

Yealink Federation Management Platform Guide V24.0.2.20

Contents

About This Guide.....	3
Introduction of Yealink Federation Management Platform.....	3
In This Guide.....	4
 Deploying Yealink Federation Management Platform.....	4
Overview of Deployment.....	4
Installing the Stand-Alone Version.....	5
Installing the Cluster Version.....	6
Logging into Yealink Federation Management Platform.....	8
Setting the Node.....	8
Setting the Redirect Service.....	9
Adding Federation Members.....	10
Linking YMS to Yealink Federation Management Platform.....	12
Uninstalling Yealink Federation Management Platform.....	12
 System Settings.....	12
Setting the Central Access Address.....	12
Setting the Disk Space.....	12
Setting the SMTP Mailbox.....	13
Importing HTTPS Certificate.....	14
 System Maintenance.....	14
Viewing the System Version.....	14
Upgrading the System.....	14
Setting the Auto Backup.....	15
Creating a Backup Manually.....	15
Downloading a Backup.....	15
Rebooting the System.....	15
Viewing the Operation Log.....	15
Viewing the System Log.....	16
 Using YMS.....	16
Synchronizing the Information of the Account and the Meeting Room.....	16
Synchronizing the Call Routing Information.....	16
Synchronizing the Federation List.....	16
Synchronizing the Information of the Master Domain.....	17
Managing the Subordinate YMS.....	17
Synchronizing the Number Resource.....	17
Managing the Federation Data.....	17
Managing the Data of the Subordinate Federation.....	17
Federation Conferences.....	18
Creating Federation Conferences.....	18
Placing a Fast Call.....	19
Controlling the Federation Conferences.....	20

About This Guide

This guide mainly introduces how to install and use Yealink Federation Management Platform.

The installation of Yealink Federation Management Platform can be divided into stand-alone and cluster.

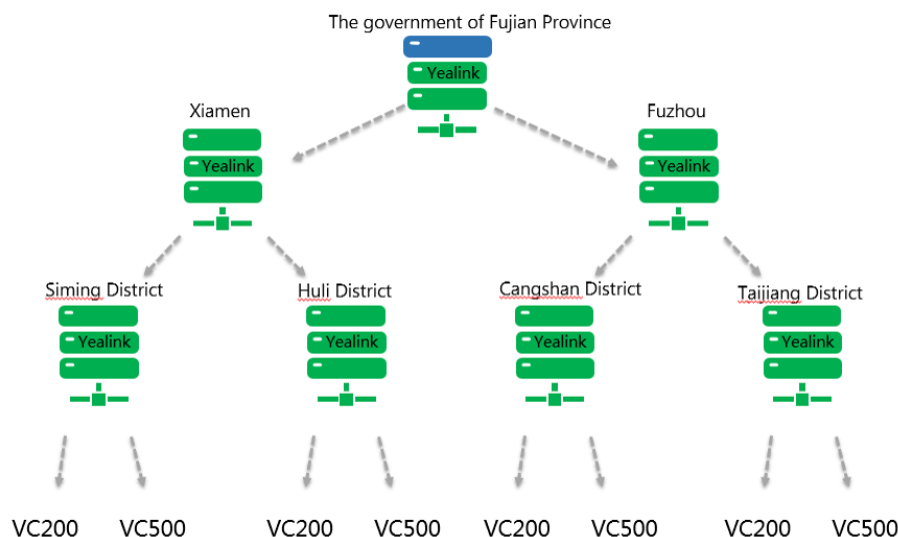
The differences between them are as below:

Type	Description
Installing Stand-Alone YMS	Install one node.
Installing Cluster YMS	<p>To make the management has a higher availability, you can install multiple nodes, which includes the following types:</p> <ul style="list-style-type: none"> Master node: only one node. Sub-master node: multiple (the quantity should be an even number) <p>Total nodes: one master node +all sub-master nodes (the quantity should be an odd number).</p>

- [Introduction of Yealink Federation Management Platform](#)
- [In This Guide](#)

Introduction of Yealink Federation Management Platform

Yealink Federation Management Platform mainly applies to the government of the province, the city, the town, and the county. Different administrative-level governments can deploy YMS independently, and the provincial government can build a unified Federation Management Platform based on the unified account number in the province, and allocate the number field to the city, the town or the county. Under this circumstance, account number conflict among different administrative divisions can be avoided, and the management of the account information under different administrative divisions can be realized.



In This Guide

This guide contains those chapters.

- Chapter 1 [Deploying Yealink Federation Management Platform](#)
- Chapter 2 [System Settings](#)
- Chapter 3 [System Maintenance](#)
- Chapter 4 [Using YMS](#)

Deploying Yealink Federation Management Platform

- [Overview of Deployment](#)
- [Installing the Stand-Alone Version](#)
- [Installing the Cluster Version](#)
- [Logging into Yealink Federation Management Platform](#)
- [Setting the Node](#)
- [Setting the Redirect Service](#)
- [Adding Federation Members](#)
- [Linking YMS to Yealink Federation Management Platform](#)
- [Uninstalling Yealink Federation Management Platform](#)

Overview of Deployment

You can follow the steps below to deploy Yealink Federation Management Platform.

Table 1: Overview of Deployment

Step	Task	Target
1	Installing the Stand-Alone Version Installing the Cluster Version	Install Yealink Federation Management Platform.
2	Setting the Node	Set the basic network information for the server node to ensure that the network works smoothly.
3	Setting the Redirect Service	For the federation members to register YMS accounts. If the following two situations occur, users should enter the proxy server address when registering YMS accounts. One, the server domain name you entered cannot be resolved; two, it can be resolved but cannot be resolved to the specific address used by the registration service. The proxy server refers to the node used by the redirect service, and the federation members can enter the same proxy server address.

Step	Task	Target
4	<i>Adding Federation Members</i>	Add the federation members of the province, the city, the town and the county.
5	<i>Linking YMS to Yealink Federation Management Platform</i>	Link YMS to the corresponding federation member.

Installing the Stand-Alone Version

Before you begin

For the installation environment, we recommend CentOS 7.5 or later.

Procedure

1. Put the installation package to the usr/local path.

For example, when uploading the file to CentOS via lrzsz, you can do the following:

Use SecureCRT to go to CentOS via SSH and run the following:

```
yum -y install lrzsz
```

```
cd /usr/local
```

```
rz
```

Select the installation package that you want to upload.

2. Use SecureCRT to go to CentOS via SSH and run the following:

```
cd /usr/local
```

```
tar -xzvf FMC_10.0.0.5.tar.gz
```

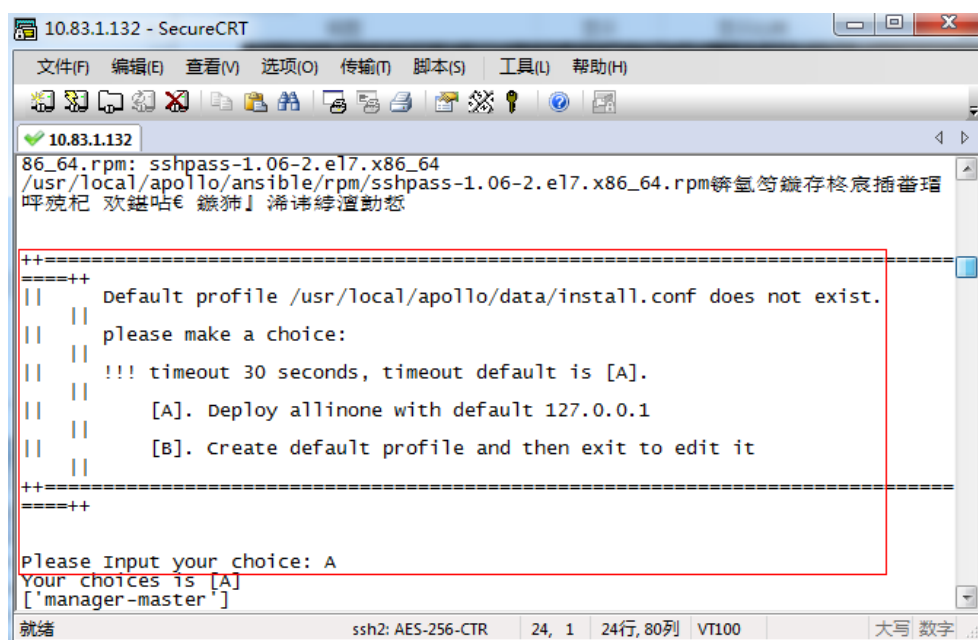
```
cd apollo_install
```

```
tar xvzf install.tar.gz
```

```
./install.sh
```

3. Enter A to select the stand-alone installation.

If you do not select within 30 seconds, the system will select the stand-alone installation automatically. The installation will be finished in about 10 minutes. Please wait.



Results

The installation succeeds if the page displays the following part:

```

PLAY RECAP *****
manager-master      : ok=554  changed=268  unreachable=0    failed=0

```

Installing the Cluster Version

Before you begin

- For the installation environment, we recommend CentOS 7.5 or later.
- The network among all the nodes can be accessed. We recommend that all the nodes can access the external network.
- YMS is not installed in all the nodes.

Procedure

1. Put the installation package to the usr/local path.

For example, when uploading the file to CentOS via lrzsz, you can do the following:

Use SecureCRT to go to CentOS via SSH and run the following:

```
yum -y install lrzsz
```

```
cd /usr/local
```

```
rz
```

Select the installation package that you want to upload.

2. Use SecureCRT to go to CentOS via SSH and run the following:

```
cd /usr/local
```

```
tar -xzf FMC_10.0.0.5.tar.gz
```

```
cd apollo_install
```

```
tar xvfz install.tar.gz
```

```
./install.sh
```

3. Enter B to select the cluster installation.

```

=====
====++
||      Default profile /usr/local/apollo/data/install.conf does not exist.
||      please make a choice:
||      !!! timeout 30 seconds, timeout default is [A].
||      [A]. Deploy allinone with default 127.0.0.1
||      [B]. Create default profile and then exit to edit it
||
=====
====++

```

```

Please Input your choice: B
Your choices is [B]

```

4. Run the command: `vi /usr/local/apollo/data/install.conf`

5. Enter A to edit the configuration file.

For example, in the current environment, set 10.200.112.179 as the master node, set 10.200.112.89 and 10.200.112.22 as the sub-master nodes.

```

10.83.1.132 - SecureCRT
文件(F) 编辑(E) 查看(V) 选项(O) 传输(T) 脚本(S) 工具(L) 帮助(H)
10.83.1.132
[global]      #global configuration.
ansible_ssh_user = root    #the default root authority, used for logging into the server backend.
ansible_ssh_pass = Yealink1105 #we recommend you set the same backend password for all node to get a unified management.
# ansible_ssh_private_key_file=

# nginx_http_listen_port = 80
# nginx_https_listen_port = 443
# nginx_http_redirect_https = false

[manager-master]
ip=10.200.112.179 #the IP address of the master node.
# ansible_ssh_user=root #it is the backend login password of the root authority of the master node. The independent
                        #configuration has higher priority than the global one. Note that no space is allowed in the beginning
                        #of the password, otherwise, it is invalid.

[manager-slave-1]
ip=10.200.112.89

[manager-slave-2] #the IP address of the sub-master node.
ip=10.200.112.22
~
~
~

```

6. Press **Esc** to exit, and run the following command:

```
:wq
```

```
./install.sh
```

Results

The installation succeeds if the page displays the following part:

```

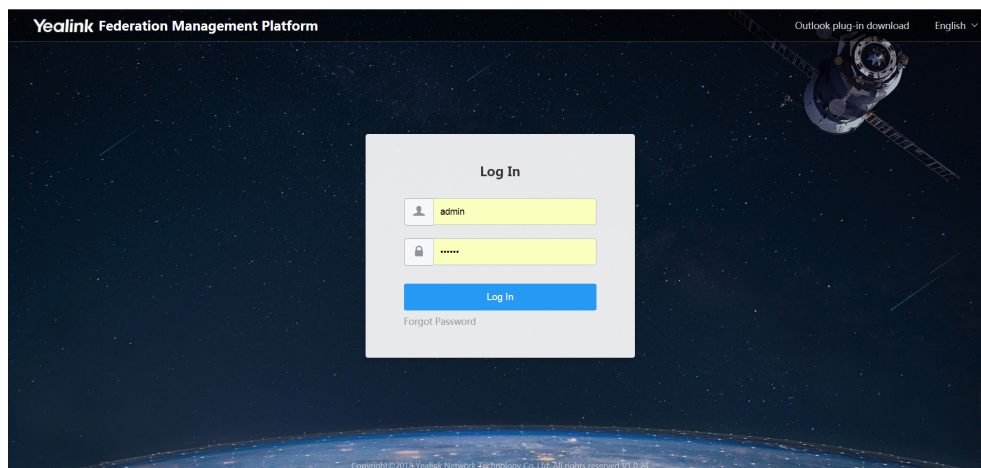
PLAY RECAP *****
manager-master      : ok=609  changed=291  unreachable=0    failed=0
manager-slave-1     : ok=609  changed=291  unreachable=0    failed=0
manager-slave-2     : ok=1126 changed=541  unreachable=0    failed=0

```

Logging into Yealink Federation Management Platform

Procedure

1. Open a web browser.
2. Enter the IP address or domain name of Yealink Federation Management Platform in the address bar, and then press the Enter key to go to the Login page.
3. Enter the username and the password.



Note: By default, the username is “admin” and the password is “123456”.


4. In the top-right corner, select the desired display language from the drop-down menu.
5. Click **Login**.

If you forget the password, you can click **Forgot Password**, and reset the password according to the prompts.

Setting the Node

You can configure the basic network information of the server node to get a smooth network.

Procedure

1. Click **System Setting > Node Management**.
2. Click  on the right side of desired node, and edit the parameters.



Note:

- Make sure that the DNS server is available. Otherwise, the service will be abnormal.
- You can configure only one default routing; when the adapter has multiple IP addresses, the routing of all the IP addresses should be specified, the default one cannot be used; the smaller the number is, the higher the priority is; the routing rule came with the system cannot be deleted. If it is deleted, other added routing rules will be abnormal.
- For a single network adapter deployment in the external network, you must configure two intranet IP addresses, one mapped to the public network with the public button on and the other mapped to the intranet (only mapping one IP address is not allowed). Only mapping one intranet IP address to the public network will make the service abnormal. For more information, refer to [Yealink Meeting Server Network Deployment Guide](#).

- If your YMS is the cluster version, you cannot edit the IP address of the master node on the management platform. You can edit it in the installation file and re-install it. For more information, refer to [Installing the Cluster Version](#).

Setting the Redirect Service

The federation members can register YMS accounts via redirect service. If the following two situations occur, users should enter the proxy server address when registering YMS accounts. One, the server domain name you entered cannot be resolved; two, it can be resolved but cannot be resolved to the specific address used by the registration service. The proxy server refers to the node used by the redirect service, and the federation members can enter the same proxy server address.

Procedure

1. Click **Service > SIP Service > Redirect Service > Add**.
2. Configure the corresponding parameters.

Add

Enabled :

ON

* Name :

10.200.112.135

* Node :

Default(10.200.112.135)

Service address

*Network

TLS Port

10.200.112.135 (Enabled)

5061

+ Add

Save

Cancel

Table 2: Basic Parameters

Parameter	Description
Enabled	Enable or disable this service. Default: enabled.
Name	The service name.
Node	The node used by this service.

3. Configure the parameters of the service address.

Table 3: Service address

Parameter	Description
Network	The IP address of this node.
TLS port	The TLS port used by this node. Note: only TLS registration is available.

- Click **Save**.
- Operate according to the prompts, and click **OK**.

Adding Federation Members

You need add members of the province, the city, the town and the county, so that you can configure the area code and the domain name for every administrative division.

About this task

After you add the federation members, the system will automatically synchronize the federation information to the corresponding YMS one hour later, if the synchronization failed, you can manually synchronize the federation information. For more information, refer to [Using YMS](#).

Procedure

- Click **Federation Management > Add Federation Member**.
- Configure the corresponding parameters.

Basic Settings Number Segment Allocation Federation Service

* Parent node :

* Name :

* Primary domain :

* Username :

* Password :

Table 4:

Parameter	Description
Primary Domain	Specify the domain name for authentication. When the device is registering, the server address will be directed to this domain name.
Username	The user name.
Password	The password of the user.

3. Click **Add** to allocate the number resource.

×

Add

* Number type : System account ▼

* Origin section : 250000000

* Rear section : 290000000

Description : |

OK
Cancel

Table 5: Parameters of the number

Parameter	Description
Number type	<p>The type of the number.</p> <p>The supported types are as follows:</p> <ul style="list-style-type: none"> • System account: it contains the user accounts and the room system accounts. • All conference: it contains the number of scheduled conferences, Meet Now conferences and VMRs. • Meet Now • Scheduled conference • VMR <p>Note: if you set All conference and Meet Now, the system will use the Meet Now with priority. This can also be applied to Scheduled conference and VMR.</p>
Origin section	The origin section.
Rear section	The rear section.
Description	The additional notes.

Linking YMS to Yealink Federation Management Platform

Contact Yealink technical support to link YMS to Yealink Federation Management Platform.

About this task

Note that if you link YMS to Yealink Federation Management Platform, all data on YMS will be cleaned up.

Uninstalling Yealink Federation Management Platform

Procedure

1. Log into CentOS as the root.
2. Go to the terminal.
3. Run the command: `apollo-uninstall`

For the cluster installation, you need run this command on each node.

4. Enter the password which can be obtained from Yealink.

System Settings

- [Setting the Central Access Address](#)
- [Setting the Disk Space](#)
- [Setting the SMTP Mailbox](#)
- [Importing HTTPS Certificate](#)

Setting the Central Access Address

You can set the server URL for the internal and network separately, and the server will send the corresponding address to the device according to the network where the device locates in. When you reset the password, you will receive the email sent by the system. The link in the email may contains the central access address.

Procedure

1. Click **System Settings > Common Settings > Central access addressAdd**.
2. In the **Service network** field, select **Internal network/External network**.
3. Enter the URL in the **Service URL** field.
4. Click **OK**.

Setting the Disk Space

You can allocate the space quota for the **Syslog** and the **Backup space** manually.

Before you begin

The space quota should be an integer value, and the space quota of each part should not be less than its default space quota.

Procedure

1. Click **System Setting > Common Setting > Data Space**.
2. Enter the desired quota in the corresponding field.
3. Click **Save**.

Setting the SMTP Mailbox

You can use the SMTP mailbox to send emails to users. For example, the email of resetting the password.

Procedure

1. Click **System Setting > Common Setting > SMTP Mailbox**.
2. Configure the parameters.

Central access address
Data Space
SMTP Mailbox

SMTP server :

Mailbox :

Username :

Password :

Port :
 (Only 1~65535)

☒ This server requires a secure connection

Test Mailbox Setting
Save
Cancel

3. Click **Test Mailbox Setting**.
4. Enter the test address in the **Test Mailbox** field.
5. Click **OK**.

If the mailbox connection succeeds, the prompt “Operation success” is popped up.



Note: If the mailbox connection fails, make sure the connection between YMS and SMTP server can work and the account information is correct.

6. Click **Save**.

Importing HTTPS Certificate

When you access Yealink Federation Management Platform by HTTPS protocol, the browser will prompt that it is insecure. To solve this problem, you can import the certificate trusted by the browser.

Before you begin

You have obtained the device certificate issued by CA.

Procedure

1. Click **System Setting > Certificate > HTTPS Certificate > Import**.
2. Click **Upload**, select the desired certificate.
3. Click **OK**.

System Maintenance

- [Viewing the System Version](#)
- [Upgrading the System](#)
- [Setting the Auto Backup](#)
- [Creating a Backup Manually](#)
- [Downloading a Backup](#)
- [Rebooting the System](#)
- [Viewing the Operation Log](#)
- [Viewing the System Log](#)

Viewing the System Version

You can view the current system version to update the system in time.

Procedure

Click **Maintenance > Upgrade > System Upgrade**.

Upgrading the System

When a new version is available, you can upgrade Yealink Federation Management Platform. The latest version can be obtained from Yealink.

Procedure

1. Click **Maintenance > Upgrade > System Upgrade**.
2. Click **Update**, select the software to upgrade the system.

Setting the Auto Backup

You can enable the Auto backup, so that the server can create a backup for the important information automatically.

Procedure

1. Click **Maintenance > Backup > Setting**.
2. Configure the parameter of the auto backup.
3. Click **OK**.

Creating a Backup Manually

You can create a backup for Yealink Federation Management Platform manually.


Procedure

1. Click **Maintenance > Backup > Add**.
2. Enter the file name.
3. Click **OK**.

Downloading a Backup

You can download the desired backup of YMS.

Procedure

1. Click **Maintenance > Backup**.
2. Click  on the right side of the desired file.

Rebooting the System

When you fail to upgrade the system, for example it remains on a certain page, you can reboot the system.

Procedure

1. Click **Maintenance > System Restart**.
2. Select the desired node, and click **Restart**.
3. Click **OK**.

Viewing the Operation Log

The operation log keeps a record of the change history, including the access record and the configuration record of Yealink Federation Management Platform.

Procedure

Click **Maintenance > Support Log > Operation Log**.



Tip: You can also click **Export Log** in the top right corner to view the log.

Viewing the System Log

You can view the system log to find out the reason when a problem occurs to the server.

Procedure

1. Click **Maintenance > Support Log > System log**.
2. Select the time, the module, and the node to export the log.
3. Click **Export Syslog**.

Using YMS

This chapter introduces how to synchronize the data and manage YMS after YMS is linked to Yealink Federation Management Platform.

- [*Synchronizing the Information of the Account and the Meeting Room*](#)
- [*Synchronizing the Call Routing Information*](#)
- [*Synchronizing the Federation List*](#)
- [*Synchronizing the Information of the Master Domain*](#)
- [*Managing the Subordinate YMS*](#)
- [*Synchronizing the Number Resource*](#)
- [*Managing the Federation Data*](#)
- [*Managing the Data of the Subordinate Federation*](#)
- [*Federation Conferences*](#)

Synchronizing the Information of the Account and the Meeting Room

You can synchronize the information of the user account, the room system account, other account, the entity meeting room, and the VMR on Yealink Federation Management Platform.

Procedure

Click **Account > User Account/Room System Account/Other Account/Entity Meeting Room/Virtual Meeting Room > Synchronize**.

Synchronizing the Call Routing Information

Procedure

Click **Call Configuration > Call Routing Rule > Synchronize**.

Synchronizing the Federation List

Procedure

Click **Service > SIP Service > Redirect Service > Synchronize**.

Synchronizing the Information of the Master Domain


Procedure

Click **System Settings > Common Settings > Network Association > Synchronize**.

Managing the Subordinate YMS

You can log into the subordinate YMS as the system administrator, to manage the accounts, the meeting room and so on. For more information, refer to [Yealink Meeting Server Administrator Guide](#).

Procedure

1. Click **System Settings > Common Settings > Federation Management**
2. Click  on the right side of the desired subordinate YMS.

Synchronizing the Number Resource

Procedure

Click **System Settings > Common Settings > Number Resource Allocation Synchronize**.

Managing the Federation Data

You can add, edit and delete the accounts, the meeting room information and the number resource.

Procedure

1. Do one of the following:
 - Click **Account > User Account/Room System Account/Other Account/Entity Meeting Room/Virtual Meeting Room > Federation Data Management**.
 - Click **System Settings > Common Settings > Number Resource Allocation Federation Data Management**.
2. Refer to the corresponding chapters in [Yealink Meeting Server Administrator Guide](#).

Managing the Data of the Subordinate Federation

You can add, edit and delete the information of the account and the meeting room.

About this task

If there is subordinate organization under your organization, **Subordinate management** will be displayed on the page.

Procedure

1. Click **Subordinate management > Subordinate user account/Subordinate room system account/Subordinate other account/Subordinate meeting room/Subordinate VMR**.

2. Refer to the corresponding chapters in *Yealink Meeting Server Administrator Guide*.

Federation Conferences

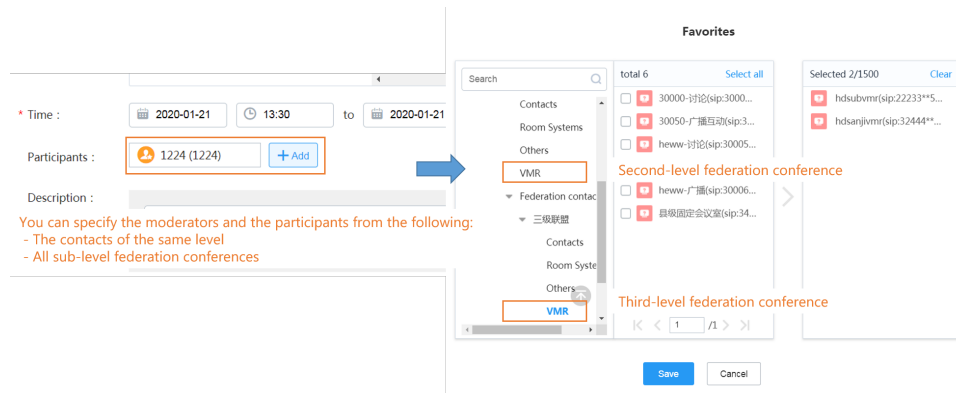
When you build a multi-level federation, every level can control the federation conference of its sub levels, for example, change the video layout. You can build a federation, including five different levels at most.

- [Creating Federation Conferences](#)
- [Placing a Fast Call](#)
- [Controlling the Federation Conferences](#)

Creating Federation Conferences

Do one of the following:

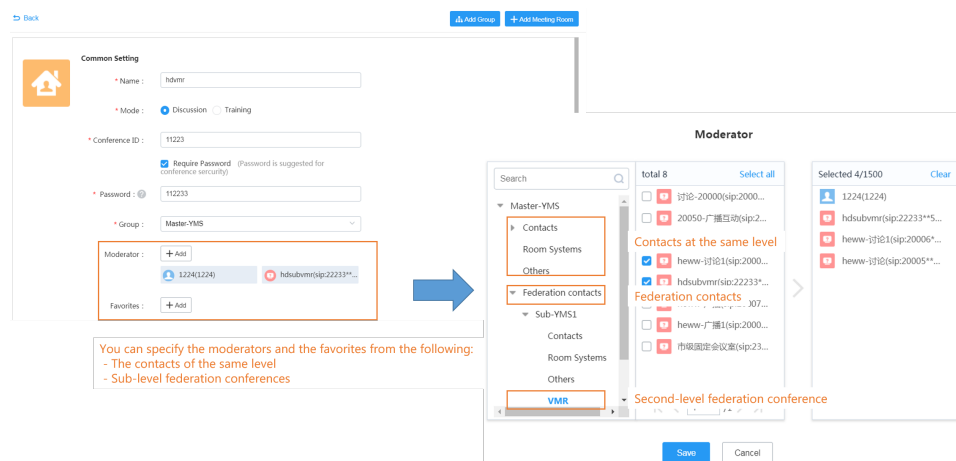
- In a province-level YMS, the province-level federation conference can invite all its sub-level federation conferences, and in sub-level YMSs, federation conferences at every level can invite the contacts at the same level.
- Inviting via a VMR conference



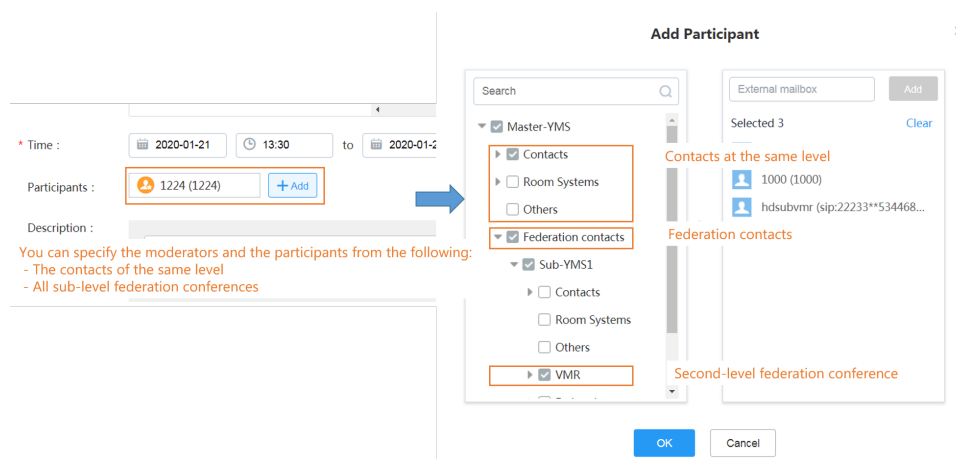
- Inviting via a scheduled conference



- In every level YMS, federation conferences at every level can invite its sub-level federation conferences and the contacts at the same level.
- Inviting via a VMR conference



- Inviting via a scheduled conference. The sub-level federation conference can only be VMR.

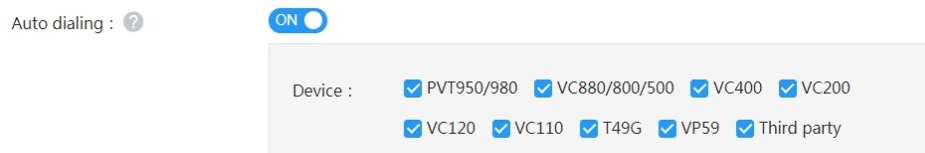


Placing a Fast Call

In a province-level YMS, you can place a Fast call on the Conference Control page to invite all the federation conferences and contacts.

Before you begin

- [Creating Federation Conferences](#)
- In every level YMS, set the feature of Auto dialing (go to **Call Configuration > Call Control Policy**).



Procedure

- On the Conference Control page of the province-level YMS, click **Fast Call**.
- Select the desired participants and click **Call**.

Fast Call

Please select the parties you want to call

Search

Master-YMS

Contacts

1224(1224)

Federation contacts

Sub-YMS1

VMR

hdsbvmr(sip:22233**534468@10.83.1.150...)

Selected 2/1500

Clear

1224(1224)

hdsbvmr(sip:22233**534468@10.83.1.150...

Contacts of the same level you added when you created the conference.

The sub-level federation conference you added when you created the conference.

Call

Close

Controlling the Federation Conferences

Before you begin

After the invited federation conference joins the conference (refer to [Placing a Fast Call](#)), there will be data in the list of Federation Control.

Procedure

- On the Conference Control page, click **Federation Control**.

Federation Control

List of Federation Member(Total num:5 Attendance : 2 Absence: 3)


Participant Name	Federation	Status	Participant Status	Operation
2006 2006	Sub-YMS1	✓		
3001 3001	三级联盟	✓		
2001 2001	Sub-YMS1	✗	—	
3019 3019	三级联盟	✗	—	
3015 3015	三级联盟	✗	—	

- Do one of the following:

- View the details of all sub-level participants, including the name, the federation they belong to, the conference status, the participant status, and the operation.



Note:

- In broadcasting interactive conferences, you cannot see the broadcasting parties in the list of Federation Control.
 - If you do not find the newly added participants, you need to check whether the federation data is synchronized.
- Click **Federation** and select the desired federation.
- Click **Status** and select the desired status.
- Conference status: including the attendance (🟢) and the absence (🔴).
- Participant status: it displays the status of every venue (for example, the participant is muted or unmuted) and the call statistics.
- Click  to go to the Conference Control page of the sub-level federation conference.