



INTEGRATION NOTE



Installing and Configuring the Lotus Notes Plug-in for Cisco Unified Videoconferencing Manager Release 7.1

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1 Overview

The Cisco Unified Videoconferencing Manager IBM Lotus Notes Plug-in is a separately deployed plug-in that can work in a Cisco Unified Videoconferencing Manager deployment or in a standalone Desktop Server deployment without Cisco Unified Videoconferencing Manager.

In a Cisco Unified Videoconferencing Manager deployment, the IBM Lotus Notes Plug-in allows users to schedule, modify, cancel and manage Resource Manager meetings using the IBM Lotus Notes interface.

In a standalone Desktop Server deployment, the Cisco IBM Lotus Notes Plug-in allows users to send out meeting invitations using the IBM Lotus Notes interface.

2 Lotus Domino User Interface

This document uses the Lotus Domino 8 interface to illustrate procedures. There are several minor differences between the user interfaces for each of the supported Lotus Domino versions, including the following:

- Versions 7 and 7.5 include a File > Database option. This is replaced in version 8 by File > Application.
- Versions 7 and 7.5 include a Server list in the Open Database dialog box. This is replaced in version 8 by the Look in option.

3 Prerequisites

System Requirements

Lotus Domino Server

- Supported versions: 7.0, 8.0 and 8.5
- Running DIIOP HTTP services
- Configured as a Web Single Sign-on (SSO) server with LTPA token
- Lotus Domino Administrator and Designer interfaces must be available

Each user should have a dedicated email account for receiving meeting messages including meeting accept and decline messages.

For Cisco Unified Videoconferencing Manager deployments

- A dedicated Cisco Unified Videoconferencing Manager server which the IBM Lotus Notes Plug-in can connect to.
- This Cisco Unified Videoconferencing Manager server should be configured to work with IBM Domino server LDAP Directory service.
- Assign at least one virtual room to each user.

For Desktop Server deployments

- A dedicated Desktop Server server which the IBM Lotus Notes Plug-in can connect to.

Installation Files

The following files are provided with the product:

- Setup0.nsf (where 0 represents the version number of your Lotus Domino Server) containing the agents used to install or upgrade Cisco Unified Videoconferencing Manager IBM Lotus Notes Plug-in.
- 9 .dxi files containing the code used to install Cisco Unified Videoconferencing Manager IBM Lotus Notes Plug-in
 - IVAgentLib.dxi
 - IVClientConfig.dxi
 - IVConfig.dxi
 - IVForm.dxi
 - IVShareLib.dxi

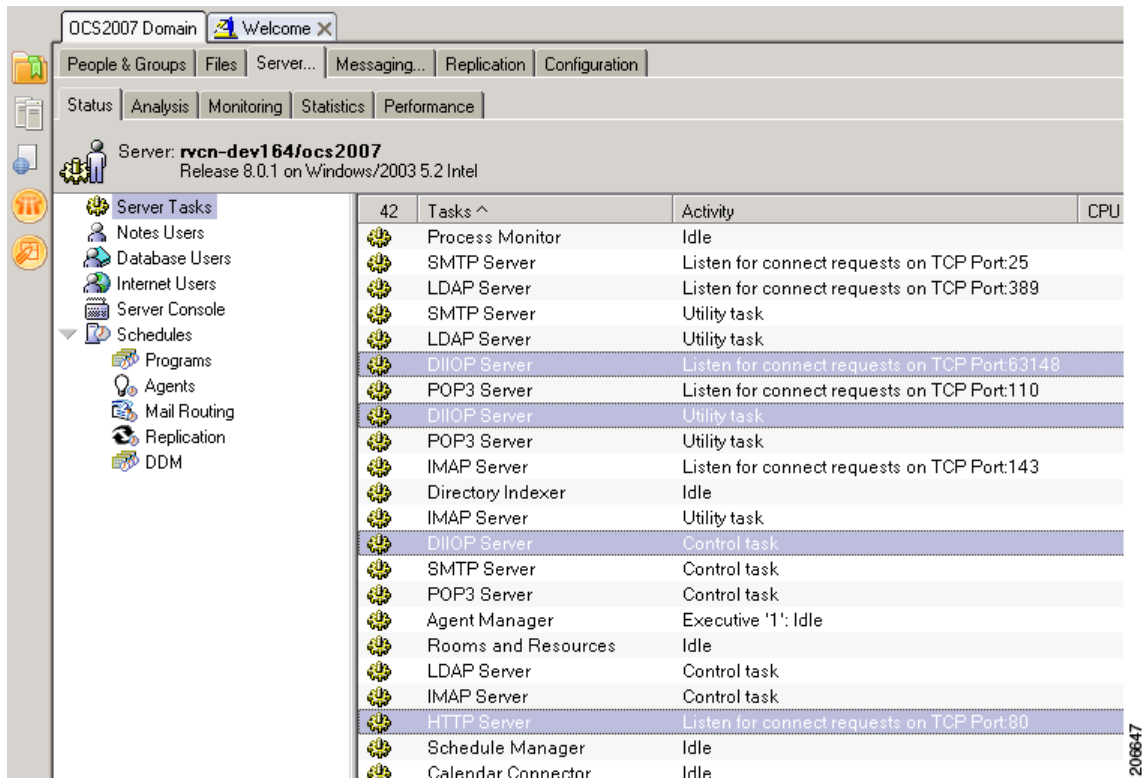
- IVSubForm.dxl
- LotusAddonAppletJar.dxl
- MeetingAgent.dxl
- SDAccessAgent.dxl

Copy them all to a location of your choice on your computer.

4 How to Verify that the DIIOP and HTTP Services are Running

Procedure

- Step 1** Use a text editing application to open the notes.ini file located at C:\Program Files\IBM\Lotus\Domino\ on your computer.
- Step 2** Locate the line
`ServerTasks=Update, Replica, Router, AMgr, AdminP, CalConn, Sched, LDAP, RnRMgr, DIIOP, HTTP`
- Step 3** Verify that DIIOP and HTTP are present. Add them if they are not.
- Step 4** Restart your Domino server.
- Step 5** Select **Start > Programs > Lotus Applications > Lotus Domino Administrator**.
- Step 6** Sign in using the LocalDomainAdmins account supplied by your Domino Server administrator.
- Step 7** Select the **Domain** tab displaying the name of your Lotus Domino server.
- Step 8** Select the **Server** tab.
- Step 9** Select the **Status** tab.
- Step 10** Select **Server Tasks** from the list below the **Status** tab.
- Step 11** Verify that the DIIOP Server and HTTP Server tasks appear.



5 How to Install the Cisco Unified Videoconferencing IBM Lotus Notes Plug-in

- Creating NSF Objects in the Domino Designer Interface, page 4
- Configuring a Template in the Domino Administrator Interface, page 5
- Configuring Forms and Script Libraries in the Domino Designer Interface, page 7

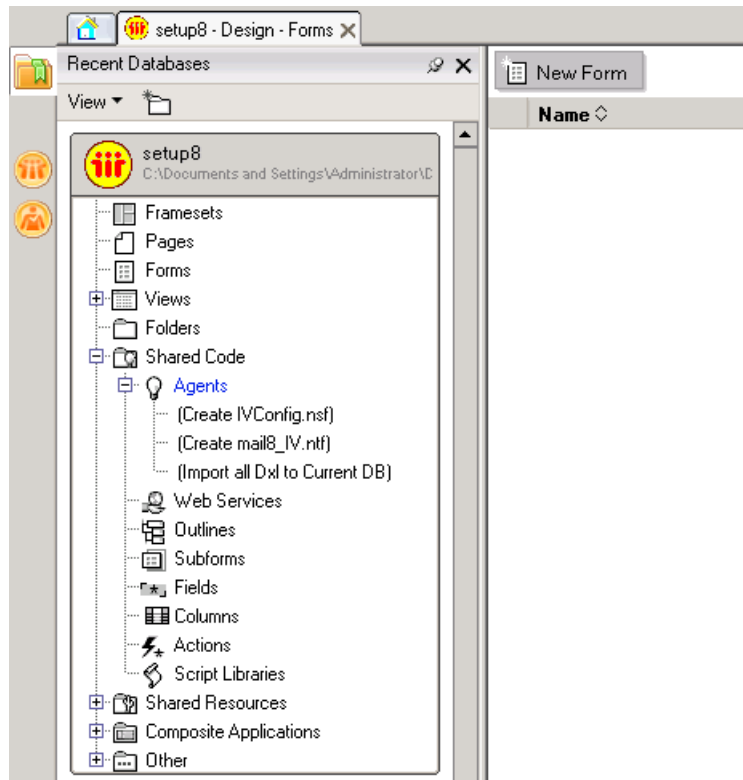
Creating NSF Objects in the Domino Designer Interface

This procedure uses the following terms where 0 represents the version number of your Lotus Domino Server:

- mail0.ntf
- mail0_IV.ntf

Procedure

- Step 1** Select **Start > Programs > Lotus Applications > Lotus Domino Designer** to connect to the target Domino server.
- Step 2** Sign in using the LocalDomainAdmins account supplied by your Domino Server administrator.
- Step 3** Select **File > Application > Open** in the Lotus Domino Designer interface.
- Step 4** Browse to the setup.nsf file and select **Open**.
- Step 5** Select the **setup** icon in the left panel to expand it.
- Step 6** Select **Shared Code > Agents**.



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Step 7 Sign the agents as follows:

- a. Select the **Create IVConfig.nsf** agent in the panel on the right, and then select the **Sign** button.
Create IVConfig.nsf contains the Cisco IBM Lotus Notes Plug-in configuration screen.
- b. Select the **Create mail0_IV.ntf** agent in the panel on the right, and then select the **Sign** button.
Create mail0_IV.ntf contains a new template file for scheduling meetings using the Cisco IBM Lotus Notes Plug-in, based on mail0.ntf.

Step 8 Create the IVConfig.nsf file on the Domino server as follows:

- a. Right-click the **Create IVConfig.nsf** agent and select **Run**.
- b. Select **File > Application > Open** and browse to the IVConfig.dxl file.
- c. Select **Open**.

Step 9 Create the mail0_IV.ntf file on the remote server as follows:

- Right-click the **Create mail0_IV.ntf** agent and select **Run**.
- Select **File > Application > Open** and browse to the IVAgentLib.dxl file.
- Select **Open**.

Step 10 Close the Domino Designer interface.

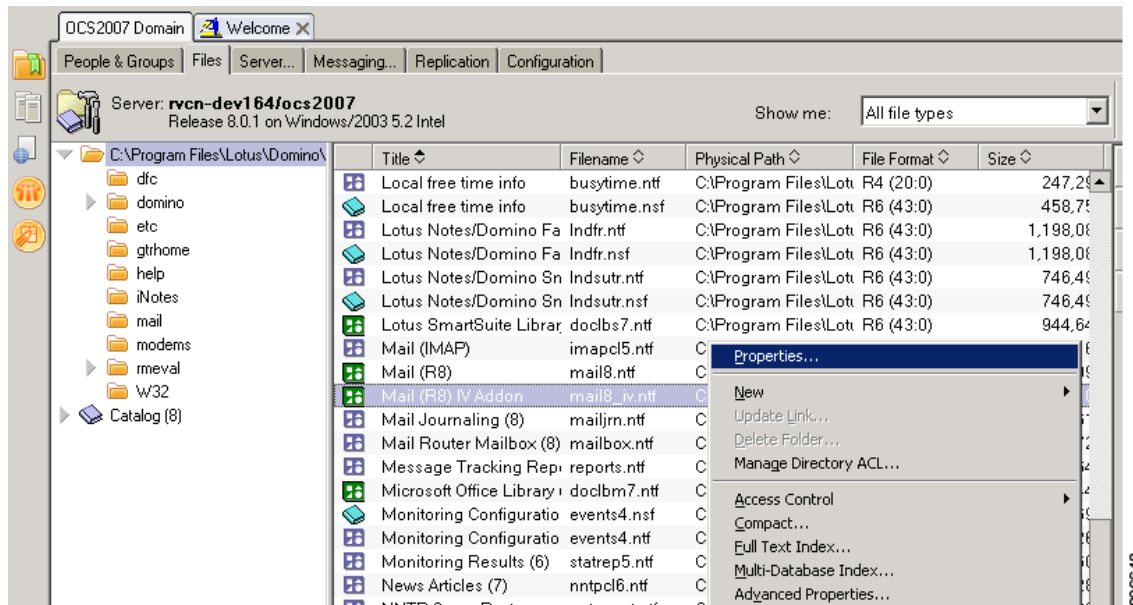
Configuring a Template in the Domino Administrator Interface

This procedure uses the following terms where 0 represents the version number of your Lotus Domino Server:

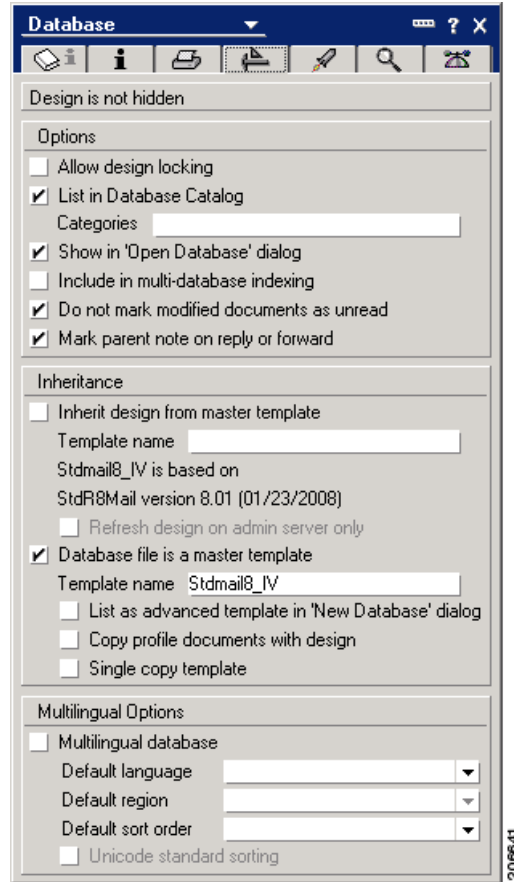
- mail0_IV.ntf
- Stdmail0_IV

Procedure

- Step 1** Select **Start > Programs > Lotus Applications > Lotus Domino Administrator**.
- Step 2** Sign in using the LocalDomainAdmins account supplied by your Domino Server administrator.
- Step 3** Select the **Domain** tab displaying the name of your Lotus Domino server.
- Step 4** Select the **Files** tab.
- Step 5** Select **All file types** in the Show me field.
- Step 6** Locate the mail0_IV.ntf file in the filename list.
- Step 7** Right-click **mail0_IV.ntf** and select **Properties** to display the Database dialog box.



- Step 8** Select the **Design** tab (the fourth tab from the left).
- Step 9** Select **Database file is master template**.
- Step 10** Enter **StdMail0_IV** in the Template Name field.



Step 11 Close the Database dialog box.

Step 12 Save your changes.

Step 13 Close the Domino Administrator interface.

Configuring Forms and Script Libraries in the Domino Designer Interface

This procedure uses the following terms where 0 represents the version number of your Lotus Domino Server:

- Mail (R0) IV

Procedure

Step 1 Select **Start > Programs > Lotus Applications > Lotus Domino Designer** to connect to the target Domino server.

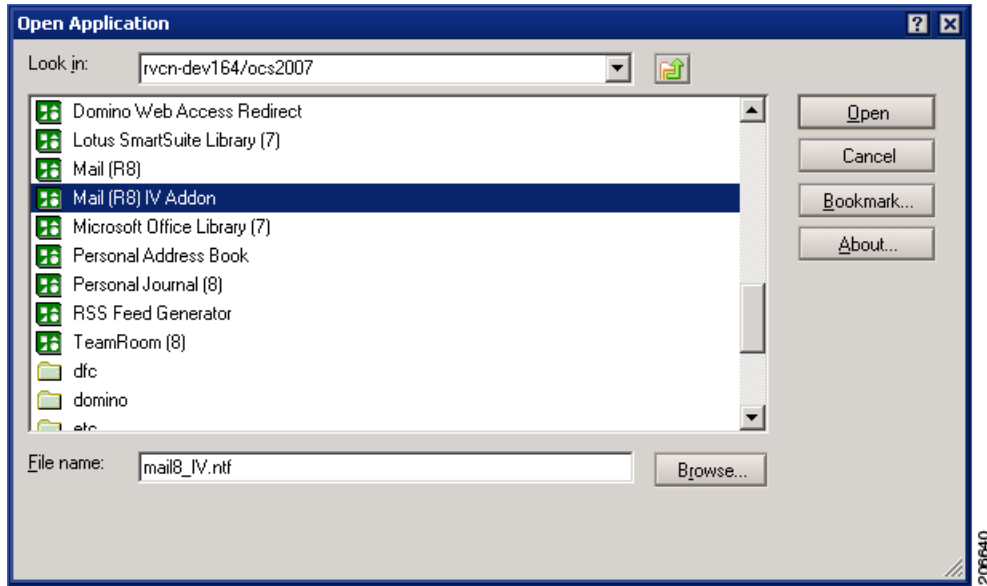
Step 2 Sign in using the LocalDomainAdmins account supplied by your Domino Server administrator.

Step 3 Select **File > Application > Open** in the Lotus Domino Designer interface.

Step 4 Select the **Look in** drop-down list.

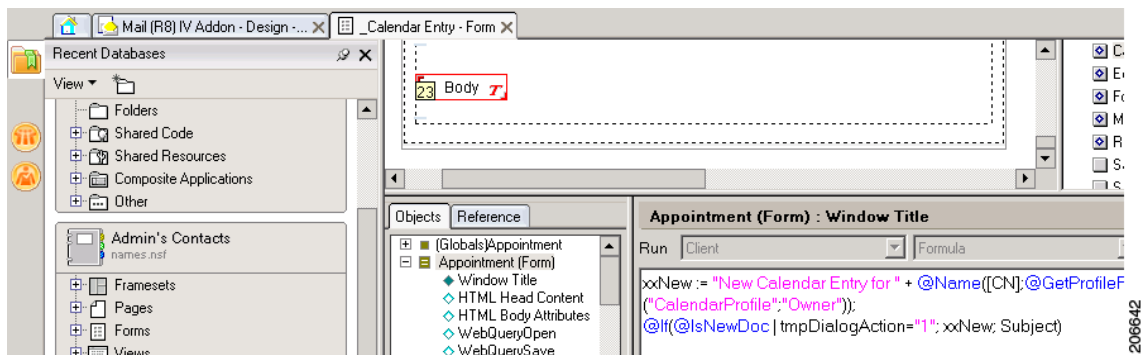
Step 5 Select the remote Domino server that has the Cisco IBM Lotus Notes Plug-in installed from the list.

Step 6 Select **Mail (R0) IV Addon** from the database list, and then select **Open**.



Step 7 Double-click **_Calendar Entry** in the list of forms that displays.

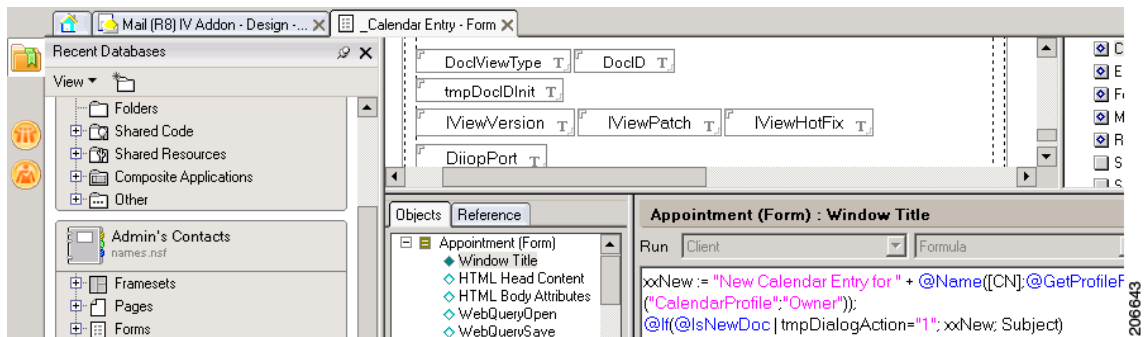
Step 8 Scroll to the end of the code that appears above the list of forms and locate the Body field.



Step 9 Place your cursor next to the Body field and then select **Create > Resource > Insert Subform** from the menu at the top of the screen.

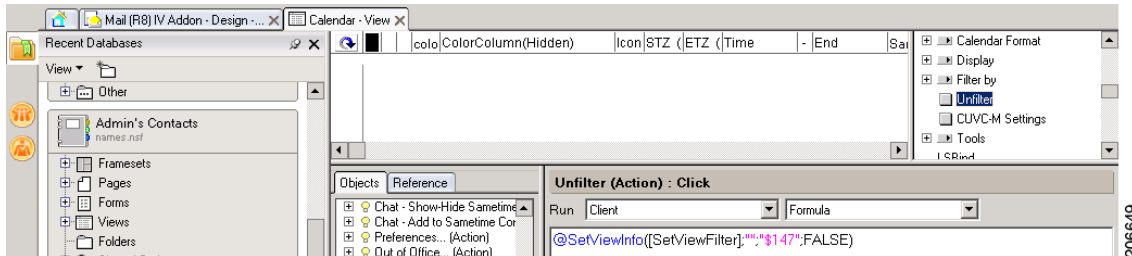
Step 10 Select **IVSubForm** from the Insert Subform window.

Step 11 Select **OK** and verify that the subform is inserted near the Body field.



Step 12 Select the X in the **_Calendar Entry Form** tab to save and close the **_Calendar Entry** form.

- Step 13** Select **View > Go to > Views** from the menu at the top of the screen to display all views in the Mail (R0) IV Addon database.
- Step 14** Double-click (\$Calendar).
- Step 15** Select **View** again from the menu at the top of the screen and verify that **Action Pane** is selected.
- Step 16** Locate the Action pane at the right of the screen.
- Step 17** Right-click **Unfilter** and select **Create Action**.



- Step 18** Enter **Cisco Settings** in the Name field in the first tab of the Actions dialog box.
- Step 19** Select **Hide** action if formula is true in the second tab of the Action dialog box, and select **Formula Window**.
- Step 20** Paste the following code in the Edit Formula window:

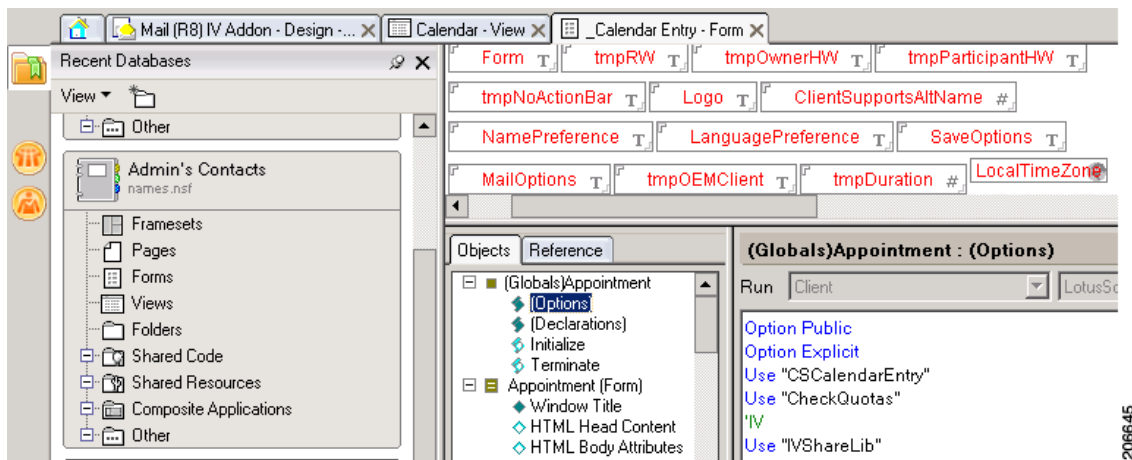
```
@If(@TextToNumber(@Version) < 174;@True;@False) | @Environment("OEMClient") = "1" |
@IsNotMember("Notes_Video_conf_sched_group"; @UserNamesList)
```

- Step 21** Select **Done** to close the Action window.
- Step 22** Paste the following code in the (Action): Click window:

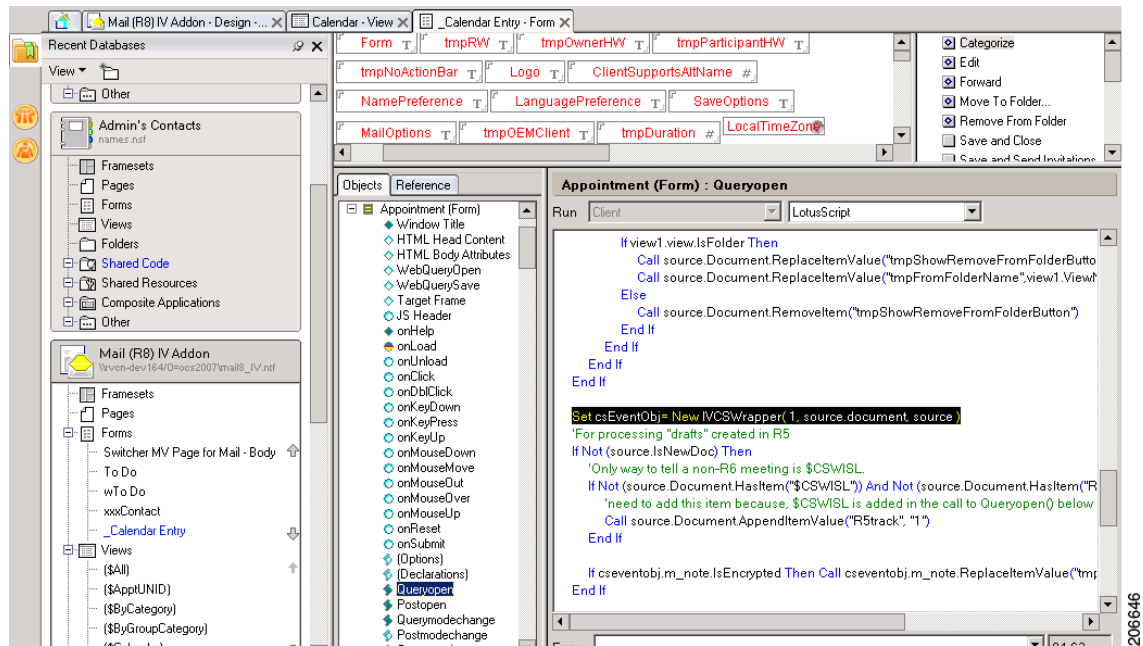
```
@If(@ClientType = "Notes";@Command([Compose];"IVClientConfig") : @Return(0);"")
```

- Step 23** Select the **Mail (R0) IV Addon** tab.
- Step 24** Select **View > Go to > Forms** from the menu at the top of the screen.
- Step 25** Double-click **_Calendar Entry** in the list of forms that displays.
- Step 26** Select **View** again from the menu at the top of the screen and verify that **Programmer's Pane** is selected.
- Step 27** Select **(Globals)Appointment > (Options)** in the Objects tab and add the following line at the end of the code:

```
Use "IVShareLib"
```



- Step 28** Select **Appointment (Form) > Queryopen** in the Objects tab.
- Step 29** Locate **CSCalendarEntry** in the code and replace with **IVCSWrapper**.



Step 30 Save and close the form.

Step 31 Enter code into the CSUIViewClass Script Library as follows:

- a. Select the Mail (R0) IV Addon tab.
- b. Select View > Go to > Script Libraries from the menu at the top of the screen to display all script libraries for the Mail (R0) IV Addon database.
- c. Double-click CSUIViewClass.
- d. Select CSUIViewClass > (Options) in the Objects tab and add the following line at the end of the code:
Use "IVShareLib"
- e. Select CSUIViewClass > InitEventObject in the Objects tab.
- f. Locate CSEventNotes in the code and replace with IVCalendarWrapper.
- g. Save and close the script library.

6 How to Configure the Cisco Unified Videoconferencing IBM Lotus Notes Plug-in

- Using a New Template, page 10
- Configuring Domino Web Single Sign-on, page 11
- Assigning an Execution Control List, page 12

Using a New Template

This procedure uses the following terms where 0 represents the version number of your Lotus Domino Server:

- mail0_IV.ntf

Procedure

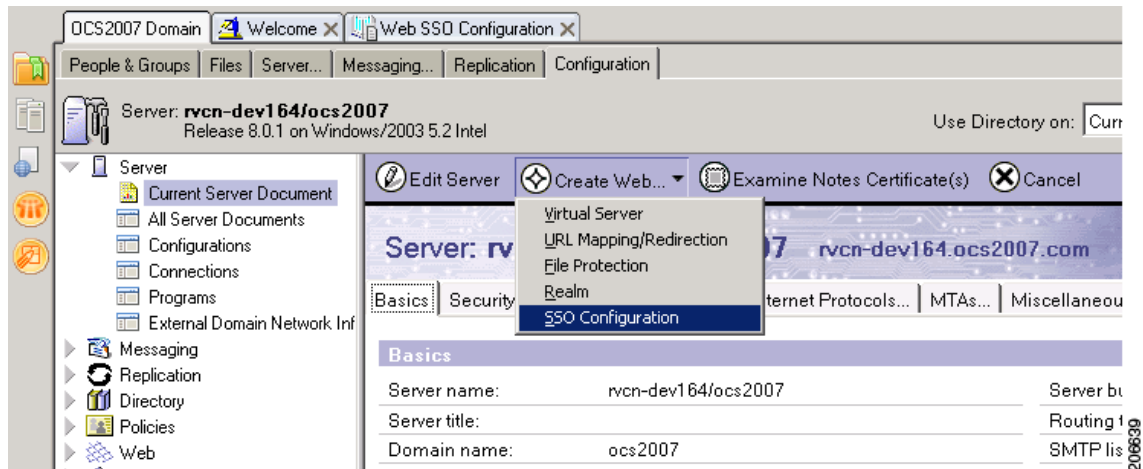
- Step 1** Select **Start > Programs > Lotus Applications > Lotus Domino Administrator**.
- Step 2** Sign in using the LocalDomainAdmins account supplied by your Domino Server administrator.
- Step 3** Select the **Domain** tab displaying the name of your Lotus Domino server.
- Step 4** Select the **People & Groups** tab, and then select **Add Group**.
- Step 5** Create a user group called `Notes_Video_conf_sched_group`.
Any user that you assign to this group can see the user interface of the Cisco IBM Lotus Notes Plug-in.
- Step 6** Access the Domino server console as follows:
- Select **Start > Programs > Lotus Applications > Lotus Domino Administrator**.
 - Sign in using the LocalDomainAdmins account supplied by your Domino Server administrator.
 - Select the **Domain** tab displaying the name of your Lotus Domino server.
 - Select the **Server** tab.
 - Select the **Status** tab.
 - Select **Server Console** from the list below the **Status** tab.
- Step 7** Use the Domino server console command to change the mail file template for all affected users.
For example, assume user John's mail file is `John.nsf`. Enter the following command in the **Domino Command** field to convert the `John.nsf` template to `mail0_IV.ntf`:
- For Windows:
- ```
>> load convert mail\ John.nsf * mail0_IV.ntf
```
- For Linux
- ```
>> load convert mail/ John.nsf * mail0_IV.ntf
```
- Step 8** To change all mail files in the mail directory, send the following command:
- For Windows:
- ```
>> load convert mail*.nsf * mail0_IV.ntf
```
- For Linux:
- ```
>> load convert mail/ *.nsf * mail0_IV.ntf
```
-

Configuring Domino Web Single Sign-on

The Web Single Sign-on (SSO) configuration described here is R5 compatible.

Procedure

- Step 1** Select **Start > Programs > Lotus Applications > Lotus Domino Administrator**.
- Step 2** Sign in using the LocalDomainAdmins account supplied by your Domino Server administrator.
- Step 3** Select the **Domain** tab displaying the name of your Lotus Domino server.
- Step 4** Select the **Configuration** tab.
- Step 5** Select **Server > Current Server Document**.
- Step 6** Select **Create Web** and then **SSO Configuration**.



- Step 7** Enter the Cisco Unified Videoconferencing Manager server DNS domain in the DNS Domain field. For example, “mycompany.com”.
- Step 8** Select the arrow next to the Domino Server Names field to display the Select Name dialog box.
- Step 9** Select the name of the Domino server with the Cisco IBM Lotus Notes Plug-in installed from the list in the left panel, and move it to the Names list in the right panel.
- Step 10** Select OK to close the Select Name dialog box.
- Step 11** Verify that the name of the Domino server with the Cisco IBM Lotus Notes Plug-in installed appears in the Domino Server Names field.
- Step 12** Select **Keys > Create Domino SSO Key** to generate a new key.
- Step 13** Select **Save & Close** to save your changes and close the Web SSO Configuration window.
- Step 14** Select the **Configuration** tab.
- Step 15** Select **Server > Current Server Document**.
- Step 16** Select **Internet Protocols > Domino Web Engine**.
- Step 17** Select **Edit Server**.
- Step 18** Select **Multiple Servers (SSO)** in the Session authorization option.
- Step 19** Select **LtpaToken** in the Set Web SSO Configuration option.
- Step 20** Select **Basics** and verify that the **Load Internet configurations from Server\Internet Sites documents** field is set to **Disabled**.
- Step 21** Select **Save & Close** to save your changes.

Assigning an Execution Control List

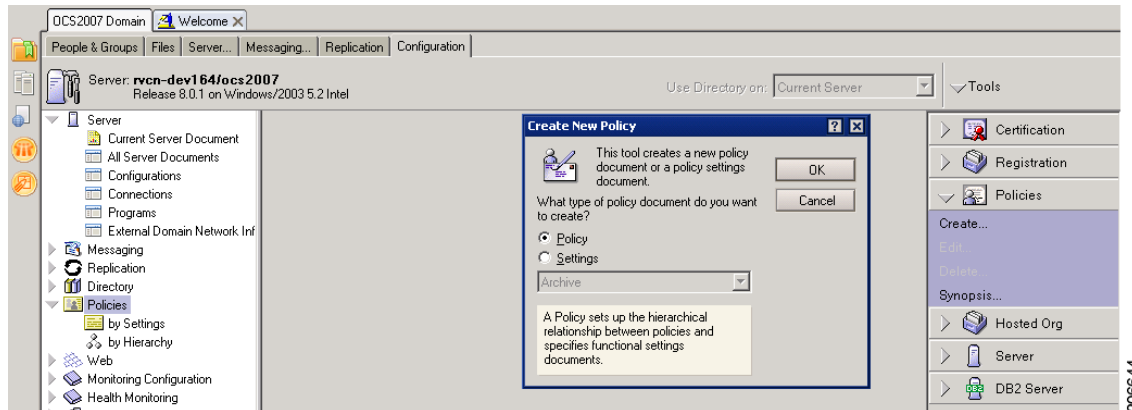
Assign an Execution Control List (ECL) to users so that they can execute the Cisco IBM Lotus Notes Plug-in client-side module. Create a new policy which allows users to run the Cisco IBM Lotus Notes Plug-in, and then assign this policy to user group Notes_Video_conf_sched_group.

Procedure

- Step 1** Select **Start > Programs > Lotus Applications > Lotus Domino Administrator**.
- Step 2** Sign in using the LocalDomainAdmins account supplied by your Domino Server administrator.
- Step 3** Select the **Domain** tab displaying the name of your Lotus Domino server.

Step 4 Select the **Configuration** tab.

Step 5 Select **Policies > Create** in the right panel to create a new policy.



Step 6 Select the **Policy** option in the **Create New Policy** dialog box and select **OK**.

Step 7 Select **Basics** and enter a name for the policy in the **Policy name** field such as “**IV_POLICY**”.

Step 8 Select **New** next to the **Security** field to create new security settings.

Step 9 Enter a name for the new security setting in the **Basics** tab such as “**IV_SECURITY**”.

Step 10 Select **Execution Control List**.

Step 11 Select **Refresh** in the **Set Update Mode** field.

Step 12 Select **Manage** next to **Admin ECL** and enter a name for the ECL in the **Create New Admin ECL** field such as “**IV_ECL**”.

Step 13 Select **OK** and then **Edit**.

Step 14 Select **Allow user to modify** and **Workstation security** in the **Workstation Security: Execution Control List** dialog box.

Step 15 Select **Add** and then select the icon in the **Add User** dialog box to specify the users that have permission to modify workstation security.

Step 16 Select **Java applet security** in the **Workstation Security: Execution Control List** dialog box and repeat Step 15.

Step 17 Select the following access options:

- Access to file system
- Access to Notes Java classes
- Access to network addresses
- Printing
- Access to system properties
- Dialog and clipboard access
- Process-level access

Step 18 Select **OK** to save your changes and close the **Execution Control List** window.

Step 19 Verify that **IV_POLICY** appears in the **Configuration** tab.

Step 20 Select the **People & Groups** tab and select **Groups**.

Step 21 Right-click **Notes_Video_conf_sched_group** and select **Assign Policy**.

Step 22 Select **IV_POLICY** for this user group.

Step 23 Select **OK** to save your changes.

7 Configuring the Domino Server

This section describes how to perform the server-side configuration for the Cisco Unified Videoconferencing Manager IBM Lotus Notes Plug-in.

Procedure

Step 1 Select **Start > Programs > Lotus Applications > Lotus Domino Administrator**.

Step 2 Sign in using the LocalDomainAdmins account supplied by your Domino Server administrator.

Step 3 Select the **Domain** tab displaying the name of your Lotus Domino server.

Step 4 Select the **Files** tab.

Step 5 Select **Databases only** in the Show me field.

Step 6 Double-click **ivconfig.nsf** in the database list.

The CUVC-M Administrator Settings window displays. Use this window to configure the Cisco Unified Videoconferencing Manager or Desktop Servers that users can connect to for meeting scheduling.

Step 7 In the Add Server section

- Set the type of server URL that you want to add in the Server Type field.
- Enter a name for the server that you want to add in the Server Name field.
- Enter the server URL in the Server URL field.

For Cisco Unified Videoconferencing Manager use the format `http://SERVER_URL:PORT_NUMBER`

For Cisco Unified Videoconferencing Desktop use the format `http://SERVER_URL:PORT_NUMBER/cuvm`

Step 8 Select **Add to list**.

Step 9 (Optional) Select **Remove from list** to remove any defined server from the Select List section.

Step 10 (Optional) Select **Check Server Status** to verify that the server is reachable.

The server status is displayed in the Status field.

A server must be reachable for the Cisco Unified Videoconferencing Manager IBM Lotus Notes Plug-in to function properly.

Step 11 (Optional) Select **Generate LTPA token** in the Advanced section to verify that a secure communication mechanism has been properly configured between the Lotus Domino server and the Cisco Unified Videoconferencing Manager server working in Single Sign-on (SSO) mode.

If a new LTPA token is displayed in the Status field, secure communication has been properly configured.

8 How to Uninstall the Cisco Unified Videoconferencing IBM Lotus Notes Plug-in

- Reverting to the Default Mail Template, page 14
- Removing the ivconfig Database, page 15
- Removing the mail0_iv Template, page 15

Reverting to the Default Mail Template

This procedure uses the following terms where 0 represents the version number of your Lotus Domino Server:

- mail0.ntf

Procedure

Step 1 Access the Domino server console as follows:

- a. Select **Start > Programs > Lotus Applications > Lotus Domino Administrator**.
- b. Sign in using the LocalDomainAdmins account supplied by your Domino Server administrator.
- c. Select the **Domain** tab displaying the name of your Lotus Domino server.
- d. Select the **Server** tab.
- e. Select the **Status** tab.
- f. Select **Server Console** from the list below the **Status** tab.

Step 2 Use Domino server console command to change the mail file template for all affected users.

For example, assume user John's mail file is John.nsf. Enter the following command in the **Domino Command** field to convert the John.nsf template to mail0.ntf:

For Windows:

```
>> load convert mail\ John.nsf * mail0.ntf
```

For Linux

```
>> load convert mail/ John.nsf * mail0.ntf
```

Step 3 To change all mail files in the mail directory, send the following command:

For Windows:

```
>> load convert mail\*.nsf * mail0.ntf
```

For Linux:

```
>> load convert mail/ *.nsf * mail0.ntf
```

Removing the ivconfig Database

Procedure

Step 1 Select **Start > Programs > Lotus Applications > Lotus Domino Administrator**.

Step 2 Sign in using the LocalDomainAdmins account supplied by your Domino Server administrator.

Step 3 Select the **Domain** tab displaying the name of your Lotus Domino server.

Step 4 Select the **Files** tab.

Step 5 Select **Databases only** in the Show me field.

Step 6 Right-click **ivconfig.nsf** and select **Delete Database**.

Step 7 Select **Also delete replicas of this database on all other servers**.

Step 8 Select **OK** to delete this database.

Removing the mail0_iv Template

This procedure uses the following terms where 0 represents the version number of your Lotus Domino Server:

- mail0_IV.ntf
- Mail (R0) IV

Procedure

- Step 1** Select **Start > Programs > Lotus Applications > Lotus Domino Administrator**.
 - Step 2** Sign in using the LocalDomainAdmins account supplied by your Domino Server administrator.
 - Step 3** Select the **Domain** tab displaying the name of your Lotus Domino server.
 - Step 4** Select the **Files** tab.
 - Step 5** Select **All file types** in the Show me field.
 - Step 6** Right-click **Mail (R0) IV Addon** and select **Delete Database**.
 - Step 7** Select **Also delete replicas of this database on all other servers**.
 - Step 8** Select **OK** to delete this template.
-

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