

iVIEW Suite Add-on
for IBM Lotus SameTime 8.5.1



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Delivering the Visual Experience[®]

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1

OVERVIEW

The RADVISION iVIEW Suite Add-on for IBM Lotus SameTime 8.5.1 enables IBM Lotus SameTime users to:

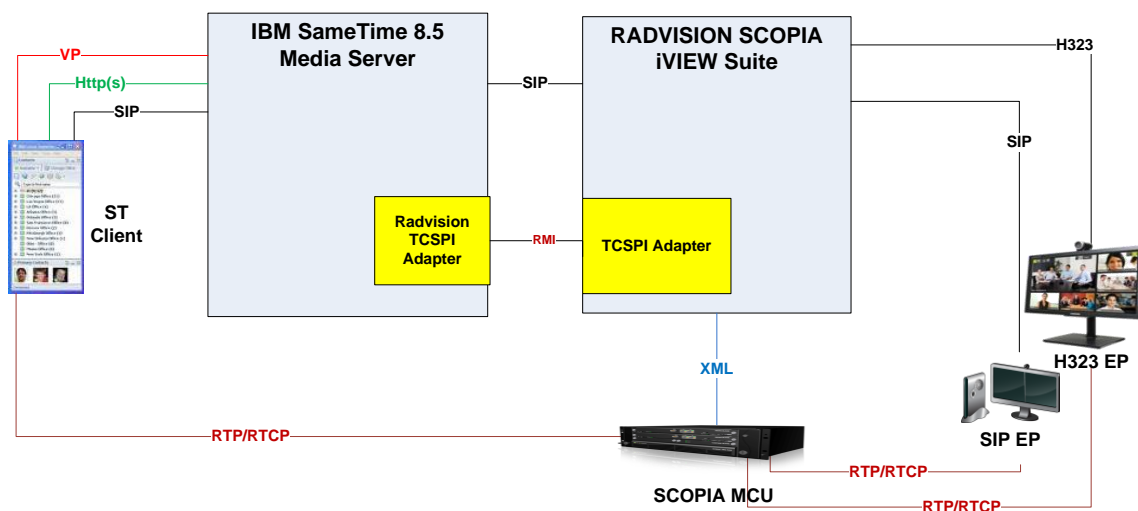
- Use RADVISION MCUs as the conferencing server for a “best of breed” HD conferencing experience.
- Connect to traditional video conferencing arenas such as room systems, telepresence systems, public switched telephone network-based end points, and others.

The add-on is deployed on IBM Lotus SameTime servers. While SameTime users are unaware of this add-on during regular audio and video call operations, users can still operate the SameTime client as usual to initialize and receive audio/video calls.

2

INTEGRATING RADVISION COMPONENTS WITH THE SAMETIME ARCHITECTURE

The figure below describes how the SameTime architecture integrates with RADVISION video conferencing solutions.



VP: Virtual Places is the proprietary protocol used to connect the Lotus Sametime Gateway with the local community on the Lotus Sametime server.

IBM Lotus SameTime Telephony Conferencing Service Provider Interface (TCSPI) is a set of APIs third-parties use to integrate their products with IBM Lotus SameTime services. As third party, RADVISION implements the TCSPI interface and deploys this implementation on IBM Lotus SameTime servers.

3

INSTALLING THE iVIEW SUITE SAMETIME ADD-ON

IBM SameTime administrators must install a TCSPi adapter (iVIEW Add-on) to be accessed when community users request audio/video features from the SameTime Connect client or Meetings client.

VERIFICATION PREREQUISITES

The complete solution consists of both systems: IBM Lotus SameTime 8.5.1 and RADVISION iVIEW Suite. Before you deploy the add-on component, both systems should be installed and configured properly according to the respective installation guides.

VERIFY IBM LOTUS SAMETIME CONNECTION

The administrator must verify that the Lotus SameTime client user can initiate and receive video/audio call.

← Procedure

1. Log in to Lotus SameTime client
2. Select a user in the **Contacts List**
3. Right-select and pop-up the window
4. Start the video call
5. The invitee receives the calling invitation and selects **Join**
6. Ensure both users can see each other via desktop video

VERIFY RADVISION iVIEW SUITE CONNECTION

The administrator must verify a H.323/SIP endpoint can successfully dial into the virtual room of a Lotus SameTime client user, and that the audio/video is of acceptable quality.

Procedure

1. Log in to iVIEW Suite.
2. Verify the LDAP connection is configured.
3. Verify LDAP users are synchronized.
4. Verify Lotus SameTime client user has own virtual room.
5. Verify “SIP is enabled on MCU” and iVIEW (192.168.225.121) is defined as SIP server on MCU:

The screenshot shows a configuration window titled "Enable SIP protocol" with a checked checkbox. It contains two main sections: "Default SIP domain" and "SIP server".

- Default SIP domain:** A text input field containing "ocs2007.com".
- SIP server:**
 - A radio button for "Locate automatically" is unselected.
 - A radio button for "Specify" is selected.
 - Fields for "IP address" (192.168.225.121), "Port" (5060), and "Type" (UDP) are present.
- Use registrar:** A checkbox is unselected, with fields for "IP address" (0.0.0.0), "Port" (5060), and "Type" (UDP) below it.

A "More" link is visible in the bottom right corner of the window.

6. H.323/SIP endpoints successfully dial into the system through virtual room number.
7. Verify the meeting is held on the SCOPIA MCU.

INSTALLATION FILES

The following files are provided with the product:

AudioConference.properties: Under properties folder, defines customized telephony messages, such as Virtual Room ID, Moderator PIN, etc.

ConferenceManager.properties: Defines the property collection relevant to IBM Lotus SameTime, such as third party services, service provider capabilities, etc.

Rv-tcspi-adapter.jar: The java library which implements the TCSPi interface and communicates with RADVISION iVIEW Suite through a proprietary protocol.

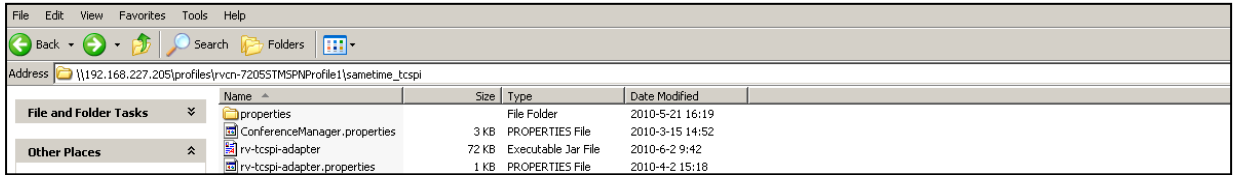
Rv-tcspi-adapter.properties: Defines the property collection relevant to RADVISION iVIEW Suite, such as iVIEW Suite Host URL.

INSTALLING THE ADD-ON

The administrator must manually copy the installation files to the SameTime Media Server in the

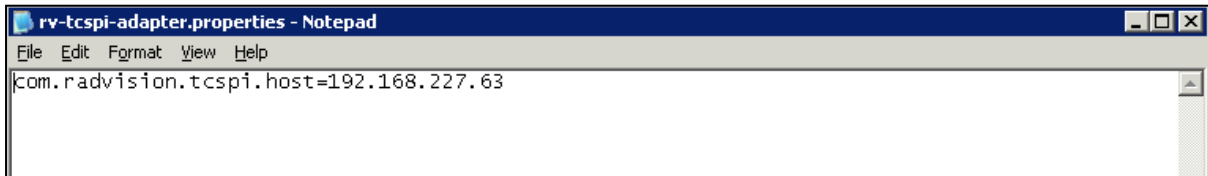
`${USER_INSTALL_ROOT}\WebSphere\AppServer\profiles\${HOST_NAME}\MediaPNProfile1\sametime_tcspi` subdirectory, as follows:

USER_INSTALL_ROOT: C:\Program Files\IBM
HOST_NAME is rvcn-iVIEW-7205:



CONFIGURING THE ADD-ON

Open the **rv-tcspi-adapter.properties** file and configure iVIEW Suite Host IP as follows:



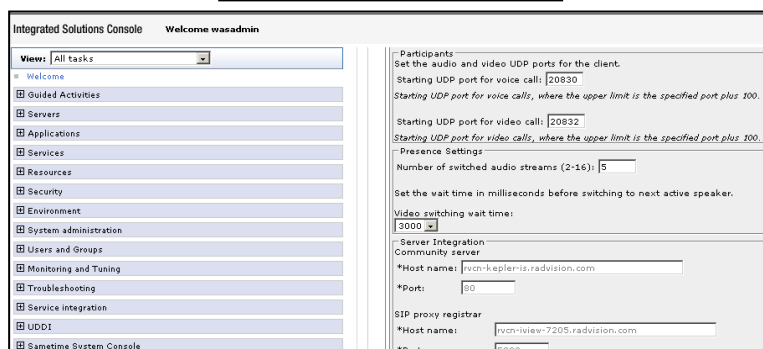
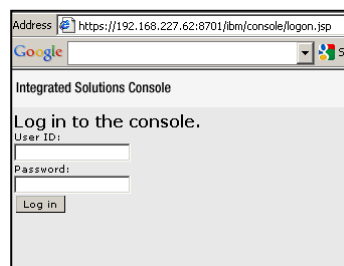
Note: The Conference Manager Property is the default IBM Lotus SameTime configuration. Generally, you should not edit this file as it is preconfigured according to the RADVISION add-on implementation. For more information about this property, refer to IBM integration guide.

CONFIGURING THE LOTUS MEDIA SERVER

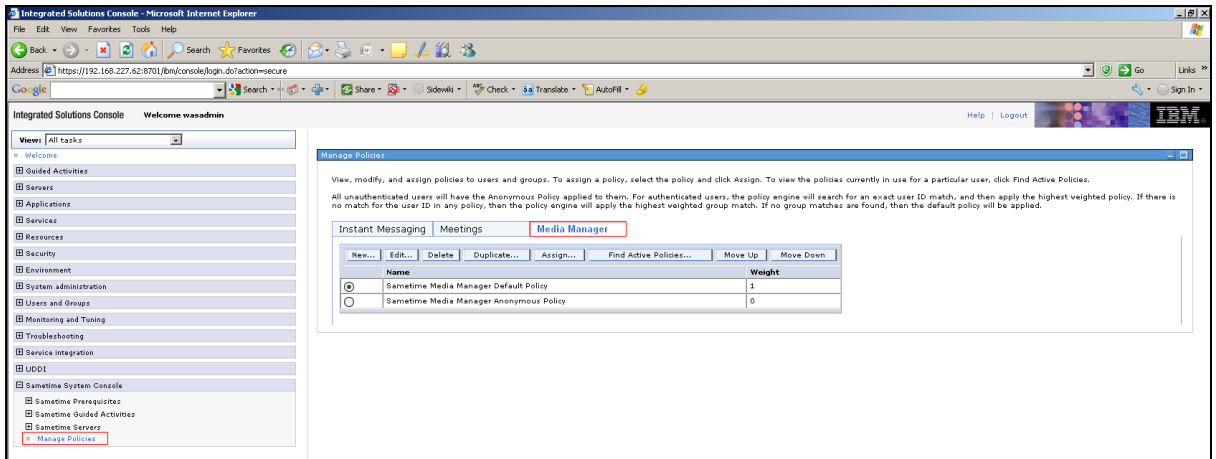
The following procedure is required to enable the third party provider to integrate with the Lotus SameTime server.

Procedure

1. Log in to SSC (SameTime Server Console) **http://hostname:8700/ibm/console** or **https://hostname:8701/ibm/console**.



2. Expand SameTime System Console > Manage Policies.



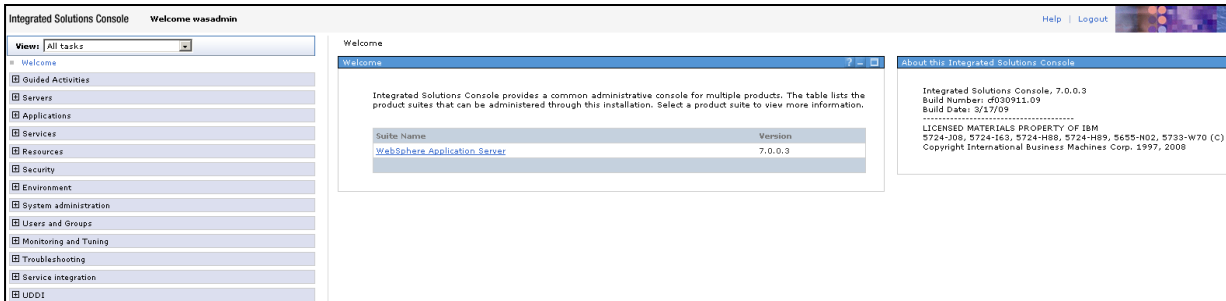
3. Select **Edit** under **Media Manager** and enable “**Allow access to third-party service provider capabilities from the contact lists, instant messages, and meetings**”.

4. Select **OK** to save the configuration.

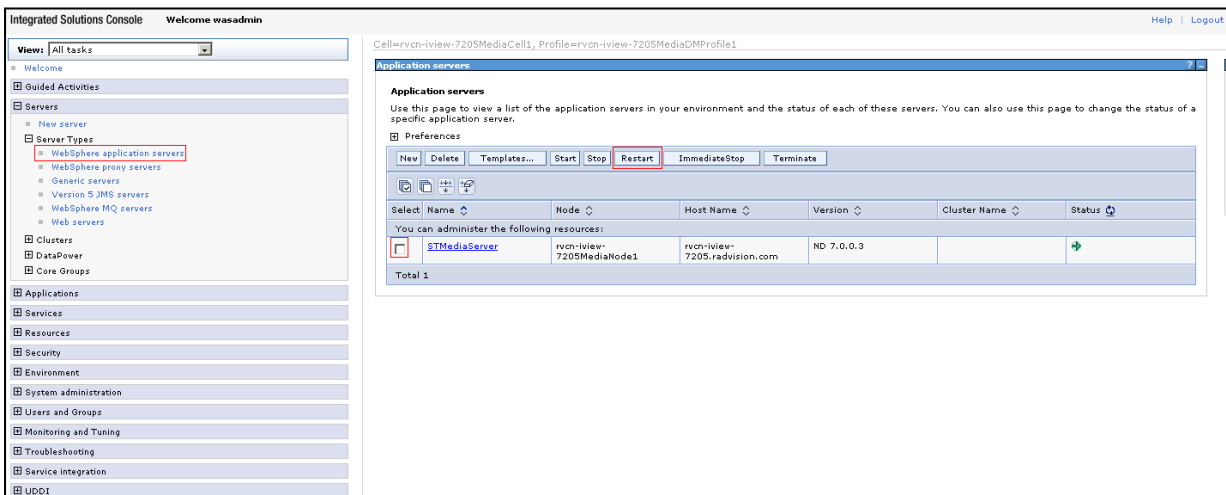
5. Restart the Media Server.

a. Log in to IBM Media Server **http://hostname:8800/ibm/console** or **https://hostname:8801/ibm/console**.

b. Expand **Servers > Server Types > WebSphere application servers**, and select **STMediaServer**.

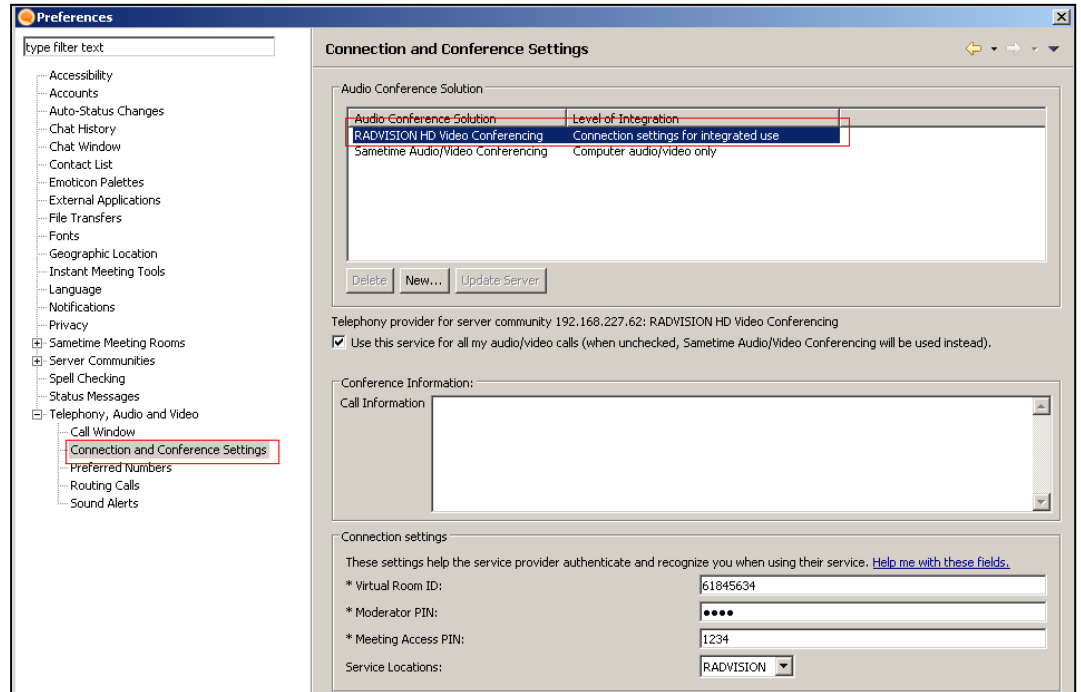


c. Restart this resource.



VERIFYING THE INSTALLATION AND CONFERENCE CONNECTION

Login into Lotus SameTime Connect Client and verify that “**RADVISION HD Video Conference Service**” displays as follows:



4

DEPLOYING THE ADD-ON

The IBM SameTime administrator must install a TCSPI adapter (iVIEW Add-on) to be accessed when community users request audio/video features from the SameTime Connect client or Meetings client.

CONFIGURING RADVISION MCU ADVANCED SETTINGS

In order to work with the IBM SameTime client, some default parameters on the SCOPIA Classic MCU should be reset.

SCOPIA Classic Audio Escalate Settings

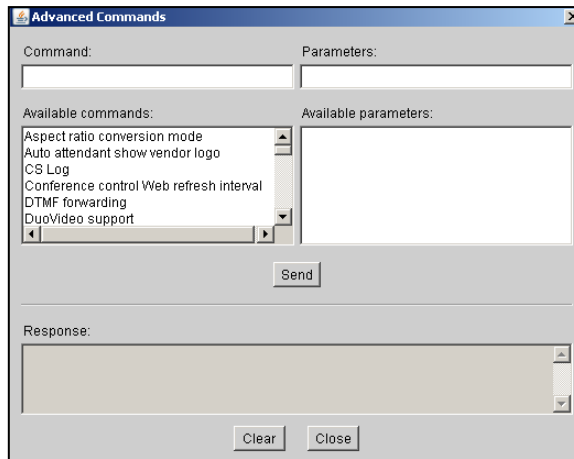
To support the audio escalate feature, the **Calltypeoverride** command must be reset to override the default value. **Calltypeoverride** should be enabled (“1”).

Procedure

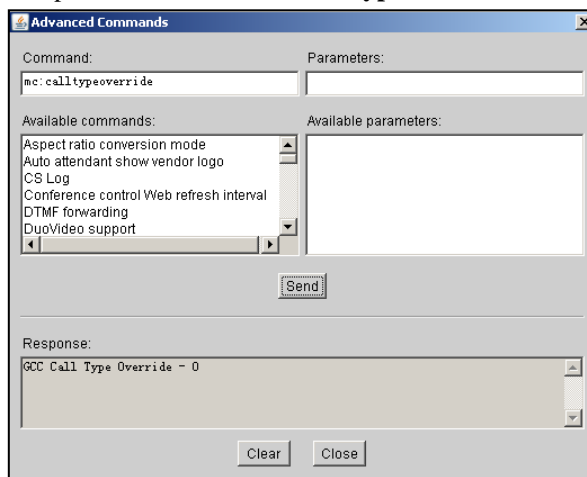
1. Access the MCU web user interface and open the **Advanced parameters** window.

The screenshot displays the 'Advanced' settings page of the SCOPIA Classic MCU. The left sidebar contains a menu with options: Basics, Auto Attendant, Conference Control, Themes, Quality of Service, Dynamic Layouts, Alert Indications, and Advanced (which is currently selected). The main panel is titled 'Settings' and includes a sub-menu with 'Media Processing', 'Protocols', 'Services', and 'Event Log'. The 'Advanced' section contains several configuration options: a checkbox for 'When using the Web, only operators or administrators can create a conference' (unchecked); three dropdown menus for 'Participants can join the conference using' (set to 'Invite and dial-in'), 'Ad hoc conferences terminate when' (set to 'Last participant leaves'), and 'External conference authorization policy' (set to 'None'); a section for 'Dial-in delimiters' with 'PIN delimiter (# *)' set to '***' and 'Invite delimiter (# *)' set to '**'; and an 'Other' section with a checked checkbox for 'Disconnect participants on communication (ICMP) failure' and a dropdown for 'Disconnect on:' set to 'Audio failure'. At the bottom of the main panel, there are two buttons: 'Commands...' (highlighted with a red box) and 'Telnet...'. A 'Help' link is located in the bottom right corner of the main panel.

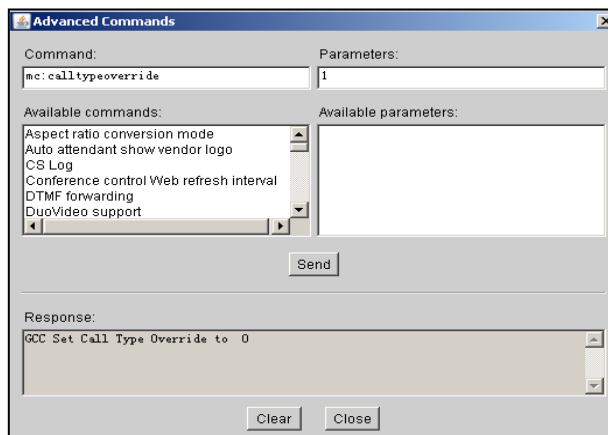
2. Select **Commands**.



3. In the command window, verify command and reset. Before resetting the value, the administrator must check the current value of the command:
 - View the current **Calltypeoverride** command value.
 - Input command name **mc:calltypeoverride** in the command field.



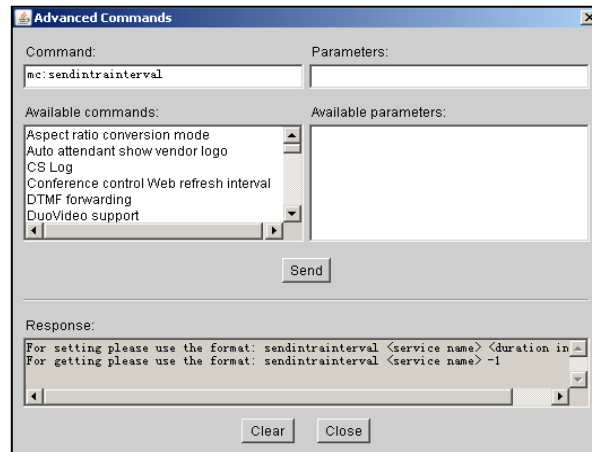
4. Select **Send** and the current Value and Command Description is displayed.
5. View the **Calltypeoverride** command value. Reset **Calltypeoverride** command value to 1.



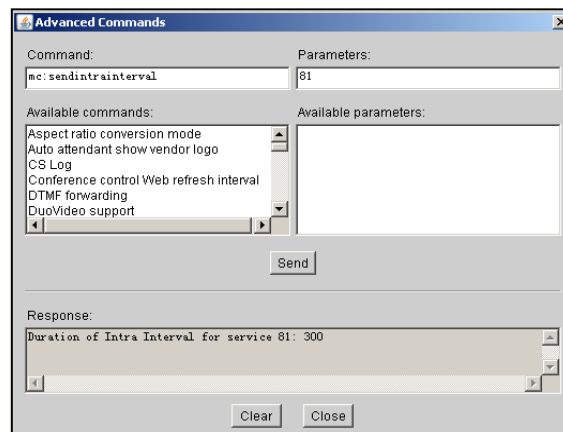
SCOPIA Classic Intra Frame Interval Settings

Procedure

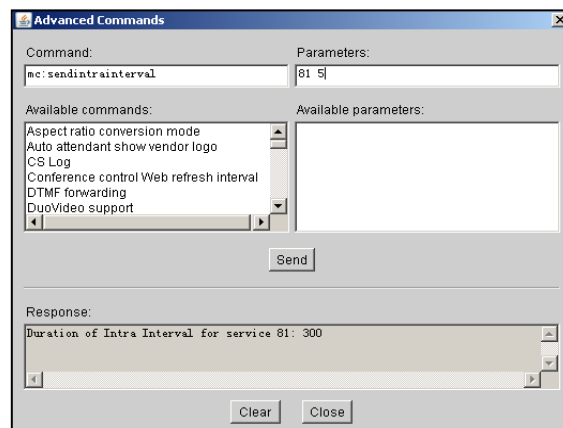
1. View “sendintrainterval” command value.
2. Input command name “sendintrainterval” in the command field.



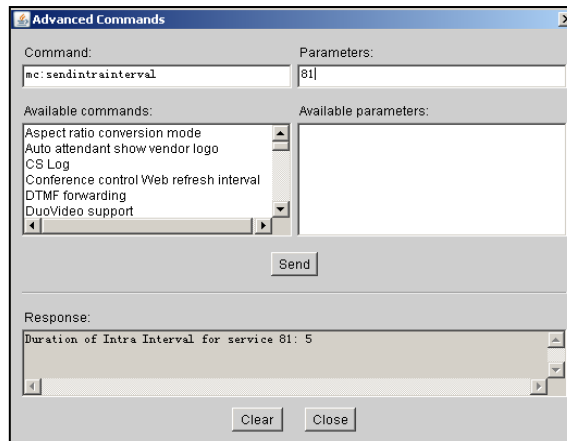
3. Select **Send** and the current Value and Command Description are displayed.
4. Input service parameter 81 (81 is an example; configure related services according to real deployment scenarios) and then send:



5. The current value is shown. **Re-set sendintrainterval command value to 5.**
6. Set the command and value, then select **Send** button.



7. Select **Send** and verify new value.



CONFIGURING IBM SAMETIME USER CLIENTS

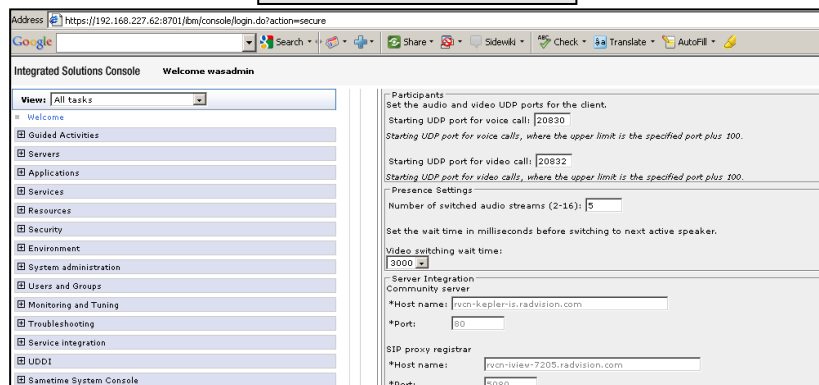
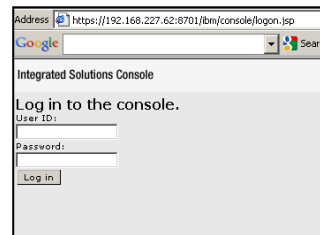
Lotus SameTime allows configuration of several parameters effecting the bandwidth and performance and security of audio and video conferences. These parameters default to values which should work for most environments, but they can be enabled to meet the specific needs of the organization deploying the IBM-RADVISION integration solution.

Configuring Audio and Video Settings

To configure the IBM Lotus SameTime audio and video settings:

➤ Procedure

1. Login into SSC (SameTime Server Console)
http://hostname:8700/ibm/console or **https://hostname:8701/ibm/console**.

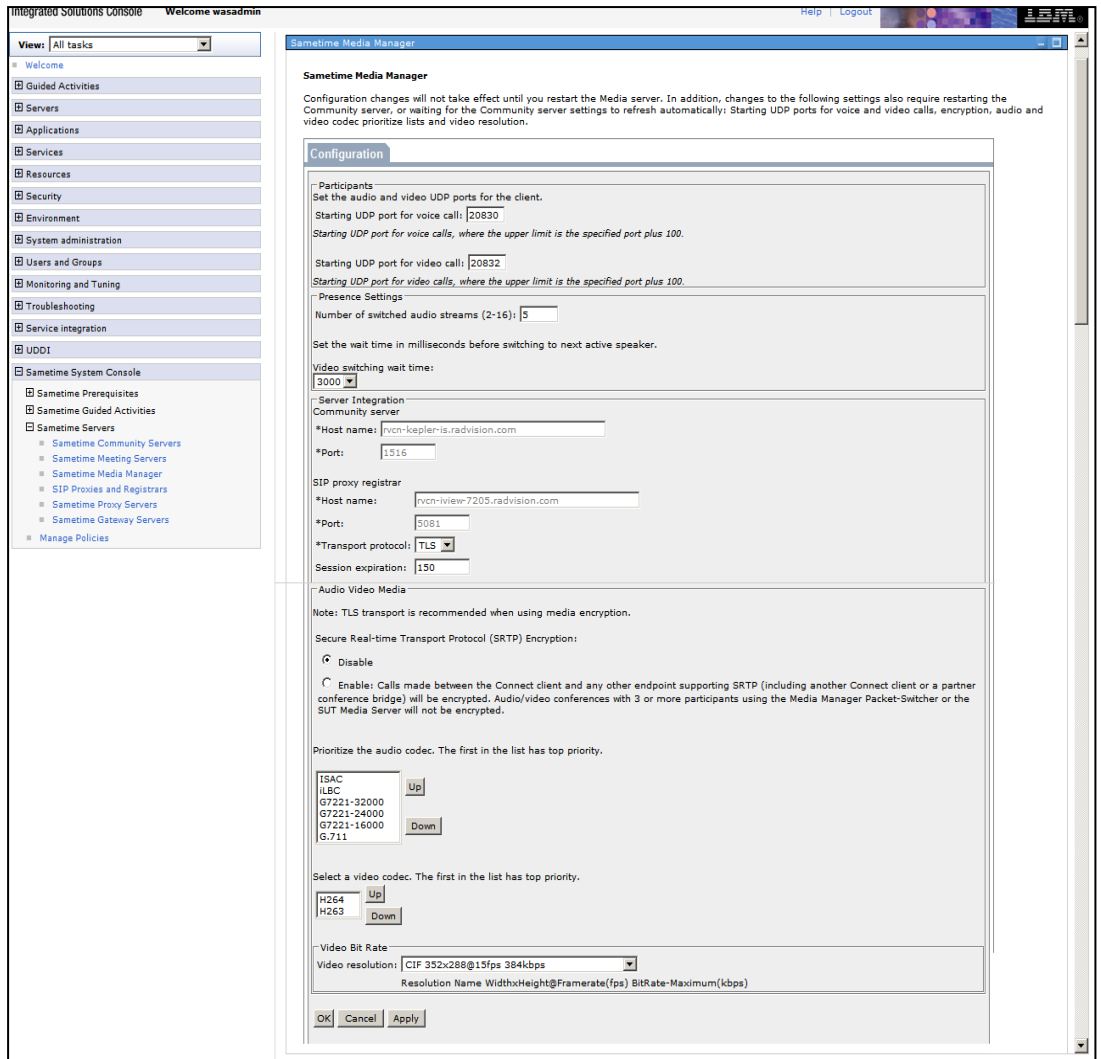


- Expand **SameTime System Console > SameTime Servers > SameTime Media Manager**.

The screenshot shows the 'Integrated Solutions Console' interface. On the left is a navigation tree with a 'View: All tasks' dropdown. The tree is expanded to 'SameTime System Console' > 'SameTime Servers' > 'SameTime Media Manager', which is highlighted with a red box. The main content area on the right is titled 'SameTime Media Manager' and contains a table with the following data:

Deployment Name	Cell/Cluster	Version	Connection Properties
STMM205	Cell	8.5.0.0	Edit

- Select on the **STMM205** link.



4. The administrator can change the setting indicated above according to his specific network deployment and according to the required video resolution. The default resolution is CIF 352X288@15 fps 384Kbps. The following tables detail the recommended options for different video resolutions which will provide the best video experience when working with RV infrastructure:

When working with SCOPIA Elite MCU, select one of the following options according to your deployment specifications:

ST 8.5.1 Video Resolutions
HD-720p 1280X720@30 fps 1024 Kbps
HD-720p 1280X720@30 fps 768 Kbps
432p 720X432@30 fps 512 Kbps
W288P 512X288@30 fps 384 Kbps
CIF 352X288@30 fps 768 Kbps
CIF 352X288@30 fps 512 Kbps
CIF 352X288@15 fps 384Kbps

When working with SCOPIA Classic MCU, select one of the following options according to your deployment specifications:

ST 8.5.1 Video Resolutions
CIF 352X288@30 fps 768 Kbps
CIF 352X288@30 fps 512 Kbps
CIF 352X288@15 fps 384Kbps

5. Select **OK** after editing the settings.
6. Restart the Media Server.

ABOUT CALL-IN TEMPLATES FOR IBM SAMETIME USER CLIENTS

With Call-In Information Templates, the SameTime client or external users can learn how to join the user meeting through alternative routes. In general, templates include the following information:

- SDS Connectivity
- Room System Connectivity
- Gateway Connectivity

SAMPLE 'CALL-IN INFORMATION' TEMPLATE

At the time of the meeting, please choose an access method described below:

Meeting PIN: **<Access Pin>**

To connect from your desktop:

Go to <http://<SDS URL>/scopia?ID=<Virtual Room ID>&autojoin>

For other options (including connecting with presentation only or watching the webcast), go to <http://<SDS URL>/scopia?ID=<Virtual Room ID>>

We recommend you install the desktop client beforehand.

To install the client, go to <http://<SDS URL>/scopia?client>

To connect from an IP terminal, please dial: **<Virtual Room ID>**

To connect from a PSTN/ISDN/Mobile terminal, please dial one of the following access numbers:

<Country Name>: +<GW Number>

<Country Name>: +<GW Number>

<Country Name>: +<GW Number>

When prompted for a number, enter **<Virtual Room ID>**

Note the following regarding the use of Call-In Information Templates:

Red text will be replaced by a user's specific configuration and by general access information.

<Access Pin> (Optional)

The Access Pin will be replaced by the same value configured in the **Passcode** textbox by the user in the SameTime Connect Client.

<Virtual Room ID>

The Virtual Room ID will be replaced by the same value assign to the user and configured in the **Client ID** text box in the SameTime Connect Client.

<Country Name>: +<GW Number> (Optional)

The Gateway list should be replaced by a list of available gateways configured in iVIEW. Login iVIEW as an administrator and browse to **Admin > Resource Management > Gateway** where you can find the list of all the available gateways.

<SDS URL> (Optional)

The SDS URL will be replaced by the actual SCOPIA Desktop Server URL.

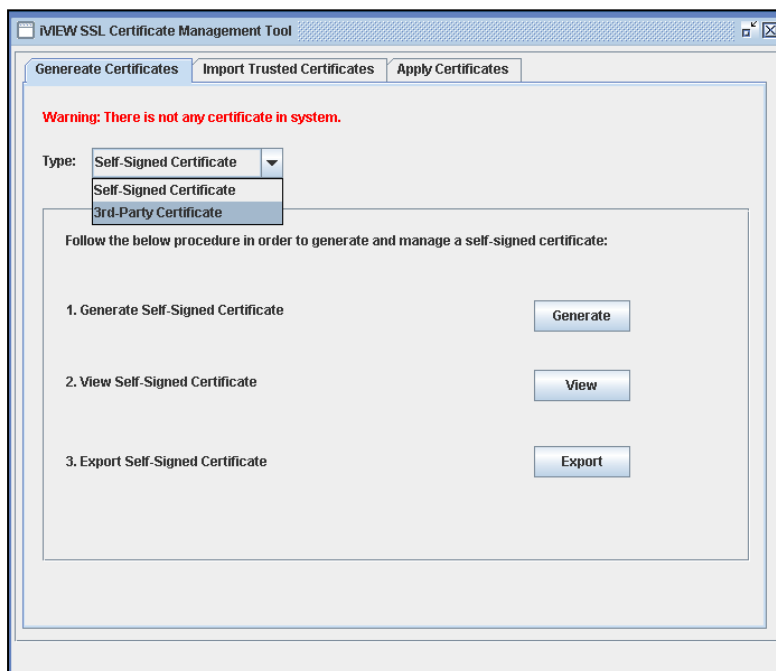
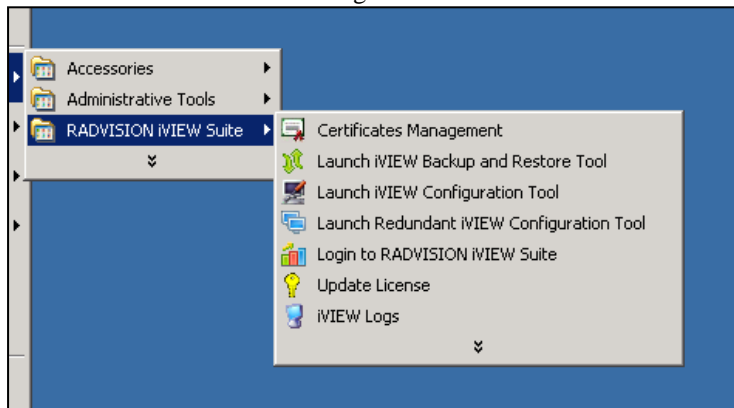
The administrator should replace light blue parameter according to real deployment information, and then send this template to all SameTime client users, and user will update call-in information on each client manually.

SECURED DEPLOYMENT - TLS AND SRTP CONFIGURATION

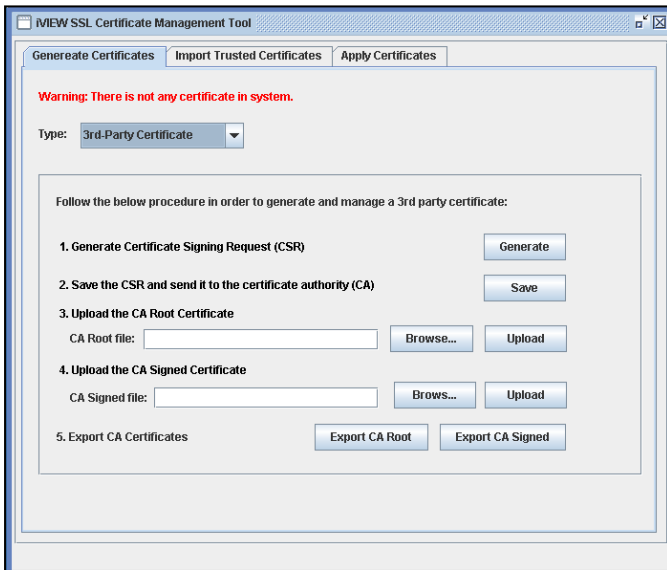
Please note that this feature is available only when working with RADVISION SCOPIA Elite MCU. It is not supported by RADVISION SCOPIA Classic MCU.

Generate iVIEW Certificates

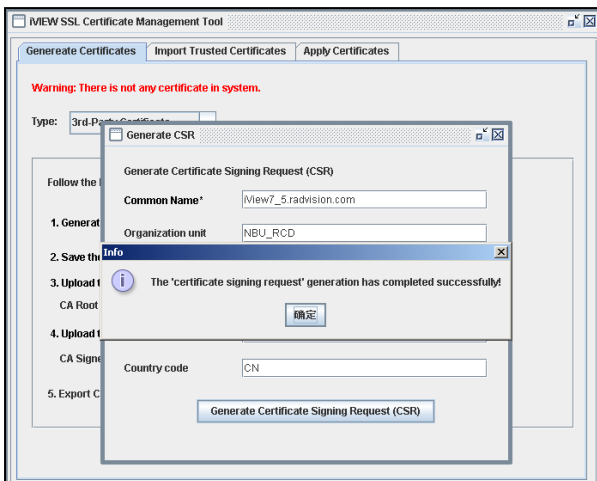
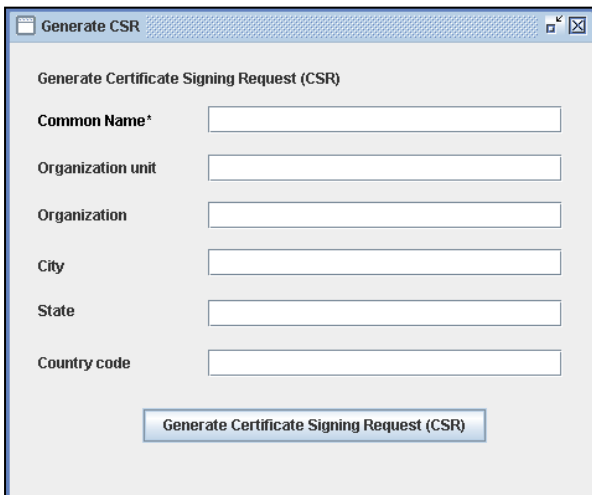
1. Lunch iVIEW Certificates Management Tool.



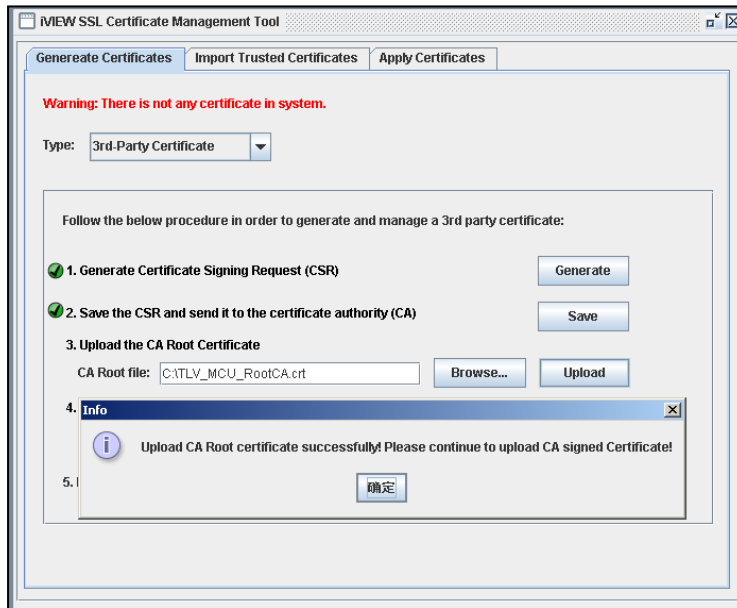
2. Select **3rd-Party Certificate**. This tool shows the window below.



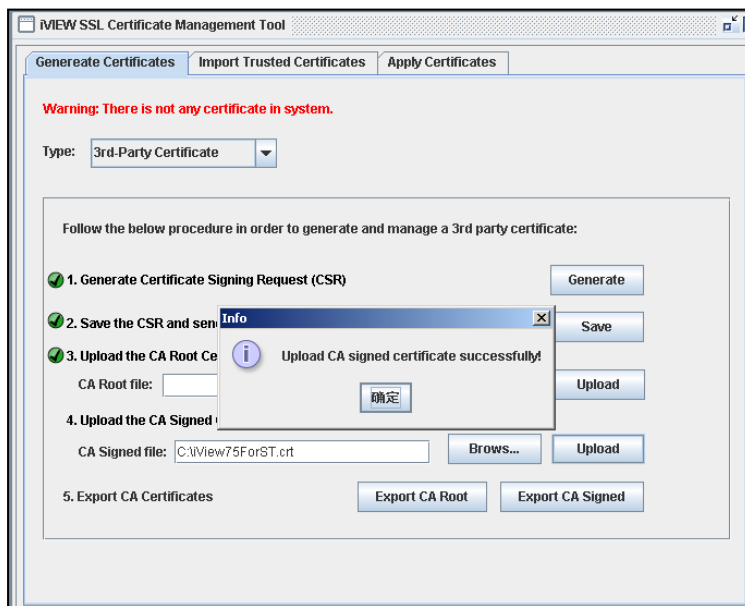
3. On the Generate Certificate Signing Request (CSR) tab, select the **Generate** button, and then complete the following fields: **Common Name**, **Organization unit**, **Organization**, **City**, **State**, **Country code**, and select the **Generate Certificate Signing Request (CSR)** button.



4. In the Save the CSR and send it to the certificate authority (CA) step, select the **Save** button.
5. After getting the certificates back from CA, in the Upload the CA Root Certificate step, select the **Browse** button and load the CA root certificate file first, and then select the **Upload** button.



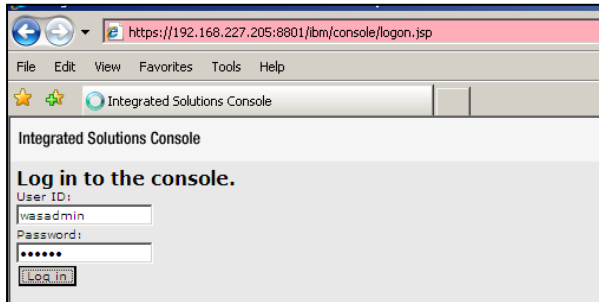
6. In the Upload the CA Signed Certificate step, select the **Browse** button and load the CA signed certificate file first, then select the **Upload** button.



7. In Export CA Certificates step, select the **Export CA Root** and the **Export CA Signed** buttons in order to export CA root certificates and CA signed certificates.
8. Go to the **Apply Certificates** tab, and select the **Apply Certificates** button.

Upload iVIEW Certificates as IBM Sametime Trusted Certificates

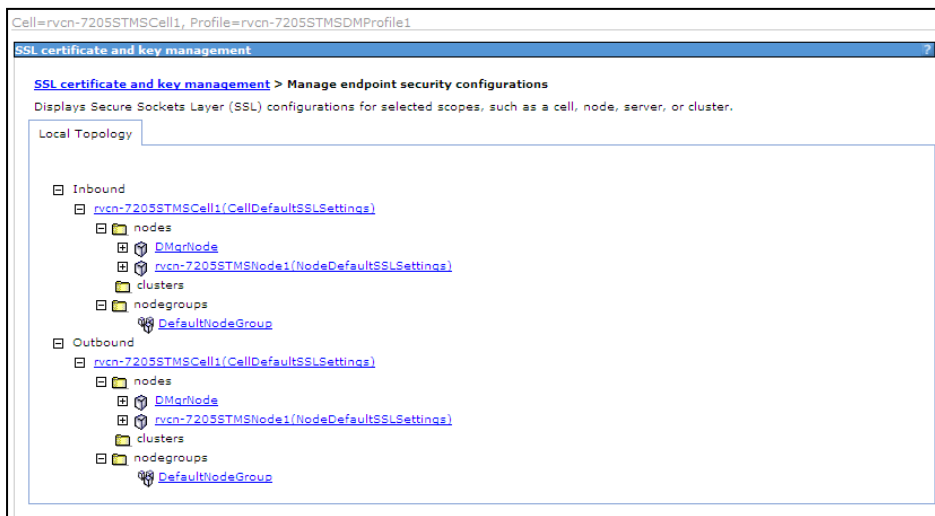
1. Go to IBM ST media server web.



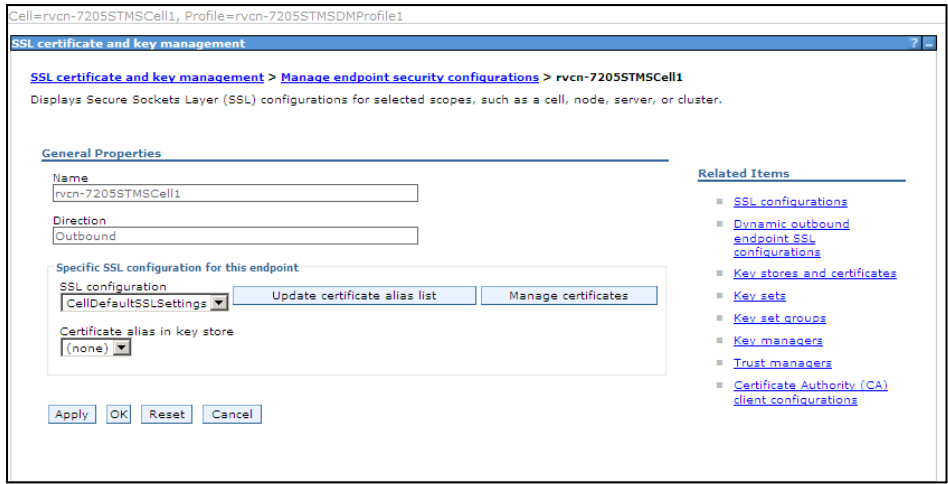
2. Select **Security**>**SSL certificate and key management**



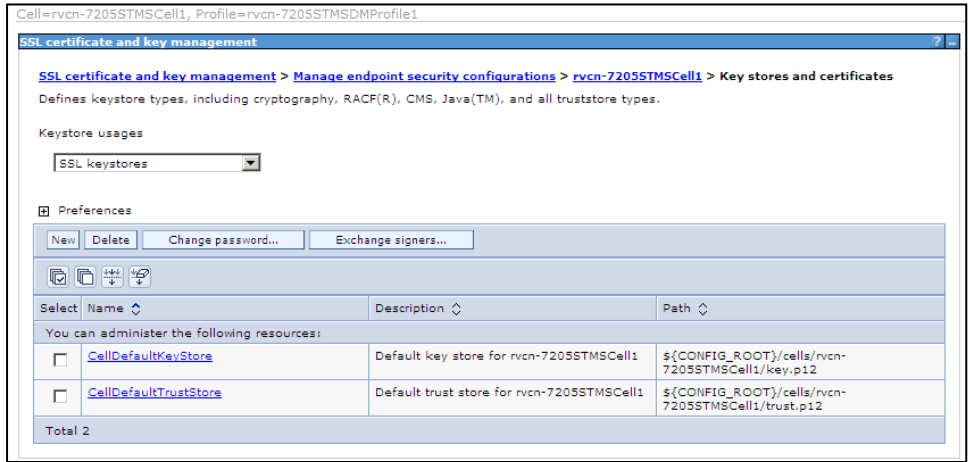
3. Select **Manage endpoint security configurations**. The system shows the page below:



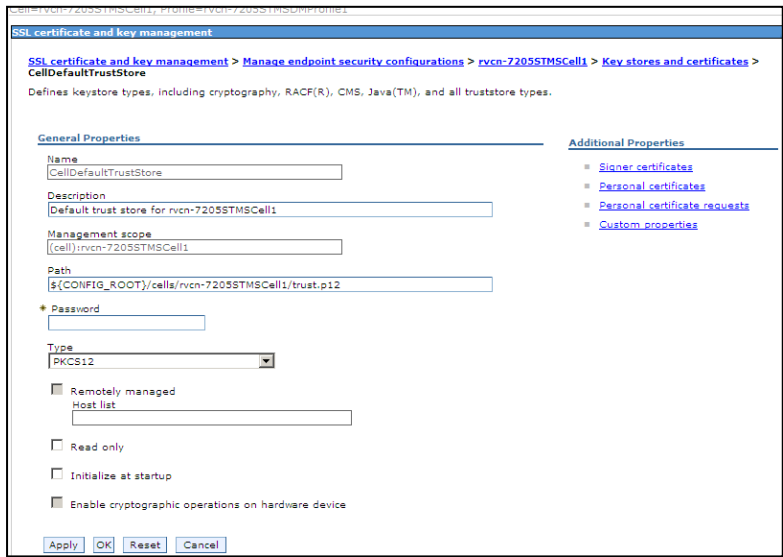
4. Select the **Outbound** tree **rvcn-7205STMSCell1(CellDefaultSSLSettings)**. The system shows the page below:



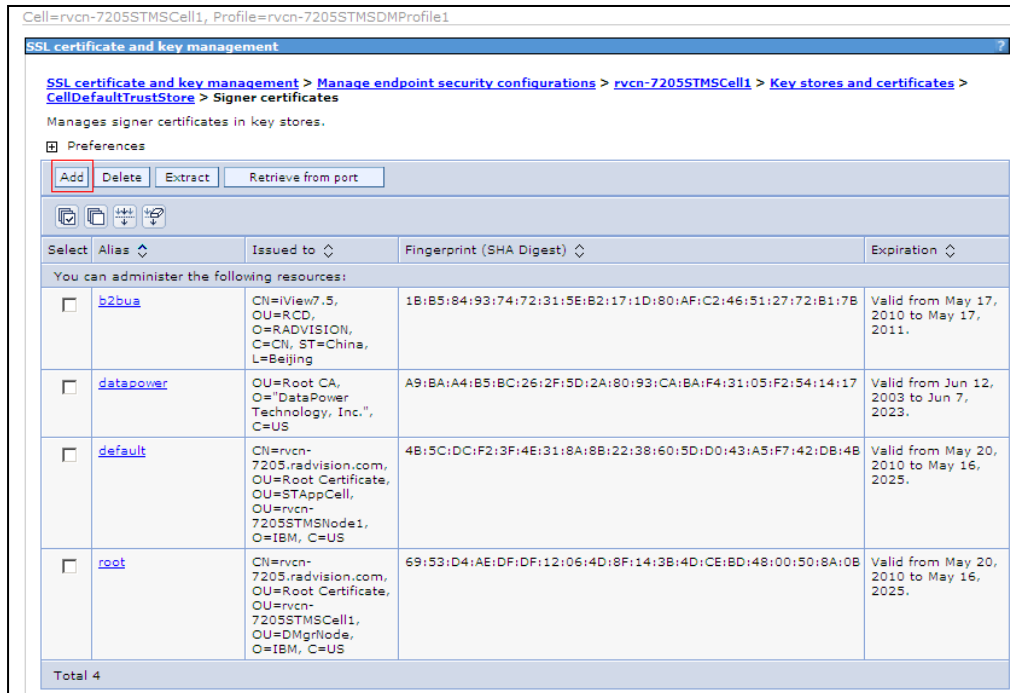
5. Select **Key stores and certificates**. The system shows the page below:



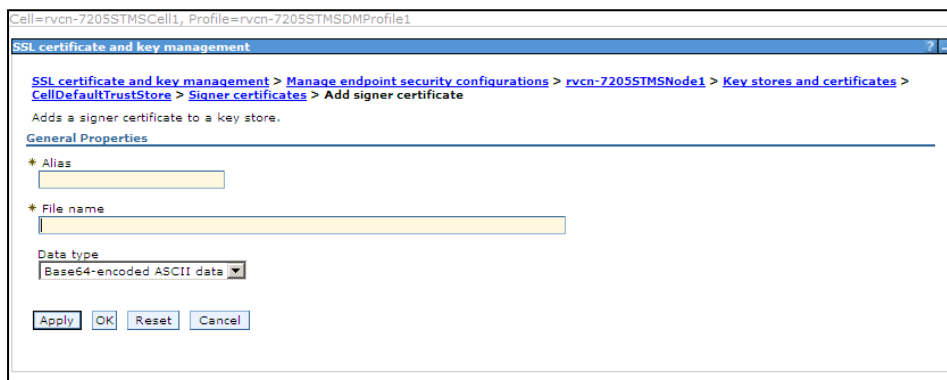
6. Select **CellDefaultTrustStore**. The system shows the page below:



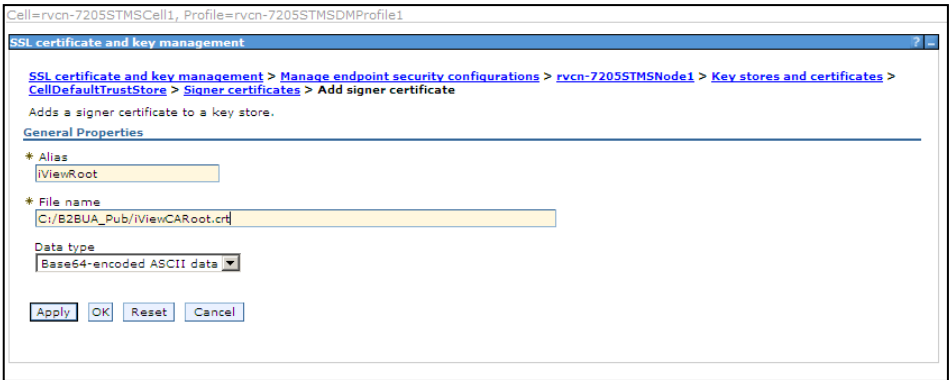
7. Select **Signer certificates**. The system shows the page below:



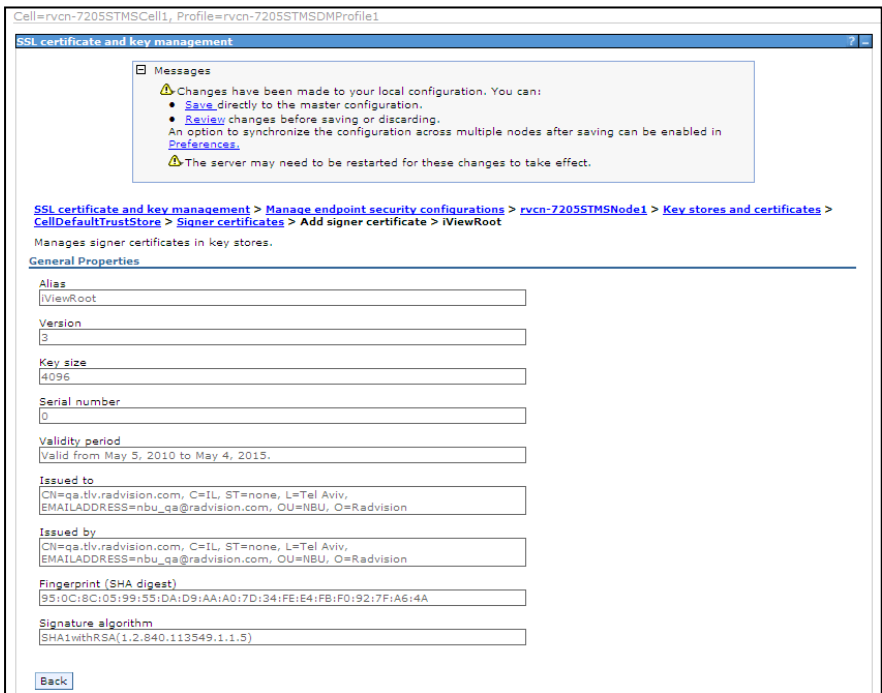
8. Select **Add** button, You can import iVIEW certificates into ST media server. Please note, if your iVIEW certificates are 3rd-Party Certificates, please import the iVIEW CA root certificate and iVIEW CA signed certificates. The File Name field should be the local path of IBM ST media server. It means you have to copy the iVIEW certificates into IBM ST media server. The system shows the page below:



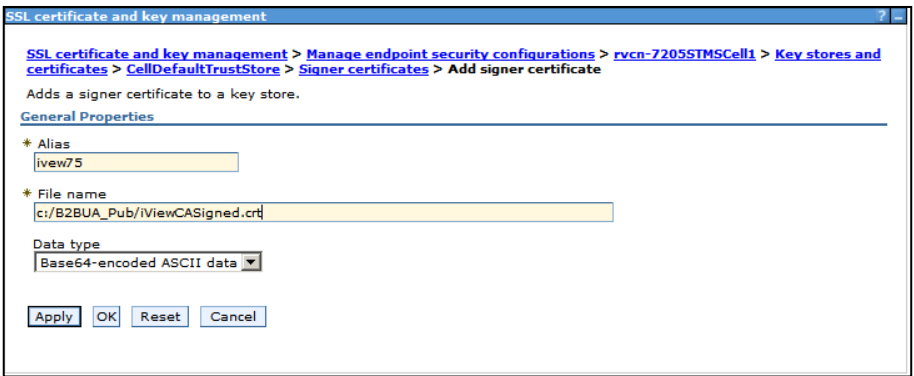
9. Input alias & file name fields, then select the **Apply** button.



10. Select the **Save** link in order to save the change.



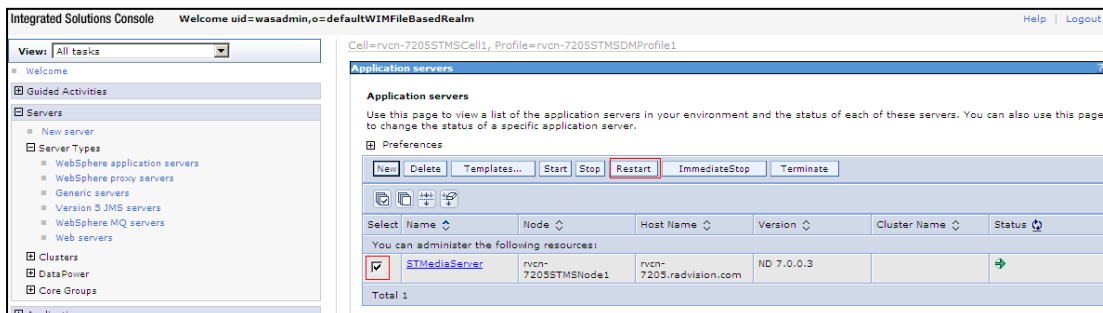
11. Do the same step for iView CA signed certification



12. Click the **Save** link in order to save the change.



13. Restart IBM ST media server. Go to the **Servers->Servers Types->WebSphere application servers** link and select the ST media server. Select the **Restart** button.



Download IBM Sametime Certificates

1. Under step 5 of Upload iVIEW Certificates as IBM Sametime Trusted Certificates section, select **CellDefaultKeyStore**. The system shows the below page:

Cell=rvcn-7205STMSCell1, Profile=rvcn-7205STMSDMPProfile1

SSL certificate and key management

SSL certificate and key management > Manage endpoint security configurations > rvcn-7205STMSCell1 > Key stores and certificates > CellDefaultKeyStore

Defines keystore types, including cryptography, RACF(R), CMS, Java(TM), and all truststore types.

General Properties

Name: CellDefaultKeyStore

Description: Default key store for rvcn-7205STMSCell1

Management scope: (cell):rvcn-7205STMSCell1

Path: \${CONFIG_ROOT}/cells/rvcn-7205STMSCell1/key.p12

* Password:

Type: PKCS12

Remotely managed

Host list:

Read only

Initialize at startup

Enable cryptographic operations on hardware device

Additional Properties

- Signer certificates
- Personal certificates
- Personal certificate requests
- Custom properties

Specifies whether the key store needs to be initialized before it can be used for cryptographic operations. If enabled, the key store is initialized at server start up.

Apply OK Reset Cancel

2. Select **Personal certificates**. The system shows below page:

Cell=rvcn-7205STMSCell1, Profile=rvcn-7205STMSDMPProfile1

SSL certificate and key management

SSL certificate and key management > Manage endpoint security configurations > rvcn-7205STMSCell1 > Key stores and certificates > CellDefaultKeyStore > Personal certificates

Manages personal certificates.

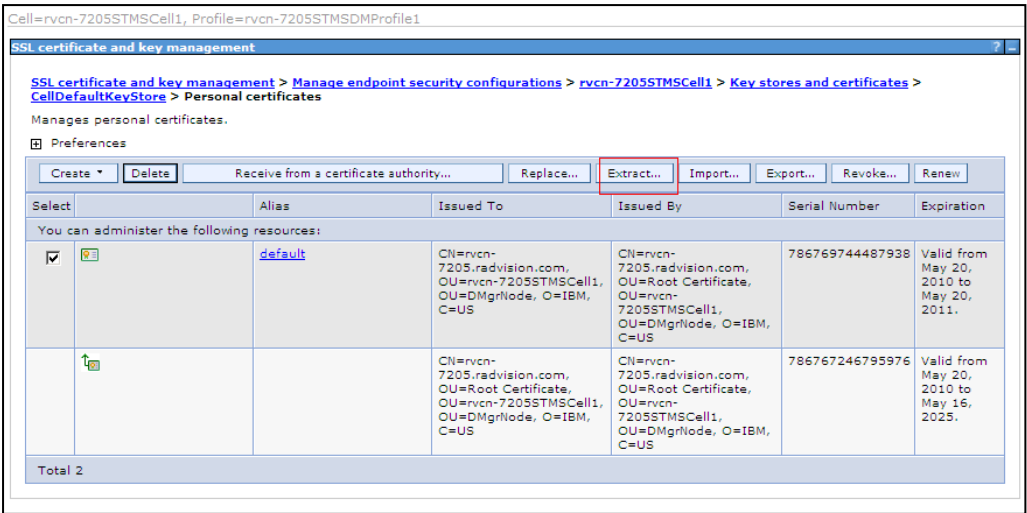
Preferences

Create Delete Receive from a certificate authority... Replace... Extract... Import... Export... Revoke... Renew

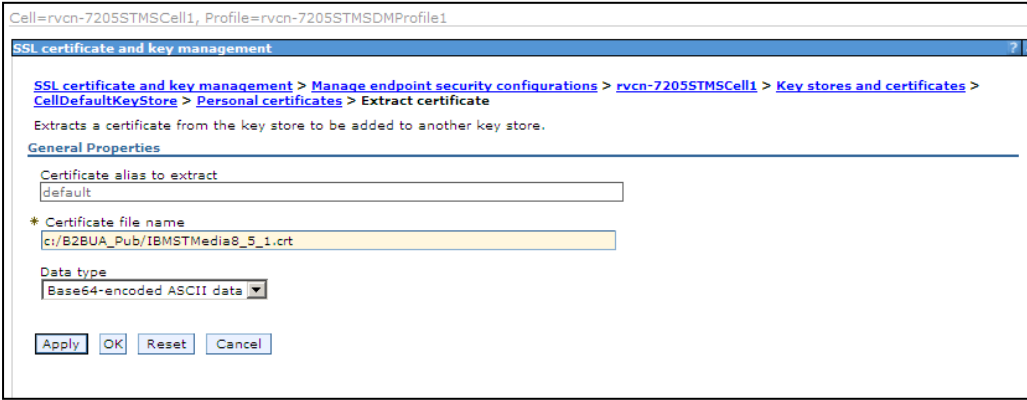
Select	Alias	Issued To	Issued By	Serial Number	Expiration
<input type="checkbox"/>	default	CN=rvcn-7205.radvision.com, OU=rvcn-7205STMSCell1, OU=DMgrNode, O=IBM, C=US	CN=rvcn-7205.radvision.com, OU=Root Certificate, OU=rvcn-7205STMSCell1, OU=DMgrNode, O=IBM, C=US	786769744487938	Valid from May 20, 2010 to May 20, 2011.
<input checked="" type="checkbox"/>		CN=rvcn-7205.radvision.com, OU=Root Certificate, OU=rvcn-7205STMSCell1, OU=DMgrNode, O=IBM, C=US	CN=rvcn-7205.radvision.com, OU=Root Certificate, OU=rvcn-7205STMSCell1, OU=DMgrNode, O=IBM, C=US	786767246795976	Valid from May 20, 2010 to May 16, 2025.

Total 2

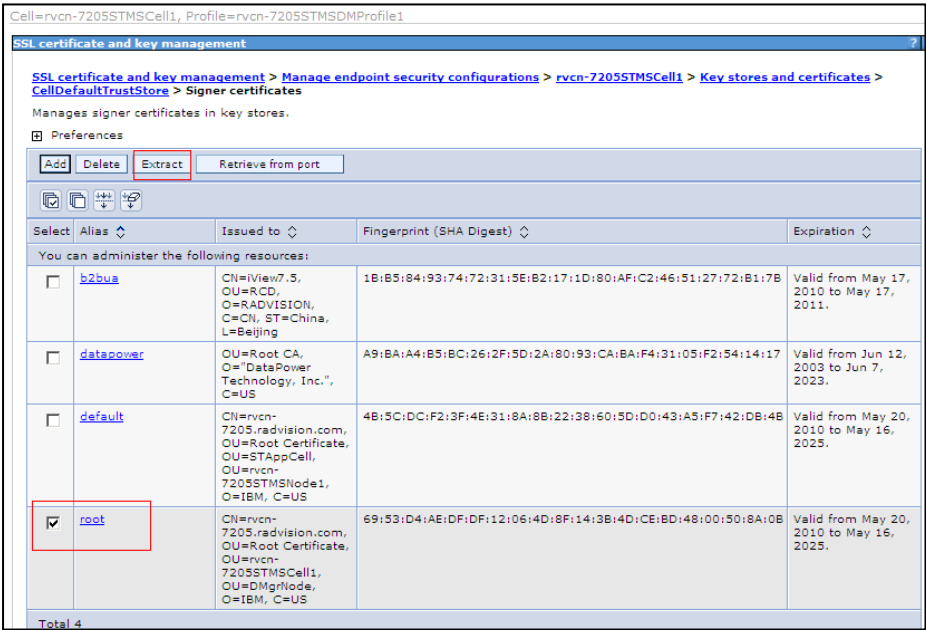
3. Select the **default** checkbox, and select the **Extract** button.



4. Input the file name. Note: File names should be the local path of IBM ST media server. Select the **Apply** button.



5. Under step 7 of Upload iVIEW Certificates as IBM Sametime Trusted Certificates section, select **CellDefaultTrustStore**, select the **root** checkbox, and then select the **Extract** button.



6. Input the file name. Note: File names should be the local path of IBM ST Media server.

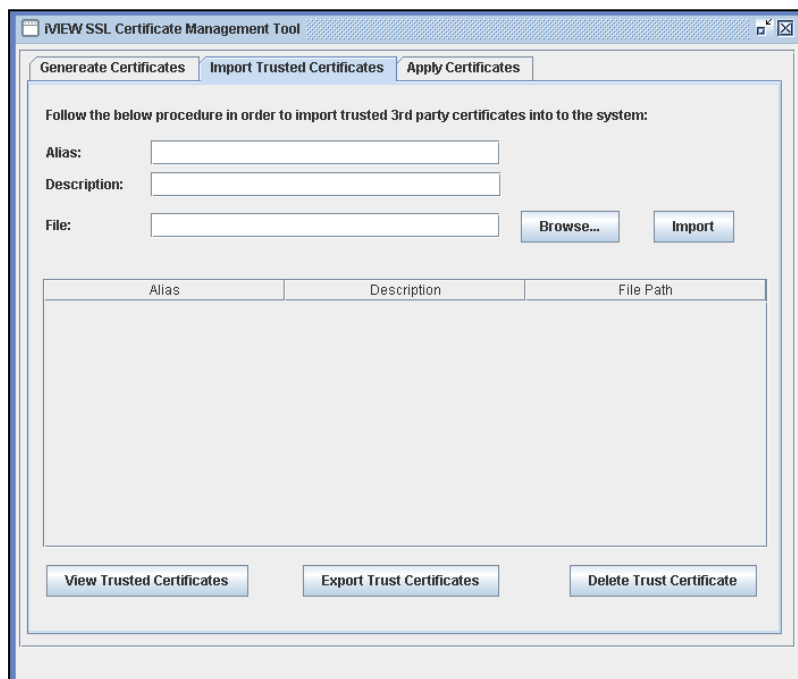


7. Select the **Apply** button.

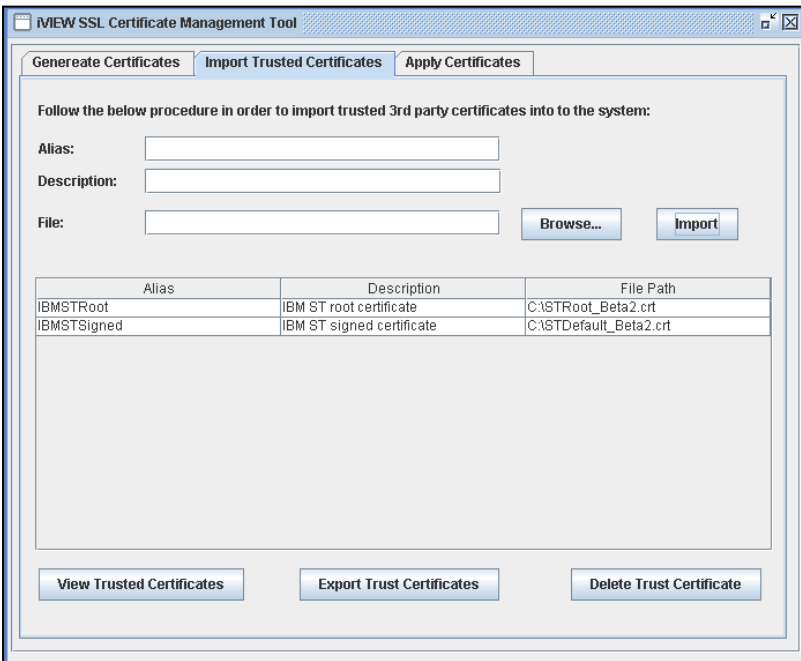
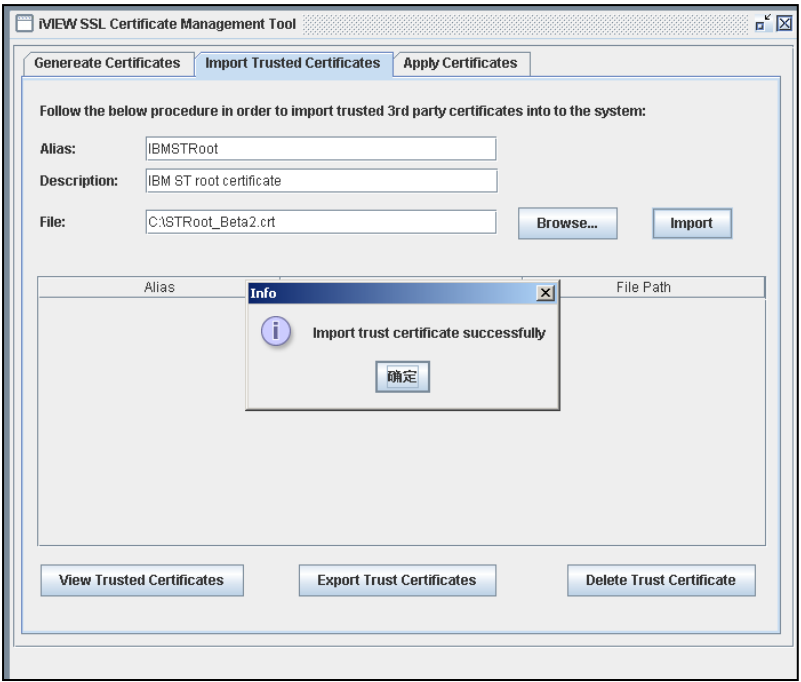
8. Copy those IBM ST certificates into iVIEW server.

Upload IBM Sametime Certificates as iVIEW Trusted Certificates

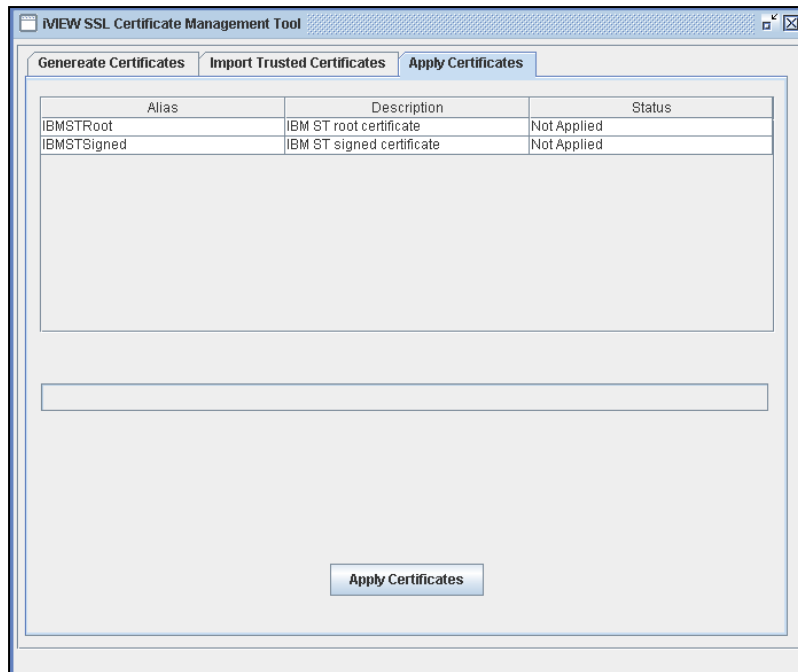
1. Launch the iVIEW Certificates Management Tool.
2. Select the **Import Trusted Certificates** tab.



3. Import IBM ST Certificates. In general, you import IBM ST root certificate first, then import IBM ST signed certificates. Input the **Alias** and **Description** fields. Select the **Browse** button, and then select the **Import** button.

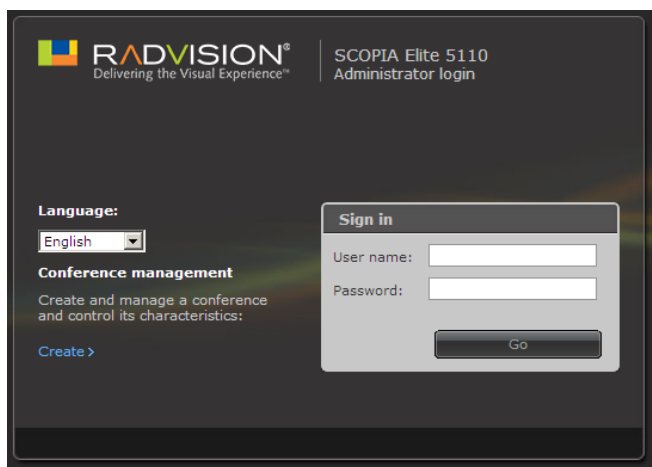


4. Select the **Apply Certificates** tab, and select the **Apply Certificates** button in order to re-load IBM ST Certificates. Once you select Apply Certificates, the iVIEW service will restart.

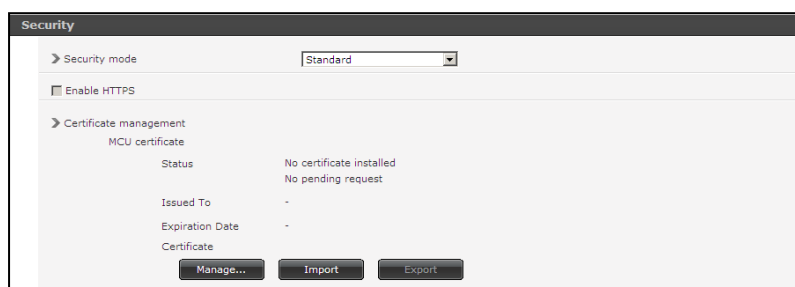


Manage MCU TLS Certificates

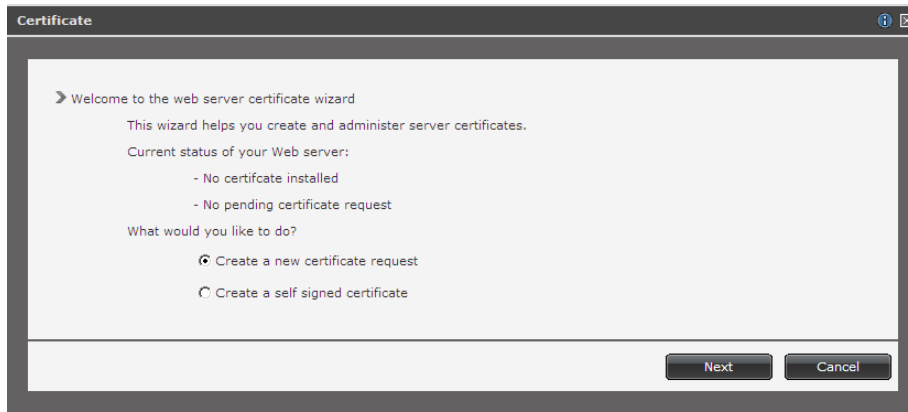
1. Go to your MCU web admin page.



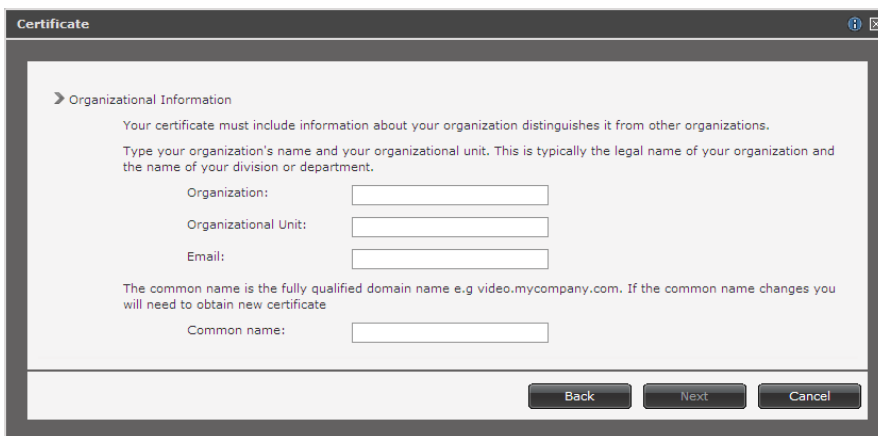
2. Select the **Configuration** tab and go down to the **Security** section.



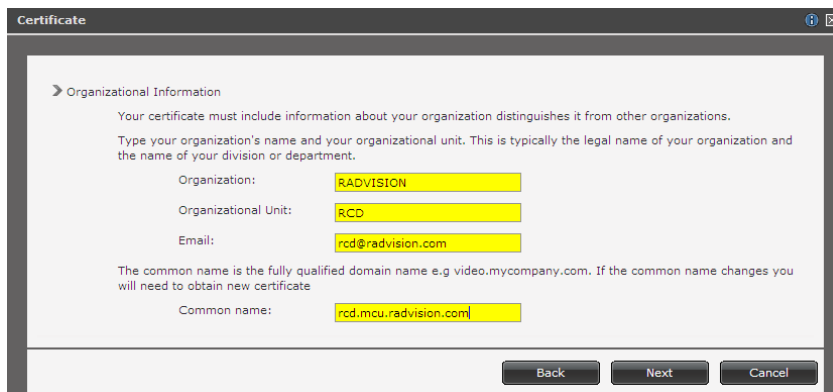
3. Select the **Manage** button.



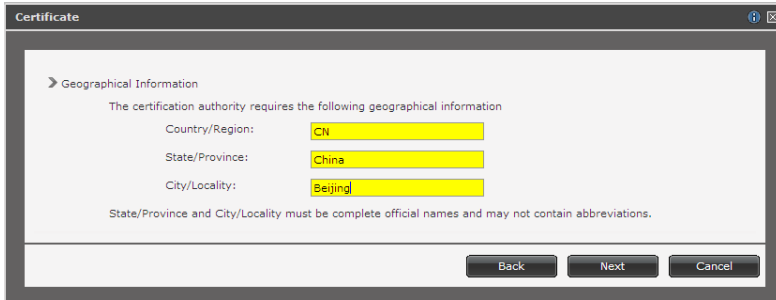
4. Select **Create a new certificate request**, and then select the **Next** button.



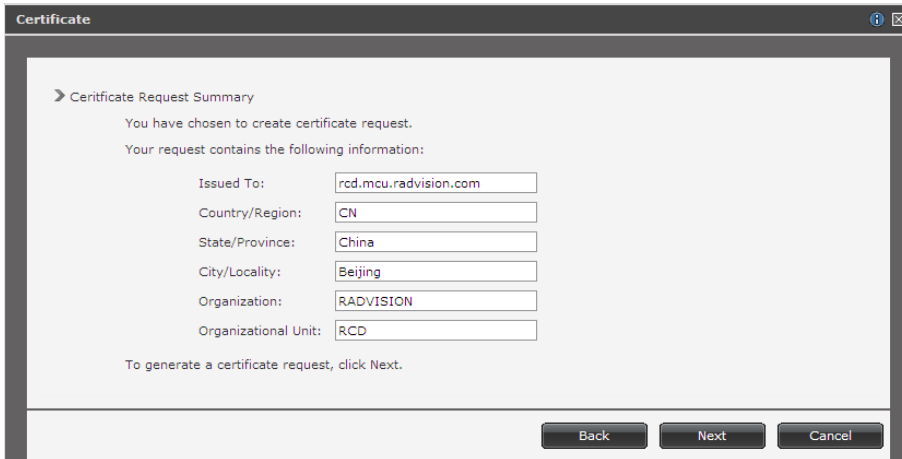
5. Input the organization information, input the common name, and then select **Next**.



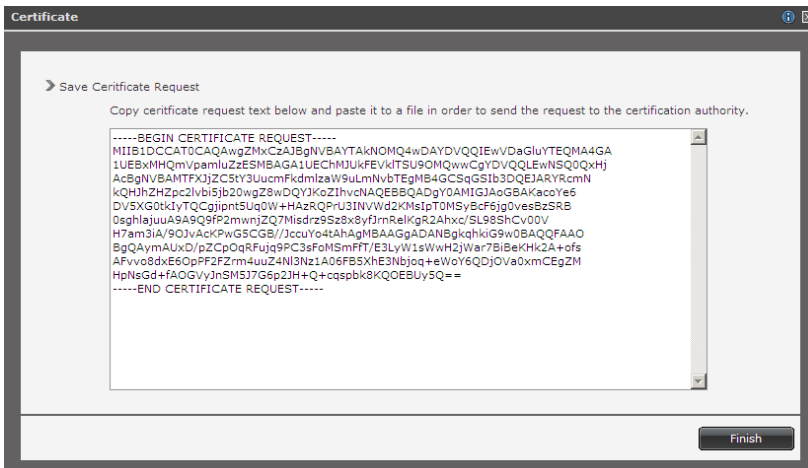
6. Input the geographical information, then select **Next**.



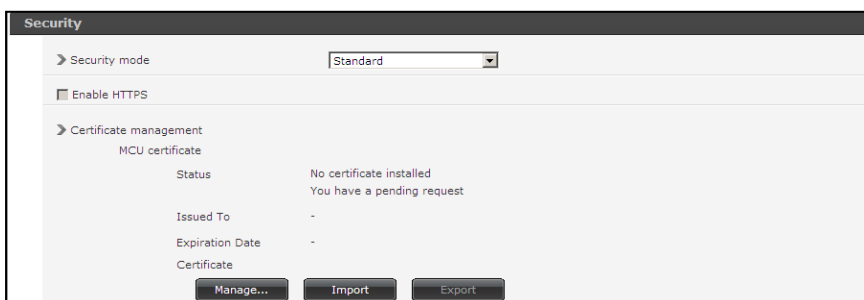
- After reviewing the certificate request summary, select the **Next** button.

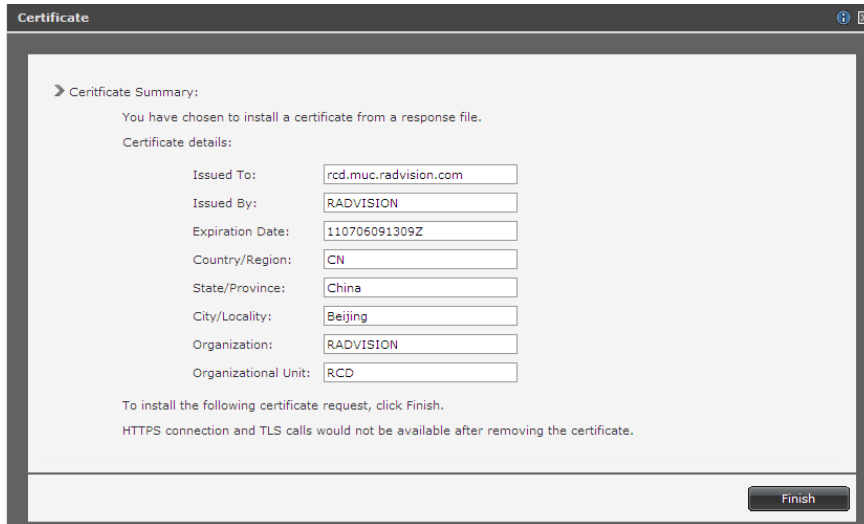


- Copy the certificate request, save it as a local text file, and then select **Finish**.

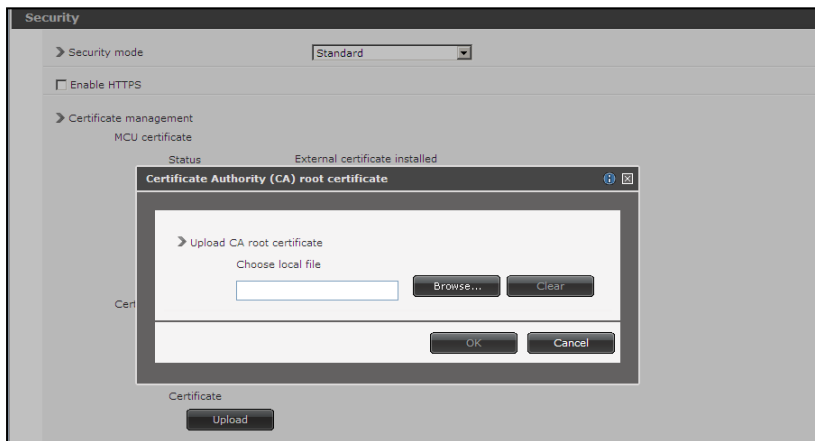


- After selecting the **Finish** button, your MCU has a pending request. You have to send this certificate request to CA. Make sure that both iVIEW and MCU have the same CA.

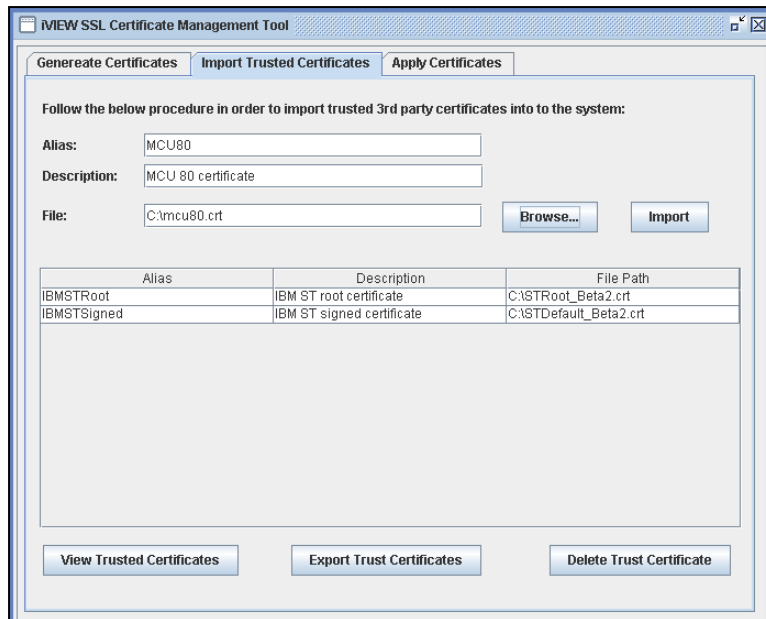




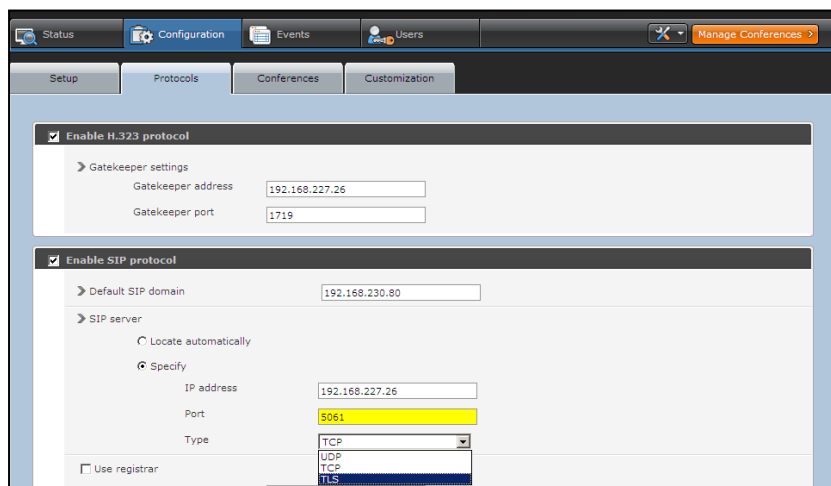
14. Select the **Upload** button in order to upload CA root certificate. Ensure you that the CA root certificate is the same as the iVIEW CA root certificate.



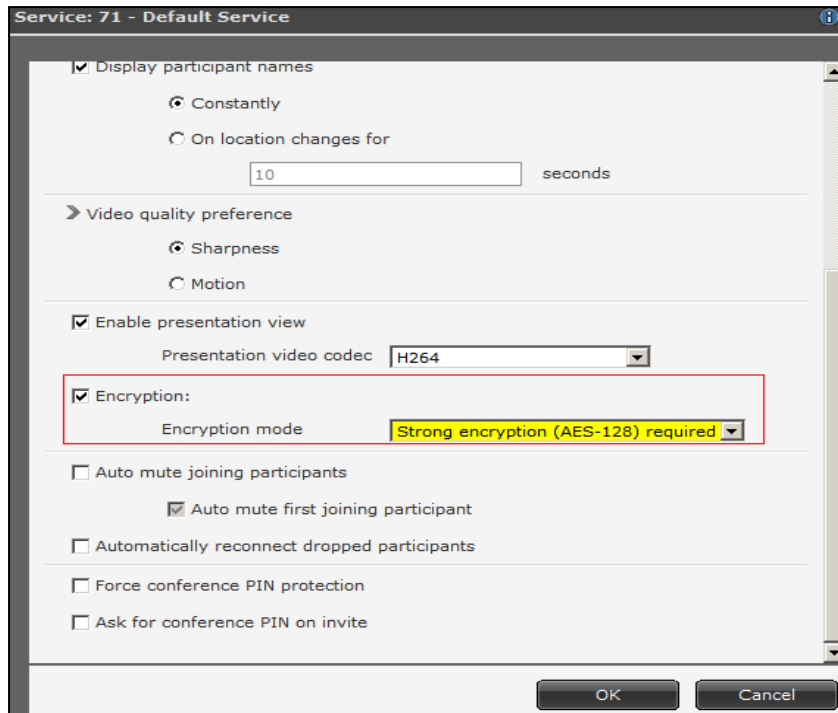
15. Import MCU certificate into iVIEW using the iVIEW Certificates Management Tool. Refer to the Upload IBM Sametime Certificates as iVIEW Trusted Certificates section for details. After importing the MCU certificate, select the **Apply Certificates** button under the Apply Certificates tab in order to reload the MCU certificate.



16. Change the transport to TLS, change the port to **5061**, and then select **Apply**.



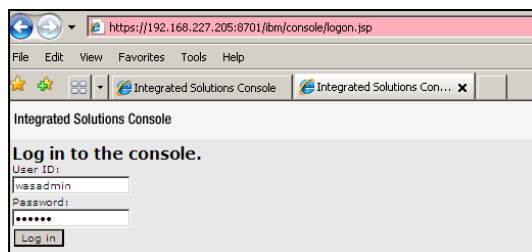
17. Enable SRTP for service, and select **OK**.



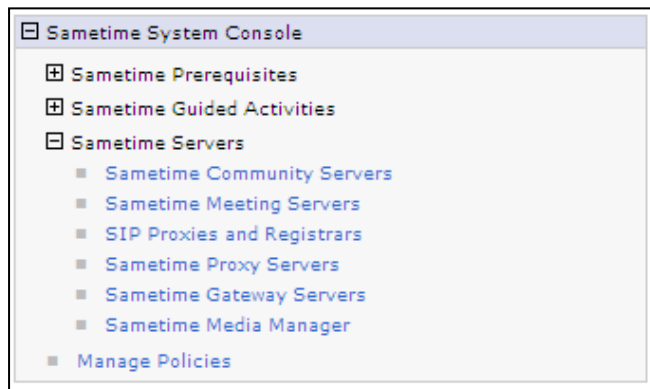
18. Restart the MCU.

IBM Sametime TLS/SRTP Configuration

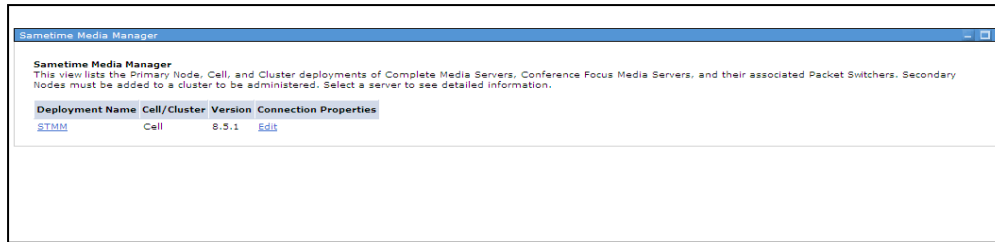
1. Go to IBM Sametime System Console.



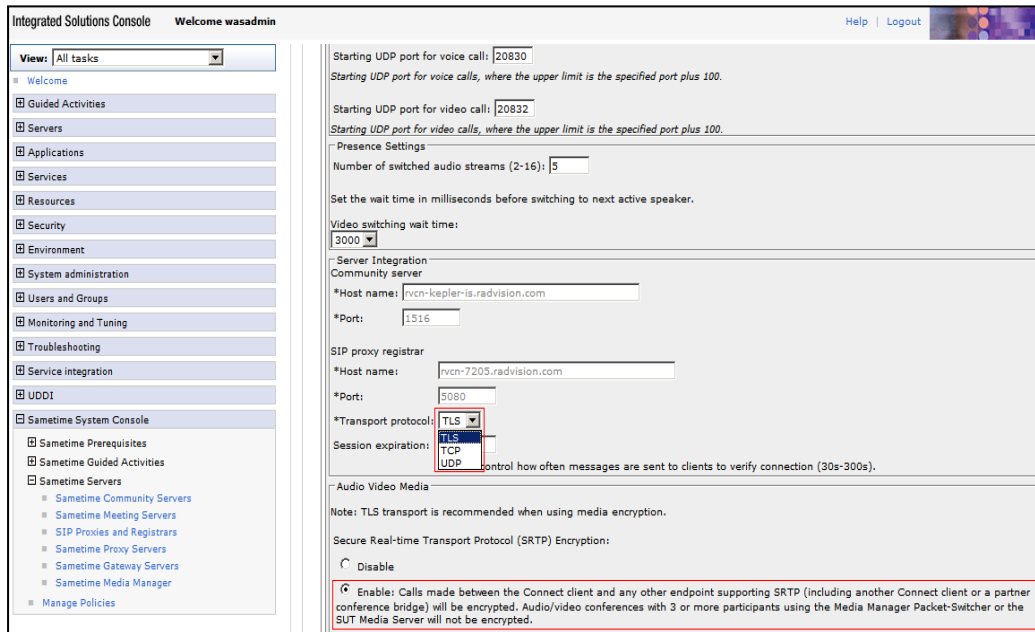
2. Select **Sametime System Console>Sametime Servers**.



3. Select **Sametime Media Manager**. The system shows the page below:



4. Select the **STMM** link. The system shows the page below:



5. Under Transport protocol, select **TLS**.
6. Under Audio Video Media, select **Enable**, then select **Apply**.

iVIEW TLS Configuration

1. Change two properties from iVIEW properties file. Go to iVIEW installation folder, use a text editor to open `{iVIEW folder}\iVIEW Suite\iCM\jboss\bin\vc-core.properties` and add the following lines to the file (if this file already has these lines, change the value accordingly):

```
com.radvision.tcspi.server.sip.useTls=true
com.radvision.tcspi.server.sip.port=5061
vnex.vcms.core.conference.sipTransportWithMCU=tls
```

2. Restart the iVIEW service.

5

MAINTAINING THE DEPLOYMENT

UPGRADING THE RADVISION SAMETIME ADD-ON

The process for the upgrading the SameTime Add-on is the same as installing the Add-on. Follow the instructions in Chapter 3 *Installing the iVIEW Suite SameTime Add-On* to upgrade the installation files and replace current files.

You must restart the Media Server after upgrading.

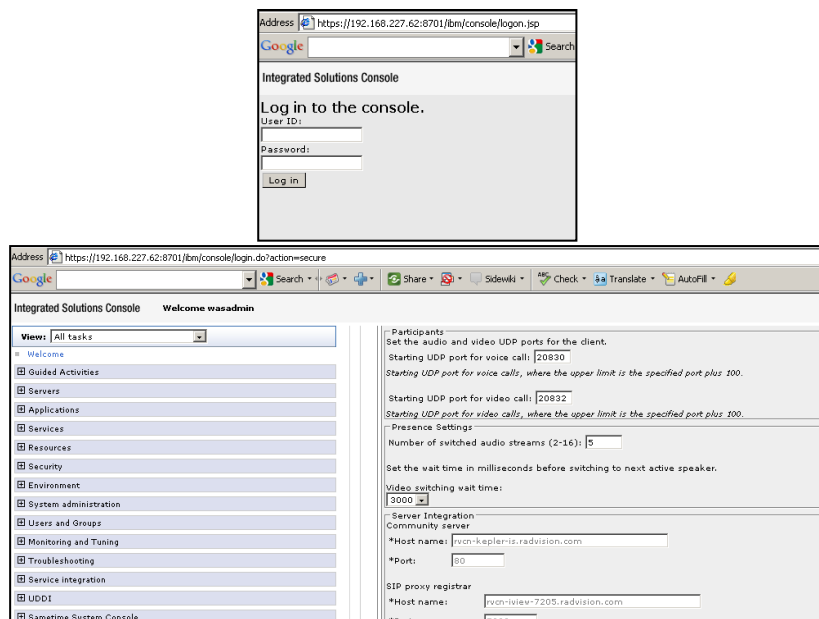
TROUBLESHOOTING

Sending Detailed Logs to Support

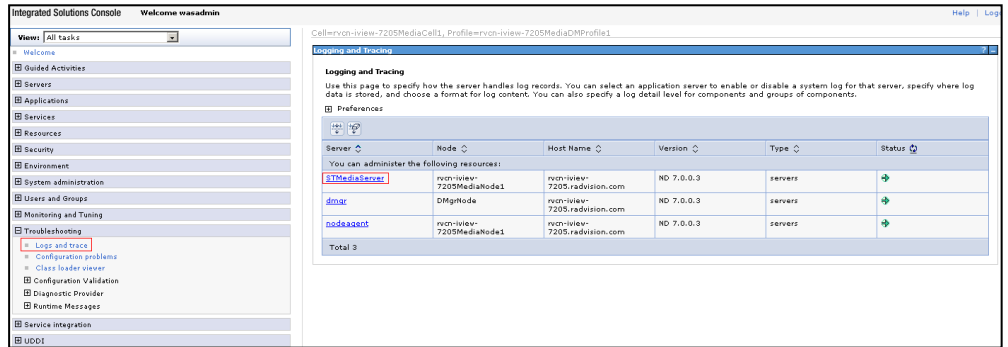
To enable a media server trace:

➤ Procedure

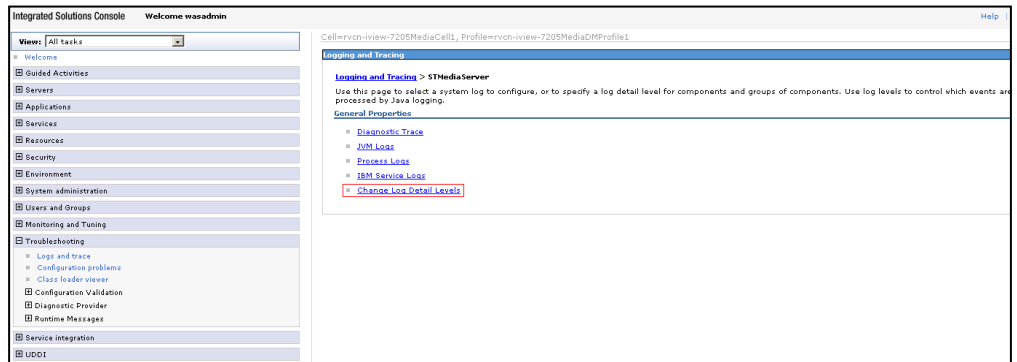
1. Login into SSC (SameTime Server Console)
http://hostname:8700/ibm/console or **https://hostname:8701/ibm/console**.



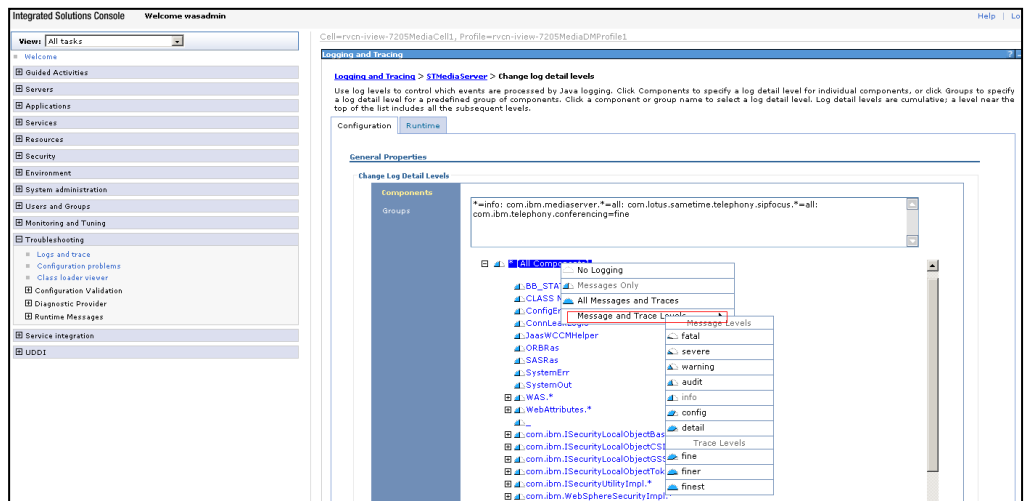
2. Expand Troubleshooting >Logs and trace, and select STMediaServer.



1. Select Change Log Detail Levels.



2. Select All Components > Message and Trace Levels.



Enabling traces for SameTime connect

To collect Lotus SameTime connect logs, you must edit **rcpinstall.properties** under data\config as follows:

Procedure

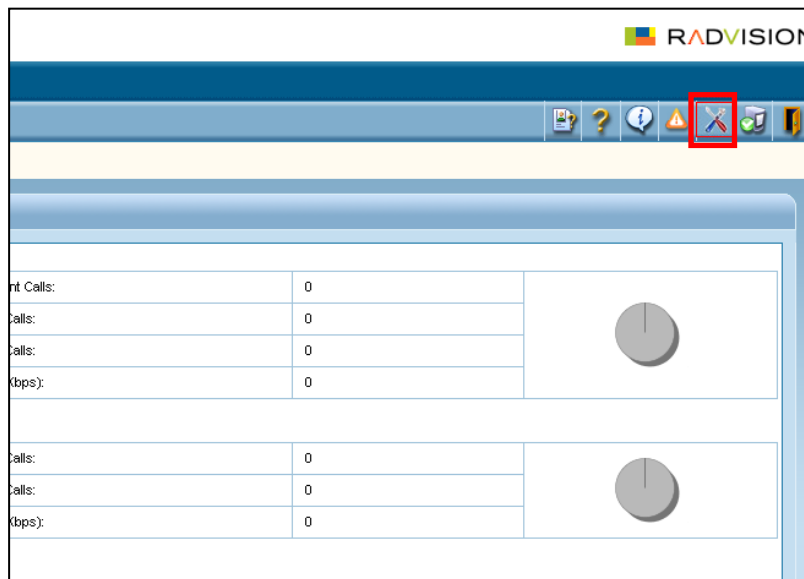
1. Open **rcpinstall.properties**
2. Insert the following lines:
 - `com.ibm.collaboration.realtime.multimedia.level=FINE`
 - `com.ibm.collaboration.realtime.internal.telephony.level=FINER`
 - `com.ibm.collaboration.realtime.telephony.level=FINER`
 - `com.ibm.collaboration.realtime.telephony.tcpspi.level=FINEST`
 - `com.ibm.collaboration.realtime.telephony.softphone.level=FINER`

Note: make sure there are empty line before the lines.

3. Restart the client.
4. Reproduce the error.
5. The new level log can be found under `data\logs`.
6. Zip the contents of the logs directory and send it to Customer Support.

Collect iVIEW Suite logs

To collect all iVIEW Suite logs, select the **Customer Support Information Capture** icon.



Uninstalling

To uninstall, remove all Add-on files and restart the Media Server.



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.

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