ☒ G.722.1C 48 kbit/s
 ☒ Speex
 ☒ G.711 ulaw
 ☒ H.263+
 ☒ G.722.1C 24 kbit/s
 ☒ G.722
 ☒ G.711 alaw
 ☒ H.263
 ☒ G.722.1 32 kbit/s
 ☒ G.728
 ☒ G.729A
 ☒ X-H264UC

Apply

Other settings are described below:

- **SIP From domain.** It is used to generate a SIP URI for outgoing calls in the following format `user@server`, where `server` is the entered value and `user` stands for the user ID who initiated the call. It is usually displayed as a caller address on SIP devices.
- **Default call destination.** Use this field to enter user ID or conference ID (CID) which will receive all incoming calls over SIP 2.0 protocol where specific user wasn't specified in SIP URI.

2.3.1.6. Invitation of the SIP endpoint to the conference on TrueConf Server

There are multiple ways of inviting a SIP endpoint into a conference: conference owner can call a SIP endpoint using a [specifically formatted call strings](#) from TrueConf client application. Alternatively, administrator can do it from TrueConf Server control panel.

To add an SIP endpoint to the conference via control panel you need to:

- Select a conference in [Group conferences list](#).
- Add SIP endpoint as a participant of the conference if it's not started yet, or invite in case it's already running. Use a [call string](#) to address the SIP endpoint.

2.3.1.7. Connecting SIP endpoint to the conference via CID (conference ID)

Proceed to [Group conferences list](#) and create a group conference. Take note of your **Conference ID** or CID (e.g. `\c\e22a39ba2a`).

To connect to the conference from the endpoint registered on TrueConf Server, enter CID into the endpoint address string. Please note that you need to replace `\c\` in CID with `00` (two zeroes). In our case, you need to call `00e22a39ba2a@<server>`.

To connect to the conference from the endpoint unregistered on TrueConf Server, use the following format:

- `CID@<server>`, where `CID` is a conference ID with two leading zeroes instead `\c` and `<server>` is an IP address of TrueConf Server gateway e.g., `00e22a39ba2a@192.168.1.99`.
- `CID@<Server>:<port>;transport=<protocol>`. You can indicate non-standard port `<port>` for SIP connection and choose a protocol `<protocol>` (TCP or UDP) e.g. `00e22a39ba2a@192.168.1.99:5061;transport=TCP`.



You can also find an instruction on how to connect to a conference held on TrueConf Server from an SIP endpoint on the conference web page.

2.3.2. H.323 gateway

This section explains how to configure built-in gateway parameters for H.323 connections. The number of rules for H.323 connections created using this section of control panel is unlimited.



TrueConf Server Free version provides only one **active** connection through the gateway, including SIP, H.323 and RTSP protocols.

H.323 connections are generally used to call third-party video conferencing endpoints. With TrueConf Server you can also set up H.323 integration with MCU, H.323 gatekeeper and PBX, which can be useful for addressing endpoints and users registered on these devices via H323-ID or E.164 without specifying IP address of the endpoint in the call string. To call an endpoint via H.323 gateway, there is a [special call string format](#).

H.323 Gateway Help ?

Network settings

☒ Listen on all IP addresses

10.120.1.1:1719 (udp)

10.120.1.1:1720 (tcp)

192.168.1.1:1719 (udp)

192.168.1.1:1720 (tcp)

fd00:120::1:d9f2:1719 (udp)

fd00:120::1:d9f2:1720 (tcp)

fe80::3968:1551:2ac7:6e54%12:1719 (udp)

fe80::3968:1551:2ac7:6e54%12:1720 (tcp)

fe80::e0b4:c35e:64f3:58a%18:1719 (udp)

fe80::e0b4:c35e:64f3:58a%18:1720 (tcp)

Add

Rules for H.323 connections

Name	Role	Host	Status
H.323 connections list is empty.			
<div>Add configuration</div>			

2.3.2.1. Network settings

This table contains address gateway used to listen for incoming SIP connections. By default the list is prefilled with IP-addresses provided by your operating system. You can edit this list by unchecking **Listen on all IP addresses** checkbox. The list of ports used for H.323 connections [is available in our blog](#).

2.3.2.2. Rules for H.323 connections

Here you can create specific rules for certain H.323 devices or call directions. Each rule is relevant only for specific destination address indicated in the **Host** field. Each rule redefines global settings for H.323 connections.

The gateway can also register on H.323 devices and maintain an active connection, which might be useful when connecting to an MCU or gatekeeper. The status for such connection is displayed in the rules table. To create a new rule, click **Add configuration** button.

2.3.2.3. New rule form

Name field value is used only to distinguish one rule from another. **Host** and **Port** fields are also mandatory. They are required to determine call direction to which this rule will be applied. Please note that it isn't possible to create different rules for one host but for different ports on it.

H323-ID and **Password** fields can be provided to authorize on H.323 device for which the rule is created. To maintain permanent connection with this device, you'll need to select necessary item in the **Registration** drop-down list.

Once successfully registered on the H.323 device, TrueConf Server can be reached via phone number in the E.164 format provided it has been specified in the **DialedDigit** field. This setting can be useful if bundled with **Default call destination** option in the global H.323 settings section. In this case all calls to the specified **DialedDigit** number outgoing from the connected H.323 device will be redirected to a specific user ID or conference ID on TrueConf Server side.



Please note that each active gateway connection reserves one SIP/H.323 connection from TrueConf Server license.

Enable H.235 encryption checkbox enables encryption of the media streams sent to H.323 devices according to ITU-T H.235 version 3 recommendations. It is required for proper interoperability with some endpoints.

Enable content sharing over H.239 checkbox allows to send and receive content from H.323 devices as an additional video stream. For example, it can be used to share desktop from the PC connected to H.323 endpoint or to send content from TrueConf applications in the opposite direction.



When you share content as a second stream from your SIP or H.323 device, the content is transmitted with a reduced frame rate to save traffic. If you need to transmit the second stream content at a higher frame rate, please contact [our technical support](#) to switch to the appropriate mode.

Enable far end camera control over Q.922/H.224/H.281 checkbox enables support for far end camera control of H.323 endpoints via **Q.922, H.224 and H.281** protocols from TrueConf client applications.

The list of **Available codecs** displays the codecs which gateway is allowed to use in this direction. Disabling some of the codecs can solve compatibility issues with certain H.323 devices.

H.323 device for which the rule is created can take **special roles**:

- **Default H.323 gatekeeper.** This role allows users to avoid entering full address of the [H.323 device](#) using `#h323:` prefix. For example, all calls in any direction in the `#h323:Endpoint` format will be automatically replaced with `#h323:Endpoint@Host`, where `Host` is taken from the properties of this rule and `Endpoint` is a username specified during the call.
- **Default VoIP server.** This role is required for treating an H.323 device as a VoIP server or a PBX and activating the dialers built in TrueConf client applications. All the calls made from application dialers or with the help of `#tel:` prefix will be automatically directed to this H.323 endpoint. For example, `#tel:Phone` will be automatically replaced with `#h323:Phone@Host`, where `Host` parameter is automatically taken from the properties of this rule and `Phone` is replaced with the phone number entered by user.

Please note that each of these roles can be assigned only for one H.323 rule.

2.3.2.4. Global H.323 settings

Most of the settings in this section are identical to the settings described above. However, they automatically apply for all H.323 connections for which there are no rules. Use **Default call destination** field to enter TrueConf ID or conference ID (CID) which will receive all incoming calls over H.323 protocol in cases where destination user ID wasn't specified.

Global H.323 settings

Default call destination

Advanced setting
☐ Enable H.235 encryption
☒ Enable content sharing over H.239
☒ Enable far end camera control over Q.922/H.224/H.281

Available codecs

<input checked="" type="checkbox"/> H.264	<input checked="" type="checkbox"/> G.722.1C 32 kbit/s	<input checked="" type="checkbox"/> G.722.1 24 kbit/s	<input checked="" type="checkbox"/> G.711 ulaw
<input checked="" type="checkbox"/> H.263++	<input checked="" type="checkbox"/> G.722.1C 48 kbit/s	<input checked="" type="checkbox"/> G.722	<input checked="" type="checkbox"/> G.711 alaw
<input checked="" type="checkbox"/> H.263+	<input checked="" type="checkbox"/> G.722.1C 24 kbit/s	<input checked="" type="checkbox"/> G.728	<input checked="" type="checkbox"/> G.729A
<input checked="" type="checkbox"/> H.263	<input checked="" type="checkbox"/> G.722.1 32 kbit/s	<input checked="" type="checkbox"/> G.723	

2.3.2.5. How to call TrueConf users and conferences from H.323 devices

Depending on the H.323 endpoint model there are two different methods to call TrueConf Server users and conferences: using SIP URI or hashes (`##`) notation. Please try both to find the one suitable for your H.323 equipment. The call strings provided below should be entered as a string or number to call in the endpoint's interface. TrueConf Server IP address mentioned below could be an any address specified in H.323 network settings section.

- `Server##User` , where `Server` is TrueConf Server IP address and `User` is ID of the user or device registered on TrueConf Server.
- `User@Server` , where `User` is ID of the user or device registered on TrueConf Server and `Server` is TrueConf Server IP address.
- `\c\CID@Server` , where `CID` is ID of the conference on TrueConf Server and `Server` is TrueConf Server IP address.
- `00CID@Server` , where first two characters are zeroes, `CID` is ID of the conference on TrueConf Server and `Server` is TrueConf Server IP address.



For TrueConf Server ver. 4.3.9 or older the following notation is used:

- `\c\CID@Server` , where `CID` is ID of the conference on TrueConf Server and `Server` is TrueConf Server IP address.
- `\\c\\CID@Server` , some endpoints require back slashes in a call string.

2.3.2.6. How to register H.323 devices on TrueConf Server

TrueConf Server can act as a gatekeeper or MCU for third-party H.323 devices and simplify their addressing. From the TrueConf Server user perspective an H.323 device registered on the server does not differ from any other user: you can see its status, call it from the address book or invite to the conference without using call strings notation. Similarly, calls using H323-ID names from a registered H.323 device interface will be interpreted by the server as a call to specific TrueConf ID to entered H323-ID.

Registering an H.323 device on TrueConf Server is similar for most endpoints available on the market. Basically, to do so, you will need to specify TrueConf Server address as a gatekeeper or MCU address and use username and password of any TrueConf Server account to authenticate.

2.3.2.7. How H.323 endpoint can call TrueConf Server user

Registering H.323 endpoints on TrueConf Server is similar for most endpoints available on the market. Enter TrueConf Server address as an H.323 gatekeeper or MCU address and enter username and password of the TrueConf Server account, on behalf of which the device will call.

2.3.3. RTP

In the **Gateways → RTP** section, you can configure the UDP port range used to exchange media data for SIP/H.323 calls (50000-51999 by default).

2.3.4. WebRTC

In this subsection you can configure the [UDP port range for a WebRTC connection](#) (53000-55000 by default).

You can also specify the address used for NAT traversal if automatic detection fails for some reason in the **Public IP address is added to SDP as an extra ICE candidate.** field in the TrueConf Server control

panel.

WebRTC [Help ?](#)

UDP port range

-

Apply

Public IP address is added to SDP as an extra ICE candidate.

Public IP address is added to SDP as an extra ICE candidate.

Apply

2.3.5. Transcoding

This section enables you to set up video conferencing quality for WebRTC users (in browsers), H.323/SIP/RTSP devices and recording fixation.

Transcoding [Help ?](#)

Restrictions for modules

FPS:

Recording

SIP/H.323

RTSP

WebRTC

Advanced

☐ Do not display self-view in video layout for H.323 and SIP endpoints
Enabling this option can significantly increase CPU load

☐ Use GPU to reduce CPU load

Apply

Checking the box **Do not display self-view in video layout for H.323 and SIP endpoints** allows displaying the conference layout for SIP and H.323 devices without your video window.



This setting can significantly increase the load on the CPU of the physical machine with TrueConf Server installed.

When the box **Use GPU to reduce CPU load** is checked, video conferences will be processed by the GPU of the physical machine with TrueConf Server installed.

2.4. Web

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

2.4.1. Settings

Web Settings [Help ?](#)

External address of TrueConf Server web

This address should be accessible for all users

① [Apply](#) ①

Guest page

Link to the guest page: [http://](#) ②

Display name of your company

Name: ③

Contact details of the server administrator

Contact name:


Email: ④

Phone:

[Apply](#)

Company logo

Logo to be displayed on the guest page



[Choose a file](#) No file chosen [Upload](#) [Set by default](#) ⑤

The logo must be on a transparent background in PNG, with maximum resolution 270x80 and no more than 1 MB.

1. TrueConf Server address used to build guest page links and scheduled web conference links.
2. A link to the [guest page](#) which contains instructions on how to connect new users to TrueConf Server.
3. Your company's name which will be displayed on the guest page.
4. Server administrator contact details which are published on the guest page and web conference pages.
5. Custom logo upload form for the guest page.

2.4.2. Web security

Web Security [Help ?](#)

Dashboard

Give admin access to:

- ☒ members of **TrueConf Server Admin** local security group **1**
- ☐ all Windows users on **localhost**

☒ Allow admin access from localhost without authentication **2**

☒ Limit access to admin area by IP **3**

10.0.0.0/8

192.168.0.0/16

172.16.0.0/12

Add **4**

API

Please indicate the secret key for TrueConf Server API. Read more in [API documentation](#)

Secret key **5**

tP6MjazyayCC5iN5TUeXQx5TGzNxEXFi

6 **Generate a new secret key** **7** **Apply**

1. Select Windows users who will have administrative access.



Users of the **Administrators** group also have access to the server administration.

2. By default accessing and managing the server from the IP addresses specified below does not require user authorization. Disabling this option will make authorization mandatory for all users.



Before unchecking this box make sure there is an account of the user added to the **TrueConf Server Admin** group on the computer where TrueConf Server is installed. Otherwise you won't be able to authorize and enter TrueConf Server control panel after the changes have been applied. If it did happen, please reinstall the server or contact TrueConf technical support.

3. Check this box to limit access to your server to the IP addresses specified on the list.

4. Press this button to add a subnetwork with access to the control panel. Add the address in the **Network address** field (admissible symbols are numbers and dots, admissible format is 4 octets in decimal representation without initial noughts from 0 to 255, separated by dots, e.g. `192.168.11.10`). To open a drop-down list in **Subnet mask** field click the arrow on the right side and choose the appropriate option. `32 - 255.255.255.255` mask is set by default.

5. Secret security key for accessing API of your TrueConf Server.



If you have a secret key, you can have permanent access to API until the key is changed. Hence we recommend using the secret key only for testing API, and using OAuth2 for regular work with it.

6. Click to generate a new secret key. Reverting to the previous key or using your own is not possible.
7. Click to apply the changes.

2.4.3. HTTPS

In this control panel section you can configure the safety data transfer parameters between your browser and TrueConf Server.

The screenshot shows the 'HTTPS Settings' interface. It has a 'Help' link in the top right. The 'HTTPS configuration' section (1) contains a dropdown menu for 'HTTPS mode' (2) currently set to 'Use self-signed certificate', with a link 'Why HTTPS is important and how to properly configure it'. Below is an 'HTTPS port' input field (3) with the value '443'. Under 'Usable TLS protocol versions', both 'TLSv1.2' and 'TLSv1.3' are selected (4). There are 'Test configuration' (5) and 'Apply' (6) buttons. The 'Self-signed certificate' section (7) displays two tables. The first table is for the 'Root Certificate Authority' (with a 'Download ca.crt' link) and the second is for the 'Certificate for server.company.com server'. Both tables show 'Subject' details and validity periods. A 'Create a new SSL certificate' button (8) is located below the second table. The 'Custom certificate' section at the bottom shows 'The certificate is not loaded.' and fields for 'Certificate file' and 'Key file', each with a 'Choose a file' button and a 'No file chosen' status, followed by an 'Upload' button.

1. Select one of the three operating modes:
 - **Disable HTTPS.** HTTPS protocol will not be used.
 - **Use self-signed certificate.** This mode uses a certificate automatically obtained from the server (this certificate is not suitable for connecting external users via WebRTC).
 - **Use custom certificate.** This mode uses a certificate uploaded by the TrueConf Server administrator.
2. Click here to go to the full [user guide in our blog](#).
3. Set TCP port which will be used by web server for operating via HTTPS protocol (it is required to use numbers). Port **443** is set by default.
4. Specify which protocol versions are supported by your server (select at least one version).
5. Click this button to verify the HTTPS configuration data without restarting the web server. This action does not change the configuration file of the Apache web server.
6. Click this button to save a web server configuration file and restart the server. Upon clicking on this button a dialogue box will appear, notifying the user that this action will lead to a reboot of the server. TrueConf and Apache reboot processes start up simultaneously because TrueConf Server uses the same certificate to run WebSockets WSS secure channel.
7. Generate a new certificate. The **Self-signed certificate** section will appear as shown on the picture only if this certificate type has not been issued before. If the certificate was issued before, this section will

contain the main parameters of the root certificate and certificate which was used by the web server and the TrueConf Server.

8. Select the appropriate certificate and key files and click **Upload**. The **Custom certificate** section looks like this only if this certificate type has not been issued before. If the certificate has already been downloaded, this section will contain the main certificate data (see **Custom certificate** segment below).

Safe connection channel between browser and server is essential for in-browser media capture using WebRTC technology for Google Chrome (starting from version 47).



After configuring HTTPS, you need to update the external address of your server in the **Web** → **Settings** section and make sure that it starts with **https**. For example: `https://video.company.com`.

2.4.3.1. HTTPS configuration

In this section you can select your certificate and set other HTTPS parameters. The web server applies HTTPS settings at startup. If invalid certificate port and parameters are entered, the web server will not start and administrator will lose access to the control panel. Therefore it is required to carefully check the parameters beforehand. Press **Test configuration** for your server to check if your HTTPS port is available.

2.4.3.2. Self-signed and custom certificates

There are two certificate types available in TrueConf Server. If you are using a trusted certificate, no additional actions are required, as browsers trust certificate authorities who signed it. To configure an uploaded certificate, the server administrator requires an X.509 certificate and the correct private key.

As an alternative you can also use a self-signed certificate:

- a self-signed certificate is valid for 365 days and can be generated from control panel
- this certificate can be renewed for unlimited period of time
- with a self-signed certificate, you can test WebRTC without purchasing a trusted certificate

2.4.3.3. Self-signed certificate

Self-signed certificate

Root Certificate Authority (Download ca.crt)

Subject	Valid after	Valid until
commonName=TrueConf Server CA ruwu1 5dca9700 organizationName=TrueConf countryName= surname= emailAddress= stateOrProvinceName=Some-State	Tue, 12 Nov 2019 14:26:56 +03:00	Wed, 11 Nov 2020 14:26:56 +03:00

Certificate for ruwu1.trueconf.name server

Subject	Valid after	Valid until
commonName=ruwu1.trueconf.name organizationName=TrueConf countryName= surname= emailAddress= stateOrProvinceName=Some-State subjectAltName=DNS:ruwu1.trueconf.name, IP Address: , IP Address:	Thu, 21 Nov 2019 15:23:15 +03:00	Fri, 20 Nov 2020 15:23:15 +03:00

Create new SSL certificate

To create a new self-signed certificate, press **Create new SSL certificate**. You may use this option to

renew your certificate for 365 days or to update information about your company in the certificate (if your company's name has changed). Administrator can download a root certificate file for sharing among client devices via the link **Download ca.crt**.

2.4.3.4. Custom certificate

If the certificate has already been downloaded, this section will contain the basic parameters of the certificate:

Custom certificate

Subject	Valid after	Valid until
commonName= countryName= stateOrProvinceName= organizationName=	Fri, 25 Dec 2020 17:04:24 +03:00	Sat, 25 Dec 2021 17:04:24 +03:00

Certificate: No file chosen

Private key: No file chosen

The certificate format, key format and key correspondence to certificate are checked during download. Should just one check fail, the certificate and key files will not be saved.

2.5. Users

2.5.1. User accounts

In the **Users Accounts** section you can add new user accounts, as well as edit and remove existing user accounts.













The maximum number of user accounts in TrueConf Server Free is 12.

User Accounts Help ?

Add user

Groups ☒

User	TrueConf ID	Email	
 Alice Carter	elisa	elisa@company.com	
 Danny Grave	danny	danny@company.com	
 Eric Winterman	eric	eric@company.com	
 George Jahnsen	george	george@company.com	
 Helen Born	helen	helen@company.com	

1. Add a new user.
2. Search for users.
3. View user groups available on the server.
4. List of users, registered on the server. User status is indicated in colored, square shaped icons displayed to left of the TrueConf ID:
 - Green color – the user is online
 - Red – the user is offline
 - Yellow – the user is in a conference
 - Yellow star – the user is the owner in the conference.

In order to change user information, click on the username. To remove a user, click on the trash button.



You cannot edit user details in LDAP mode. User data entry form is available only in Registry mode.

2.5.1.1. User profile

Click on any user account in any control panel section to proceed to edit mode:

Edit user

Account information

Status: ☒ Active ☐ Inactive

TrueConf ID:

Password: Confirm:

E-mail:

Display name:

First name:

Last name:

Company:

Groups:

Mobile:

Work:

Home:

1. Switching user to active or inactive status. If the status is inactive, the user account still exists, but the user cannot log-in to his/her TrueConf client application.
2. Disconnecting user from the network. You may use this option to allow another user to connect to server, when the maximum number of connections in your license has been reached.
3. A unique name used for signing in to the client application and making calls. Username may contain only Latin characters, numbers, underscores, hyphens, and points. Server name indicated after the username (@<server> next to the input field) is required for calling a user from another server. The username is set when creating a user and cannot be changed afterwards.
4. User password. You can change your password anytime.
5. The email address to which user notifications will be sent. Please [refer to the SMTP configuration](#) of the TrueConf Server.
6. The name you have entered will be displayed in the address book of other users. This field is prefilled as <ID>@<server> , where <ID> is the username you have entered at the step 3, and <server> is the name of your server. However, field value can be changed.
7. User's personal details. These fields are not required.
8. Defines user group. Click the arrow icon to view existing groups on the server. To add a user to the group, check the field to the left of the group name.
9. User's mobile, work or home phone number.
10. Save changes in the user account. Remove the user account. Go back to the previous page.

If a user has entered an incorrect password 10 times in a row, authorization via the web application will be blocked for 24 hours. You can enable the access to the application manually by clicking the **Unlock** button on their profile page:

At the bottom of the page you can select additional settings that will be activated in client application when the user signs in. These settings define input and output bitrate limits.

If such settings have not been configured, user group settings (if configured) are applied to the user. User group settings are displayed next to the user settings field. They are displayed for preview only and cannot be changed.



User application settings have higher priority than group settings: if you put user restrictions lower than group restrictions, user restrictions will be applied.

	User	Group settings
Inbound bandwidth limit (kbit/s)	<input checked="" type="checkbox"/> 3000	3500
Outbound bandwidth limit (kbit/s)	<input type="checkbox"/>	2000

[Apply](#)



Users can independently [change bitrate settings](#) in their client applications. But the server settings will have the highest priority.



At the bottom of the page you can find the address book and edit buttons. The address book contains all the users who are located in the address books of the user groups where the user belongs.

You can add individual user addresses to the address book of the user being edited. Please note that you can add not only TrueConf Server user, but also SIP/H.323 or RTSP users to the address book.

Address book

Add User:

User will have address book of these groups combined:

User	TrueConf ID	Email
 Danny Grave	danny	danny@company.com
 Eric Winterman	eric	eric@company.com

- Interface used to add a user into the list. Start typing user's name and you will see name options in the drop-down list.
- The list of the groups to which the user belongs and address books in which the user's address book (no option to remove data).
- Search for users.
- User profile from the address book.

2.5.2. Groups

In **Groups** tab you can create, rename, edit and delete groups. You can also add or remove users from the group, set up their address book and configure individual settings for the users of any group.

To add a new group, enter its name and press **Create**.

Groups

Group list

Group Name

<input type="checkbox"/>	Group Name	Address Book	Application	Address Book Editing	Make Calls	Use collabor... tools	Create group confere...	Operator Rights
<input type="checkbox"/>	Administrators	Customize	Customize	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
<input type="checkbox"/>	Customers	Customize	Customize	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	Programmers	Customize	Customize	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	Sellers	Customize	Customize	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	Users without group	Customize	Customize	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>

The newly created group will appear in the list of groups.

At the group level you can allow or forbid:

- Editing address book. By checking this field, administrator allows users to change users display names of the users, delete/add users and perform any other changes in the group's address book. If the box is not checked, group users will not be able to perform the actions mentioned above. In this case, all

changes are performed by administrator in TrueConf Server control panel and extend to all address books of the users from this group.

- Making point-to-point video calls. However, users can still receive incoming calls.
- Content sharing and slide show.
- Creating group conferences.
- Operator rights. Operator right enables a group participant to become a moderator and have access to the [real-time meeting management tool](#) of any conference he or she joins.

These settings allow you to distinguish between different server users.

2.5.3. Editing group list

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. To add a user to the group, press **Add user**:

User Accounts [Help ?](#)

Groups:

Marketing

Rename

Add user

Search

User	TrueConf ID	Email	
<div><div>G</div><div>George Jahnsen</div></div>	george	george@company.com	<div><div></div></div>
<div><div>H</div><div>Helen Born</div></div>	helen	helen@company.com	<div><div></div></div>

In the window that opens, select the users you want to add to the selected group. After that they will be marked with a checkmark. Once all users are selected, click **Save**.

Add user

Search

A

Alice Carter

elisa@ub2mm.trueconf.name

D

Danny Grave

danny@ub2mm.trueconf.name

E

Eric Winterman

eric@ub2mm.trueconf.name

Save

Cancel

All selected users will be displayed on the group page:

User Accounts

Groups: Marketing

Rename

Add user

Search

User	TrueConf ID	Email
<div>A</div> <div>Alice Carter</div>	elisa	elisa@company.com
<div>G</div> <div>George Jahnsen</div>	george	george@company.com
<div>H</div> <div>Helen Born</div>	helen	helen@company.com

Click **Rename** to change the group name. Enter the new name and press **Save** (or press **Cancel** if you want to close the window without changing the settings):

Question

Group:

Marketing

Save

Cancel

2.5.3.1. Setting up address book for users of the group

Click **Customize** in the **Address book** column to open edit menu of the common address book for all users of the current group. Group members can add new contacts in the address book if they have corresponding rights. To grant such rights, **Address book editing** box should be checked in the main table.

You can add all users belonging to another group at once to the group's address book (i. e. to the address book of each of its members). To that end, use **Define, which users will be shown in the address book of the users in the group**. Please note that automatic addition of users to the address book and manual addition are applied independently of each other.

Address Book for "Marketing"

Help ?

Define, which users will be shown in the address book of the users in the group

☐ All users
☒ User Groups

Marketing ▼

☐ No One

Apply

Address Book of the Group


Add User:

Enter user ID

Display name

Add

Search

User	TrueConf ID	Email
 Eric Bowl	eric	eric@ub2mm.trueconf.name

Users of a specific group can search for other server users and add them to their address book (if editing address book is allowed).

2.5.3.2. Setting application settings for group users

Click **Customize** in **Application** column to set bandwidth limits for the group users.

Applications settings for "Administrators"

Group: Administrators

Applications settings

Inbound bandwidth limit (kbit/s)	<input type="checkbox"/>	<input type="text"/>
Outbound bandwidth limit (kbit/s)	<input checked="" type="checkbox"/>	2000

Apply

2.5.4. Aliases

Thanks to aliases, you can call TrueConf Server user or any other user who can be called via the server (e.g. SIP, H.323, RTSP or other server users) using a short alias without entering full call string. By adding an alias, you create an extra name for existing user. When calling an alias, your call is redirected to the existing user corresponding to this alias.

This option is very useful for those users who are [making calls to TrueConf Server users from mobile devices](#) using a dialer. You can create digital aliases for server users so that they can be called from mobile devices.

Aliases

<input type="checkbox"/>	Alias	User
<input type="checkbox"/>		
<input type="checkbox"/>		
<input type="checkbox"/>		
<input type="checkbox"/>		
<input type="checkbox"/>		

Create alias:

Alias **1**

User **2**

Add **3**

Delete selected **4**

1. An alias may contain numbers and letters. The maximum number of characters is 32. You can update aliases only after restart you have restarted the server.
2. Call string (including username of the server user). The calls to the alias will be forwarded to this user.
3. Press the button to add a new alias to the list.
4. To delete an alias from the list, check the box on the left and press the button.



After adding or removing aliases, please restart your server to update the list of aliases.

2.5.5. LDAP / Active Directory



Syncing server with LDAP is unavailable in TrueConf Server Free version.

Switching between user data storage modes. TrueConf Server supports two types of data storage: Registry and LDAP. You can switch to any type by pressing **Switch** button:

User Storage [Help ?](#)

Current status: Server is in registry mode.

Registry

☒ Enable

Description: Local data storage is the source of user account information.
In this mode, the server administrator is allowed to create user accounts.
If TrueConf Server is moved to another computer, user accounts can be exported from the settings file.

LDAP

☐ Enable

Description: A third-party LDAP directory service such as Microsoft® Active Directory or 389 Directory is the source of user account information.
User accounts will be organized and processed with the help of LDAP tools. TrueConf Server automatically synchronizes all changes made in the LDAP directory.
You can import user accounts from LDAP to a local data storage when switching to Registry Mode (please note that passwords cannot be imported).

Switch

2.5.6. Registry mode

Registry mode is used by default. In this mode, the server contains information about the users on the local server. You can add or remove users via control panel. If the server has been switched from Registry to LDAP data storage mode, existing user records will not be used anymore.

When switching to LDAP data storage mode, user records stored on the local computer will not be removed, so switching to another data storage mode will not damage saved information.

2.5.7. LDAP mode

In this mode the server operates information about the users from removed or local LDAP directory. In LDAP mode you cannot edit user list and user group settings via control panel. By default, configuration settings for LDAP match Microsoft Active Directory. User information is edited using Active Directory management tools.

In LDAP mode, user rights correspond to the Active Directory group where users belong. To activate this mode, check **LDAP → Enable** and press **Settings LDAP** button at the bottom. LDAP settings window will open:

The screenshot shows the LDAP configuration page with the following elements highlighted by numbered circles:

- 1: Server Type dropdown menu.
- 2: Domain input field.
- 3: Secure connection checkbox.
- 4: Server and Port input fields.
- 5: Auto detect radio button.
- 6: Manual configuration radio button.
- 7: Base DN input field.
- 8: Authentication dropdown menu.
- 9: Name and Password input fields.
- 10: Checkmark for 'Enable NTLM authentication...'.
- 11: Group input field and Browse button.
- 12: ++Advanced button.
- 13: Back button.

1. Server type.
2. In the automatic mode 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.
3. Connection to the LDAP in the safe mode. Only in this case safe transmission of the user information through the network is ensured.
4. LDAP server address and port.
5. Automatic choice of the LDAP server.
6. Manual choice of the LDAP server.
7. Base Distinguished Name is a directory object designed for searching users, e.g. `ou=People,dc=example,dc=com`.
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, e.g. `cn=TC_Users,ou=People,dc=example,dc=com`. To choose an 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.
12. Additional LDAP parameters. Allow to adjust the parameters to other types of LDAP servers.
13. 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**.



User passwords are not imported. After being imported the user accounts are inactive (see User accounts section).

Directory of groups and users registered on TrueConf 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) created groups. This parameter can be edited in the edit user information window. In the LDAP mode this window allows you to define rights for several LDAP groups. User attribute can be defined in the LDAP folder.



On the server the **Users without group** is created by default.



If you have several TrueConf Server instances connected to a common LDAP directory, users can log in to the personal area from a guest page of any of the connected servers. In addition, users can participate in private meetings hosted on a different TrueConf Server instance connected to a common LDAP directory using an auto-generated login.

2.6. Group conferences

This section enables the server administrator to pre-schedule [conferences](#), define lists of participants, and other parameters.

These conferences can be launched automatically (at a specified time or according to a schedule) or by the server administrator at the click of a button.

2.6.1. Conference list

The screenshot displays the 'Conference list' page. At the top left, there is a 'Create' button (1) and a search bar. Below this is a table with columns: Topic, Start time, Owner, Mode, Type, and CID. Two conferences are listed: 'Meeting' and 'Webinar'. To the right of the table, the 'Information' tab is active, showing details for the selected 'Meeting' conference. These details include the Conference ID (2), Owner, Start time, End time, Type and Mode, and Integration (3). Below the details is the 'Conference Manager' section, which contains four buttons: 'Launch' (4), 'Go to conference page' (5), 'Edit' (6), and 'Delete' (7). A 'Help' link is visible in the top right corner.

1. Add group video conference.
2. [Conference ID](#).
3. Click the link to open the dialog containing the html code for [embedding the conference on external websites](#). If you have [set a streaming configuration](#) for it, the corresponding link will be displayed below the widget code.

The 'Integration' dialog box is shown. It has a title bar with a close button. The main content area is titled 'Use this code to embed the conference in external website:'. It contains an HTML code block with an `<iframe>` tag. Below the code block, there is a section titled 'Copy stream URL:' followed by an `rtsp://` URL. An 'Ok' button is located at the bottom right of the dialog.

4. Conference forced start. Before the start you will be offered to invite all the participants to the conference or select particular users. At conference forced start, only online users will be invited to the conference. Email invitations will not be sent out.
5. A link for [conference page](#).
6. Edit selected conference.
7. Remove selected conference.

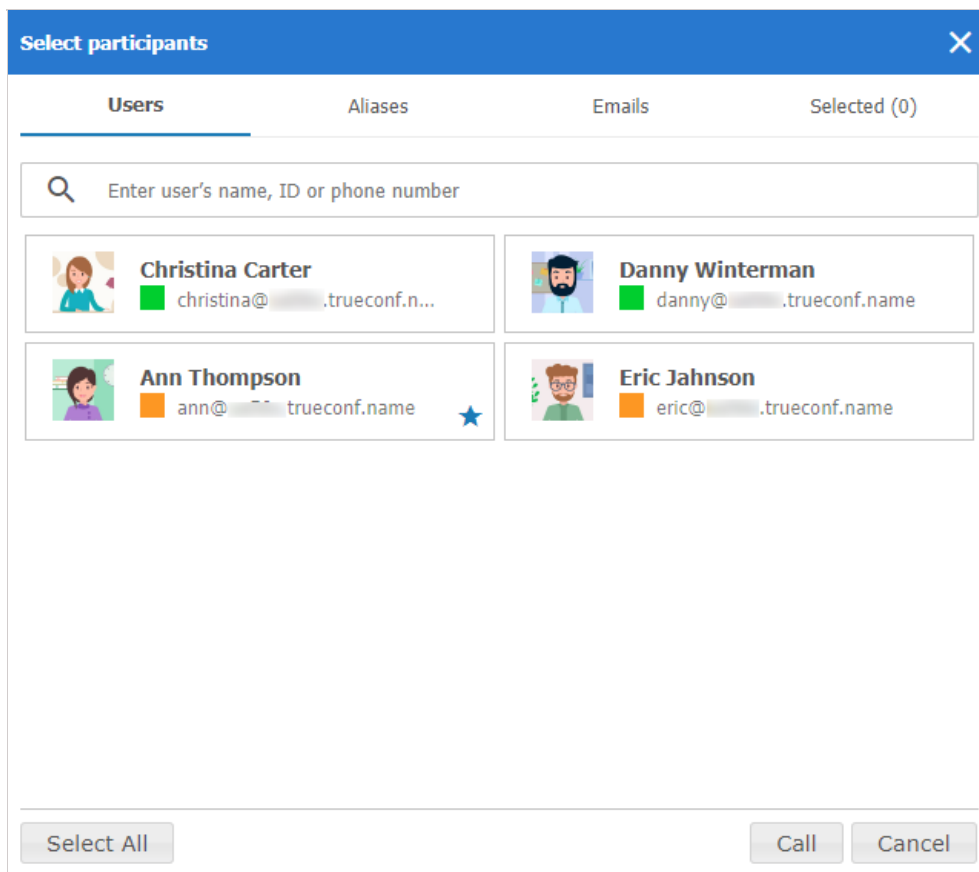
2.6.2. How to configure an ongoing meeting

When selecting an ongoing conference, the administrator can view information about it, end the meeting or add new participants. An ongoing meeting cannot be edited or deleted.

2.6.2.1. "Information" tab

Information		Participants(4/4)
Meeting		
Conference ID	\c\2563768675	
Owner	ann@...trueconf.name	
Type and Mode	Private, Symmetric 49x49	
Integration	Available options	
Hide conference details		
Conference Manager		
Stop		
Add participants		
Go to the conference page		
Edit		
Delete		

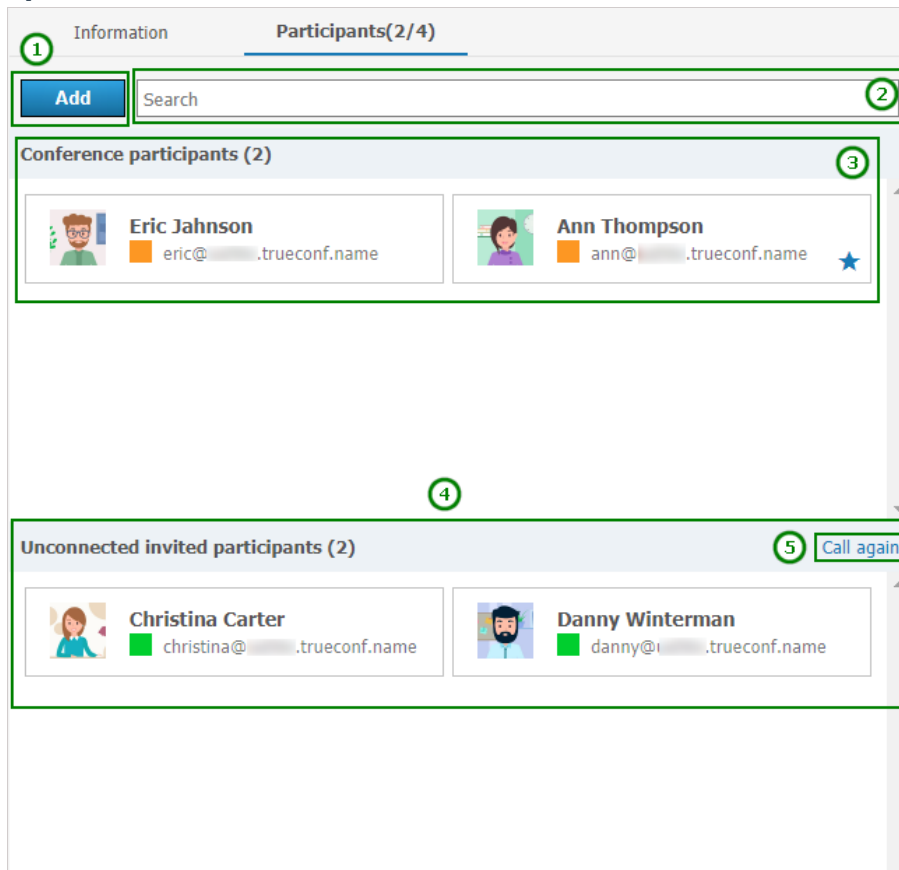
1. General information. Here you can find the [conference ID](#), owner's name, conferencing mode and see all available options for embedding the conference to [third-party sites](#).
2. Stop the meeting for all participants.
3. Click on the **Add participants** to select new users:



To add participants to a conference, select the users in the **Users** tab. You can select all server users at once by clicking on the **Select All** button. In the **Aliases** and **Emails** tabs, you can add a participant by his or her [alias](#) and [send](#) the invitation, specifying the email and the name displayed in the meeting. The resulting list is displayed in the **Selected()** tab. After the list is formed, click the **Call** button at the bottom of the window.

4. [Conference page](#) link.

2.6.2.2. "Participants" tab



1. Adding [new participants](#) to a conference.
2. Quick search for participants.
3. The list of participants who have successfully joined and are present in the current meeting.
4. Users who have been invited to a meeting, but have not joined it yet.
5. To invite all non-connected participants to a meeting, click the **Call again** link. Then, click the **Invite** button in the opened window.

2.6.3. Creating a new conference

Click on the **Create** button in the **Conference List** menu to select a conferencing mode:

Conference [Help ?](#)

New conference Select a template

☒ Private conference
A secured conference that can be joined only by authenticated users from your video conferencing server or federated TrueConf Server instances.

☐ Public conference (webinar)
In this mode, you can hold conferences and webinars accessible to guests or unauthorized users who can join by following a link or a calendar invitation.

CANCEL CONTINUE

You can quickly create a meeting by selecting one of the [previously saved templates](#).

Otherwise, specify the meeting type:

- **Private** meetings are designed for users registered on TrueConf Server, as well as for third-party SIP/H.323 or RTSP endpoints (if such endpoints are assigned with a user ID). Unauthorized users cannot connect to a private meeting.
- **Public** meetings can be [joined by external users \(guests\)](#) who do not have a user account on TrueConf Server. If your license does not allow creating public meetings (**Public Web Conferences** extension), the meeting type selection will be unavailable.

Click **Continue** to proceed to the meeting settings.

2.6.3.1. "General" tab

This tab contains the settings required for creating a meeting:

The screenshot shows the 'Conference' configuration form with the following elements highlighted by numbered callouts:

- 1:** Conference name input field.
- 2:** 'SELECT' button for choosing the conference owner.
- 3:** 'Conference mode' dropdown menu, currently set to 'Symmetric(49x49)'.
- 4:** Radio buttons for 'Without schedule (virtual room)' and 'Scheduled (meeting)'. 'Scheduled (meeting)' is selected.
- 5:** 'Start time' section including 'Enter date and time', 'Duration' (08:00), 'Time zone' (GMT +0:00), and a 'Weekly recurring meeting' section with a day-of-the-week selector.
- 6:** 'Save as a template' checkbox.

At the bottom right are 'CANCEL' and 'CREATE' buttons.

1. Conference Name Field, e.g. "Marketing Department Meeting".
2. Select the [conference owner](#).

* When scheduling a conference, the administrator assigns the conference owner (who automatically becomes moderator) and other moderators. Other [roles](#) will be given by users in a conference.

3. Select a [video conferencing mode](#): symmetric, asymmetric or role-based.

* The maximum number of participants in a [role-based conference](#) depends on your license type. The number of participants can reach **1600** users. The maximum number of [speakers](#) in a role-based conference is **36**.

4. Indicate the conference type: scheduled meeting or a [virtual room](#).
5. Setting time and regular schedule for the scheduled meeting.
6. Save conference settings as a template. In future you will be able to create a conference with such settings in one click.

2.6.3.2. "Participants" tab

This tab shows the number of participants added to the conference depending on the conference mode. Participants can be added to the conference from the user list, by ID or by email (for public conferences).

Add users (3 / 20) [X]

Contacts Selected (3)

Search

Groups ☒

- Alice Carter**
elisa@ub2mm.trueconf.name
- Danny Grave**
danny@ub2mm.trueconf.name
- Eric Winterman**
eric@ub2mm.trueconf.name
- George Jahnsen**
george@ub2mm.trueconf.name
- Helen Born**
helen@ub2mm.trueconf.name

CANCEL **ADD (3)**

Adding by ID

Enter the user ID or call string for an SIP/H.323 or RTSP device in the search field on the **Contacts** tab and click **Select ID** to make it a meeting participant.

Adding email notification recipients

To invite participants via email, create a list of meeting guests:

1. Click on the **Email** tab.
2. Fill in the **Name** and **Email** fields with the participant's personal details.
3. Click **Select** to add the user to the guest list.

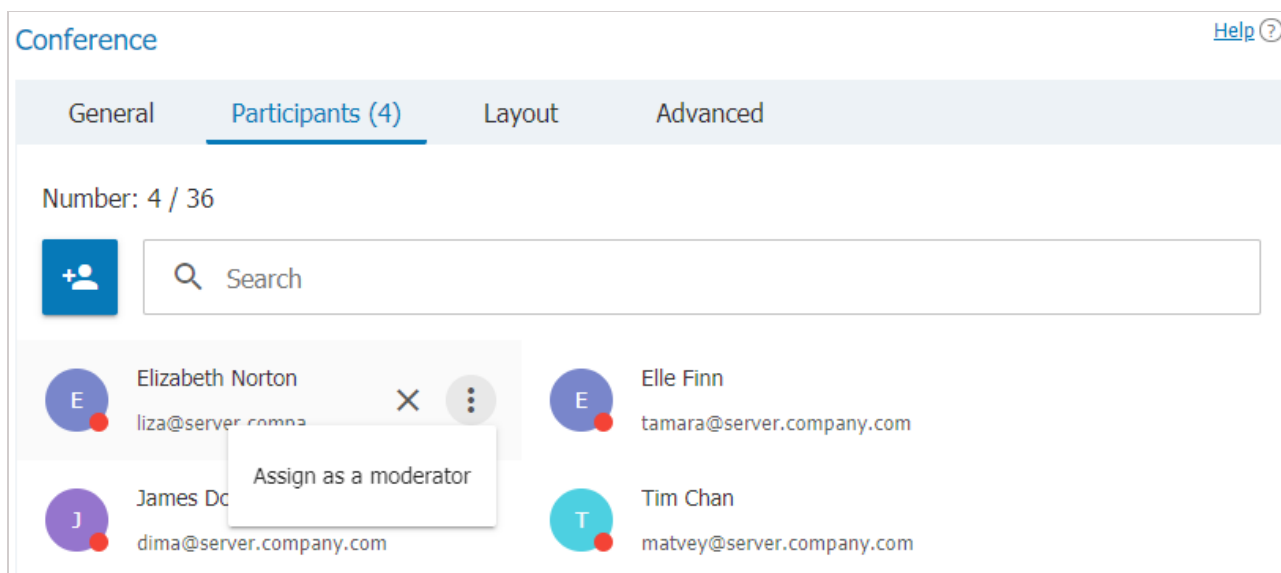


This feature is available only in public conference mode.

After selecting all users, click **Add** to include users to the list of meeting participants.

How to Make a Participant a Moderator

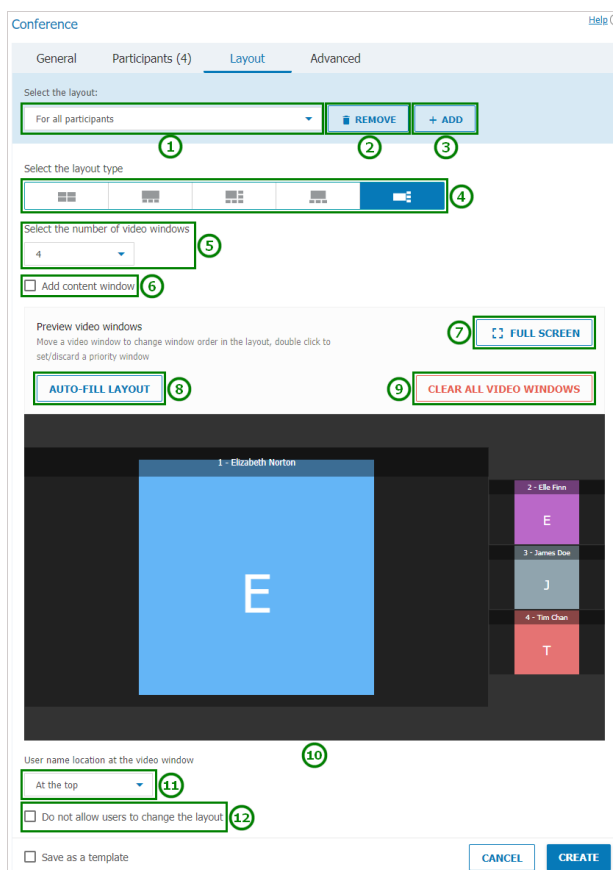
1. Select a user from the list of added conference participants and click three dot button.
2. Press **Assign as a moderator**.



The participant appointed as a moderator is marked with a star icon: .

2.6.3.3. "Layout" tab

On this tab you can set [video layout](#) (combination of participants' [video windows](#)).



1. Select a video layout: general (for all participants) or individual (for a particular participant or [SIP/H.323 device](#)).
2. Remove unnecessary layout.
3. Add a new layout.
4. Specify the largest video window in a layout.

5. Select the number of participants' video windows in a layout.
6. Add an additional video window to a conference layout to broadcast content.
7. Go to the layout preview in full screen mode.
8. Fill a layout automatically for a preview.
9. Clear layout.
10. Edit a conference layout. You can move a video window of a particular participant or make it larger.
11. Username caption on the video window.
12. Forbid conference participants from changing layouts.

2.6.3.4. "Advanced" tab

The screenshot shows the 'Advanced' tab of a conference configuration interface. It contains several sections with settings:

- CONNECTION SETTINGS:** A text field for 'Conference ID' (callout 1) with a note 'Once you have created an ID, you cannot edit it.' Below it is a checked checkbox 'Enable uninvited users to join the conference' (callout 2).
- RECORDING:** An unchecked checkbox 'Enable conference recording' (callout 3).
- STREAMING:** A checked checkbox 'Enable streaming' (callout 4) and a dropdown menu for 'Wowza' (callout 5).
- UDP MULTICAST:** A checked checkbox 'Turn on UDP Multicast' (callout 6) and a text field for 'IP address' containing '224.0.1.224:4000-6000' (callout 7).
- INVITATIONS:** A checked checkbox 'Send email invitations to conference participants' (callout 8).
- DESCRIPTION:** A rich text editor area (callout 9).

At the bottom, there is a 'Save as a template' checkbox, 'CANCEL' and 'CREATE' buttons.

1. Set up conference ID to make it easier for users to join the conference.
2. Allow users to join the conference without invitation (for internal conferences only).
3. Press to configure video conference recording (see [Recordings](#) section).
4. Press to setup streaming.
5. Select the streaming preset (see [Streaming](#)).
6. Turn on [UDP Multicast mode](#). With UDP Multicast you can use network resources more efficiently because conference participant streams are directed bypassing the server. In this mode video and audio streams are transferred inside UDP Multicast domain. These domains can be used in the local network or VPN. Please check your license to see if this mode is available for you.



If UDP Multicast mode is enabled while you are trying to connect to the conference using third-party protocols (WebRTC, RTSP, SIP, H.323, etc), video conference recording and streaming will be unavailable.

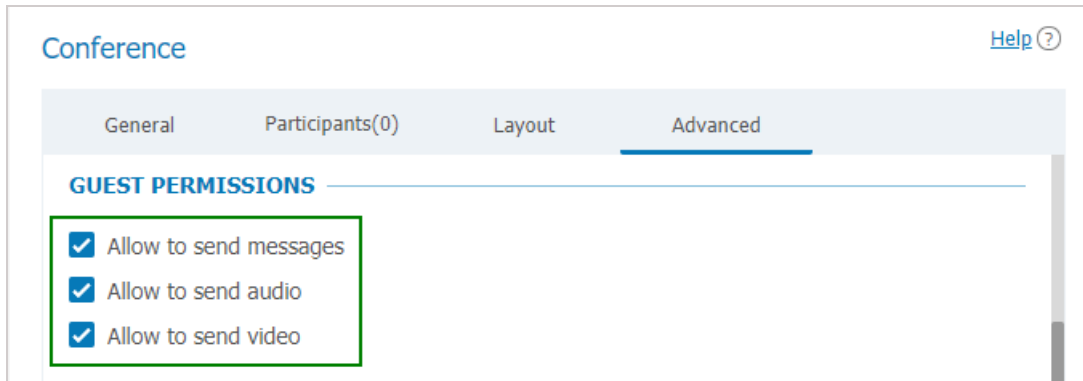
Enabling this function is recommended only for those users who have hands-on experience in the sphere of network administration. Please note that it is your responsibility to check if this technology is available in your network.

7. The field to indicate Multicast/Broadcast IP address. By default it is **224.0.1.224:4000-6000**.
8. Enable email invitations for conference participants. This option is available only for scheduled conferences providing the [SMTP server integration](#) is set up.

i When editing a previously created conference, this option is disabled regardless of the conference settings configured earlier. This is specifically designed to prevent the invitations from being mistakenly resent when editing an event. If you need to reactivate conference invitations (e.g., when adding participants), please manually activate the **Send email invitations to conference participants** checkbox.

9. Adding guide text to the scheduled event (e.g. presentation description or event program). This text will be displayed on the conference page.

If you check the **Public conference (webinar)** box when creating the conference, this tab will also contain permission settings for guest users:

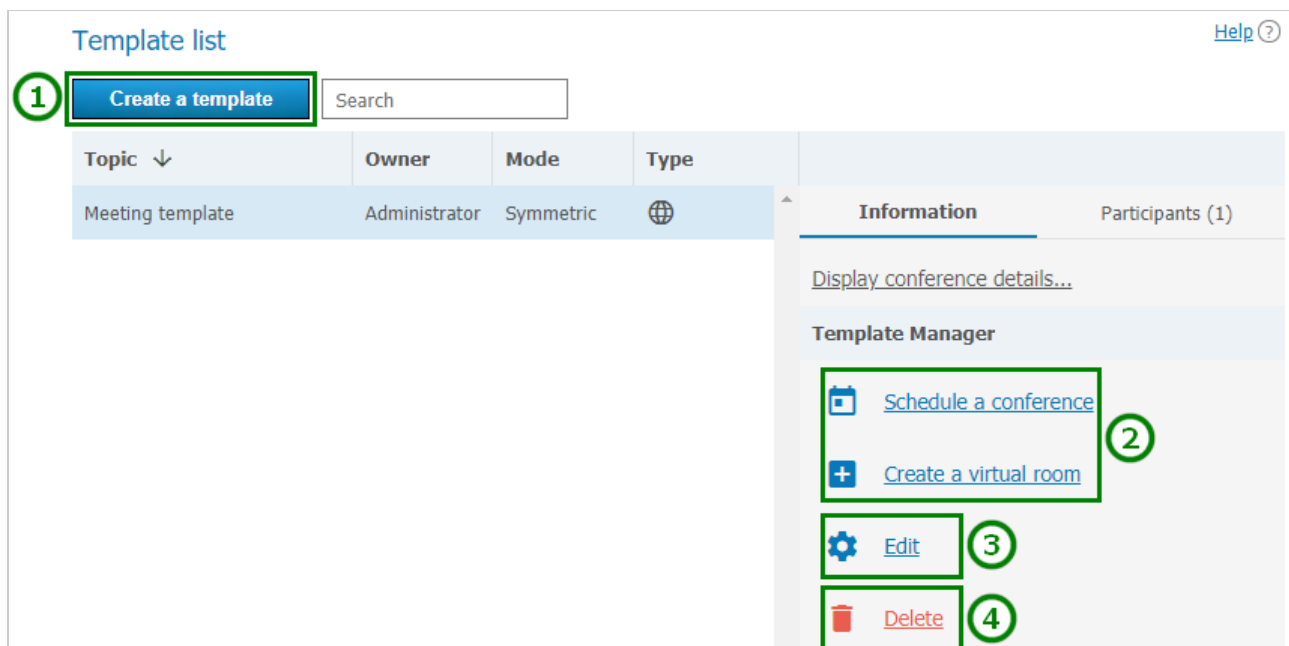


i WebRTC conferences are available for Chrome, Opera, Mozilla Firefox, Edge and Safari users. The license regulates guest connections for WebRTC conferences.

2.6.4. Templates

This section allows server administrator to create new conference templates and edit saved ones. Templates can also be saved while [editing conference](#). Conference template includes information about conference mode, participant list, conference owner, as well as additional parameters.

Creating and editing templates is very similar to [creating and editing conferences](#).



1. Create a new conference template.
2. Use a saved template to create a conference with typical parameters.
3. Edit saved conference template.
4. Delete unnecessary template.

2.6.5. Streaming

In this section, you can create and set streaming configurations used [for setting up a conference](#).

Streaming Help ?


Configurations

YouTube

Add configuration

To create a new configuration, click **Add configuration** button.

Streaming ×




CDNvideo Cloud Streaming


The service for content delivery and streaming management. We will automatically create an account and set up everything for you. Please note that streaming service is provided according to the terms of use and plans of CDNvideo service.

Automatic Setup

[Or sign in if you already have an account](#)



Streaming via third party services and products



We have prepared several templates to manage streaming through other popular solutions. Please select the option you need and follow the instructions.

Add preset

Manual Configuration

If you are not afraid of RTSP Push or RTSP Pull abbreviations, then follow this way. The whole streaming configuration process is in your hands.

Configure

2.6.5.1. Streaming through CDNvideo cloud service

Click on **Automatic Setup** to create a new account at CDN video service. To continue please make sure that a PC with installed TrueConf Server on it is connected to the Internet:

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65

Server status: **running, registered**

ub0km.trueconf.name#vcs

System

Owner: [Select](#)

Create a new configuration

Streaming server:

1 **CDNvideo** [Or sign in if you already have an account](#) 2

3 This email is used to create CDNvideo service account.

4 ☒ By clicking on the "Create" button, you agree to [Pricing and Terms of Service](#)

5 [Back](#) [Create](#) 6 [Cancel](#) [Save](#)

1. Selected template for current streaming configuration.
2. If you already have a CDNvideo account, click on this link to enter your username and password.
3. Email address that will be used to create a new CDNvideo account. TrueConf Server administrator email is used by default.
4. By creating a CDNvideo account you agree with CDNvideo terms of use.
5. Return to streaming configurations list.
6. Save current streaming configuration.

How to connect to CDNvideo streaming

Conference streaming is available on any Intranet or Internet HTML page with CDNvideo video player widget embedded on it. The streaming will start automatically when participants join the conference or, in case it is a role-based conference, when the first participant takes the podium. Widget code is unique and is setup to stream only current conference.

Conference List

Create

Topic ↓	Start t...	Owner	Mode	Type	CID
Meeting					

Integration

HTML player code

```
<iframe src="https://trueconf-api.cdnvideo.ru/v1/player/?stream_uid=8BqgFaFb6y&html5=True" width="480" height="320" frameborder="0"> </iframe>
```

Copy stream URL:

rtsp://10.120.1.1/c/6074252055/

Ok

Information

Participants (0/1)

Meeting

Conference ID: \c\6074252055

Owner: [Alice Carter](#)

Type and Mode: Private, Symmetric 20x20

Integration: [Available options](#)

[Hide conference details](#)

Conference Manager

[Launch](#)

[Go to conference page](#)

Total: 1

* How do I get the code for CDNVideo video player?

1. Go to the conference list page.
2. Select a conference pre-configured for streaming.
3. Click the link **Display conference details** in the side menu of the page.
4. Follow the link next to **Integration**.
5. Copy the code of the video player widget.

2.6.5.2. Streaming via third-party services and products

This section includes ready-to-use templates for popular streaming services and products, designed to work in corporate networks and via the Internet. Press **Add configuration** to choose a template to start with:

The screenshot shows a window titled "Streaming" with a close button (X). It contains three sections:

- CDNvideo Cloud Streaming**: Includes the CDNvideo logo, a description of the service, and an "Automatic Setup" button. A link below the button says "Or sign in if you already have an account".
- Streaming via third party services and products**: Includes logos for WOWZA and YouTube, a description, and an "Add preset" button. A red arrow points from the text "Please select the option you need" to the "Add preset" button.
- Manual Configuration**: Includes a description and a "Configure" button.

2.6.5.3. Wowza Streaming Engine

The screenshot shows a window titled "Create a new configuration" with a close button (X). It contains a dropdown menu set to "Wowza Streaming Engine" and a note: "In Wowza web manager Stream Name will match conference ID". Below this are four numbered input fields:

1. Template Name: (text input field)
2. Host Server: (text input field)
3. Host Port: (text input field)
4. Application: (text input field)

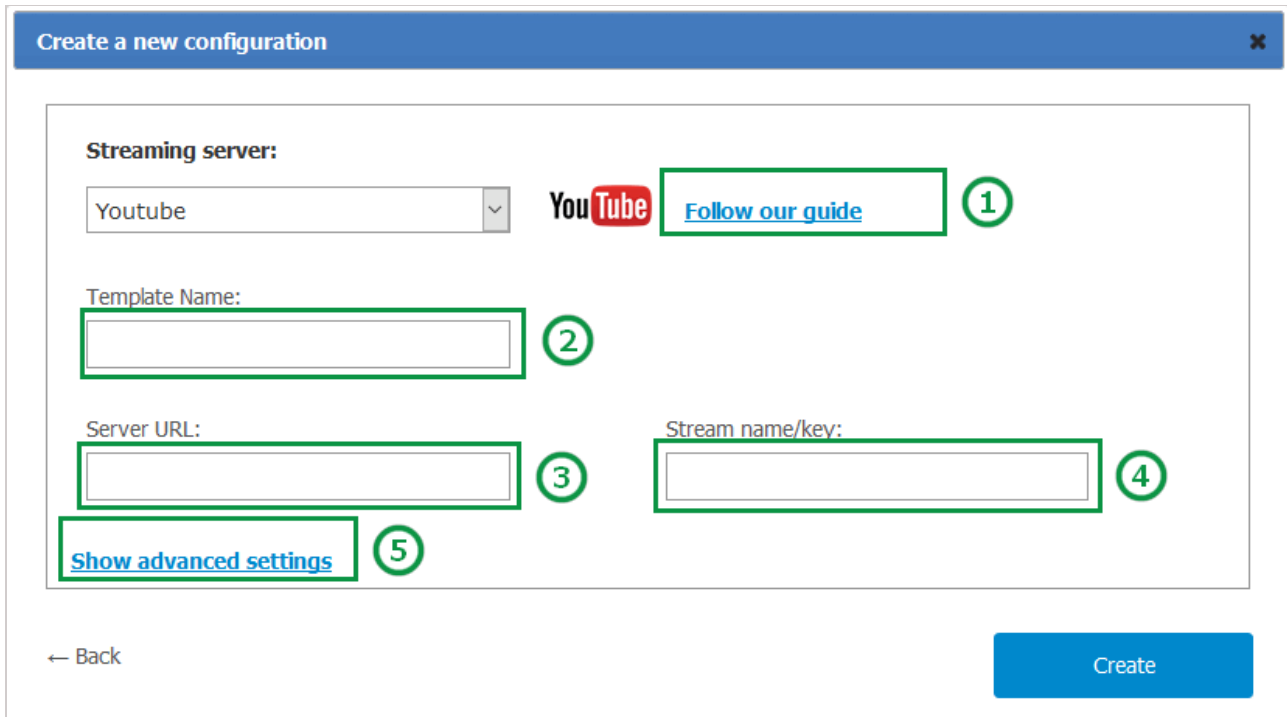
1. Configuration name displayed in streaming configuration list on the conference edit page.
2. Address of the Wowza Streaming Engine.
3. Wowza Streaming Engine accepts connections on this port (e.g. 1935 or 1940).
4. You can find necessary information in Wowza Streaming Engine user's guide.
5. Check **Authentication** to enter username and password to access Wowza Streaming Engine if required.
6. This section includes additional settings for current streaming configuration (see [Advanced streaming settings](#) in present user's guide).

2.6.5.4. Wowza Streaming Cloud

1. Link to the instruction on how to setup streaming through Wowza Streaming Cloud in our blog.
2. Configuration name displayed in streaming configuration list on the conference edit page.
3. Wowza Streaming Cloud accepts connections on this port (e.g. 1935 or 1940).
4. This section includes additional settings for current streaming configuration (see [Advanced streaming settings](#) in present user's guide).

A more detailed instruction on [how to stream the conferences via Wowza Streaming Cloud](#) is available in our blog post.

2.6.5.5. YouTube



1. Link to the instruction on [how to setup streaming via YouTube](#).
2. Configuration name displayed in streaming configuration list on the conference edit page.
3. Server URL from the webpage where YouTube stream is created.
4. Stream name/key from the webpage where YouTube stream is created.
5. This section includes additional settings for current streaming configuration (see [Advanced streaming settings](#) in present user's guide).

2.6.5.6. Manual settings

This section allows you to manually setup streaming for the majority of existing streaming services and products, including those listed above. TrueConf Server supports two ways of content transmission: RTSP Publish (aka RTSP Push) and RTSP Pull. When using RTSP Publish, your server notifies streaming platform about content available to be picked up. When using RTSP Pull, the platform itself collects the content from your server.

RTSP Publish manual settings

The screenshot shows a 'Create a new configuration' dialog box. At the top, there's a blue header with the title and a close button. Below it, the 'Streaming server:' dropdown is set to 'Manual setting - Publish'. There are four numbered callouts: 1 points to the 'Template Name:' text input field; 2 points to the 'URL Publish:' text input field; 3 points to the 'Authentication' checkbox, which is currently unchecked; and 4 points to the 'Show advanced settings' link. At the bottom left is a '← Back' button, and at the bottom right is a blue 'Create' button.

1. Configuration name displayed in streaming configuration list on the conference edit page.
2. The address which will be used to notify about available stream via RTSP ANNOUNCE protocol.
3. Check **Authentication** to enter username and password and gain access to the service.
4. This section includes [additional settings](#) for the current streaming configuration.

RTSP Pull manual settings

This screenshot shows the 'Create a new configuration' dialog for RTSP Pull settings. The 'Streaming server:' dropdown is set to 'Manual setting - Pull'. To the right of this dropdown, a note states: 'RTSP Pull streaming should be configured manually for every conference. You can set advanced settings here.' There are two numbered callouts: 1 points to the 'Template Name:' text input field, and 2 points to the 'Show advanced settings' link. The bottom of the dialog features a '← Back' button on the left and a blue 'Create' button on the right.

1. Configuration name displayed in streaming configuration list on the conference edit page.
2. This section includes [additional settings](#) for the current streaming configuration.

Additional streaming configuration settings

1. You can change video codec used for the stream encryption.
2. You can change audio codecs used for the stream encryption.
3. Check if you need to send outbound RTP streams via TCP protocol. UDP is used by default.
4. Response waiting time (in seconds) for the information about published conference stream being successfully received by streaming platform.
5. In case connection with streaming platform is terminated, TrueConf Server will attempt to publish the stream again. This parameter sets the number of such attempts.
6. Delay (in seconds) between stream publication attempts.
7. Return to the conference editing.
8. Save the settings.

2.7. API

2.7.1. OAuth2

This section is used to manage applications or services which utilize TrueConf Server API. Permissions are controlled based on OAuth 2.0. protocol. You can learn more information about OAuth 2.0. protocol in [RFC 6749 official documentation](#) or in the note below.



OAuth 2.0 is used to authorize certain applications (clients) to access protected resources with limited scopes and rights. With this approach, you can block a particular application or a user from the server resources at any given period of time. The protocol also allows you to authorize third-party applications and do actions on the server on behalf of the user via API. In this case, the user does not need to give their username or password to any third-party application (Authorization Code method).

After authorization on TrueConf Server using OAuth 2.0 protocol, every third-party application obtains an access token. Those applications with a valid access token can access TrueConf Server API. The list of API commands can be found in [\[TrueConf Server API documentation\]](#). TrueConf Server administrator can manage third-party application permissions and access tokens obtained via this section.



Learn more about [TrueConf API use cases](#) in our blog.

After successful authorization, the application receives *access token* with a limited lifespan and scope (server wide or limited to a specific user). For example, server wide scope gives information about any conference on the server, while user's scope provides the information only about those conferences where the user is the conference owner or a listed participant. The scope is defined by the authorization type selected by a third-party application developer, while permissions set (rights) are determined by TrueConf Server administrator for every application.

OAuth 2.0 authorization method	Access token scope	Authorization result
Client Credentials The client gets access token, the scope of which is server wide. User authorization is not performed. This method is recommended for trusted applications only.	Server wide	<i>Access token</i> valid for 24 hours is issued.
User Credentials (a.k.a. <i>Resource Owner Password Credentials Grant</i>) To obtain access token, it is required to provide username and password received on the application side.	User's scope	Access token valid for 24 hours and (<i>refresh token</i>) valid for 14 days are issued.
Authorization Code <i>Access token</i> is issued after user has successfully authorized on TrueConf Server special web page. The application cannot access username and password of the user.	User's scope	Access token valid for 24 hours and refresh token valid for 14 days are issued.
Refresh Token This method is used to obtain a new <i>access token</i> based on your existing <i>refresh token</i> .	Equal to scope of the user who has received refresh token initially	Access token valid for 24 hours is issued. This method cannot be used to obtain new refresh token.

When requesting an access token, it is required to indicate Application ID and Secret. These parameters can be obtained and updated by creating or editing the application in this section. Application ID is created automatically and cannot be changed later. By contrast, application secret can be further regenerated.

2.7.1.1. Permissions

API capabilities of a third-party application depend on the permissions it obtained.

Permission	Description
conferences:read	Reading conference details
conferences:write	Creating, editing, and deleting a conference
conferences.records:read	Reading conference recording details
conferences.records:write	Deleting conference recordings
conferences.participants:read	Reading the list of conference participants

conferences.participants:write	Creating, editing, and deleting conference participants
conferences.invitations	Reading and editing the list of participants invited to the conference
conferences.sessions:read	Reading active video conferencing session details
conferences.sessions.participants:read	Reading the list of active conference participants and their roles
groups:read	Reading user group information
groups:write	Creating, editing, and deleting user groups. Unavailable in LDAP mode
groups.users:read	Reading the group user list
groups.users:write	Creating, editing, and deleting group users. Unavailable in LDAP mode
users:read	Reading server user information
users:write	Creating, editing, and deleting server users. Unavailable in LDAP mode
users.addressbook:read	Reading contacts from user address books
users.addressbook:write	Creating, editing, and deleting contacts in the user address book
users.avatar:read	Reading user avatars details
users.avatar:write	Adding and deleting user avatars
templates.conferences:read	Reading conference template details
templates.conferences:write	Creating, editing, and deleting conference templates
directory.servers:read	Reading TC Directory servers
logs.calls:read	Reading the conference list from server logs
logs.calls.participants:read	Reading the list of conference participants from server logs
logs.calls.invites:read	Reading the list of invited users from server logs

Each method is assigned with a set of permissions required for successful method call. All sets of permissions are specified in [TrueConf Server API](#) documentation.

*

If an OAuth application requires both read and write access to a certain parameter, then you can specify a general permission `<permission>` instead of specifying `<permission>:read` and `<permission>:write` permissions, if it is available. For example, you don't need to click both `users:read` and `users:write` checkboxes to allow an application to read and edit TrueConf Server user accounts. Instead, you can select only the `users` checkbox.

2.7.1.2. Creating new OAuth 2.0 application

To add an OAuth 2.0 application:

1. Click the **Create a new application** button.
2. Enter its identifier in the **Name** field. It is only displayed in the application list.

- To authorize using the **Authorization Code** method, specify the URL to redirect the application to in the **Redirect URL** field. For other authorization methods please indicate the following address `https://localhost/`.
- Check the **rights** required for your application in the **Permissions** list.
- Save your changes by clicking the **Create** button.

2.7.1.3. Editing application

On the application page you can not only edit its properties but also view access token list obtained by the application's users. You can remove user access tokens at any time to block particular user from accessing API data.

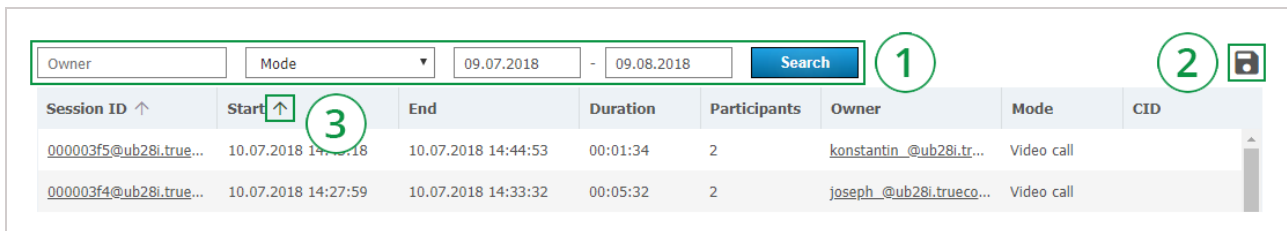
You can also **Regenerate** the application secret to block the application and its new users from accessing the server for security purposes. Please note that access tokens and refresh tokens obtained using previous application secret will still be valid within their lifespan.

2.8. Reports

This section stores all information about user connections, calls, messages, and video conference recordings. Data can be filtered according to various parameters and downloaded in **CSV** format. In the tables, time is displayed according to the time zone selected in the **preferences menu**.

On the right of some of the tables there's a dashboard containing detailed information about an event reflected in a corresponding table. Dashboard content changes when you select a table row.

These tables have common functions:



The screenshot shows a web interface for viewing reports. At the top, there are filters for 'Owner' (a text input), 'Mode' (a dropdown menu), and a date range from '09.07.2018' to '09.08.2018'. A blue 'Search' button is next to the date range. To the right of the search button is a green circle with the number '1'. Further right is a green circle with the number '2' next to a download icon (a square with a document symbol). Below the filters is a table with the following columns: 'Session ID ↑', 'Start ↑', 'End', 'Duration', 'Participants', 'Owner', 'Mode', and 'CID'. The 'Start' column has a green circle with the number '3' next to its sort arrow. The table contains two rows of data. The first row shows a session ID '000003f5@ub28i.true...', start time '10.07.2018 14:44:53', end time '10.07.2018 14:44:53', duration '00:01:34', 2 participants, owner 'konstantin_@ub28i.tr...', mode 'Video call', and CID. The second row shows a session ID '000003f4@ub28i.true...', start time '10.07.2018 14:27:59', end time '10.07.2018 14:33:32', duration '00:05:32', 2 participants, owner 'joseph_@ub28i.trueco...', mode 'Video call', and CID.

Session ID ↑	Start ↑	End	Duration	Participants	Owner	Mode	CID
000003f5@ub28i.true...	10.07.2018 14:44:53	10.07.2018 14:44:53	00:01:34	2	konstantin_@ub28i.tr...	Video call	
000003f4@ub28i.true...	10.07.2018 14:27:59	10.07.2018 14:33:32	00:05:32	2	joseph_@ub28i.trueco...	Video call	

- Filter entries.
- Save tables in CSV format.
- Sort entries by field values (click on any column name to change sorting order).

2.8.1. Events

The events section contains all changes of user states that are recorded sequentially: login, logout, etc. Click on an event in a table to check detailed information, e.g. client applications or IP address used to log in or user status changes.

Events Help ?

Source Object name 17.11.2019 - 17.12.2019

Date and time ↑	Source	Object name	Event	Description
16.12.2019 12:52:53	user	liza@ruwu1.trueconf.n...	status	Host: Login: liza appId: 3D220C2FC094902AEF30C51DC5525405 Result: 0 Rights: 000100110011111011111111111110001 AppName: TrueConf WebClient DisplayName: Elizabeth Kareva
16.12.2019 12:52:53	user	liza@ruwu1.trueconf.n...	login	
16.12.2019 12:52:53	user	liza@ruwu1.trueconf.n...	status	
16.12.2019 12:21:55	user	#guest:d138e2a8@ru...	logout	
16.12.2019 12:21:49	user	#guest:d138e2a8@ru...	status	
16.12.2019 12:21:47	user	#guest:d138e2a8@ru...	status	
16.12.2019 12:21:47	user	#guest:d138e2a8@ru...	status	
16.12.2019 12:21:47	user	#guest:d138e2a8@ru...	login	
16.12.2019 12:21:40	user	#guest:602ad02d@ru...	logout	
16.12.2019 12:21:39	user	tamara@ruwu1.trueco...	status	
16.12.2019 12:21:39	user	#guest:602ad02d@ru...	status	

Total: 1380

- General table interface (see the description above).
- Link to an active [user profile](#).
- Event details. Contains detailed information required for the [technical support department](#) to solve possible issues you may face. The most common event details:
 - Host:** the IP address of the connected user
 - Login:** TrueConf ID of the user
 - appId:** a unique application identifier
 - Rights:** a binary sequence for user's rights encryption
 - AppName:** the name of the application that was used to log in to TrueConf Server
 - DisplayName:** displayed username
 - result_description:** a detailed description of the event
 - result:** a numeric code that displays the result of the event. **0** if the action has been successfully completed, otherwise, the extended description can be specified in the **result_description:** field
 - user_agent:** the part of the HTTP request that includes information about the web application and the OS of the device which is being used to connect to the server.

2.8.2. Call history

This section contains history of video calls and conferences hold on the server, as well as available information about the meetings.

2.8.2.1. Call list

You can find call information in the table on the main page of the section. Along with call history, call list contains information about current conferences. **End** field remains blank for current conferences.

Call History

Owner: Mode: 09.07.2018 - 09.08.2018

Session ID	Start ↑	End	Duration	Participants	Owner	Mode	CID
000004cd@ub28i.true...	09.08.2018 12:25:18	09.08.2018 12:25:22	00:00:03	2	joseph_@ub28i.trueco...	Video call	
000003f5@ub28i.true...	10.07.2018 14:43:18	10.07.2018 14:44:53	00:01:34	2	konstantin_@ub28i.tr...	Video call	
000003f4@ub28i.true...	10.07.2018 14:27:59	10.07.2018 14:33:32	00:05:32	2	joseph_@ub28i.trueco...	Video call	
000003f3@ub28i.true...	10.07.2018 09:17:27	10.07.2018 09:21:13	00:03:46	2	joseph_@ub28i.trueco...	Video call	
000003f2@ub28i.true...	10.07.2018 09:05:48	10.07.2018 09:07:52	00:02:04	2	joseph_@ub28i.trueco...	Video call	
000003f1@ub28i.true...	10.07.2018 09:05:08	10.07.2018 09:05:47	00:00:38	2	joseph_@ub28i.trueco...	Video call	
000003f0@ub28i.true...	10.07.2018 09:02:58	10.07.2018 09:04:00	00:01:01	2	konstantin_@ub28i.tr...	Video call	
000003ef@ub28i.true...	10.07.2018 09:02:01	10.07.2018 09:02:54	00:00:53	2	joseph_@ub28i.trueco...	Video call	
000003ee@ub28i.true...	10.07.2018 09:01:03	10.07.2018 09:01:59	00:00:56	2	joseph_@ub28i.trueco...	Video call	

Total: 35

1. General table interface (see the description above).
2. Link to the page with detailed information about a call or conference.
3. Link to a profile of the conference or call owner.

2.8.2.2. Call or conference information

When you click on a call or conference ID in the general table, you proceed to the menu that displays information about the selected call. This information includes:

- time and information about the conference owner
- list of the participants who attended the conference anytime
- history of conference invitations and reactions.

Conference Session:

Topic:

Start	End	Duration	Participants	Owner	Mode	CID
09.08.2018 12:47:26	09.08.2018 12:50:28	00:03:02	5	joseph_@ub28i.t...	Symmetric (TCP)	

Participant List

User:

User	Joined ↑	Left	Duration	Bitrate in / ...	CPU Load	FPS	Dimensions	Endpoint
Steven Jones	09.08.2018 12:48:59	09.08.2018 12:50:28	00:01:29	0 / 0		0		6E2F6130FD...
Michael Johnson	09.08.2018 12:47:47	09.08.2018 12:50:28	00:02:41	0 / 0		0		6E2F6130FD...
Elizabeth Thomas	09.08.2018 12:47:28	09.08.2018 12:50:28	00:03:00	0 / 0		0		6E2F6130FD...
Karen Taylor	09.08.2018 12:47:28	09.08.2018 12:48:40	00:01:12	0 / 0		0		6E2F6130FD...
Joseph Smith	09.08.2018 12:47:26	09.08.2018 12:50:28	00:03:02	68 / 7	0	10.56886837...	1280x720	9647D366AA...

Total: 5

Invite List

User: Recipient:

Date and Time ↑	User ↑	Recipient	Accepted
09.08.2018 12:48:59	joseph_@ub28i.trueconf.name	steven_@ub28i.trueconf.name	✓
09.08.2018 12:47:47	joseph_@ub28i.trueconf.name	michael_@ub28i.trueconf.name	✓
09.08.2018 12:47:28	joseph_@ub28i.trueconf.name	elizabeth_@ub28i.trueconf.name	✓
09.08.2018 12:47:28	joseph_@ub28i.trueconf.name	karen_@ub28i.trueconf.name	✓

Total: 4

1. General table interface ([see the description above](#)).
2. Conference [chat history](#) button.
3. Link to [user profiles](#) of conference participants and invited users.
4. Link to the pages with each conference participant [connection details](#).

2.8.2.3. Connection properties

For each participant you may get the information about all the conference connection details — from the client application version to an operating system and CPU.

Endpoint properties (6E2F6130FD605E64C15DF10CDF7C4D1E)

Logged User:
carol_

sys_conf:
Microsoft Windows 8 , 64-bit (build 9200)

Processor:
Proc: Type 586 Level 6; Intel(R) Core(TM) i3-4000M CPU @ 2.40GHz; 2 (cores) / 4 (threads)

Direct X:
Version: 12.0 Driver: igdumd32.dll Intel(R) HD Graphics 4600 Resolution: 1366x768, 32 bit Video Memory: total - 2160 MB, free - 2156 MB Capabilities: | Bu | Bd | Ou | Od | BFcc|OFcc|YUY2|UYVY| HB | | 1 | 1 | 0 | 0 | 1 | 0 | 1 | 1 | 1 | 1 | DX INIT OK

app_name:
VideoBot

version:
1.5.0

prot_version:
46

type:
0

Hardware Config:
Audio Render : Audio Capture: Video Capture:

2.8.3. Chat messages


Chat Messages section features all messages sent by server users to each other and during video conferences. Please note that one table contains time sorted messages from all users at once (you can change sorting features in the table header.) To view messages in personal or common chat, you can filter by **Sender**, **Recipient**, **Conference ID**, and message date.

Chat Messages

1

Sender Recipient Message Conference ID

09.07.2018 - 09.08.2018 **Search**



Date and t... ↑	Sender	Recipient	Message	Details
09.08.2018 14:2...	Steven Jones	000004cf@ub28i...	I do not understand this well.	
09.08.2018 14:1...	Joseph Smith	karen_@ub28i.tr...	Yes, they certainly will.	
09.08.2018 14:1...	Richard Brown	000004cf@ub28i...	I want to speak.	
09.08.2018 14:1...	Karen Taylor	joseph_@ub28i.t...	good outcome. Are they goin...	
09.08.2018 14:1...	Joseph Smith	karen_@ub28i.tr...	We changed the delivery and suggest...	
09.08.2018 14:1...	Karen Taylor	joseph_@ub28i.t...	So how did you solve the problem?	

2

3

Date and Time: 09.08.2018 14:19:39
Sender: Joseph Smith [joseph_@ub28i.trueconf.name]
Recipient: karen_@ub28i.trueconf.name
Message: Yes, they certainly will.

Total: 6

1. General table interface (see the description above).
2. Links to [user profiles](#) of the sender and recipient of a private message.
3. Link to a [page with detailed information](#) about the conference to the common chat of which a message was sent.

2.8.4. Configuration changes

This section displays the history of server settings changes. Each table entry corresponds to a particular change. When you click on an entry, a panel on the right displays server settings before and after the changes have been made.

Configuration Changes

1

Date and time ↑	Action	Object type	Username	Changes in	Details
29.06.2018 08:22:04	edit	recordings_c...	anonymous	path, call_recording, c...	<p>Date and Time: 29.06.2018 08:22:04</p> <p>Action: edit</p> <p>Object Type: recordings_config</p> <p>Username: anonymous</p> <p>Changes:</p> <p>path: C:\TrueConf\Recordings -> C:\TrueConf\Recordings</p> <p>call_recording: 1 -> 1</p> <p>conference_recording: 1 -> 1</p> <p>webrtc_video_quality: 2 -> 2</p> <p>conf_record_file_size: 1 -> 1</p> <p>recordings_ex... null -> null</p>
29.06.2018 08:22:03	edit	recordings_c...	anonymous	path, call_recording, c...	
29.05.2018 13:03:00	edit	https_config	anonymous		
29.05.2018 11:26:56	edit	https_config	anonymous		
04.05.2018 08:22:45	edit	recordings_c...	anonymous	path, call_recording, c...	
04.05.2018 07:46:55	edit	recordings_c...	anonymous	path, call_recording, c...	
04.05.2018 07:46:52	edit	recordings_c...	anonymous	path, call_recording, c...	
04.05.2018 07:46:52	edit	recordings_c...	anonymous	path, call_recording, c...	
04.05.2018 07:46:50	edit	recordings_c...	anonymous	path, call_recording, c...	

Total: 49

2

3

4

1. General table interface (see the description above).
2. Name of the modified parameter.
3. Previous parameter value (before making changes).
4. New parameter value (after making changes).

2.8.5. Conference recordings

This section contains a list of recorded conferences. Here you can playback, download or delete their records.

Conference Recordings

1

Help ?

Filename	Session ID ↑	Start	End	Duration	CID	Size, MB	
00000008_2020-10-...	00000008@ru17z.tr...	20.10.2020 12:2...	20.10.2020 12:2...	00:01:37	\c\4786678755	12.3	4
00000006_2020-10-...	00000006@ru17z.tr...	20.10.2020 12:2...	20.10.2020 12:2...	00:02:05	\c\6209030830	15.5	5
00000004_2020-10-...	00000004@ru17z.tr...	19.10.2020 12:2...	19.10.2020 12:2...	00:00:32	\c\5502713731	4.2	6

Total: 3

2

3


4

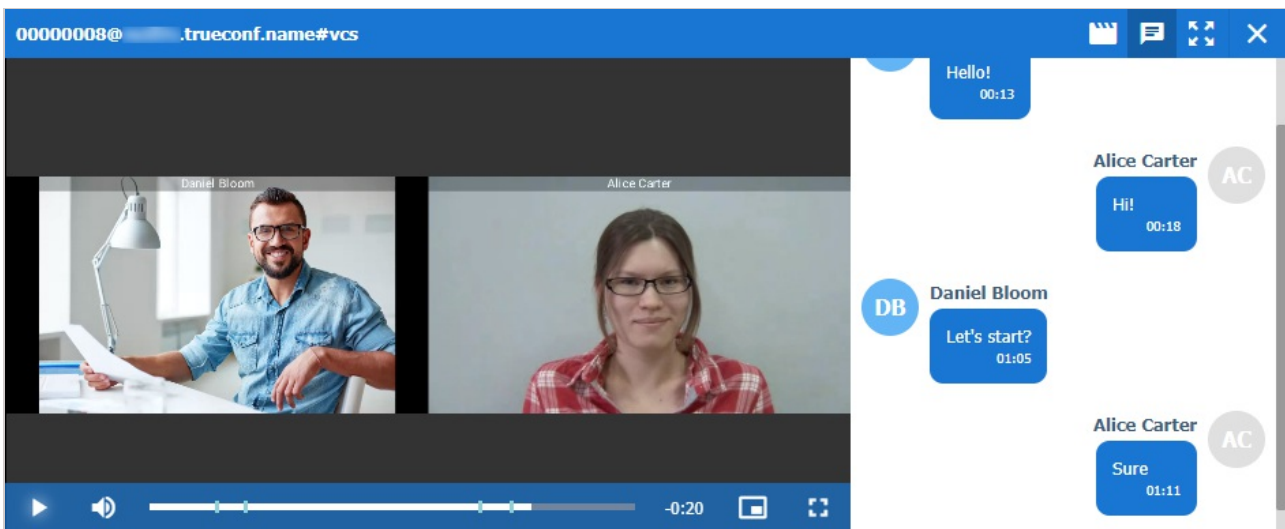
5

6

1. General table interface (see the description above).

2. Name of the saved file
3. Link to the [page with detailed information](#) about a call/conference
4. Playback button
5. Recording download button
6. Delete button.

You can use the  button to playback recorded meetings (available only for .MP4 video format) and view chat messages of this meeting at the same time.



2.8.6. Endpoints

This section provides information about user endpoints. This information can be useful for **real time** technical support.

Endpoints Help ?			
Show <input type="text" value="10"/> entries 1	2 Search: <input type="text"/>		
Endpoint	Logged User	Application	IP
86498476AFE74562540DC5C683A3EDE9		TrueConf WebClient	127.0.0.1
886BDB25D445AF66D39A4ECC725318B8		TrueConf WebClient	127.0.0.1
89338B5F176519370F2BB7607349FD3E		TrueConf WebClient	127.0.0.1
3 89D375AFEE14654F675B7C1552F940BA	4 tamara	5 TrueConf Windows 7.4.0.503	6 10.120.1.141
8AAAD959A27AC30FB4E3C4916201DBC2		TrueConf WebClient	127.0.0.1
8B012081AE17858C9F7153D0D02FF8A8		TrueConf WebClient	127.0.0.1
8B7045611F113CEB688713B8B2220FD9		TrueConf WebClient	127.0.0.1
8C8DE58ACA09309D6C126844387AC61C		TrueConf WebClient	127.0.0.1
8DA7160A96918A141CFEC79F0894BF21		TrueConf WebClient	127.0.0.1
931434C8E547E792BB64A329CE883088		TrueConf WebClient	127.0.0.1
Showing 61 to 70 of 122 entries			
<div>Previous 1 ... 6 7 8 ... 13 Next</div>			

1. Select the number of displayed connections in the table.
2. Field used to search for a connection. The system searches through all fields (once a table has been filtered, the system displays only those records that have at least one field with string entered).
3. Unique connection ID.
4. TrueConf ID of the users who are currently connected to the server.
5. Name of the user's client application and application version.
6. User IP address.

By clicking on the table entry, you can see the pages containing information about a particular user connections. This page may include information about:

- available playback and audio capture devices
- available video capture devices
- selected equipment settings
- the latest conference where a device participated
- DirectX properties
- network connection
- network test results.

Endpoint properties (37745103CD017BAF98BE2E1977E2C92D)

sys_conf:

Microsoft Windows 10 Home Single Language, 64-bit (build 16299)

Processor:

Proc: Type 586 Level 6; Intel(R) Core(TM) i3-4000M CPU @ 2.40GHz; 2 (cores) / 4 (threads)

Direct X:

Version: 12.0 Driver: igdumd32.dll Intel(R) HD Graphics 4600 Resolution: 1366x768, 32 bit Video Memory: total - 2160 MB, free - 2156 MB Capabilities: | Bu | Bd | Ou | Od | Bfcc | OFcc | YUY2 | UYVY | HB | | 1 | 1 | 0 | 0 | 1 | 0 | 1 | 1 | 1 | DX INIT OK

app_name:

TrueConf Client

version:

6.5.9.3098

prot_version:

49

type:

0

2.8.6.1. Events that update device information

Event	Variable Fields
Connecting or reconnecting device to the server	<ul style="list-style-type: none"> • Network Info Type • Audio Capture • Audio Render • Video Capture • Direct X • Hardware Config
Conference end	Last Conf Name
Taking network test (by clicking a corresponding button in the client application)	Network Test
Authorization on the server	System information

2.9. File storage

In this section you can setup storage settings for files your users are exchanging:

1. Select a location of the files directory. You can use network paths.

i You cannot change the path to the file storage directory in the TrueConf Server for Linux control panel. If you need to store files in another directory, we recommend using symbolic links (symlinks).

2. Available free space on logical drive used for storage.
3. File lifetime (in days) before the files are removed automatically. Start time is the first file upload. The files are stored for 7 days by default. Minimal value is one day, and maximal value is unlimited.
4. Use the slider to set maximum download speed limits to download the files from the server.
5. Use the slider to set maximum upload speed limits to upload the files to the server.
6. Save changes.

2.10. Recordings

In this section, you can adjust the server settings for automatic conference recording.

1. The path to the folder where all recordings are saved. Default **Recordings** folder is located in the **server working folder**. The [list of recorded conferences](#) displays the videos from the specified folder. If the path is redefined, the list is re-formed respectively. In this field, you can also specify network path if TrueConf Server service has the rights to place recordings in this directory.

i You cannot change the path to the conference recordings directory in the TrueConf Server for Linux control panel. If you need to store recordings in another directory, we recommend using symbolic links (symlinks).

2. Enable/disable point-to-point video call recording. This option is similar for all calls: either all are recorded, or none are recorded. Please note that if you enable this option, you will not be able to use [direct connection](#) between users (to be recorded, all information between subscribers is transferred through the server).
3. There are three options to set up group conference recordings: either all are recorded, or none are recorded, or recording is set [separately for each conference](#) ("on demand" mode).
4. Video format of conference recording.
5. Time (in days) after which conference recordings should be deleted automatically. Click the checkbox next to the field to activate the text field. If you don't check this box, recordings will be stored indefinitely (recordings are not deleted automatically).

*** Can the video recorded with TrueConf app be played using third-party programs?**

Yes, it can. In order to do it you will need to download and install a media player with VP8 video codec support, e.g. [VLC](#).

You can also upload any of your recordings to YouTube to share with your colleagues.

*** How to publish a conference recording on YouTube:**

1. Download the recording.
2. Upload to YouTube.

2.11. Manage add-ons

2.11.1. TrueConf Directory

In this section, you can make your TrueConf Server instance available for integration with [TrueConf Directory](#).

To do it, click on the **Activate** button. To disable integration, click on the **Deactivate** button.

TrueConf Directory

[Help](#) ?

TrueConf Directory is a solution that combines multiple servers into a single address space. This product allows users from one server to search among users of other independent servers within TrueConf Enterprise solution, as well as view information about them, add them to address books, make point-to-point and group video calls and exchange instant messages in chat.

Activate

In the large box below the table, the secret key will be generated.

TrueConf Directory

[Help](#)

TrueConf Directory is a solution that combines multiple servers into a single address space. This product allows users from one server to search among users of other independent servers within TrueConf Enterprise solution, as well as view information about them, add them to address books, make point-to-point and group video calls and exchange instant messages in chat.

Deactivate

Directory	Requirements
Version	3.0.0 or above
SSL (HTTPS)	enabled

```
eyJpZCt6IenVIMm1tiwibmFtZSI6IenVIMm1LnRydWVjb25mLm5hbWUICjZlZGZaW9uIjoic0NC40LjQuMTAxMzMiLCJlcmwiOm51bGwsInNyY3VyZV91cmwiOiJodHRwcpcLlwwMTAuaMTTlwLjEueTEUTE5IiwieY2xpZW50X2lkIjoIdHJ1ZWNVbmZfZGlyZWNO63JlSiwiY2xpZW50X3NlY3JldCI6ImJkYyZlxZmI4NzhhdG91OG91eWYyNGRlbnJkdM2ZlMTJtJnQ2MTY5NTIifQ==
```

Copy

If you want to learn more about TrueConf Directory extension, as well as how to purchase and set it up, please [contact us](#) in any convenient way.

We demonstrated TrueConf Directory features [at ISE 2019](#) .

3. TrueConf Server Security Admin permissions

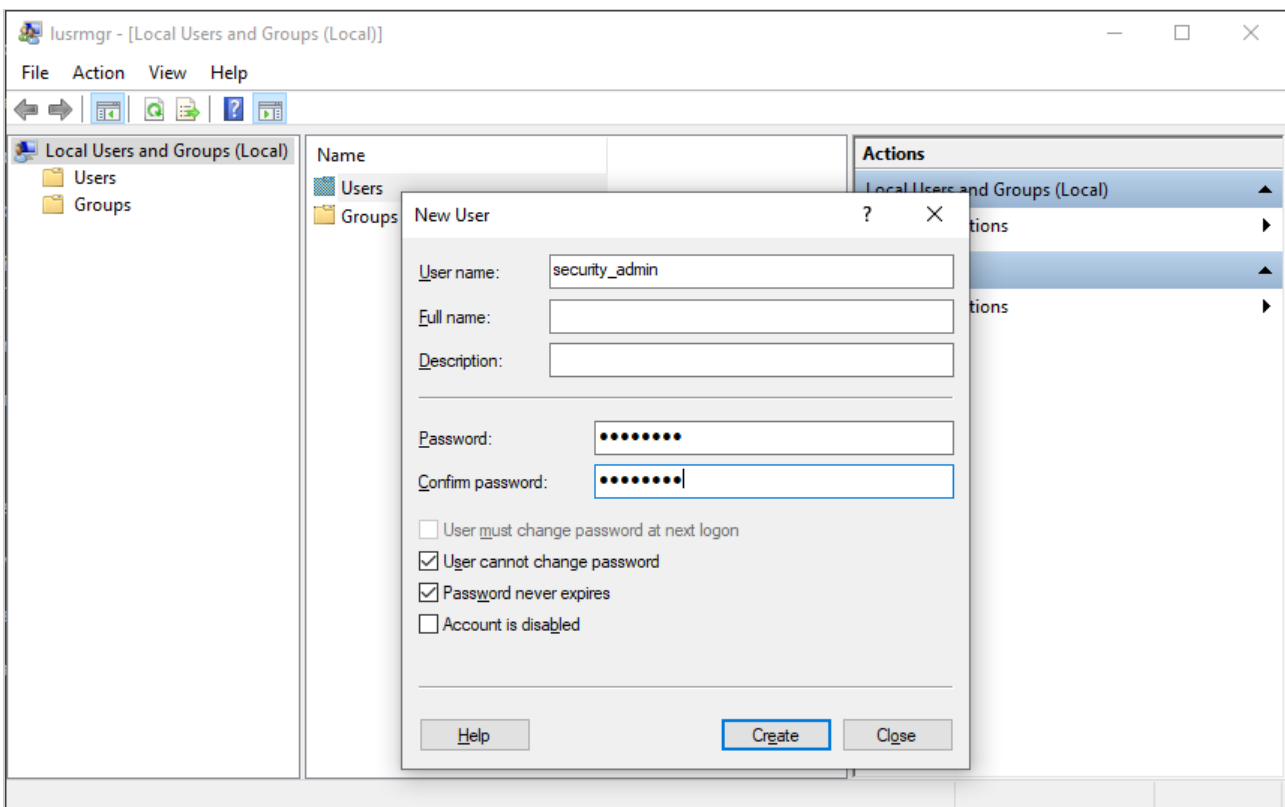
To enable limited access to the TrueConf Server control panel, a local TrueConf Server Security Admin user group is automatically added to your OS during the TrueConf Server installation process. TrueConf Server administrator can add to this group the Windows accounts of those admins who should not be allowed to access server settings. Security admins only have the permissions to view:

- event logs
- call history
- active connections
- chat messages
- conference recordings
- configuration logs.

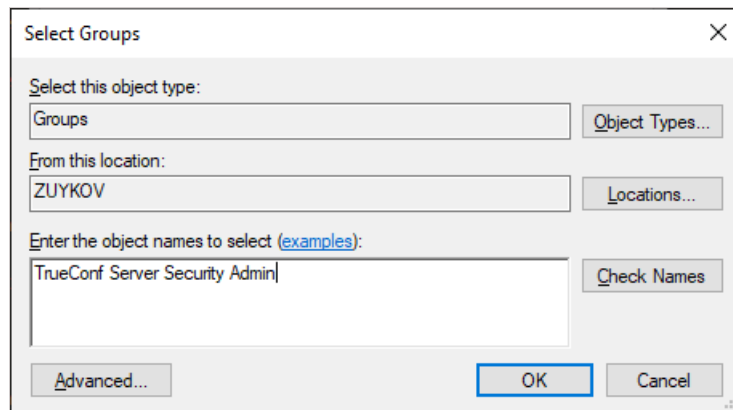
3.1. How to add TrueConf Server Security Admin administrator to Windows

To create a new local Windows account with necessary rights:

1. Go to the **Local Users and Groups** section. To do this, press the **Win+R** key combination and execute the `lusrmgr.msc` command in the appeared window.
2. Right-click on the **Users** list and select **New User...**.
3. Fill in the required fields and configure the password change settings.



4. Go to the **Users** list.
5. Right click on the created account and select **Properties**.
6. Click **Add...** on the **Member Of** tab.
7. Enter **TrueConf Server Security Admin** as the name of the selected object and click **OK**.



The user accounts imported from Active Directory/LDAP can also be added to the local TrueConf Server Security Admin group.

Further instructions are intended for TrueConf Server administrators whose accounts are added to this user group of your OS.

3.2. How to enter TrueConf Server control panel

1. Open the [TrueConf Server guest page](#). Please contact your server administrator to obtain your guest page URL.
2. Click the **Administrator login** button at the bottom of the page.
3. Enter your username and password and click **Enter**.

3.3. Server status

Current status of your TrueConf Server performance is displayed in the upper right corner of the control panel. It shows server status and registration information.

When TrueConf Server operates in the standard mode, **running, registered** status is displayed. If there are any issues when running or registering TrueConf Server, you will see the corresponding red message. In this case you should contact your server administrator or submit a ticket to [our technical support](#).


3.4. Configuring preferences

By clicking on [System → Preferences...](#) section in the upper right corner, you can configure the following settings for your account:

1. Language displayed in the TrueConf Server control panel.
2. Time zone. This setting affects the event time specified in all reports.
3. Settings for exporting logged data to a **csv** file: encoding and field delimiter.

3.5. Server log

To open detailed logs about TrueConf Server operation, go to the [System → Server log](#) section. It stores events and errors related to the launch of server services, [connection to the registration server](#), [license activation](#), etc.

You can save the log to a **txt** file using the  button. TrueConf Server logs are the best resource for determining the root cause of the problem, which is why we recommend sending the **txt** file to our technical support when submitting tickets.

3.6. Access settings

To view information about about TrueConf Server control panel access settings, proceed to **Web** → **Security** section:

Web Security [Help ?](#)

Dashboard

Give admin access to:

☒ members of **TrueConf Server Admin** local security group **1**

☐ all Windows users on **localhost**

☐ Allow admin access from localhost without authentication **2**

☒ Limit access to admin area by IP **3**

10.0.0.0/8
192.168.0.0/16
172.16.0.0/12

1. Windows users who have full access to the control panel.
2. If this option is enabled, the user does not need to be authorized to perform administration when accessing the server from the following IP addresses.
3. This option means that administrative access to TrueConf Server control panel is limited only to the IP addresses specified in the list.



Security Admins are not allowed to change the settings described above; only TrueConf Server admins with full access rights can manage these settings.

3.7. Reports

The **Reports** section contains all the event logs related to changing server settings, connecting to it, as well as holding video calls and meetings on it.

All reports are tabular data where the time of each event is displayed according to the **time zone selected in preferences**.

Fields for data filtering are displayed above all tables except for information about connections to the server. You can also **save any report in csv format** except for the conference recording and endpoint lists by pressing the button.

Clicking on any column in the table will sort the rows by that column in descending or ascending order. The current sorting direction will be marked with an arrow next to the column name.



Below you will find a brief description of the reports. You can learn more about TrueConf Server logs in the [administrator guide](#).

3.7.1. Events

In the **Events** section you can view the history of changes of the TrueConf Server users statuses. If you

select an event in the table, detailed information will be displayed on the right side of the page.

3.7.2. Call history

To display the list of previous and ongoing video calls and conferences, go to the [Call History](#) section.

Here you can view information about each video conferencing session: session ID, start and end time, duration, number of [participants](#), [TrueConf ID](#) of the owner, [conferencing mode](#), as well as [meeting ID](#).

Click on the session ID to open the [list of invited participants](#) in a new tab. Press the  button to open [chat history](#).

3.7.3. Chat messages

The [Chat Messages](#) section displays the history of all messages between TrueConf Server users, including group chat history.

3.7.4. Configuration changes

To open TrueConf Server configuration history, go to the [Configuration Changes](#) section. When the server administrator creates/deletes/edits group conferences, all changes are also displayed in this section.

3.7.5. Conference Recordings

In the [Conference Recordings](#) section, you can view the list of video recordings stored on the server with detailed information about each of them.

To download or delete a recording file, use  and  buttons respectively.

*

After deleting a file, information about the corresponding meeting remains in the recordings table.

3.7.6. Endpoints

To view the details of connections to your TrueConf Server instance, go to the [Endpoints](#) section. There you can see information about all [connections to the server](#) using client applications or via a browser using [WebRTC technology](#).

To learn more about the connection selected, click on the corresponding line.