



Release Notes

**Note:** Before using this information and the product it supports, read the information in "Notices" on page 65.

**First Edition (August, 2006)**

This edition applies to IBM® Lotus® Sametime® 7.5, and to all subsequent releases and modifications until otherwise indicated in new editions.

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# Chapter 1 - About this release

## New in this release

### New features in IBM Lotus Sametime Connect 7.5 Client

The new IBM Lotus Sametime Connect 7.5 client is a significant upgrade to the Sametime Connect desktop client provided with previous Sametime releases. The new Lotus Sametime Connect client is based on Eclipse technology, and includes the features listed below.

#### Instant Messaging

##### Log-in

- Set awareness state and message at log-in
- Support multiple Sametime communities from a single client

##### Instant Contacts

- "Business card" view of contact information, including location, phone, and local time
- Display Bubble Alerts that notify you when a contact comes online, becomes available, or goes offline, or when you receive a new chat message
- Support for user pictures and summaries
- Support for locations
- Nested groups
- New "In A Meeting" status, with less intrusive IM behavior
- Chat without adding someone to your buddy list
- Quick Find feature, to quickly find contacts in your contact list by typing the first few characters of the name
- Switching of user interface language from the preferences page to any one of 22 languages

##### Chat window

- Optionally display time stamps for each message in a chat window
- Support for rich text and emotive icons
- Change your online status, or see your partner's on-line status, from the chat window
- Configure the Enter key to insert a carriage return instead of sending the message
- Spell check while typing
- A "Send e-mail" feature
- A click-to-talk feature, using embedded VoIP

- A click-to-dial feature embedded in the chat window, when a Telephony extension is installed with the Sametime server
- Print from the chat window
- See a message when a chat partner leaves a chat
- Instant image screen capture
- Send images and text combined in the same Send line

### Chat history

- Users have the option to automatically, manually, or not save a chat
- Chat history is saved locally, and chat transcripts can be retrieved from a new "Inbox"-style UI

### Extensibility

- Please see the available Lotus Sametime 7.5 Software Development Kit for additional information about client extensibility

## Contact list overview

The format of the contact list is new for Sametime7.5, and the list is stored in a location on the server separate from the previous version of the contact list used by older clients. The first time a user logs into a Sametime server with Sametime 7.5, if the user has a "classic" contact list from an older client, it is retrieved and converted into the Sametime 7.5 format. From this point forward, the user can re-import the classic contact list at any time, by using the 'Import Contact List From Server' option located in the "File" menu; this always imports the classic contact list, not the Sametime 7.5 contact list. Note that the Sametime 7.5 contact list need not be imported since it is pulled from the server automatically each time the user logs in.

### Remote and local contact list

The contact list is stored in an XML format both locally on the client machine and remotely on the server; the two copies are kept in synch with each other. When the client is launched, the local contact list is parsed. After the user logs in, the remote contact list is retrieved and the timestamps of the local and remote lists are compared. If the server list is found to be more recent than the local list, a dialog allows the user to keep the local list, replace the local list with the remote copy, or merge the two together.

The local contact list is located in a file in the user workspace. A typical location of the file on a Windows machine is:

```
<user.home>/Application  
Data/Sametime/.metadata/.plugins/com.ibm.collaboration.realtime.imhub/buddylist.xml
```

### Saving and exporting the contact list

The contact list is saved automatically in response to contact list activity. Creation, deletion, and update events performed on users or groups in the contact list trigger a save of the contact list, both locally and remotely.

The contact list can be exported manually to a file in the Sametime 7.5 format by selecting the File menu option 'Export Contact List To Sametime 7.5 file'.

The contact list can also be exported into the classic contact list format by selecting the File menu option 'Export Contact List to Community File'. The export processes only users and public groups that pertain to the selected community, since previous version of the contact list support only a single community. The exported ".dat" file can then be imported by previous Sametime clients.

## Spell checker overview

The Sametime 7.5 spell checker provides spell checking functionality for 12 languages. The dictionaries are part of the server installation, and are found on CD 4, in a directory called "SpellCheckerDictionaries"; there are plugin and features for each dictionary.

By default, the client comes with the US English dictionary installed. Administrators can create a site that will allow users to install dictionaries as a feature, or a user can just copy the plugin folder for the dictionary to the plugin folder of their Sametime client. The spell checker will default to English for languages it does not support.

## Supported languages in this release

- 01 - com.ibm.langware.v5.dic.fi\_FI (Finish - Finland)
- 02 - com.ibm.langware.v5.dic.fr\_FR (French)
- 03 - com.ibm.langware.v5.dic.de\_DE\_Reform (German)
- 04 - com.ibm.langware.v5.dic.el\_GR (Greek)
- 05 - com.ibm.langware.v5.dic.it\_IT (Italian)
- 06 - com.ibm.langware.v5.dic.nb\_NO (Norwegian Bokmal)
- 07 - com.ibm.langware.v5.dic.pl\_PL (Polish)
- 08 - com.ibm.langware.v5.dic.pt\_PT (Portuguese - Portugal)
- 09 - com.ibm.langware.v5.dic.pt\_BR (Portuguese - Brazil)
- 10- com.ibm.langware.v5.dic.ru\_RU (Russian)
- 11- com.ibm.langware.v5.dic.es\_ES (Spanish)
- 12- com.ibm.langware.v5.dic.sv\_SE (Swedish)

## Unsupported languages in this release

- 1 - Hungarian
- 2 - Turkish
- 3 - Japanese
- 4 - Korean
- 5 - Simplified Chinese
- 6 - Traditional Chinese

## Macintosh support is Extended Beta only

The Sametime Connect 7.5 client is supported as an Extended Beta release on the Macintosh platform. The Extended Beta is a pre-production release of software; it allows you to continue using these technologies and provide feedback. References to the Macintosh platform within the product documentation, and in these release notes, should be understood in the context of the Extended Beta release; Macintosh is not a fully supported platform for Sametime 7.5 at this time.

## New features in IBM Lotus Sametime 7.5 Meeting Room Client

The new IBM Lotus Sametime 7.5 Meeting Room client includes the features listed below.

### Web conferencing

- Simplified meeting creation.
- Welcome screen shows on meeting entry, giving users pertinent information when they join the meeting.
- New Slides tab enables easier management of presentation files
- Ability for any presenter to upload slides during a meeting

- Improved slide conversion and scaling
- Improved annotation tools, for both slides and the Whiteboard, including: editable text, highlighter/laser pointer tools, and easier line width/color controls
- Simplified screen sharing interface
- "Now Sharing" icon displays next to user who is sharing their screen, so you can easily identify whose screen is being shared.
- Easier permissions handling, plus defaults to easily make everyone able to present
- Indicator when new group chat message is entered
- Improved telephony controls, including controls that let users mute and unmute their own lines
- Ability to enter polling questions before sending them out
- Options to sort and filter the participant list (e.g., show only presenters, sort by entry time, sort by order of hand raise)
- Improved connectivity, with improvements in user experience, pop-up coexistence, and connection resilience, specifically:

#### **Meeting Room Client**

- Client starts first, and then establishes a connection
- If connection is lost, the client stays open and tries to re-establish a connection
- Icons in the status bar indicate the connection status
- Pop-up messages inform users of actions to take

#### **Pop-ups**

- Many pop-ups eliminated
- Users receive feedback when pop-up blockers are invoked

#### **Connectivity**

- Fall-back options (TCP automatically falls back to HTTP)
- Persistent connection not required

### **Meeting and Client Help documentation**

Help documentation is available from both the Sametime Meeting and Sametime Connect clients. Click **Help - Help Topics** to display the Help in either client. Note that the contents of both Help systems are not yet final, and may not always reflect the current product implementation.

### **Release notes: Updated information available on-line**

The Release Notes that are available on-line are more up-to-date than the Release Notes that are shipped with this product. This is due to production schedules; after the product ships, updates are sometimes made to the Release Notes and posted on the Lotus developerWorks website.

To ensure that you have the very latest version of the Sametime Release Notes, please visit the Lotus Documentation page at:

<http://www.lotus.com/ldd/doc>

## Chapter 2 - Installation, migration, upgrade, and configuration information

### Hardware requirements

#### Hardware requirements for Sametime 7.5

##### Server requirements

Sametime requires one server for Sametime installation that meets these requirements:

##### Operating System - IBM eServer pSeries (AIX)

- **CPU** -- Dual 475 MHz, or higher, IBM PowerPC processor recommended; Dual 375 MHz PowerPC processor minimum.
- **Memory** -- 2 GB recommended; 1 GB minimum.
- **Disk space** -- 3 GB free disk space recommended to allow space for meetings; 2 GB minimum.
- **Disk swap space** -- 2 GB RAM recommended.
- **Video requirements** -- Video card installed. Recommended video display color setting is 16-bit color. The setting must be higher than 256 colors.

##### Operating system - i5/OS

- **IBM i5/OS, 5722SS1**, Version 5 Release 3 or later. For more details, see "Installing and Managing Lotus Sametime 7.5 for i5/OS" (stinstall.nsf).
- **CPU** -- IBM eServer iSeries™, IBM eServer™ i5, or IBM System i5™ server models capable of running IBM i5/OS V5R3
- **Memory** -- Minimum 1GB for each Sametime and Domino server
- **Disk space** -- Minimum 500MB free disk space, 1GB recommended; minimum of 4 Disk Drives (arms)

##### Operating system - Sun Solaris

- **CPU** -- UltraSPARC III 1 GHz processor, or higher recommended; UltraSPARC III 550 MHz processor minimum
- **Memory** -- 2 GB recommended; 1 GB minimum.
- **Disk space** -- 3 GB free disk space recommended to allow space for meetings; 2 GB minimum.
- **Disk swap space** -- 2 GB RAM recommended.
- **Video requirements** -- Video card installed. Recommended video display color setting is 16-bit color. The setting must be higher than 256 colors.

**Operating system - Microsoft Windows**

- **CPU** -- Intel Pentium III 800 MHz, or higher, recommended.
- **Memory** -- 2 GB recommended; 1 GB minimum.
- **Disk space** -- 1 GB free disk space recommended to allow space for meetings; 500 MB minimum.
- **Disk swap space** -- 1.5 GB RAM recommended; 1GB minimum Network software. TCP/IP network software installed.
- **Video requirements** -- Video card installed. Recommended video display color setting is 16-bit color. The setting must be higher than 256 colors.

**Client requirements**

The client system requirements for operation with the Sametime 7.5 server (and Multimedia Services) include:

- **CPU** -- Pentium II 266 MHz (or higher).
- **RAM** -- 128 MB RAM or higher.

## Software requirements

**IBM Lotus Sametime Connect 7.5 client software requirements**

The IBM Lotus Sametime Connect 7.5 client is a completely new implementation of the Sametime Connect client, using Java (TM) and Eclipse technology. Following are the software requirements and support statements for the Sametime Connect 7.5 client:

**Sametime Connect Client****Platforms supported**

- Windows XP Professional (Service Pack 1)
- RedHat Enterprise Linux 4.0
- Novell Linux Desktop 9.0
- Mac OS X 10.4

**Note:** The Sametime Connect client is not supported on Windows 2000, and has not been tested on this platform. We are aware, however, that users have been able to run the client successfully on this platform.

## IBM Lotus Sametime 7.5 Meeting Room client requirements

Following are the software requirements and support statements for the Sametime 7.5 Meeting Room client:

### Meeting Room Client

#### Browsers supported

- Internet Explorer 6.0 on Windows XP Professional
- Mozilla 1.7.12 on Windows XP Professional
- Mozilla 1.7.6 on RedHat Enterprise Linux 4.0 or Novell Linux Desktop 9.0
- Firefox 1.5 on Windows XP Professional, RedHat Enterprise Linux 4.0, and Novell Linux Desktop 9.0

#### Java JDK/JRE supported

- IBM or Sun JDK/JRE 1.4.2 or later - Internet Explorer 6.0 on Windows XP Professional
- IBM or Sun JRE 1.4.2 or later - RedHat Enterprise Linux 4.0 and Novell Linux Desktop 9.0

## IBM Lotus Sametime 7.5 server software requirements

Following are the software requirements and support statements for the Sametime 7.5 server:

### Operating Systems

- AIX 5.3; AIX 5.2 - The installation program will run from an XWindows interface. Administrators also have the option to use a text-based console install version; the console install will run from a telnet session or equivalent. Full administration privileges are required on unix: must be root.  
**Note:** AIX 5.2 - requires patch level 2 (5200-02).
- Solaris 10 (SPARC); Solaris 9 (SPARC) - The installation program will run from an XWindows interface. Administrators also have the option to use a text-based console install version; the console install will run from a telnet session or equivalent. Full administration privileges are required on unix: must be root.
- Windows 2000 Advanced Server (Service Pack 4)
- Windows 2003 Advanced Edition
- IBM i5/OS, 5722SS1, Version 5 Release 3 or later. For more details, see "Installing and Managing Lotus Sametime 7.5 for i5/OS" (stinstall.nsf).

### Notes:

- On Windows, you must have full administration rights to install Sametime; if not, Sametime will not install properly. In addition, please note that only Microsoft TCP/IP is supported for Windows.
- On UNIX, you must install as root; if not, Sametime will not install properly.
- The video display color setting on the Sametime server must be higher than 256 colors. The recommended video display color setting is 16-bit color.
- AIX and Solaris no longer require an X11 interface. Administrators have an option to use the text-based console install version as well. The console install will run from a telnet session or equivalent.

### LDAP directories

- IDS 5.1 and 5.2
- Domino 6.5 and 7.0
- Microsoft Active Directory 2003
- Sun ONE Directory 5 (iPlanet 5.1 and 5.2)

### Supported Domino server version

Sametime 7.5 must install on a Domino 7.0 or later server. Note that the Domino 7.x server release must be installed prior to installing the Sametime server.

## Installation notes

### **Installing the IBM Lotus Sametime Connect 7.5 client**

If your administrator installed the IBM Lotus Sametime Connect 7.5 client files on your Sametime 7.5 server, you can download the client files from that server. If you have access to the IBM download site, you can also download the client files from there.

### **Downloading Sametime Connect 7.5 for Windows or Linux**

To download the Sametime Connect 7.5 client files for Windows or Linux from your server, follow the instructions below. These instructions will not work for the Macintosh version of the client, so you'll need to follow the Macintosh instructions instead.

1. Using a web browser, open the Sametime Center page (stcenter.nsf) on your Sametime 7.5 server. For example, if your Sametime 7.5 server host name is `st75server.com`, you would open `http://st75server.com/stcenter.nsf`.
2. Select the link to the download the Lotus Sametime Connect 7.5 Client to display the download page.
3. Select the Sametime Connect 7.5 download link for either Windows or Linux to download the client install package to your local drive.
4. Follow the instructions below to install the Sametime Connect client (these instructions are also on the download page).
5. The first time you launch the client, you'll need to enter the host name of your Sametime server. Use the name of the server from which you downloaded the files, unless your administrator has instructed you to use a different server.

### Downloading Sametime Connect 7.5 for Macintosh

To download the Sametime Connect 7.5 client files for Macintosh from your server, follow the instructions below:

1. Using a web browser, launch the URL `http://<hostname>/sametime/sametimeclient/sametime-connect-mac-7.5.0.command`, where `<hostname>` is the host name of your Sametime 7.5 server, for example, `st75server.com`.
2. Save the client install package to your local drive.
3. Follow the instructions below to install the Sametime Connect client.
4. The first time you launch the client, you'll need to enter the host name of your Sametime server. Use the name of the server from which you downloaded the files, unless your administrator has instructed you to use a different server.

### Installing Sametime Connect 7.5 for Windows

Launch the install program (`sametime-connect-win-7.5.0.exe`) to begin the installation. You will be prompted for required information. The install program will create a Sametime Connect icon on your Windows desktop.

To uninstall Sametime Connect, use the Windows Add-Remove Programs utility.

### Installing Sametime Connect 7.5 for Macintosh

1. Launch the install program (`sametime-connect-mac-7.5.0.command`) to extract the Sametime Connect application `.dmg` file to a directory of your choice.
2. Launch the `.dmg` file to create a virtual drive on the Desktop.
3. Open the virtual drive and drag the Sametime folder from there to your Applications folder.
4. Go to the new copy of the Sametime folder and launch the Sametime application.

To uninstall Sametime Connect, browse to your Applications folder, locate the Sametime application folder and drag it to the trash

### Installing Sametime Connect 7.5 for Linux

1. As a superuser (for example, while logged in as root), run the install program using the following command:

```
rpm -i sametime-connect-lin-7.5.0-1.i386.rpm
```

2. Launch Sametime using the following command:

```
/usr/bin/sametime
```

To uninstall Sametime Connect, use the following command, as a superuser:

```
rpm -e sametime-connect-lin-7.5.0-1
```

### Additional installation steps for administrators

After you complete the installation of the IBM Lotus Sametime 7.5 Server release, you will need to copy the Sametime Connect 7.5 client installation files to the Sametime server. End users will be unable to download and install the client files until you perform this task.

The client installation files are posted on the IBM download site. There are 3 files, one for each client platform:

Windows:        sametime-connect-win-7.5.0.exe  
Macintosh:      sametime-connect-mac-7.5.0.command  
Linux:           sametime-connect-lin-7.5.0-1.i386.rpm

Download all of these files from the download site, and place them in the <datadir>\domino\html\sametime\sametimeclient directory on the Sametime server. The default locations are shown below. There may already be files with these names in that directory -- these are placeholder files that you must replace with the real ones.

#### For Windows:

```
c:\program files\lotus\domino\data\domino\html\sametime\sametimeclient
```

#### For AIX/Solaris:

```
/local/notesdata/domino/html/sametime/sametimeclient
```

#### For i5/OS:

There is no default data directory but the name may be similar to this:

```
/STserver/domino/html/sametime/sametimeclient
```

After copying the file, run the following command from any i5/OS command line to change the owner of all of the copied objects to QNOTES:

```
CHGOWN OBJ('server_data_directory/domino/html/sametime/sametimeclient/*')  
NEWOWN(QNOTES)
```

To verify that you've copied the files correctly, go to the Sametime Center web page on your server, and follow the download links to download the client files for all platforms.

**Note:** The Sametime Center download page does not include a download link for the Macintosh version of the client installation file. End users will need to download the Macintosh version of the client installation file using the following URL:

```
http://<hostname>/sametime/sametimeclient/sametime-connect-mac-7.5.0.command
```

where <hostname> is the host name of your Sametime 7.5 server.

## Install Linux libraries for Meeting Room Client (MRC)

For the Meeting Room Client (MRC) installation on Linux, libraries are available. Sametime 7.5 supports two Linux platforms for clients: RedHat and SuSE; you can install all the libraries required for the Sametime native code through the RedHat/SuSE standard installers.

### SuSE

Go to the SuSE main menu -> System -> YaST2 -> Install and Remove Software. Then, install these package groups:

1. Graphical Base System
2. GNOME system
3. Office Applications
4. C/C++ Compiler Tools

### RedHat

Go to the RedHat menu -> System Settings -> Add/Remove Applications. Then, install these package groups:

1. X Windows System
2. GNOME Desktop Environment
3. GNOME Software Development
4. Legacy Software Development

## Installing Sametime Conversion Services with AIX, Solaris, i5/OS

Sametime Conversion Services is a feature that takes files of various formats (slides, images, documents, etc.) and provides a bitmap rendering, so they can be shared in a meeting as slides. Sametime Conversion Services has been enhanced for Sametime 7.5 to use new conversion technologies that provide more faithful rendering of slides. The same technology is used for all Sametime servers, regardless of the platform used for your Sametime server.

In order to utilize this function for AIX, Solaris, and i5/OS Sametime servers, you must install Sametime Conversion Services on a Windows system from the Sametime Components CD. The Sametime server must also be configured to connect to the Windows system.

When you install Sametime 7.5 on AIX or Solaris, you are prompted to provide connection information for the system where you plan to run conversion services.

For i5/OS, connection information parameters have been added to the command for adding Sametime to a Domino server (ADDLSTDOM).

If you prefer, you can manually configure the conversion services information at a later time.

Detailed information about setting up Sametime 7.5 Conversion Services are included in the Meeting Services section of the Lotus Sametime 7.5 Administrator's Guide, rather than in a separate guide, as in previous releases.

## Installing the Lotus Sametime 7.5 Software Development Kit

For Sametime 7.5, all of the Sametime toolkits are available in the Lotus Sametime 7.5 Software Development Kit (SDK). The Sametime SDK includes the following toolkits:

- **Sametime Connect Toolkit \***
- Sametime Links Toolkit
- Sametime Java Toolkit
- Sametime Telephony Conferencing Service Provider Interface (TCSPI) Toolkit
- Sametime Community Server Toolkit
- Sametime Directory and Database Access Toolkit
- **Sametime Monitoring and Statistics Toolkit \***
- **Online Meeting Toolkit \***

\* new for 7.5

The Sametime toolkits for 7.5 and beyond will only be available in the Sametime SDK, not individually. You can download the Lotus Sametime 7.5 SDK, and previous Sametime toolkit releases, by using the "Lotus Sametime 7.5 SDK" link on the Sametime server home page, or by going to the following IBM developerWorks site:

<http://www.ibm.com/developerworks/lotus/downloads/toolkits.html>

The Sametime SDK is packaged in a .zip archive file. To install the SDK, simply extract the contents of this file to any location on your local drive. After extracting the files, see the file `readme.txt` in the `st75sdk` directory for important information about the SDK. To uninstall the SDK, simply delete the `st75sdk` directory.

**Note:** The Sametime C++ Toolkit and COM Toolkit were not updated for the Sametime 7.5 release, and are not included in the Sametime 7.5 SDK. The previous releases of these toolkits are still available on the developerWorks site, and should work with the Sametime 7.5 release, but there are no plans to further enhance these toolkits.

## Upgrade notes

### Conversion Services upgrade required for AIX, Solaris, i 5/OS

If you have been using Sametime Conversion Services with your current release of Sametime, there are several changes for Sametime 7.5 that you need to be aware of. Significant impacts to the upgrade process are highlighted below, but you should consult the Meeting Services section of the Lotus Sametime 7.5 Administrator's Guide for detailed information (there is no separate Sametime Conversion Services Setup Guide for Sametime 7.5; all of the installation and configuration information is now included in the Administrator's Guide).

- The requirements for the Windows system where you run the conversion services have changed. Make sure the system you are planning to use satisfies the requirements for 7.5. (This system is referred to as the Conversion Server.)
- You must uninstall the version of Sametime Conversion Services you are currently using, and then install the 7.5 version from the Sametime Components CD. The new version may be installed as a standalone Windows service, but Sametime 7.5 also provides the option to configure a Domino server on the Windows system and then install the conversion services as a Domino servlet.

- Sametime 7.5 Conversion Services is not compatible with previous versions of Sametime. If you have multiple Sametime servers sharing the same Conversion Server, they can also share a single Sametime 7.5 Conversion Server once you have upgraded all of them to Sametime 7.5. If you do not plan to upgrade all of the servers at the same time, you will need at least two Conversion Servers: one for the Sametime 7.5 servers and a separate one for the Sametime servers that have not yet been upgraded.
- Sametime 7.5 no longer stores the connection information for the Conversion Server in the meetingserver.ini file. The connection information is now stored in the **stconvservices.properties** file, located in the server data directory. If the IP address or port for the Conversion Server ever changes, you must update this file. Note that if you install the conversion services as a Domino servlet, then reconfiguring Domino HTTP on the Conversion Server to use a different IP address or port affects the conversion services connection and you will need to update **stconvservices.properties**.
- When you upgrade Sametime on AIX or Solaris, you will be prompted to provide connection information for the system where you plan to run conversion services. If you prefer, you can manually configure the conversion services information at a later time.
- When you install Sametime 7.5 on i5/OS, existing Sametime servers are upgraded and the conversion server IP address and port number that were previously stored in the meetingserver.ini file are migrated to **stconvservices.properties**. After upgrading, you must update this file if the IP address or port for your Conversion Server are different from the previous release.

### Maintaining SIP support after upgrading to ST 7.5

Sametime 7.5 is planned to support communication with other communities through the RTC Gateway, that replaces the SIP Gateway. Until the RTC Gateway is released, customers who want to continue using SIP to communicate with other communities should follow the steps in technote #1244026 **before** upgrading their server to Sametime 7.5:

<http://www.ibm.com/developerworks/lotus/support/>

Please also see "Real-Time Collaboration Gateway replaces Sametime SIP Gateway" in these release notes for additional information

### Migrating privacy data after upgrading server

If your users have stored privacy information ("Who can see me") from your earlier release of Sametime, then you need to migrate this information by running a utility after upgrading to Sametime 7.5. Privacy information from the earlier release will not be used unless it is migrated. For more information, see technote 1242317 "Migrating privacy data after upgrading to Sametime 7.5." This technote is available at:

<http://www.ibm.com/support/docview.wss?rs=203&uid=swg21242317>

## Configuration notes

### Launching and configuring the Sametime Connect 7.5 client

After you install the Lotus Sametime Connect 7.5 client, you can launch the client and complete the configuration as follows:

1. If you wish to create a shortcut to the Sametime Connect client on your windows desktop, create one pointing to `sametime.exe` in the Sametime folder you installed the client to.
2. Launch the client by running `sametime.exe` (Windows) or `./sametime` (Linux) in the `sametime` directory that was created when you extracted the files.

The first time you launch the client, you will need to enter the host name of your Sametime server. This could be a ST 7.5 server or a pre-7.5 Sametime server. See the known limitations section for a list of the features that will not be available in the client if you connect to a pre-7.5 Sametime server.

The Sametime Connect 7.5 client supports login to multiple Sametime communities from a single client instance. Your primary Sametime community is defined as the Sametime server you provide initially in the login window. Your primary server is where your contact list that holds users from multiple communities will actually be stored. In addition, the password to the primary community is the password you will use to "login" to the client each time you launch it. If you choose to define additional Sametime communities, you can select to have their password stored and to be logged in automatically to them, simply by logging in to your primary Sametime community. See instructions below for how to add additional Sametime communities. You can change your primary community by clicking the "Reset User" button on the Login dialog.

Use the name of the server from which you downloaded the files, unless your administrator has instructed you to use a different server.

3. After entering your primary community Sametime server in the host field, enter your user name and password for that community and click the Login button.
4. After connecting to your Sametime server, your Contacts list will appear. If you are connecting to a Sametime server that you have used before, you will see your existing Contacts list. If you are connecting to this Sametime server for the first time, you will see a Contacts list with a group called "Work" containing your name. (Note: If you already have a Contacts list on this server, the Sametime Connect 7.5 client will make a new copy of your Contacts list. Any changes you make to your Contacts list using the Sametime Connect 7.5 client will not be visible to older Sametime client releases).
5. To add a new Contact or Group to your Contacts list, select File -> New -> Contact or Group.
6. To add a new Community, select File -> New -> Community. Since we only support Sametime communities in this release, click Next in the dialog that shows up. In the next dialog enter the community information and select any options you would like. Once the community is added, you will see additional icons at the top left of the main client window. By clicking on these community icons you can login/logout, change status and do other actions on each community.

The next time you launch the Sametime Connect 7.5 client, the Login to Sametime window appears. Enter the password you specified in step 2 above, then click Login to connect to the server. If you later decide to change either your logon password or any information you entered on the Login Information screen (step 3 above), use the Reset User button on the Login to Sametime window. This will discard all of the information you have entered, and will start the configuration process again, as if you are launching the Sametime Connect 7.5 client for the first time, allowing you to change your primary community. Note that Reset User does not affect your Contacts list in this release.

## Sametime 7.5 Reverse Proxy configuration

In the Sametime Administrator's Guide, Configuring Ports and Network Connectivity (chapter 5), the feature to enable reverse proxy discovery on the client is not functional. This feature enables clients to connect to a Sametime server through a reverse proxy server. Corporate intranet users who are not required to route connections through the reverse proxy can still establish connections with the Sametime server.

Capability to enable reverse proxy discovery on the client enhances the existing logic in Sametime clients by adding the reverse proxy connection logic to existing logic which is still present and operable in the client. The Sametime Connect for browsers client includes a "Host name" and "Port" setting in the Options-Preferences-Sametime Connectivity tab. The values in these settings are ignored when the Sametime server is configured to operate with a reverse proxy server. (In a normal Sametime deployment, these settings specify the Host name of the Sametime server to which the client should connect and the port number on which the Sametime server listens for connections from Sametime Connect clients).

1. Configure ST server to Enable Reverse Proxy Discovery on the client and set server alias; then restart server.
2. Configure Apache reverse proxy Rules are added to config file like these:

```
ProxyPass /sun2/communityCBR/ http://sun2.lotus.com:8082/communityCBR/
ProxyPass /sun2/CommunityCBR/ http://sun2.lotus.com:8082/CommunityCBR/
ProxyPass /sun2/MeetingCBR http://sun2.lotus.com:8081/MeetingCBR
ProxyPass /sun2/BroadcastCBR http://sun2.lotus.com:554/BroadcastCBR
ProxyPass /sun2/ http://sun2.lotus.com/
```

3. On the client, open browser and input URL: `http://cdl-proxy3.lotus.com:80/sun2/stcenter.nsf`
4. Click the Administer the Server link.
5. Page will not display.

## Configuring Sametime to work behind WebSEAL reverse proxy

The administrator's guide contains a "Using reverse proxy or portal servers with the Sametime server" that discusses using Sametime with reverse proxy servers.

If you are deploying Sametime behind a Tivoli WebSEAL reverse proxy server, there are some specific procedures and configurations you must employ to ensure the Sametime server can operate behind the WebSEAL reverse proxy server. These procedures and configurations are discussed below.

**Note:** The WebSEAL reverse proxy server must be listening on the default ports of 80 and 443 for the changes above to work.

To enable a Sametime server to operate behind a WebSEAL reverse proxy server:

1. You must configure the Sametime server to support HTTP tunneling on port 80. For instructions, refer to the "About HTTP tunneling" section in the "Configuring Sametime Connectivity" chapter of the *IBM Lotus Instant Messaging and Web Conferencing (Sametime) 7.5 Administrator's Guide*.

2. You must open the stlinks.js file on the Sametime server and modify the following two lines to point to your WebSEAL reverse proxy server and WebSEAL junction (the WebSEAL junction is "st" in the example below):

```
var ll_RProxyName="https://ampc0.support.tivlab.austin.ibm.com"  
var ll_AffinityID="st"
```

```
var is TAM-env=true;  
//racingConnTimeout-Timeout between racing connections in milliseconds. The value is sent to the  
STLinks applet var racingConn Timeout=5000;
```

To configure the server to work with STLinks in a regular (not TAM) environment, leave the following lines in stlinks.js without any change:

```
var is TAM-env=false;  
//racingConnTimeout-Timeout between racing connections in milliseconds. The value is sent to the  
STLinks applet.
```

1. Enable reverse proxy support and specify the WebSEAL junction in the Sametime Administration Tool on the Sametime 7.5 server.

- Open the Sametime Administration Tool on the Sametime 7.5 server.

- Select Configuration-Connectivity.

- In the "Reverse Proxy Support" section, select the "Enable Reverse Proxy Discovery on the client" setting to enable the reverse proxy support.

- In the "Reverse Proxy Support" section, enter the WebSEAL junction name in the "Server Alias" field. In this example, "st" is the WebSEAL junction name.

2. Create the Tivoli Access Manager WebSEAL junction as shown below:

```
pdadmin> server task webseald-[servername] create -t tcp -h [sametime hostname] -p 80 -i -j -A -F [  
path to LTPA key] -Z [LTPA key password]/junction
```

You cannot use the -w parameter for this setup. Some requests generated by Sametime are not allowed through the junction if the -w exists. You must also ensure that the LTPA key used in the junction is the same LTPA key that the Sametime server uses in its Web SSO Configuration document

After performing these configurations, you should be able to login to <https://webseal/stjunction> and be prompted by WebSEAL for authentication. Once authenticated, SSO between WebSEAL and Sametime should work and all requests for Sametime will route through WebSEAL.

## Sametime Administrator needs to be in LDAP for policies to work

Existing Sametime customers that use LDAP have the Sametime Administrator in the local Domino Directory. Until now, they didn't need to have a Sametime Administrator in LDAP; this is now required for Policies.

### Workaround

Put the DN name of an LDAP user in the full name of the existing local Sametime Administrator, replacing commas with forward slashes. By logging in to Sametime administration as the LDAP user, that user is automatically recognized as an administrator, and Policies will work. In Domino LDAP, if the full DN name of the user is "CN=xxx/OU=yyy/O=zzz", you should add the user in the format "xxx/yyy/zzz" to the ACL of `stconfig.nsf`.

## Sametime Connect and HTTPS connections on port 443 or 563

This release note discusses issues pertaining to Sametime Connect client connectivity on port 443. These issues include:

- Connecting to the Community Services on port 443 when the Domino HTTP server is configured to listen for SSL connections on port 443
- Sametime 2.5 Connect client compatibility issue when connecting to a Sametime 7.5 server on port 443 or 563
- Sametime 7.5 Connect client compatibility issue when connecting to a Sametime 2.5 server on port 443 or 563
- Community Services multiplexer on Sametime 7.5 server does not forward HTTPS connections on port 443 to the Domino HTTP server

### Connecting to the Community Services on port 443 when the Domino HTTP server is configured to listen for SSL connections on port 443

Sametime installs on a Domino server. Web browser users connect to the Domino HTTP server when accessing the Sametime server. If the Domino HTTP server is configured to support SSL for Web browser connections, the Domino HTTP server is usually configured to listen for these HTTPS connections on port 443 or port 563.

Some Sametime Connect clients may operate in networks that require the clients to connect to the Internet or intranet through an HTTPS proxy. Many network environments that require users to connect through an HTTPS proxy only allow outbound connections to occur on port 443. If a Sametime Connect client operates in such an environment, the following configurations must exist on the Sametime Connect client and the Sametime server for the connection to be successful:

In the Sametime Connect client Sametime Connectivity tab:

- The "Community port" setting must specify port 443.
- The "Use proxy" and "Use HTTPS proxy" settings must be selected. The IP address or DNS name of the HTTPS proxy server and port number used to connect to the HTTPS proxy server are also specified.
- In the Sametime Administration Tool on the Sametime server, the Community Services Network - Address for HTTPS-tunneled client connections - Port number setting must specify port 443.

With these configurations, the Sametime Connect client connects to the HTTPS proxy, and the proxy connects to the Sametime server on behalf of the Sametime Connect client. The connection from the proxy server to the Sametime server Community Services occurs on port 443. The Community Services on the Sametime server must be configured to listen for the HTTPS connections on port 443 to ensure the connection can succeed.

**Note** The configurations above enable Sametime Connect to establish a connection to a Sametime server through an HTTPS proxy server. The HTTPS connection method is used to establish the connection but the data passing over this connection is not encrypted with SSL.

If the Domino HTTP server is also configured to listen for HTTPS connections on port 443, a conflict occurs because the Sametime Community Services are also configured to listen for HTTPS connections on the same port number.

In this scenario, you must assign an additional IP address to the Sametime server to ensure that both Web browser users and Sametime Connect client users can connect to the Sametime server on port 443. This configuration requires the following steps:

- Bind the DNS name for the Sametime server to the Sametime HTTP server.
- Add a new IP address to the Sametime server machine.
- Map the new IP address to a new DNS name for the Sametime Community Services. This configuration is performed on the DNS server.
- Use the Sametime Administration Tool to add the new DNS name to the Community Services connectivity settings on the Sametime server. This configuration enables the Community Services to listen for HTTPS connections on the new DNS name.
- Configure the Sametime Connect clients to connect to the new Community Services DNS name.

**Note** The configuration described below can enable either a Sametime 2.5 (or higher) Connect client to connect to a Sametime 7.5 server on port 443 or 563.

Step-by-step instructions for these configurations are provided below.

### **Step 1 - Bind the base DNS name for the Sametime server to the Sametime HTTP server .**

1. Open the Sametime Administration Tool and select Configuration-Connectivity-Networks and Ports-Configure HTTP services on a Web page in its own window. The HTTP section of the Server document in the Domino Directory opens and displays in a separate window on the computer.
2. Under the Basics heading in the "Host name" field, enter the base DNS name for the Sametime HTTP server (for example, www.sametime1.com).

Under the Basics heading In the "Host name" field, also enter 127.0.0.1. This entry is required for the Sametime Administration Tool to operate in this configuration. Place a comma between the DNS name of the HTTP server and the 127.0.0.1 entry (e.g. www.sametime1.acme, 127.0.0.1)

3. Click "Save & Close" at the top of the Server document. After the document closes, close the Server-Servers view of the Domino Directory.

## Step 2 - Add a new IP address to the Sametime server machine .

To add a new IP address to the Sametime server, you can either install an additional Network Interface Card (NIC) in the Sametime server machine or assign multiple IP addresses to a single NIC.

To assign multiple IP addresses to a single NIC on a Windows machine:

1. Open the Windows Control Panel.
2. Click the Protocols tab.
3. Select TCP/IP Protocols-Properties-Specify an IP Address.
4. Click the Advanced tab.
5. Use the Advanced IP Addressing screen to assign multiple IP addresses to a single NIC.

## Step 3 - Set up your DNS server to map the IP address to a DNS name for Sametime Community Services.

After you have added a new IP address to the Sametime server, set up your DNS server to map the new IP address to a DNS name for the Sametime server Community Services.

For the Community Services, map the IP address to the DNS name "community-xxx.xxx.xxx" (where xxx.xxx.xxx is the DNS name that was bound to the Sametime HTTP server in step 1 above).

For example, you would map the new IP address to the DNS name "community-www.sametime1.com."

## Step 4 - Configure the HTTPS-tunneling settings in the Sametime Administration Tool

You must specify the new DNS name and port number for Community Services HTTPS connections in the Sametime Administration Tool.

1. Open the Sametime Administration Tool and select Configuration-Connectivity-Networks and Ports.
2. In the Community Services Network-Address for HTTPS-tunneled connections settings, specify the following:

**Host name:** community-xxx.xxx.xxx (Where xxx.xxx.xxx is the DNS name that was bound to the Sametime HTTP server. For example, community-www.sametime1.com.)

**Port number:** 443

With this configuration, the Sametime Community Services multiplexer will listen for HTTPS-tunneled connections on host name community-www.sametime1.com on port 443.

## Step 5 - Configure the Sametime Connect clients to connect to the new DNS name of the Community Services

To connect to a Sametime server configured to listen for HTTPS connections on the host name and port specified above, the Sametime Connect client must have the following settings in the Sametime Connectivity tab:

- The "Host" setting must specify community-www.sametime1.com.

**Note** If a Sametime 2.5 Connect client connects to a Sametime 7.5 server using HTTPS on port 443 or 563, it is only necessary to enter the server name (www.sametime1.com) in the "Host" setting of the Sametime 2.5 Connect client. For example, enter "www.sametime1.com" instead of "community-www.sametime1.com" in the "Host" field. For more information, see "Sametime 2.5 Connect client compatibility issue when connecting to a Sametime 7.5 server on port 443 or 563" below.

- The "Community port" setting must specify 443.
- "Use proxy" and "Use HTTPS proxy" must be selected. Enter the host name and port on which the Sametime Connect client connects to the HTTPS proxy.

### Sametime 2.5 Connect client compatibility issue when connecting to a Sametime 7.5 server on port 443 or 563

The Sametime 2.5 Connect client is designed to use HTTPS tunneling on ports 443 or 563 to connect to a server that uses multiple IP addresses.

When a Sametime 2.5 server is configured to listen for HTTPS-tunneled client connections on port 443 or 563, the server listens for Community Services connections on the server name "Community-servername." For example, if your Sametime 2.5 server is named sametimeserver.acme.com, the server listens for HTTPS-tunneled Community Services connections on ports 443 or 563 on the server name "Community-sametimeserver.acme.com." The Sametime 2.5 server is hard-coded to prepend the string "Community-" to its server name when listening for Community Services connections on ports 443 or 563. This design in the Sametime 2.5 server accommodates the multiple IP address issues discussed in "Connecting to the Community Services on port 443 when the Domino HTTP server is configured to listen for SSL connections on port 443" above.

The Sametime 2.5 Connect client is also hard-coded to prepend the string "Community-" to its Host setting when its "Community port" setting specifies port 443 or 563. For example, assume the following settings exist in the Sametime Connectivity tab of a Sametime 2.5 Connect client:

- Host - "sametimeserver1.acme.com"
- Community port - Either port 443 or port 563 is specified.

With this configuration, the Sametime 2.5 Connect client attempts the connection to the server name "Community-sametimeserver1.acme.com" even though the string "sametimeserver1.acme.com" is entered in its Host setting.

Because the Sametime 2.5 Connect client automatically prepends the string "Community-" to its host name, it is not necessary to enter the string "Community-servername" in the Sametime 2.5 Connect client when this client connects to a Sametime 7.5 server that is configured to listen for HTTPS connections on multiple IP addresses.

Note also that when a Sametime 7.5 server listens for HTTPS-tunneled connections from Sametime 2.5 Connect clients, the additional DNS name assigned to the Community Services on the Sametime 7.5 server must begin with the "Community-" string, as described in "Connecting to the Community Services on port 443 when the Domino HTTP server is configured to listen for SSL connections on port 443" above. If the Sametime 7.5 Community Services DNS name does not begin with the "Community-" string, the Sametime 2.5 Connect client cannot connect to the Sametime 7.5 server.

**Sametime 7.5 Connect client compatibility issue when connecting to a Sametime 2.5 server on port 443 or 563**

If a Sametime 7.5 Connect client connects via HTTPS-tunneling to a Sametime 2.5 server on port 443 or 563, the Sametime 7.5 Connect client does not prepend the "Community-" string to its host name when making the connection to the Sametime 2.5 server.

The Sametime 2.5 server is hard-coded to prepend the string "Community-" to its server name when listening for HTTPS connections on port 443 or 563. To ensure the Sametime 7.5 Connect client can connect to the Sametime 2.5 Community Services on port 443 or 563, the string "Community-" must be manually added to the Host name in the Sametime Connectivity tab in the Sametime 7.5 Connect client.

Manually adding the "Community-" string to the Host name in the Sametime 7.5 Connect client ensures that the client attempts the connections on the name on which the Sametime 2.5 server listens for the connections.

For example, to ensure a Sametime 7.5 Connect client can connect on port 443 or 563 to the Sametime 2.5 server named "sametimeserver1.acme.com," the following settings must exist in the Sametime Connectivity tab of the Sametime 7.5 Connect client:

- Host - "Community-sametimeserver1.acme.com."
- Community port - Either port 443 or port 563 is specified. (Specify the port on which the Sametime 2.5 server listens for HTTPS-tunneled connections.)

**Community Services multiplexer on Sametime 7.5 server does not forward HTTPS connections on port 443 to the Domino HTTP server**

A Sametime 7.5 server can simultaneously listen for HTTP connections to multiple services on port 80 when the Sametime server machine includes a single IP address. For example:

- A Web browser can connect to the Domino HTTP server on a Sametime server on port 80.
- A Sametime Connect client can make an HTTP-tunneled connection to the Sametime Community Services on port 80.
- A Sametime Meeting Room client can make HTTP-tunneled connections to both the Sametime Community Services and Meeting Services on port 80.

All of these connections can occur to the same DNS name using port 80. On a Sametime 7.5 server, it is not necessary to assign separate IP addresses to the HTTP Services, Community Services, and Meeting Services to enable connections to all services to occur using a single DNS name on port 80. The design of the Community Services multiplexer on a Sametime 7.5 server makes this capability possible. The Community Services multiplexer can listen for HTTP connections from Web browsers, Sametime Connect clients, and Sametime Meeting Room clients on port 80. The Community Services multiplexer examines these connections and then forwards the connections to the appropriate service. For example, the Community Services multiplexer forwards the Web browser connections to the Domino HTTP Server, the Community Services connections to the Community Services, and the Meeting Services connections to the Meeting Services.

Note that the Community Services multiplexer on a Sametime 7.5 server cannot listen for connections on port 443 or 563 and then forward these connections to the Domino HTTP server. The Community Services multiplexer can forward HTTP connections on port 80 to the Domino HTTP server, but not connections on port 443 or 563. For this reason, a Sametime 7.5 server must be assigned multiple IP addresses when both the Domino HTTP server and the Sametime Community Services on the Sametime server must listen for connections on port 443 or 563.

**Note** The Community Services multiplexer on a Sametime 7.5 server also cannot listen for HTTPS connections to the Sametime Meeting Services or Community Services on ports 443 or 563 and forward these connections to the Community Services and Meeting Services. HTTPS-tunneling to the Sametime Meeting Services is not supported. Sametime Meeting Room clients cannot connect to the Sametime Meeting Services through an HTTPS proxy server.

### Windows DEP process causes launch error

If Windows server administrators are running the Data Execution Prevention (DEP) process on their Windows server, the server will view the Sametime launch task `StLaunch` as a potentially malicious thread, and halt the process. The error message received is:

```
To Help protect your computer, Windows has closed this program:Name:
StLaunchPublisher:
```

### Workaround

Turn off the DEP process on Windows servers before launching the `StLaunch` task.

### Adjusting the logging level in `sametime.properties`

For the Sametime client, the properties relevant to logging into `sametime.properties` are described below. The `sametime.properties` file is found in the installation root. By default the `.level` value is set to `INFO`.

```
## Logging properties
.level=INFO
logger.filename=sametime.log
logger.includeClassInfo=true
logger.toConsole=true
logger.level=ALL
logger.limit=20000000
logger.count=4
redirectSystemOutput=false
```

`.level`

The default logging level for the application. This level is applied to the root logger, and the level that should be changed to trigger more verbose logging.

The options from most verbose to least verbose are as follows:

```
FINEST
FINER
FINE - shows fine messages, which produces much useful debug information
INFO - default level
WARNING
SEVERE
```

If experiencing a bug, set `.level` to `FINE`, reproduce the problem and examine the `sametime.log.0` file located in the user workspace, typically "C:\Documents and Settings\\Application Data\Sametime" on a Windows system.

## Clustered Sametime communities should have single host name

When configuring a Sametime server cluster with multiple nodes, it is important to front-end the cluster or "community" with a single virtual host or DNS name. The ST 7.5 client makes a direct connection between a "community" and host name as entered in the client connectivity settings. This means that if a user enters "Node A" as the host name and then changes it to "Node B", they will not see users online, because users of "Node A" are not recognized as belonging to "Node B".

This restriction will be relaxed in future releases, but in order to avoid such issues it is important to front-end the cluster with an IP sprayer or other mechanism that provides a single virtual host name to the community. This is a good practice, as it provides for added administration flexibility for replacing nodes without affecting end user clients, and without coupling the clients to specific machine host names.

## Conversion Services on Windows Sametime servers

Sametime Conversion Services is a feature that takes files of various formats (slides, images, documents, etc.) and provides a bitmap rendering, so they can be shared in a meeting as slides. Sametime Conversion Services has been enhanced for Sametime 7.5 to use new conversion technologies that provide more faithful rendering of slides. When you install Sametime 7.5 on Windows, Sametime Conversion Services is always installed on the server as a Domino servlet. This is a change from previous releases that administrators of Windows Sametime servers need to be aware of in the following situations:

- **Windows Sametime server configured for SSL**

If you have an existing Sametime server running on Windows that is configured to encrypt Web browser connections with SSL, you must manually update a file on your Sametime server after upgrading to Sametime 7.5. After upgrading your Sametime server, you must modify the conversion server configuration so that Sametime can continue to access the conversion servlet. If you do not update the conversion server configuration, meeting file attachments will not be converted for display in the meeting room as slides.

You must make similar changes to the conversion server configuration if you decide to configure your Sametime 7.5 server for SSL at a later time.

For detailed instructions, see "Securing Conversion Services with SSL" in the Sametime 7.5 Administrator's Guide. Complete the step that describes how to update the **stconvservices.properties** file. On Windows, this file is located in the Sametime binary directory (usually C:\lotus\domino).

- **Reconfiguring Domino HTTP on Sametime server**

When you install Sametime 7.5, the Sametime server is automatically configured so that it can properly access the conversion servlet. If you decide to reconfigure Domino HTTP on your Sametime 7.5 server to use a different IP address or port, you must update the **stconvservices.properties** file with the correct IP address and port so that the Sametime server can continue to access the conversion servlet. On Windows, this file is located in the Sametime binary directory (usually C:\lotus\domino).

## Multiple Community considerations

The 7.5 Sametime Connect client supports the ability to define multiple Sametime communities in an interface, and be logged into one or more of those communities at the same time. There are some important points to consider if you need to define more than one community or switch from one community to another:

- If you have multiple communities in which some are 7.5 communities and some are pre-7.5 communities, you should define your primary community (the main community defined first when the client is first run) as your most used 7.5 community.
- Some features in 7.5 work only with your primary community and require policies to be enabled for them, for example, voice chat and telephony. You will not be able to voice chat or participate in telephony calls with users of a community that is not defined as your primary community.
- Selective 'Do Not Disturb' requires a 7.5 server, and will only work with users from your primary community

## New UNIX config values not always propagated by single restart

At a high level, configuration values on a Sametime server are provided to system components by a configuration servlet. The values provided by this servlet are stored in a cache to improve performance. When system components retrieve values, these values come from the cache.

If configuration changes are made directly to a data source, such as STConfig.nsf or sametime.ini, the server must be restarted. On Windows, as the server comes up, the config cache is refreshed from the config servlet before system components can retrieve values from the cache.

On UNIX, however, the order of component startup is more random than on Windows. As a result, it's possible that system components will retrieve configuration values from the cache before it gets refreshed. As a result, the refresh of the cache occurs after values have already been retrieved. If this happens, a second restart of the server will guarantee that system components retrieve the freshest configuration values.

There are a couple of other methods for changing configuration values that should assure retrieval of the latest values:

1. Make the configuration changes.
- 2 Stop the server.
3. Delete the file 'SametimeCommunity2.xml' from the data directory.
4. Restart the server.

Or method:

1. Make the configuration changes.
2. In the Domino console, restart the HTTP server with the command 'tell http restart'.
3. Wait a few moments for Domino to respond that the HTTP server has restarted.
4. Restart the entire server.

Either of these methods should cause system components to retrieve the latest configuration values.

## Real-Time Collaboration Gateway replaces Sametime SIP Gateway

The SIP Gateway and SIP Connector which were delivered with earlier releases of Lotus Sametime are not included with Lotus Sametime 7.5. The ability to share presence and exchange text-based instant messages previously provided by these components are now being provided by the new IBM Lotus Real-Time Collaboration Gateway.

The Real-Time Collaboration Gateway is an extensible platform built on WebSphere Application Server, and allows various real-time collaboration communities such as IBM Lotus Sametime and public instant messaging (IM) services to share presence and exchange text-based instant messages with each other. The Real-Time Collaboration Gateway receives messages from one or more communities, checks their legitimacy, translates them if necessary, and forwards them to their destination.

Enabling the Real-Time Collaboration Gateway functionality requires the installation of separate components which will be available shortly after the general availability of Lotus Sametime 7.5. As more information becomes available, it will be posted on the Lotus Sametime home page:

<http://www.ibm.com/lotus/sametime>

When the Real-Time Collaboration Gateway is available for Sametime 7.5, you will be able to view the IBM Lotus Real-Time Collaboration Gateway information center at:

<http://publib.boulder.ibm.com/infocenter/rtchelp/v1r0/index.jsp>

Until the RTC Gateway is released, customers who want to continue using SIP to communicate with other communities should follow the steps in technote #1244026 **before** upgrading their server to Sametime 7.5:

<http://www.ibm.com/developerworks/lotus/support/>

## Sametime 7.5 does not provide a virus scanner

Sametime 7.5 does not provide a virus scanner. However, Sametime 7.5 can be configured to call a third-party virus scanning program before transferring a file.

Do not choose "Always" as the value for "Virus scan files before transferring" in Sametime Administration unless you have acquired and deployed a virus scanning program.

## UIM Client file transfer overview

The UIM client can transfer files by either one of two methods: via the server (RTC), or via peer to peer (P2P). The method is chosen programmatically at runtime and depends on server, as well as client, settings.

### Server file transfer (RTC)

When this method is used, the UIM client will call upon the Real-Time Collaboration (RTC) API to transfer the file. The RTC layer then communicates directly with the Sametime server, and passes the file through the server, to the receiving user. RTC file transfers honor the existing Sametime user policies for allow/disallow file transfer, maximum size of file allowed, and file types disallowed from transfer.

### Peer-to-peer file transfer (P2P)

When this method is used, the UIM client will attempt to connect directly to the chat partner's machine, and transfer the file if a successful connection is established. P2P file transfers bypass all Sametime user policy checks. In order to be able to use this transfer method, the user's `sametime.properties` file must contain the `p2p` flag (`filetransferP2pAllow`) set to 'True'. This file can be found in the UIM client install directory.

## Virus Scanning

Though not directly related to 'how' a file is transferred, the existence of the virus scanner in the Sametime server helps determine 'which' method is used for transfer. The Sametime server has hooks to allow for the operation of a third-party virus scanning tool. If the server is configured to virus scan, then the method used for transfer must be the server. P2P file transfers do not get scanned for viruses.

## RTC or P2P?

The first thing that needs to be determined is whether or not the user is allowed to transfer files. This is done by first looking at the Sametime server setting for "Community Services - Allow users to transfer files". This is a global setting that affects all users in that Sametime community. This setting is then combined with the Sametime User Policy setting. The outcome is the final UIM policy for file transfer. The following table shows the possible outcomes in this scenario.

	<b>Sametime User Policy allows file transfers</b>	<b>Sametime User Policy does NOT allow file transfers.</b>
<b>Sametime server allows users to transfer files</b>	UIM client allows file transfers.	UIM client does NOT allow file transfers.
<b>Sametime server does NOT allow users to transfer files</b>	UIM client does NOT allow file transfers.	UIM client does NOT allow file transfers.

### - The UIM client does NOT allow file transfers .

If the UIM client does not allow file transfers and both users' (sender and receiver) sametime.properties file contains the P2P flag (see above), and both users have P2P capability, then the file transfer will occur via P2P; any UIM Sametime 7.5 client has P2P capabilities.

### - The UIM client allows file transfers .

Once you know you have permission from the server to transfer files, the next step is to check whether or not you have a working virus scanner on the server.

#### - Virus scanning is enabled on the server

With virus scanning enabled on the server, the file transfer will occur via the server (RTC) with a message on the chat window indicating this.

#### - Virus scanning is not enabled on the server

If virus scanning is not enabled on the server, the file transfer will occur via P2P, if the users (sender and receiver) both have the P2P flag set and have P2P capability. A message is displayed in the chat window indicating that the file will not be scanned for viruses.

In the event that either user does not have P2P flag enabled or capability, the file will be transferred via RTC, also with a message in the chat window indicating that the file will not be scanned for viruses.

## UIM 7.5 Client and pre-UIM 7.5 Client

File transfer between the 7.5 client and pre-7.5 clients will always go through the server. Pre-7.5 clients are not P2P capable. As such, when chatting from a 7.5 client to a pre-7.5 client, if file transfer is not allowed in the user Policy, then the file transfer icon will be disabled for the pre-7.5 client user. This is the result of a "Capabilities" check.

**Which transfer method is my client using?**

Debug sametime client logs are needed to determine this:

1. Open sametime.properties
2. Set ".level" to "FINE" (.level=FINE). NOTE: do not confuse '.level' with 'logger.level'.
3. Use your client for file transfer
4. Go to the Sametime user folder (this is not the install folder; the Sametime user folder can found within the user's C:\Documents and Settings folder)
5. Locate file name sametime.log.0

Server (RTC) file transfer logging will look like this:

```
[com.ibm.collaboration.realtime.filetransfer.FileTransferServiceFactory.
getService] ::FINE:: File Transfer enabled in Policy
[com.ibm.collaboration.realtime.filetransfer.FileTransferServiceFactory.
getService] ::FINE:: Virus scanning is available for this file transfer
[com.ibm.collaboration.realtime.filetransfer.FileTransferServiceFactory.
getService] ::FINE:: Virus Scanning is enabled. Using RTC file
Transfer.
[com.ibm.collaboration.realtime.filetransfer.rtc.FileTransferServiceRtc
.fileTransferStarted] ::FINE:: RTC File Transfer Started...
[com.ibm.collaboration.realtime.filetransfer.rtc.FileTransferServiceRtc
.fileTransferCompleted] ::INFO:: RTC File Transfer Completed
```

P2P file transfer logging will look like this:

```
[com.ibm.collaboration.realtime.filetransfer.FileTransferServiceFactory.
getService] ::FINE:: File Transfer disabled in Policy. Using P2P.
[com.ibm.collaboration.realtime.filetransfer.FileTransferServiceFactory.
getService] ::FINE:: Virus scanning is not available
[com.ibm.collaboration.realtime.filetransfer.p2p.FileSender
.startTransfer] ::FINE:: Transfer started...
[com.ibm.collaboration.realtime.filetransfer.p2p.FileSender
.closeFileInputStream] ::FINE:: Closing file input stream...
[com.ibm.collaboration.realtime.filetransfer.p2p.FileTransferServer.addF
ileSender] ::FINE:: added id1155131608343
[com.ibm.collaboration.realtime.filetransfer.p2p.FileTransferServer.star
tServer] ::FINE:: Starting filetransfer server on port 5656
[com.ibm.collaboration.realtime.rtcadapter.meeting.ChatAdapter.messageRe
ceived] ::FINE:: messageReceived [meeting CONV$4DEA2B75C606C469] msg
type: text
[com.ibm.collaboration.realtime.filetransfer.p2p.FileSender.onTransferAc
cepted] ::FINE:: [Transfer accepted] notice received
[com.ibm.collaboration.realtime.filetransfer.p2p.FileSender.onTransferAc
cepted] ::FINE:: Transfer accepted by receiver. Testing connectivity...
```

**Voice chat and Network Address Translation (NAT)**

The Sametime 7.5 voice chat component provides Voice over IP (VoIP) services. To work correctly, voice chat needs to have the network configured properly. Voice chat works with UDP packets; it **needs** UDP ports to be opened on the firewall of every 7.5 client. The clients are using a single port (UDP port 20830) for all audio chats; this port needs to be opened for both incoming and outgoing UDP traffic.

Voice chat operates in two different modes:

- Direct P2P connection: UDP packets flow directly between users
- Reflector connection: UDP packets go through an audio proxy, called a "reflector", which is a piece of code installed with the Sametime 7.5 server

In both modes, the firewall needs to let the UDP (port 20830) traffic flow in both directions. The direct P2P connection is used whenever possible, and is the recommended way of using voice chat.

The reflector mode is only used when a specific type of NAT (symmetric NAT) is detected. In that case, since both clients are unable to guess each other's IP address to establish a P2P connection, the UDP packets are relayed through the reflector.

This mode is used for compatibility, and performance will not be as good as direct P2P. Consequently, the user could experience additional delays, and a decrease of quality in the voice chat, depending on the ST 7.5 reflector availability.

For NAT environments, the reflector will be used. The reflector uses 2 TCP/UDP ports:

- 20831
- 20832

Those ports must be opened for incoming and outgoing UDP and TCP traffic, on the reflector machine. It is recommended that the reflector machine have a static IP address.

In case the reflector is running on multiple network interfaces, it must be configured with either a hostname or an IP address, so that clients know which address to use to connect to the reflector.

For example, in the [STReflector] section of the sametime.ini file

```
STREFLECTOR_SERVER_NAME=reflector.domain.com
```

or

```
STREFLECTOR_SERVER_NAME=192.168.1.1
```

If the reflector is located in an environment with two different subnets, the reflector needs to be accessible from different networks, hence the property STREFLECTOR\_SERVER\_NAME should be a fully-qualified hostname, which resolves to the appropriate addresses in both networks/subnets.

In case the 7.5 client is running against a pre-7.5 server, the voice chat component may not work correctly in a number of cases:

- The client has multiple network interfaces (in that case, the 7.5 client might get confused as to which interface should be used)
- The client is sitting behind a router/NAT

The symptoms experienced by the client in these cases is that one (or both) of the parties in the voice chat will not be able to hear each other, even though the chat window will show a "connected" status. To confirm the problem, the user can increase the log level of the client to FINE, and look in the log for entries related to "reflector". The IP detection problem will be signaled.

The 7.5 client has the ability to host calls with up to 5 participants, including the host. During such calls, the host is the creator of the call. The host will mix the audio streams for each participant. Consequently, the host will have up to 4 incoming/outgoing audio streams, which will multiply the amount of bandwidth necessary. It is recommended that for multi-party voice chats, the client with the most bandwidth hosts the call.

Sametime 7.5 is using the iSAC codec for all voice chats. This codec is an adaptive bandwidth codec, which requires between 10.6 to 28.8 kbits (headers included), depending on the voice activity and the network quality. For example, during a 3-way call, the host will require twice that amount (between 21.2 and 57.6 kbits), both incoming and outgoing. The other 2 participants, will only require between 10.6 and 28.8 kbit/s.

The CPU requirement for hosting calls is 'medium': a 1GHz machine can easily mix a 3-way call; a 2GHz machine can mix a 5-way call easily. During a voice chat call, the Sametime process is running at high priority under Windows (regular priority under Linux), because voice processing needs to be real-time to avoid quality issues. After the call terminates, the process goes back to normal priority.

If the user drags windows around (especially chat windows), or does some other activity which is either CPU or network intensive, the quality of the call will decrease. The codec will try to automatically recover when conditions improve. This process can take a few seconds. By pausing/resuming their calls (by clicking the "pause" / "resume" button on the audio toolbar of the chat window), the user can force a "reset" of the call quality; this is equivalent to ending and starting a new call.

It is recommended that you disable or reduce any download or other CPU-intensive activity during a call, in order to obtain maximum quality. Network administrators might want to mark the UDP packets from port 20830 with a higher class of service in order to increase voice quality.



## Chapter 3 - Known limitations, problems, and workarounds

### Limitations

#### Installation issues

##### **Sametime Connect for Browsers is not included with Sametime 7.5**

Lotus Sametime Connect for Browsers is not included with Sametime 7.5. If Sametime Connect for Browsers is needed for your Sametime 7.5 installation, see technote 1243158, "Deploying Sametime 7.0 Connect for Browsers on a Sametime 7.5 server", at:

<http://www.ibm.com/support/docview.wss?rs=203&uid=swg21243158>

##### **Telephony MSP can not be installed to Turkish OS**

The Telephony Mock Service Provider can not be installed on a Turkish-localized operating system. This is a known and documented InstallShield issue, caused by a bug in the open source `hsqldb` engine:

<http://support.installshield.com/kb/view.asp?articleid=Q110959> and  
[http://sourceforge.net/tracker/index.php?func=detail&aid=900902&group\\_id=23316&atid=378131](http://sourceforge.net/tracker/index.php?func=detail&aid=900902&group_id=23316&atid=378131)

##### **Workaround**

Temporarily switch to an English locale during the installation.

##### **Use only ASCII characters for client installation path**

There is a known problem with installing the Sametime Connect client to a path that includes DBCS characters, for example, Chinese, Japanese or Korean. Please use only ASCII characters when selecting an installation location for this release.

## Client issues

### Directory Browsing supports one directory per community

Directory Browsing from the Add Contact dialog currently only supports one directory for each community the user is logged into. There is not an additional selection for multiple directories.

### Features not available with pre-7.5 server configurations

When using the 7.5 Sametime Connect client in environments that have pre-7.5 servers, the following features will not be available:

1. Business cards with extended user information and pictures
2. Selective 'Do Not Disturb'
3. Automatic "In a Meeting" status change when in meetings
4. Support for voice chat in configurations with NAT

### Linux: Automatic Reconnect not working

Automatic reconnect when losing network connectivity in the Linux Connect client does not work. This feature works only on the Windows connect client.

### Linux: Chat history can not be printed out

On Linux, selecting a Chat history, and then selecting File -> Print, does not work.

### Machines with only the Firefox browser are not supported

The Sametime Connect 7.5 client does not support configurations where the only browser installed on the machine is Firefox. This may be, for example, a Windows machine where Internet Explorer has been uninstalled, or a Linux machine where only Firefox is installed.

### Orange frame used as a selection aid is not drawn on Linux

When using Linux, Sametime does not draw an orange frame around the application that is highlighted in the Sharing dialog.

### Possible Linux sound issues with OSS

Sametime Connect 7.5 for Linux ships with OSS by default. If other application are using OSS, the Sametime Connect client may not be able to play sounds or participate in voice chats. This is a known OSS issue regarding applications sharing the system sound correctly.

### **Running in a hybrid environment with pre-7.5 clients**

The Sametime Connect 7.5 client can run in an environment with a mixture of new and old Sametime clients. Note that you will not be able to send rich text to pre-7.5 clients, and that the rich text tools will be disabled in such a client. Also note that when switching to "In a Meeting" status, you will be seen by older clients as "Online" with no status icon.

### **Some network connectivity options not available on Linux Connect**

The Linux Connect client does not support the following connectivity options, and they will not work even though they are available:

1. HTTP proxy with authentication
2. HTTPS proxy
3. Reverse proxy

### **Contact issues**

#### **Voice Chat only works with primary community**

You can only create voice chat sessions with other users in your primary community. Although the voice chat menu will be available for users from other communities, if you defined such additional communities, the feature is limited in this release to work only with your primary community.

#### **"\$" character in business card retrieving data from Domino LDAP**

Domino LDAP adds the "\$" sign to the `postalAddress` attribute. Therefore, when users' details are being retrieved from Domino LDAP, the value for Location contains "\$" signs. Since the value of this field is a concatenation of 3 other fields in the Name and Address Book (City, State/Province, and Country), a possible workaround is to fill only one of these fields.

### **Internationalization issues**

#### **Click To Call may not work correctly for Turkish locale**

For a Turkish locale setting, Click To Call may not work as expected.

**i5/OS: Avoid Turkish locale to install language pack from web**

If you use are using the Turkish locale and attempt to install the i5/OS language pack using the Web download version, several of the available languages are not displayed for selection.

You should temporarily set the system locale to something other than Turkish before running the RSTLSTLNG command to install the language pack. For example,

```
CHGSYSVAL SYSVAL(QLOCALE) VALUE(*NONE)
```

After you install the language pack, change the system locale back to Turkish.

**Note:** this is not a problem when installing the language pack from CD.

**Linux: Date displays incorrectly for Login page**

If running on Linux, the date or time may display as unreadable characters from the Administration -> Monitoring -> Login page.

**Meeting issues****Conversion Service failure produces no error message**

In Sametime 7.5, the Conversion Service can be configured in such a way that conversion takes place on a remote server. If, for some reason, a connection cannot be made to this remote server during the conversion process, the user will not see any error messages on the screen. The only symptom will be that a file is not attached to the Whiteboard. A detailed error message, however, will be printed in the logs.

**Dual monitors not supported**

The Screen Sharing feature in online meetings does not support dual/multiple monitors. Only data on the primary display/monitor can be shared.

**IME may disappear when XP users share entire screen**

If the Input Method Editor (IME) is not minimized in a taskbar, it may sometimes disappear when XP users share their entire screen in a meeting.

**In telephony, Mute may not work as expected**

When using telephony, the Mute features may not work as expected, depending on how the audio bridge responds to the Mute requests.

1. When the moderator chooses "Mute All", a mute with lock may result on everyone in the meeting except the moderator. If any users need to be unmuted, the moderator must unmute those users.
2. When a user mutes himself, a mute with lock may result. If this user needs to be unmuted, the moderator must unmute the user. Furthermore, anytime a user mutes himself, the moderator may unmute the user at any time.

**Linux: Meeting page may overlap with frame border**

If you are using Mozilla on Linux, the meeting page may overlap with the frame border.

**Preferences/Status Messages - In a Meeting settings**

In the Status Messages section of Preferences, the settings for "In a Meeting" do not consistently occur if the user changes the status by entering an online meeting from a community that is not the primary community. The primary community is the first one the UIM client was set up with.

**Some German characters may not work in shared application**

Sometimes, when a remote user inputs special German characters into a shared application during a Sametime meeting, the application may not work correctly.

**The date/time format in unlisted meeting pages is unlocalized**

When searching for an unlisted meeting, the date/time format in the search results may not follow a language-specific format.

**Users joining multiple meetings**

Users can log in to only one meeting on one Sametime server at a time. If users want to join more than one meeting or web conference at a time, they can do so only if a Community Services cluster has been created.

If a user logs in to a meeting, then attempts to log in to a second meeting, he or she is evicted from the first meeting, and refused access to the second meeting. To solve the problem, create a community services cluster, and specify the cluster in the configuration for the home Sametime server.

**When shared window is obstructed users will see gray**

When a user is Screen Sharing an application window in a meeting, and that window is obstructed by another application/window, participants in the meeting will see the shared area grayed out. This is a security feature, to ensure only the desired application is visible to meeting participants.

To avoid this problem:

1. Make sure your shared window/application is not obstructed by another window/application.
2. Use either "Share a resizable frame" or "Share Desktop", in which case the frame or desktop cannot be obstructed.

**Year/Month format is not localized in Calendar dialog**

The Year/Month format may not follow a pre-determined, language-specific format in the Meeting center Calendar dialog.

**"Join the Call" button may take a few moments before enabling**

When using the Telephony tools in an online meeting, it is possible for the "Join the Call" button to take a few moments after successfully connecting to the telephony service provider to become enabled. This is a factor of how quickly the Telephony Service Provider (a third-party component) notifies the Meeting Room Client that a user may join the call.

Be patient after entering the telephony service provider required information; the "Join Call" button will be enabled.

**Server issues****Do not create a Name Change Task with a non-existent file**

When creating a new Name Change Task, if you use a non-existent file, the function may not react correctly and return JavaScript errors.

**Domino Web Administration does not support Firefox 1.5.x**

When using Mozilla Firefox 1.5.x to access Sametime Web Administration, the linked Domino Web Administration does not support using Firefox 1.5.x; only Firefox 1.0.x is supported by Domino.

**Internet e-mail addresses not supported in LDAP attribute**

If a Sametime server is setup to use an LDAP directory, there is an optional setting in stconfig.nsf that specifies the LDAP attribute to use for the internal Sametime ID of a user. This setting cannot contain an LDAP attribute that holds the internet e-mail address for users. If it does, then web conferences that are restricted to certain users will not work properly and other user-restriction related features may be broken in Sametime.

**Telephony Mock Service Provider allowed to coexist with Avaya SP**

A Sametime server does not support both the Mock Service Provider and an Avaya Service Provider installed simultaneously. The installer for the Sametime 7.5 Telephony Mock Service Provider does not currently check for an existing Avaya Service Provider on the server (likewise, an Avaya Service Provider may not check for another existing service provider on the system). As a result, a user will be allowed to install both service providers on a server, even though doing so will not result in a working configuration.

To avoid this problem, never install both of these service providers simultaneously on a single Sametime server.

**Users appear offline logging into discrete nodes of a cluster**

Users in the buddy list are associated with a community; a community is unique, according to a hostname and user ID. Therefore, when logging into discrete hosts that represent a single, logical Sametime server, a new community is created for each one. Users associated with a particular community will only show awareness when logged into that community's host.

**Web conferencing issues****Directory dialogs do not show a user's online status**

The Directory and Invite dialogs do not correctly show added users' online status. A previous issue with not showing a user's capabilities (video camera, speakers, microphone) has been fixed.

**Leave Meeting fails in certain configurations**

With some versions of Mozilla/Firefox the "Leave Meeting" functionality fails in an Instant Meeting. When a user launches an Instant Meeting from the new instant messaging client using some versions of Mozilla/Firefox for the meeting, the "Leave Meeting" from the file menu may not work. This is due to Mozilla/Firefox not allowing JavaScript code to close the primary browser window. This does not affect scheduled meetings, and is not seen in Internet Explorer.

### **Password is not case-sensitive using Mozilla with RedHat 3.0**

When using a Mozilla browser to create a password-protected web conference, running with RedHat 3.0, the meeting password is not case-sensitive.

### **Premiere Global Services audio adapter not supported**

The IBM Lotus Web Conferencing Audio Adapter for Premiere Conferencing (now Premiere Global Services) for Lotus Sametime 6.5.1 and Lotus Sametime 7.0 is not supported for Lotus Sametime 7.5. For information on how to connect Lotus Sametime 7.5 with audio services from Premiere Global Services, please visit:

<http://www.premiereglobal.com/ilwc/>

### **Set maximum number of days for Web Conferences in Notes .INI**

A new feature has been added to Sametime 7.5 that allows administrators to limit how far in the future a web conference can be scheduled. This setting cannot be set from the Sametime Web Administration application, but instead must be configured in the Notes.INI file of the Sametime server. Administrators should set the parameter in Notes.INI as follows:

```
STScheduleLimitDays=10
```

The value of this parameter is the number of days in the future that a Web Conference can be scheduled to end. By default there is no limit, and setting this limit will cause a JavaScript alert box to pop-up when a user tries to schedule a web conference that ends more than the specified number of days from the current server time. This check is done only on the client at the time a web conference is scheduled, therefore existing web conferences will not be affected.

### **StarOffice Calc and Impress files cannot be shared**

Sametime Web Conferences do not support StarOffice Calc (.SXC) or StarOffice (.SXI) Impress files on the Whiteboard. These file types cannot be added to a new Web Conference on the Slides tab, nor as dynamic attachments during an active Web Conference.

























































