

SCOPIA Elite 5100 Series MCU

Administrator Guide Version 7.5



© 2000-2010 RADVISION Ltd. All intellectual property rights in this publication are owned by RADVISION Ltd and are protected by United States copyright laws, other applicable copyright laws and international treaty provisions. RADVISION Ltd retains all rights not expressly granted.

This publication is RADVISION confidential. No part of this publication may be reproduced in any form whatsoever or used to make any derivative work without prior written approval by RADVISION Ltd.

No representation of warranties for fitness for any purpose other than what is specifically mentioned in this guide is made either by RADVISION Ltd or its agents.

RADVISION Ltd reserves the right to revise this publication and make changes without obligation to notify any person of such revisions or changes. RADVISION Ltd may make improvements or changes in the product(s) and/or the program(s) described in this documentation at any time.

If there is any software on removable media described in this publication, it is furnished under a license agreement included with the product as a separate document. If you are unable to locate a copy, please contact RADVISION Ltd and a copy will be provided to you.

Unless otherwise indicated, RADVISION registered trademarks are registered in the United States and other territories. All registered trademarks recognized.

For further information contact RADVISION or your local distributor or reseller.

Administrator Guide for SCOPIA Elite 5100 Series MCU Version 7.5, August 2010

<http://www.radvision.com>

Table of Contents

1 SCOPIA Elite 5100 Series Functionality

| | |
|---|---|
| Main Features..... | 1 |
| Call Capacity..... | 3 |
| High Definition Downspeeding | 3 |
| About SCOPIA Elite 5100 Series MCU Architecture | 4 |
| About SCOPIA Elite 5100 Series Topologies | 4 |
| Centralized Topology | 5 |
| Cascaded Conferences | 5 |

2 Maintaining the SCOPIA Elite 5100 Series MCU

| | |
|---|----|
| Regulating Bandwidth Usage | 7 |
| Configuring the Auto Attendant Service | 8 |
| How to Manage SCOPIA Elite 5100 Series MCU User Profiles | 9 |
| About SCOPIA Elite MCU User Types..... | 10 |
| Adding a User Profile | 10 |
| Changing a User Password | 11 |
| Deleting a User Profile | 11 |
| Backing Up Your SCOPIA Elite 5100 Series MCU Configuration..... | 12 |
| Restoring Your Configuration..... | 13 |
| Upgrading Software | 13 |
| Restoring a Previous Software Version..... | 14 |
| Updating a SCOPIA Elite 5100 Series MCU License..... | 15 |

3 How to Moderate a Conference as an Operator

| | |
|--|----|
| Conference Control Interface | 17 |
| Becoming a Moderator and Stopping Moderation | 19 |
| How to Control Participants in a Conference | 19 |
| Creating a New Conference | 20 |
| Muting and Unmuting All Participants..... | 22 |
| Muting and Unmuting Individual Participants..... | 22 |
| Changing Participant Views..... | 23 |
| Blocking Conference Admission | 25 |
| Viewing Participant Call Information..... | 26 |
| Defining Conference Views | 29 |
| Changing the Conference View | 30 |
| Displaying Participant Names in Frames..... | 31 |
| Enabling the Self-see Feature | 32 |
| Terminating Conferences | 33 |

1

SCOPIA Elite 5100 Series MCU Functionality

The MCU enables multimedia, multiparty collaboration in applications such as group conferencing, distance learning, training and video telephony. The MCU supports multimedia, multiparty communications in the board room, at the desktop, in the home, or on the road over wireless.

- [Main Features](#) page 1
- [Call Capacity](#) page 3
- [High Definition Downspeeding](#) page 3
- [About SCOPIA Elite 5100 Series MCU Architecture](#) page 4
- [About SCOPIA Elite 5100 Series MCU Topologies](#) page 4

Main Features

SCOPIA Elite 5100 Series MCU provides the following features:

- **Video processing**—Video and audio processing is carried out per user rather than per conference. Each user connects using unique, optimized audio and video settings to enjoy the best audio and video quality supported by their endpoint and network, without affecting the other participants in a conference.
- **Seamless interoperability**—The MCU is built on the strong foundation of the radvision H.323 and SIP software, ensuring full compliance and unmatched interoperability with IP, ISDN, and 3G networks.

The MCU enables H.323 and SIP devices to participate in the same conference session.

When used with a family of SCOPIA Gateways, the MCU also enables ISDN, V.35, and 3G handsets to participate in the same conference session.

- **SVC error resiliency**—The MCU supports SVC error resiliency for unmanaged networks using Temporal Scalability and Forward Error Correction (FEC).
- **Intuitive web-based management and control**—Both the MCU system and actual conference sessions are managed, configured, and dynamically modified through an intuitive, web-based interface that offers easy, high-level conference control and administrative flexibility for an enhanced user experience.
- **Unlimited number of conferences**—The number of supported conferences is limited only by the number of ports provided by your license.

- In-meeting indicators—A range of messages and icons are displayed on the endpoint monitor during conferences when certain events occur. For example, conference participants are notified when a participant joins or leaves a conference, an audio-only participant speaks, or a participant's personal video layout changes.
- Personal layouts per participant—Fully customizable personal video layout for each conference participant.
- Single LAN connection—Only a single Ethernet connection is required for the entire MCU system.
- Snapshot files for Customer Support—One-click creation of a file of bundled logs and configuration files which you can send to Customer Support for debugging.
- Video quality—The MCU delivers high quality video and audio processing, using latest industry standards and upgradeable DSP chip software.

The MCU achieves the best video quality by supporting the following video capabilities

- H.264 SVC error resiliency
- High definition and standard definition participants in the same conference.
- A choice of 22 video layouts
- H.263 and H.264 in the same conference
- Resolutions from QCIF to 1080p in the same conference
- Framerate of up to 60 fps for 720p resolution and 30 fps for other resolutions
- Up to 12Mbps on each stream without affecting capacity
- VGA, SVGA, XGA, WUXGA (supported for presentation channel only)
- Security and privacy—Administrator and operator password protection for accessing the MCU web interface.

Optional PIN protection for joining a conference and web access.

Additional PIN protection for conference Moderator Control.

To achieve secure communication with endpoints, the MCU uses H.235-based encryption for H.323 endpoints and SRTP and TLS encryption for SIP endpoints.

- In-conference control—During a conference, participants may use their endpoint remote control or keypad to perform actions such as mute, volume control, changing video layouts and inviting participants

These options are presented in the in-meeting menu displayed on top of the video layout.

- Optional no self see—The no self-see (NSS) option is enabled by default, but can be disabled with an advanced command. This feature enables more effective use of the video screen.
- Interactive Voice Response (IVR) messages—The MCU includes pre-recorded greetings to conference participants and announcements as each new participant joins the conference. You can record messages to provide custom greetings and announcements.
- HD switching—The MCU supports the switching of HD resolutions 720p and 1080p at up to 12 Mbps at the capacity of up to 120 calls. Switching is available for H264 and H261 video codecs.

Call Capacity

MCU always sends video at 30fps.

The SCOPIA Elite 5100 Series MCU provides a capacity of either 10 or 15 ports depending on the MCU model:

- SCOPIA Elite MCU 5110 - 10 ports
- SCOPIA Elite MCU 5115 - 15 ports

Depending on a call resolution, a call can take this number of ports:

- A 480p or 720p call - one port
- A 1080p call - two ports
- A 352p or lower call - 1/4 of a port (only in cases where an increased capacity license has been obtained)

Table 1-1 presents a summary of MCU call capacity:

Table 1-1 MCU Call Capacity

| | SCOPIA Elite MCU 5110 | SCOPIA Elite MCU 5115 |
|--|-----------------------|-----------------------|
| Form Factor | 1U | 1U |
| High definition (720p) continuous presence ports | 10 | 15 |
| High definition (1080p) continuous presence ports | 5 | 7 |
| High definition video switching ports | 40 | 60 |
| Enhanced definition (352p) continuous presence ports (separate license option) | 40 | 60 |

High Definition Downspeeding

The SCOPIA Elite MCU supports a dynamic port capacity that enables extra calls to be connected even after maximum call capacity is reached. By downspeeding existing 1080p calls to 720p, the MCU can accept additional calls within a single meeting.

Note: MCU 1080p transmission is asymmetric (1080p TX, 720p RX).

The MCU does not perform downspeeding on calls from participants defined as VIP users in iVIEW Suite.

About SCOPIA Elite 5100 Series MCU Architecture

The MCU enables both voice-only and video conference calls for H.323, SIP, H.320, 3G-H324M and regular PSTN network phones. H.323 and SIP devices can connect to a conference directly through the MCU. Other devices such as phones and video conferencing terminals (H.320, 3G-H.324M) can connect to a conference via the MCU.

Figure 1-1 Supported Devices and Protocols



The MCU supports devices that can send and receive video streams, as well as those that cannot send but only receive video streams. This means that terminals without a video camera or video capturing capabilities can participate in a conference as voice-only participants while benefiting from seeing the other participants.

About SCOPIA Elite 5100 Series MCU Topologies

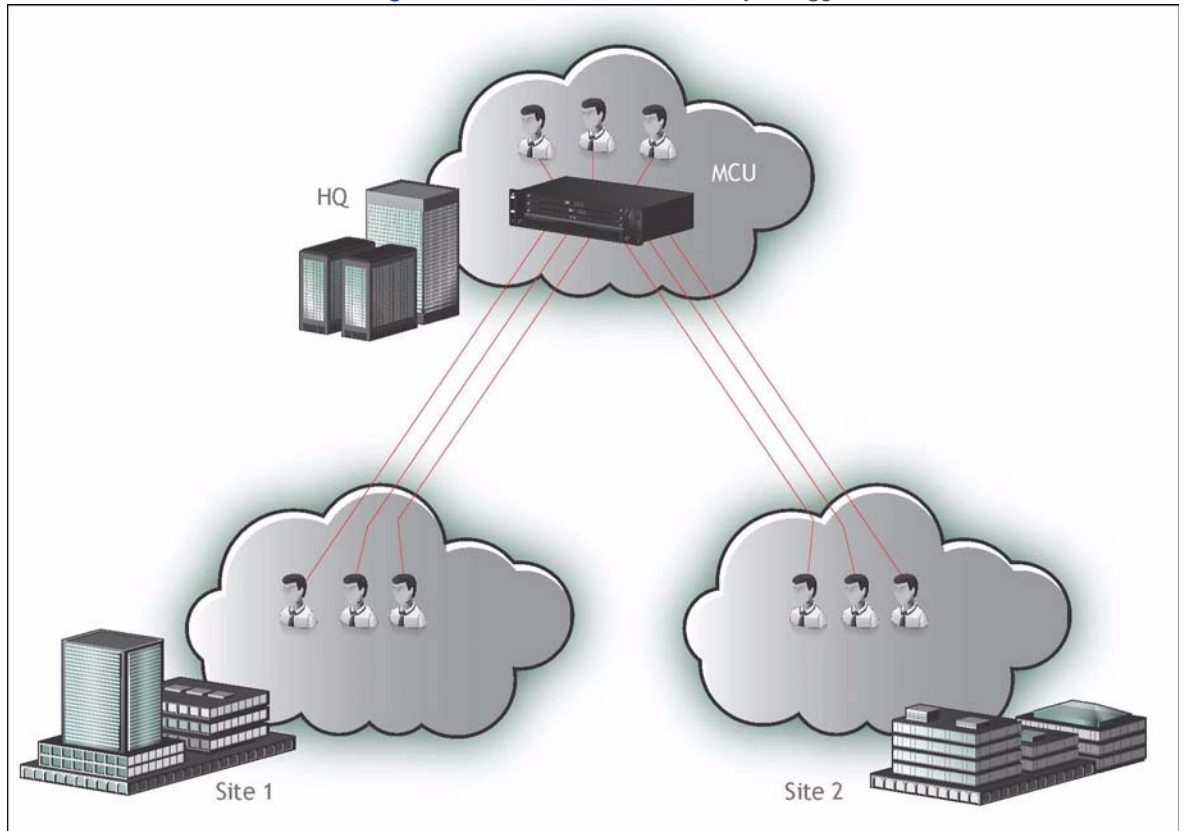
The SCOPIA Elite 5100 Series MCU can work in a centralized or cascaded topology. This section describes these two options.

- [Centralized Topology](#) page 5
- [Cascaded Conferences](#) page 5

Centralized Topology

In a centralized topology, the MCU performs media processing for all connected participants, regardless of their location. The MCU can handle multiple conferences simultaneously.

Figure 1-2 Centralized Topology



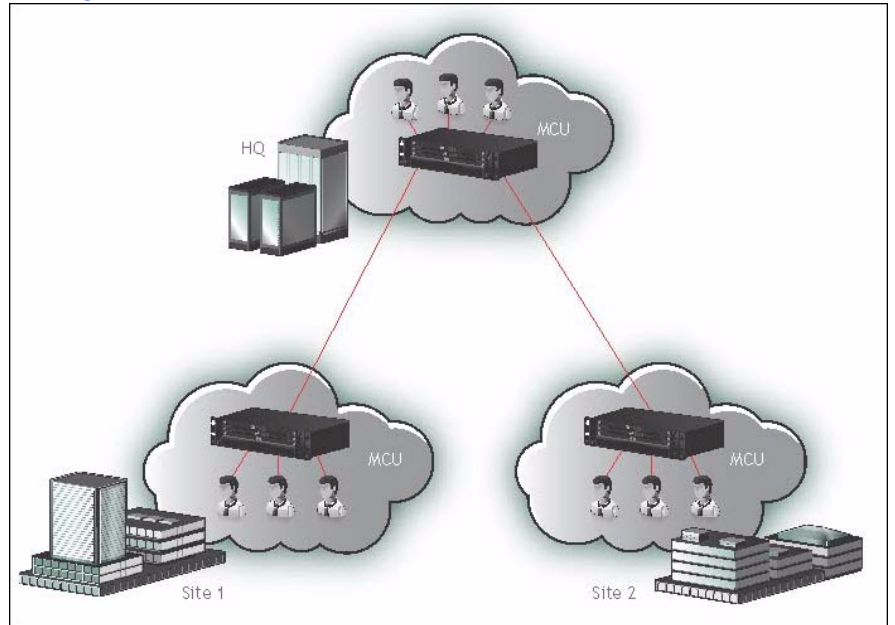
Cascaded Conferences

The MCU allows you to combine two or more conferences resulting in a larger conference with many more participants. This is called cascading. Cascading creates a distributed environment that helps reduce the drain on network resources. In addition, the processing resources required by the MCU are distributed between participating MCUs. Costly phone or ISDN line usage can be further reduced with the mediation of a gateway.

Cascading occurs when one conference with “x” number of participants invites another conference with “y” number of participants. The two conferences effectively become one large conference. The bandwidth required across a cascaded conference link is only that of one audio/video stream between the two conferences. This is significantly less than the accumulated bandwidth of all the participants. Each separate MCU participating in a conference retains control of its individual conference resources and participants.

The cascaded conference in [Figure 1-3](#) minimizes the use of network bandwidth while distributing processing among the participating MCUs.

Figure 1-3 Cascaded Conference



2


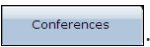
Maintaining the SCOPIA Elite 5100 Series MCU

- [Regulating Bandwidth Usage](#) page 7
- [Configuring the Auto Attendant Service](#)..... page 8
- [How to Manage SCOPIA Elite MCU User Profiles](#)..... page 9
- [Backing Up Your SCOPIA Elite 5100 Series MCU Configuration](#)..... page 12
- [Restoring Your MCU Configuration](#)..... page 13
- [Upgrading MCU Software](#) page 13
- [Restoring a Previous Software Version](#)..... page 14
- [Updating a SCOPIA Elite 5100 Series MCU License](#)..... page 15

Regulating Bandwidth Usage

Depending on your network capacity, you may need to adjust bandwidth usage by defining how much bandwidth each call will require.

Procedure

- Step 1** Select **Configuration** 
- Step 2** Select **Conferences** 

Step 3 Locate the Services list section.

Figure 2-1 Service List Section of the Conferences Tab

| Prefix | Description | Max call rate (Kbps) | Review |
|--------|--|----------------------|--------|
| 7788 | audio only | 64 | |
| 9966 | Default Service [Auto attendant service] | 2048 | |

Add new service...

Step 4 Select the Review button next to the service.

Step 5 Select the required value from the list under Max call rate (Kbps).

Figure 2-2 Service Settings Section

9966 Default Service [Auto attendant service] 2048

Audio only
 Switched video
 Display welcome screen

Display welcome message: Welcome to 3DESC

More...

Delete Apply Cancel

Step 6 Select Apply.

Configuring the Auto Attendant Service

The auto attendant service allows MCU users to create or join a conference even if they do not know the MCU service number or the meeting ID number. The auto attendant number serves as a preconfigured number a user can dial to access the MCU to then either create a new conference or join a conference currently hosted at this MCU.

Procedure

Step 1 Select Configuration

Step 2 Select Conferences

Step 3 Locate the Services List section.

Figure 2-3 Service List Section of the Conferences Tab

| Prefix | Description | Max call rate (Kbps) | Review |
|--------|-----------------|----------------------|--------------------------|
| 7788 | audio only | 64 | |
| 9966 | Default Service | 2048 | [Auto attendant service] |

Add new service...

Step 4 Select Review for the service you want to use as the auto attendant service.

Step 5 Select the Set as the Auto attendant service link.

Figure 2-4 Service Setting Section

Services List

| Prefix | Description | Max call rate (Kbps) | Review |
|--------|-------------|----------------------|-----------------------------------|
| 9977 | pres h.263 | 2048 | Set as the Auto attendant service |

Audio only
 Switched video
 Display welcome screen

Display welcome message: Welcome to \$DESC

More... Delete Apply Cancel

Step 6 Select Apply.

How to Manage SCOPIA Elite MCU User Profiles

Only administrators can manage MCU user profiles.

- [About SCOPIA Elite MCU User Types](#)..... page 10
- [Adding a User Profile](#) page 10
- [Changing a User Password](#) page 11
- [Deleting a User Profile](#) page 11

About SCOPIA Elite MCU User Types

There are two types of users who can access the SCOPIA Elite MCU administration interface: administrators and operators.

As an administrator, you have these privileges:

- Full access to the MCU Administrator interface.
- Full Operator-level access to the Conference Control interface.
- SSH access to the MCU.
- You can assign Administrator authorization to up to ten users.

As an operator, you have these privileges:

- Access to the Conference Control interface using the Create Conference window.
- Access to view details of all conferences hosted on the MCU and to cascaded conferences hosted on participating MCU units.
- Ability to create a new conference from the Conference Control access window, the Create Conference window, or the Conference Control interface.
- Moderator-level access to all conferences while moderator controls are simultaneously held by other users.
- Ability to invite other participants to a conference.
- You can assign Operator authorization to up to 50 users.

Adding a User Profile

Only administrators can add user profiles.

You can create up to ten administrator profiles and up to 50 operator profiles.

Procedure

Step 1 Access the MCU Administrator interface.

Step 2 Select Users .

Figure 2-5 Authorized Users List



| Active | Authority | Name | Review |
|-------------------------------------|---------------|-------|---|
| <input checked="" type="checkbox"/> | Administrator | admin |  |
| <input checked="" type="checkbox"/> | Operator | op |  |

 Add new user...

Step 3 Select **Add new user**.

Figure 2-6 User Profile Section



Step 4 Select an authority level from the list.

Step 5 Enter a user name.

Step 6 Enter a password and confirm it.

Step 7 Select **Apply**.

Changing a User Password

Only administrators can change a password.

The MCU comes with two preconfigured users: an administrator and an operator. The password for both preconfigured users is 'password'. We highly recommend that you change the default user password for security.

You can change a user password at any time.

Procedure

Step 1 Access the MCU Administrator interface.

Step 2 Select **Users** .

Step 3 Select the **Review** button  for the user profile you want to modify.

Step 4 Enter the new password in the **Password** and the **Confirm Password** fields.

Step 5 Select **Apply**.

Deleting a User Profile

Only administrators can delete user profiles.

You can delete user profiles at any time.


Procedure


Step 1 Access the MCU Administrator interface.

Step 2 Select Users .

Figure 2-7 Authorized Users List





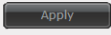
| Active | Authority | Name | Review |
|-------------------------------------|---------------|-------|---|
| <input checked="" type="checkbox"/> | Administrator | admin |  |
| <input checked="" type="checkbox"/> | Operator | op |  |

 Add new user...

Step 3 Select the Review button  for the user profile you want to remove.

Figure 2-8 User Profile Section



Operator
Password
Confirm Password
  

Step 4 Select Delete.

Step 5 Select Yes in the message that appears.

The user profile is removed from the authorized users list.

Backing Up Your SCOPIA Elite 5100 Series MCU Configuration

You can save MCU configuration settings to a file and then export this file to a storage device on your network. You can use the saved configuration file to restore the settings to the current MCU or to configure a similar MCU.

The exported file is a .zip file that includes a .val file and a .xml file.

Procedure

Step 1 Select the  icon.

Step 2 Select **Backup configuration**.

Step 3 Save the configuration settings file to your chosen location.


The .zip extension is automatically appended to the file name.

Restoring Your MCU Configuration

You can import the settings of a saved MCU configuration file from a storage device on your network. You can use the saved configuration file to restore the settings to the current MCU or to configure another MCU.

The imported file is a .zip file that includes a .val file and a .xml file.

Procedure


- Step 1** Select the  icon.
- Step 2** Select **Restore configuration**.
- Step 3** Select **Browse**.
- Step 4** Navigate to and select the configuration file (.zip) you want to import.
- Step 5** Select **Restore**.
- Step 6** Select **Continue** to upload the new configuration settings.
The restore procedure causes all current configuration to be permanently lost.
The system restarts automatically.
All active conferences are disconnected.
- Step 7** Select **OK** to complete the restore procedure.

Upgrading MCU Software

Before You Begin

Verify that there are no active conferences hosted on the MCU.

Procedure

- Step 1** Select the  icon.
- Step 2** Select **Update software**.
- Step 3** Select **Browse** and navigate to required MCU upgrade package.
The message is displayed informing you that a temporary license is used for the upgrade.
- Step 4** Click **OK**.

- Step 5** Select **Update**.
The system shuts down for a few minutes and then restarts automatically.
All active conferences are disconnected.
- Step 6** Select **Continue**.
- Step 7** As soon as the update process has finished, the MCU reboots and reloads with the new software version.
- Step 8** Verify that the MCU functions properly.

Restoring a Previous Software Version

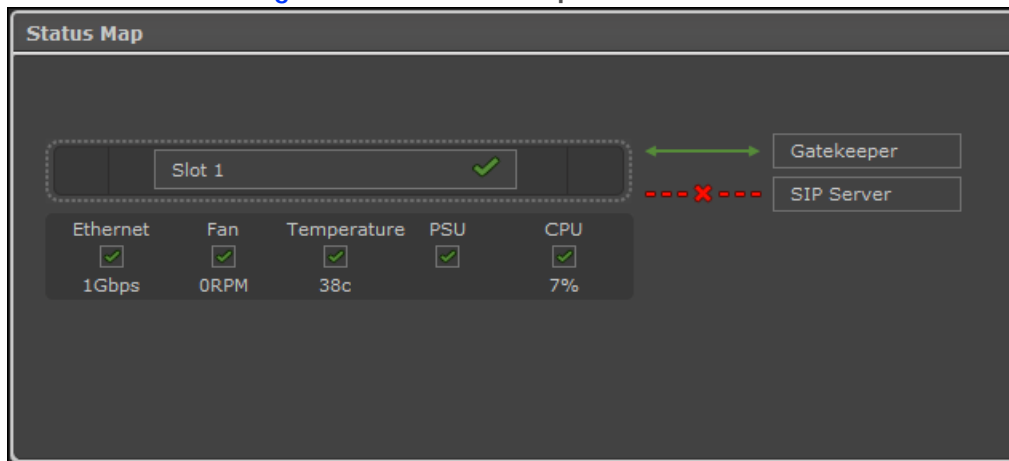
Perform this procedure to downgrade to the previous MCU software version.

We highly recommend that you contact RADVISION Customer Support prior to restoring a previous software version.

Before You Begin


- On the Status tab, verify that the MCU is connected to the network by checking the Ethernet icon.


Figure 2-9 Status Map Section of the Status Tab



- Verify that there are no active conferences hosted on the MCU by selecting Manage Conferences [Manage Conferences >](#) and checking that no conferences appear in the Conference List.

Procedure

- Step 1** (Recommended) Save the current MCU custom configuration by performing these steps:
 - a. In the MCU web user interface, select the maintenance icon .
 - b. Select Backup configuration and save the generated .zip file.

- Step 2** Perform the following steps:
- In the MCU Administrator interface, select the maintenance icon .
 - Select **Rollback software**.

Note: Restoring the previous version may take up to 15 minutes.

- Step 3** After reset, the previous release is installed on the MCU.
- The downgrade process returns the MCU configuration back to the previous version—with the values used prior to the last upgrade.


Note: Do not import the saved configuration to the MCU, after the downgrade. An older version of the MCU configuration might not support the new configuration values.

- Step 4** Verify that the MCU functions properly:
- From an endpoint dial the MCU IP address.
You access the MCU auto attendant service which plays the video and audio prompts.
 - Press 0 to create a new conference.
 - At a prompt, enter the meeting ID and press #.
The MCU creates the conference and you see the Conference window.
 - Exit the conference by disconnecting the call.

Updating a SCOPIA Elite 5100 Series MCU License

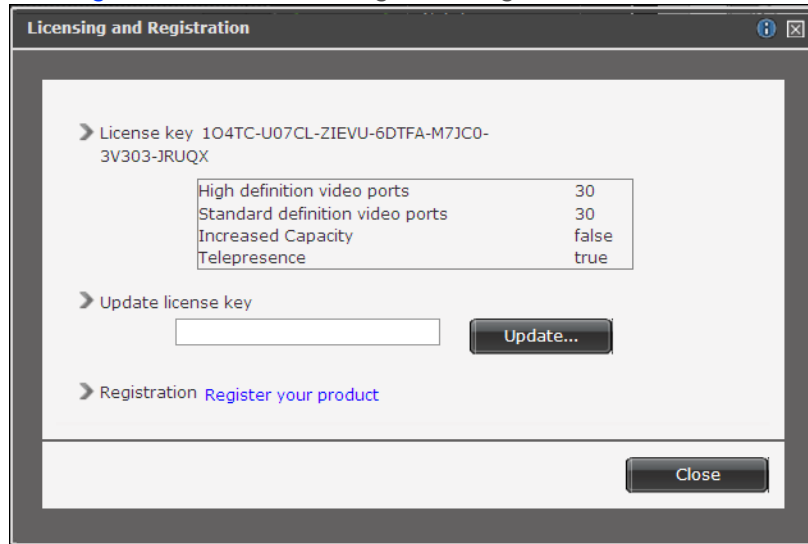
If you use a temporary license, you need to obtain a permanent license key and install it on the MCU.

Procedure

- Step 1** Obtain a permanent license:
- Access the RADVISION Internet customer page: www.radvision.com/Support.
 - Select **Product Upgrade**.
 - Select MCU Upgrade.
 - Enter information and select **Submit**.
The permanent license key will be sent to you.
- Step 2** Access the MCU Administrator interface.
- Step 3** Select the **Maintenance** button .

- Step 4** Select Licensing and Registration.
The Licensing and Registration window opens.

Figure 2-10 Licensing and Registration Window



- Step 5** Enter the permanent license key.
Step 6 Select Update.

3

How to Moderate a Conference as an Operator

As an operator, you can modify a conference using the Conference Control interface.

- [Conference Control Interface](#) page 17
- [Becoming a Moderator and Stopping Moderation](#) page 19
- [How to Control Participants in a Conference](#)..... page 19
- [Defining Conference Views](#) page 30
- [Terminating Conferences](#) page 35

Conference Control Interface

Use the SCOPIA Elite MCU Conference Control interface to perform these tasks:

- View active conferences hosted on the MCU or on cascaded MCUs.
- View conference participant details.
- Create conferences.
- Control conference participants.
- Monitor and manage conference behavior.

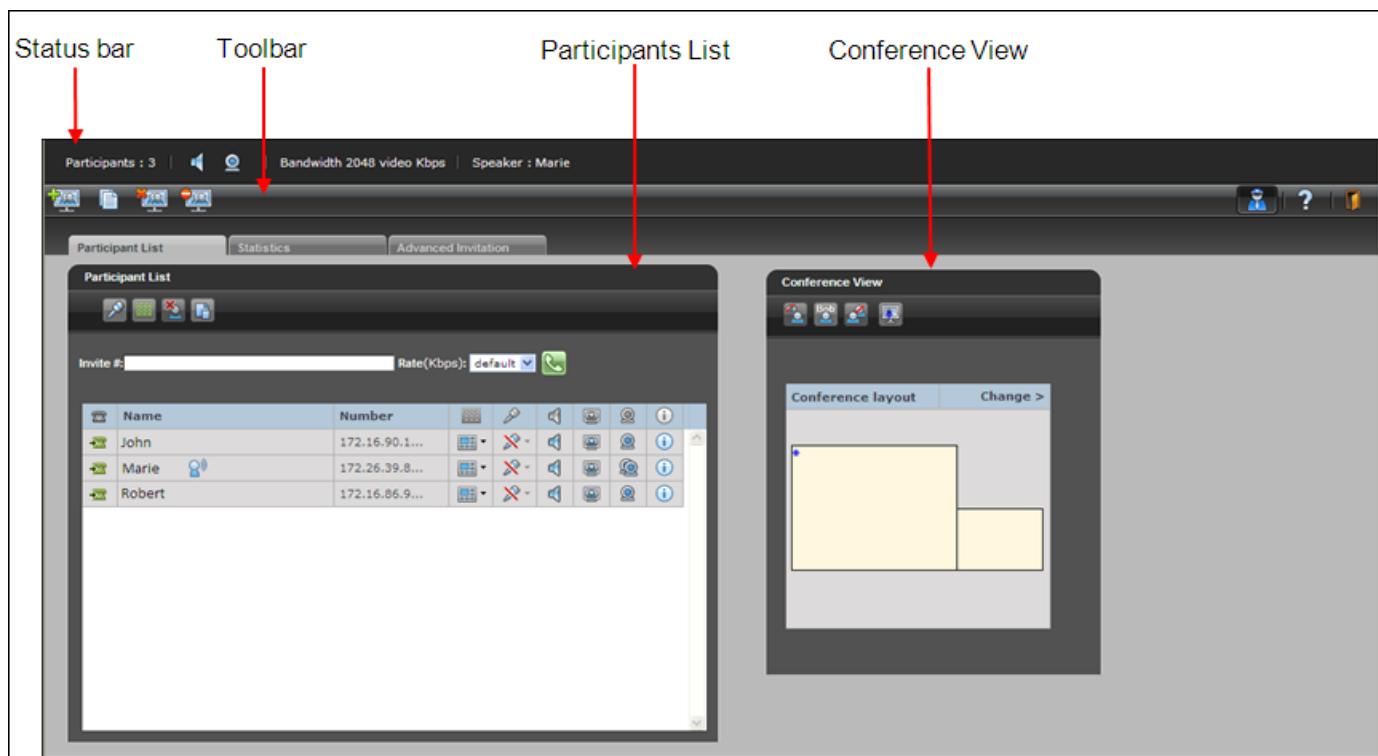
While all users can use the Conference Control interface, access to conference management features is controlled by authorization access levels: Administrator, Operator, Moderator and User.

Note: We recommend that you use the full screen mode (1024 x 768 fps) when using the Conference Control interface.

Note: You can view multiple Conference Control interface browser windows at the same time to monitor different conferences. We recommend, however, that you close windows you are not currently viewing to avoid confusion and carrying out operations in the wrong conference.

Figure 3-1 shows the Conference Control page. The layout of the Conference Control page may be different depending on whether you are a moderator or not. If you are not a moderator, you do not have access to moderator tasks. Figures in this section show all interface elements including those which are available for moderators only.

Figure 3-1 Conference Control Page






The Conference Control Page consists of the following elements:

- Status bar—Presents essential information about a conference: number of participants, used bandwidth, the active speaker, and whether video and voice are enabled for this conference.
- Toolbar—Provides access to conference-level tasks, such as creating a new conference, blocking admission to a conference or becoming a moderator.
- Participant List—Displays inclusive information about current conference participants. You use the Participant List section to control participants in the conference, as well as to invite new participants.
- Conference View—Displays the current conference video layout and provides controls for modifying it.

Becoming a Moderator and Stopping Moderation

Moderator access can be PIN-protected. Administrators and Operators can jointly be moderators simultaneously.

Procedure

- Step 1** Access the Conference Control interface by clicking .
- Step 2** Select **Become Moderator**  to take control of that conference.
- Step 3** A dialog box requesting a PIN might appear if Moderator access is PIN-protected. Enter the PIN.
- Step 4** To release control of the conference, select **Stop Moderation** .

How to Control Participants in a Conference

As a moderator, you can control participants in a conference by performing the following tasks:

- [Creating a New Conference](#) page 20
- [Muting and Unmuting Individual Participants](#)..... page 23
- [Muting and Unmuting All Participants](#) page 22
- [Changing Participant Views](#)..... page 23
- [Blocking Conference Admission](#)..... page 26
- [Viewing Participant Call Information](#)..... page 27

Creating a New Conference

Moderators, Operators, and Administrators can create a new conference either from the Login window or from the Conference Control interface.

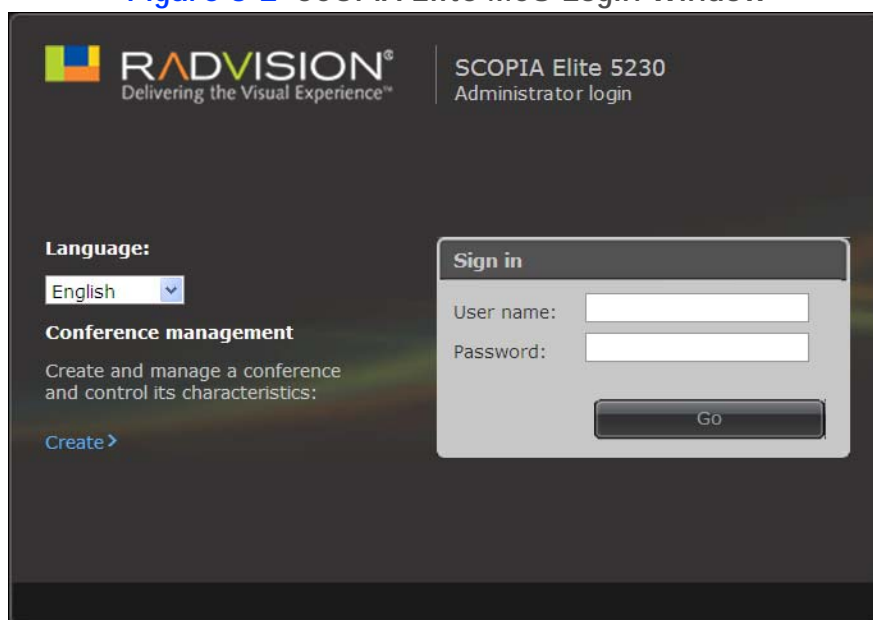
Procedure

Step 1

To create a conference from the Login page:

- a. Launch your browser and enter the IP address of the MCU.
The MCU login window appears.

Figure 3-2 SCOPIA Elite MCU Login Window





- b. Select the Create link.
- c. Select Create Conference.

-or-

Step 2

To create a conference from the Conference Control interface:

- a. Access the Conference Control interface by selecting the **Manage Conferences** button .
- b. Select Create Conference  on the toolbar.

Step 3 Select a service prefix from the list.

Figure 3-3 Create Conference Page

| Prefix | Description |
|--------|-----------------|
| 9966 | Default Service |
| | |
| | |
| | |

Complete the Conference ID by adding a unique number:

| | | | |
|-----------------------------------|----------------------|----------------------|----------------------|
| Prefix | Unique Number | Optional | |
| <input type="text" value="9966"/> | <input type="text"/> | <input type="text"/> | <input type="text"/> |
| Conference ID | | Conference PIN | Moderator PIN |

Conference Description :

Step 4 Enter an ID number for this conference in the Unique Number field.

Note: You cannot use an existing meeting number.

Step 5 (Optional) Enter a PIN for accessing the conference in the Conference PIN field.

Step 6 (Optional) Enter a PIN for moderating the conference in the Moderator PIN field.

Note: You can also configure a default moderator PIN for a service profile in the Administrator interface.

Step 7 (Optional) Enter a description of the meeting in the Conference Description field.


Step 8 (Optional) Select **Advanced** to configure additional settings for the conference such as duration, time-out and dialing policy settings.

Step 9 Select **Create** to launch your conference.

Muting and Unmuting All Participants

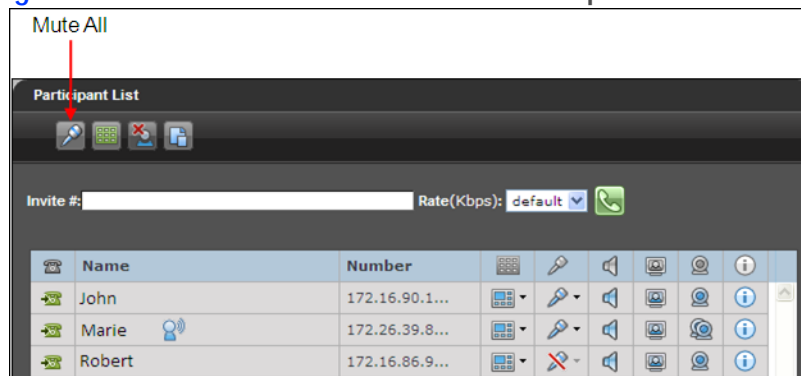
Users with moderator level access can mute or unmute all participants in the conference.

Procedure

Step 1 Access the Conference Control interface by selecting the **Manage Conferences** button .

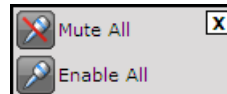
Step 2 In the Participants List section, select **Mute All**.

Figure 3-4 Mute All Button in the Participant List Section



Submenu opens.

Figure 3-5 Mute All submenu




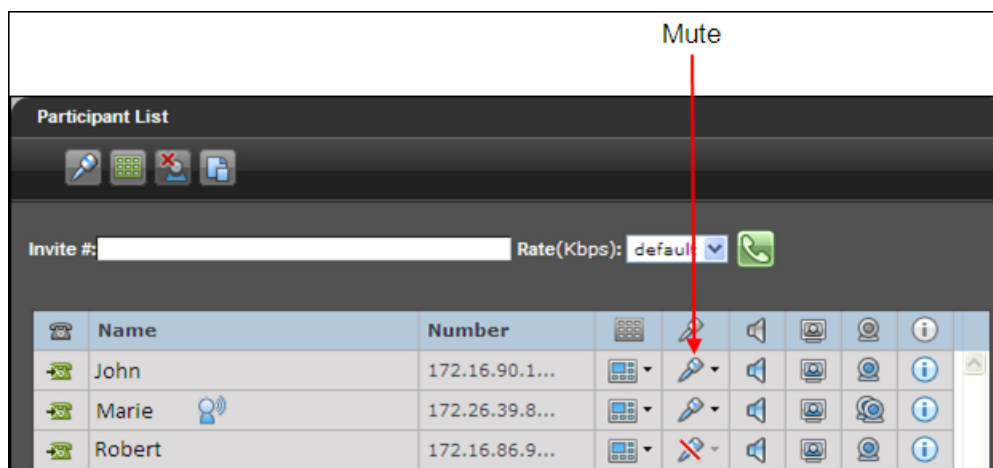
Step 3 Select the desired option.

Muting and Unmuting Individual Participants

Moderators can mute or unmute an individual participant in a conference.

Procedure

- Step 1** Access the Conference Control interface.
- Step 2** In the Participants List section, select a participant.
- Step 3** Select the microphone icon  in the Participant List row.



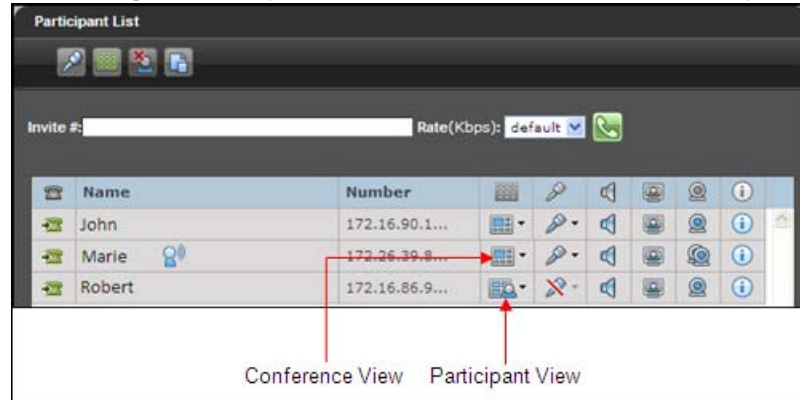
Changing Participant Views

Moderators can define the video layout for meeting participants: how many participants they see, how large the participants' video frames are and so on. These views are preconfigured on the SCOPIA Elite MCU and can be assigned both to a conference, becoming a conference view, and to an individual participant, becoming a participant's view. If multiple views are enabled for a conference, you can assign different views to participants in the same conference.

By default the conference view is assigned to all participants in a conference.

In the Conference Control interface the participant's and conference views are marked with different icons.

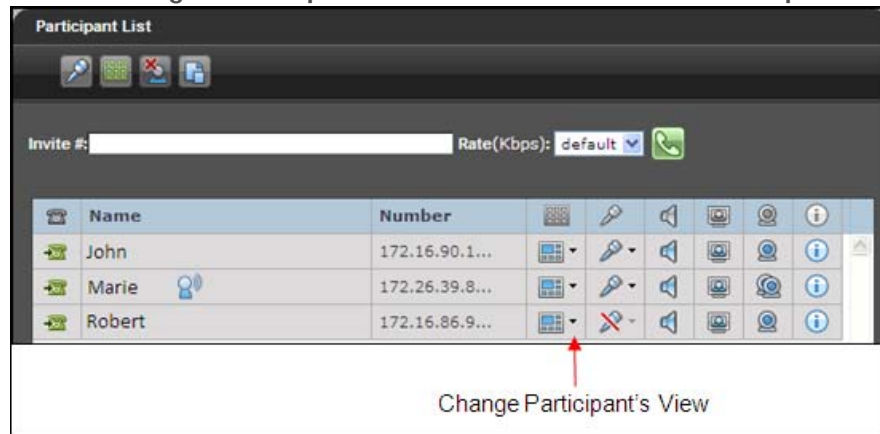
Figure 3-6 Change Participant's View button in the Participant List Tab



Procedure

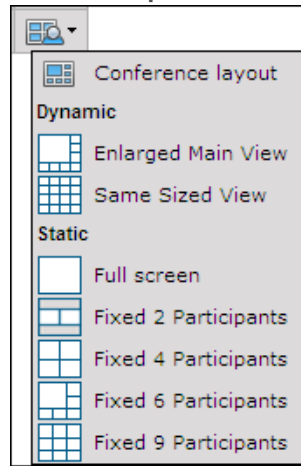
- Step 1 Access the Conference Control interface.
- Step 2 To change the view for an individual participant, perform these steps:
 - a. Select the Change Participant's View button for this participant in the Participant List Tab.

Figure 3-7 Change Participant's View button in the Participant List Tab



- b. From the submenu, select the necessary option.

Figure 3-8 Participant View Submenu

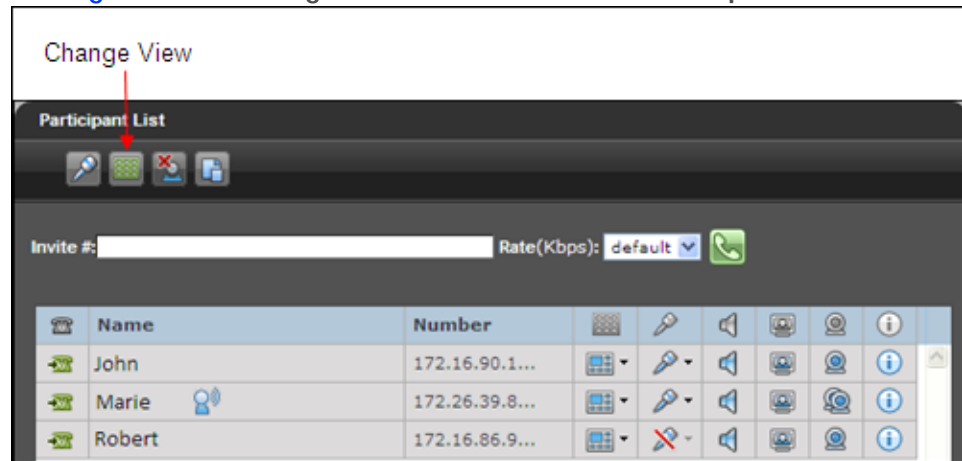


Step 3

To change the view for several participants or all participants, perform these steps:

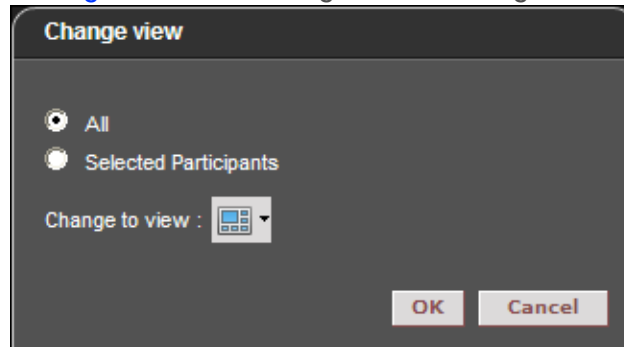
- a. If you want to change the view for several participants, select these participants in the Participant List by holding down the CTRL key and clicking participants' names.
- b. In the Participant List Tab, select the Change View button.

Figure 3-9 Change View button in the Participant List Tab



- c. In the Change view dialog box, select All or Selected participants.

Figure 3-10 Change view dialog box




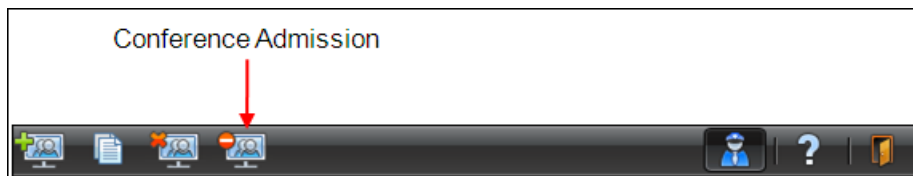
- d. From the Change to view list, select the desired view.
- e. Select OK.

Blocking Conference Admission

Users with moderator-level access can block the admission of additional participants in a conference in the Conference Control interface. As a result, no further participants can join the conference.

Procedure

- Step 1** Access the Conference Control interface by selecting the Manage Conferences button .
- Step 2** On the toolbar, select Conference Admission.



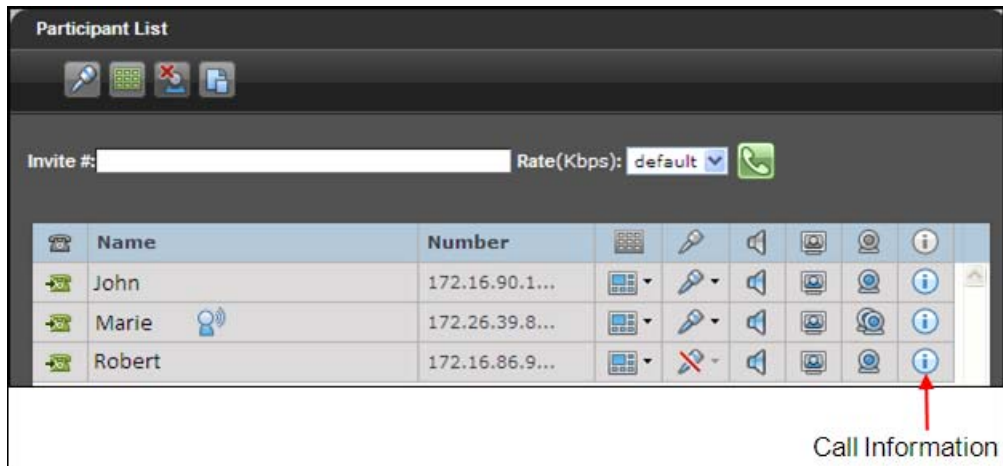
To re-admit participants, select Conference Admission again.

Viewing Participant Call Information

You can view participant call statistical information.

Procedure

- Step 1** Access the Conference Control interface.
- Step 2** Select the required participant in the Participant List tab.
- Step 3** Select the information icon in the Participants List section for the selected participant.



The Call Information dialog box for the specified participant appears.

Table 3-1 lists the statistics displayed.

Table 3-1 Participant Information Statistics

| Group | Field | Description |
|------------------------|-----------------------------|---|
| Endpoint Information | Type | Participant endpoint type. |
| | IP address | Participant endpoint IP address. |
| | Description | Participant description (displays the endpoint vendor identifier, if available). |
| | Connect time | Time at which the participant connected to the conference. |
| Basic Call Information | | |
| Audio | Audio Codec | Audio codecs sent to and received by the participant. |
| | Audio rate | Total audio bandwidth sent and received by the participant. |
| | Audio Packets loss count | Total lost audio packets sent to and received by the participant. |
| | Audio Jitter (curr/min/max) | Accumulated audio packets sent to and received from the participant. Includes the current value and average values for the minimum and maximum number of packets sent to and received from the participant. |

| Group | Field | Description |
|---------------------------|----------------------------------|---|
| Video | Video codec | Video codecs sent to and received by the participant. |
| | Video resolution | Picture size of video sent and received by the participant. |
| | Video frame rate | Frame rate of video sent to and received by the participant. |
| | Video rate | Total video bandwidth sent and received by the participant. |
| | Video packets loss count | Total lost video packets sent to and received by the participant. |
| | Video jitter (curr/min/max) | Accumulated video packets sent to and received from the participant. Includes the current value and average values for the minimum and maximum number of packets sent to and received from the participant. |
| | 2nd video codec | The second video codec sent to and received by the participant (if used). |
| Data | Data protocol | Indicates whether the protocol used if the participant is participating in data sharing. |
| Advanced Call Information | | |
| Audio | Audio out of order packets count | Total audio packets sent to and received from the participant out of sequence. |
| | Audio packets count | Total audio packets sent and received by the participant. |
| | Audio bytes count | Total audio bytes sent and received by the participant. |
| | Audio IP address | IP address and port to which audio is sent to the participant. |

| Group | Field | Description |
|-------|----------------------------------|--|
| Video | Video out of order packets count | Total video packets sent to and received from the participant out of sequence. |
| | Video fast update requests count | Total Video Fast Update (VFU) requests sent and received by the participant. |
| | Video packets count | Total video packets sent and received by the participant. |
| | Video bytes count | Total video packets sent and received by the participant. |
| | Video IP address | IP address and port to which video is sent to the participant. |
| | Qualivision state | Encryption level used. |
| Data | Data IP address (Local/Remote) | IP address of the participant data sharing terminal. |
| | FECC | Indicates whether Far End Camera Control is in use. |

Defining Conference Views

The following sections describe how to define the conference view using the Conference Control interface:

- [Changing the Conference View](#) page 31
- [Displaying Participant Names in Frames](#)..... page 32
- [Enabling the Self-see Feature](#) page 33

Changing the Conference View

In the Conference View section, users with moderator-level access can change the main layout for the current conference.

Procedure


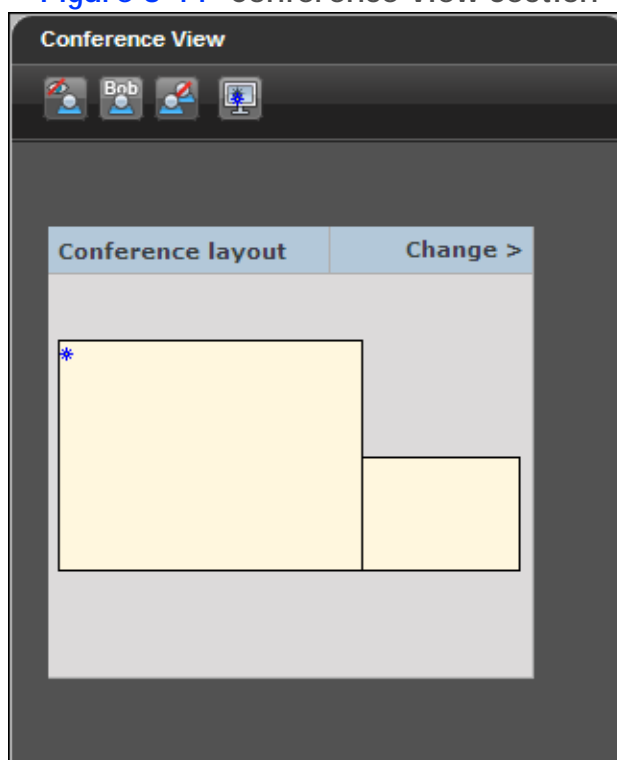
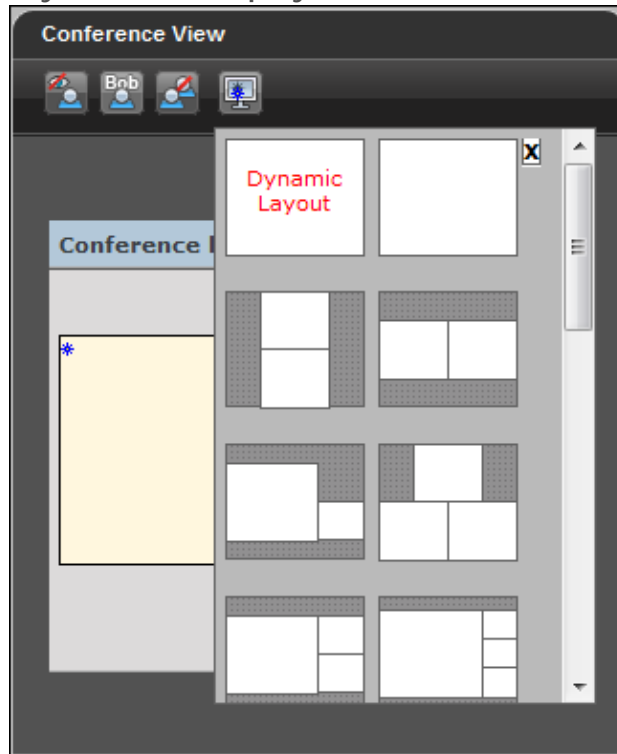
- Step 1** Access the Conference Control interface by selecting the Manage Conferences button .
- Step 2** In the Conference View section of the Participant List tab, select **Change**.

Figure 3-11 Conference View Section



The layout menu appears, displaying a list of available layouts for the current conference.

Figure 3-12 Layout Menu Displayed in the Conference View Section



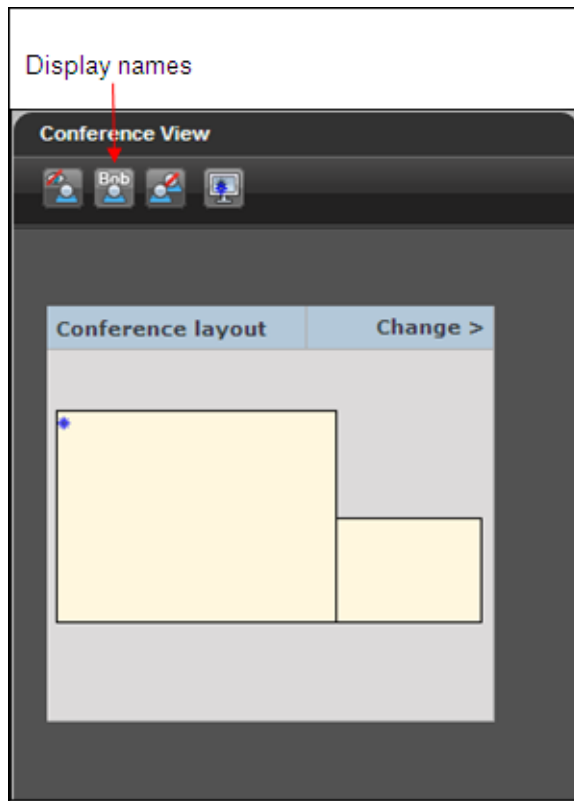
- Step 3** Select the layout of your choice.
The conference adjusts to the new selection.

Displaying Participant Names in Frames

In the Conference View section, users with moderator-level access can optionally display the name of endpoints or participants in specific positions of the video layout frame.

Procedure

- Step 1** Access the Conference View section of the Participant List tab.
- Step 2** Select **Display names** button in the Conference View section.



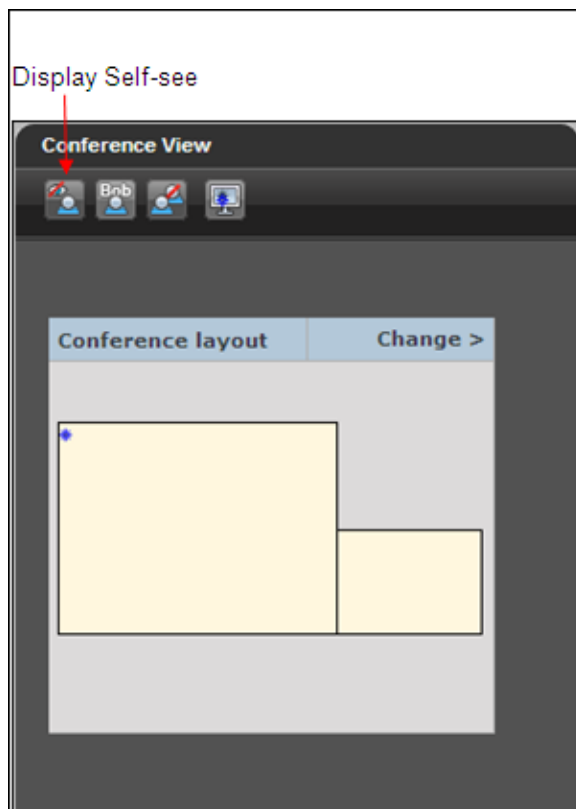
The names are displayed at the bottom of the participants' frames in a conference.

Enabling the Self-see Feature

The self-see feature allows participants see their own video in a separate frame displayed as part of the conference video. By default, this feature is disabled.

Procedure

- Step 1** Access the Conference View section of the Participant List tab.
- Step 2** Select the **Self-see mode** button.



All participants using the conference view can see themselves in the conference video.

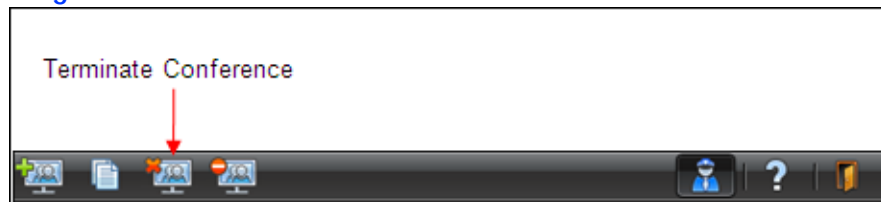
Terminating Conferences

You can terminate a conference at any time. This action disconnects all participants from the conference.

Procedure

- Step 1** Access the Conference Control interface.
- Step 2** Select Terminate Conference.

Figure 3-13 Terminate Conference Button on the Toolbar



- Step 3** Click OK in the confirmation message.
The conference is closed.



www.radvision.com

About RADVISION

RADVISION (NASDAQ: RVSN) is the industry's leading provider of market-proven products and technologies for unified visual communications over IP and 3G networks. With its complete set of standards based video networking infrastructure and developer toolkits for voice, video, data and wireless communications, RADVISION is driving the unified communications evolution by combining the power of video, voice, data and wireless - for high definition video conferencing systems, innovative converged mobile services, and highly scalable video-enabled desktop platforms on IP, 3G and emerging next generation networks. For more information about RADVISION, visit www.radvision.com

USA/Americas

T +1 201 689 6300

F +1 201 689 6301

infoUSA@radvision.com

EMEA

T +44 20 3178 8685

F +44 20 3178 5717

infoUK@radvision.com

APAC

T +852 3472 4388

F +852 2801 4071

infoAPAC@radvision.com