



Sun Java™ System

Communications Express 6 Administration Guide

2005Q1

Sun Microsystems, Inc.
4150 Network Circle
Santa Clara, CA 95054
U.S.A.

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Preface

This manual describes how to administer Sun Java™ System Communications Express 6 2005Q1 and its accompanying software components.

This preface contains the following sections:

- [Who Should Read This Book](#)
- [Before You Read This Book](#)
- [How This Book is Organized](#)
- [Conventions Used in This Manual](#)
- [Related Documentation](#)
- [Where to Find This Manual Online](#)
- [Accessing Sun Resources Online](#)
- [Contacting Sun Technical Support](#)
- [Related Third-Party Web Site References](#)
- [Sun Welcomes Your Comments](#)

Who Should Read This Book

You should read this book if you are responsible for administering, configuring, and deploying Communications Express.

Before You Read This Book

This book assumes that you are responsible for configuring, administering, and maintaining Communications Express, and you have an understanding of the following:

- JavaScript™
- HTML
- Sun Java™ System Calendar Server
- Sun Java™ System Web Server Enterprise Edition
- or
- Sun Java™ System Application Server Enterprise Edition
- Sun Java™ System Messaging Server
- Sun Java™ System Access Manager (also known as Sun Java™ System Identity Server)
- Sun Java™ System Directory Server

How This Book is Organized

This manual contains the following chapters:

Table 1 Organization of the Sun Java System Communications Express Administration Guide

| Chapter | Description |
|--|---|
| This chapter | Describes the audience, requirements, organization, document conventions, and related information. |
| Chapter 1, "Overview of Communications Express" | Provides a high-level overview of Communications Express, including the components, architecture, and interfaces. |
| Chapter 2, "Installing and Configuring Communications Express" | Describes how to invoke the configurator tool and configure Sun Java System Communications Express. |
| Chapter 3, "Configuration Details" | Describes the configuration details for Communications Express. |
| Chapter 4, "Implementing Single Sign-On" | Provides an overview of the single sign-on process and its implementation. |

Table 1 Organization of the Sun Java System Communications Express Administration Guide

| Chapter | Description |
|--|---|
| Chapter 5, "Troubleshooting" | Describes the common problems you may encounter during installation and deployment of Communications Express and outlines the steps to create and enable error logs. |
| Chapter 6, "Configuring the Hosted Domains" | Describes the changes to be made to Communications Express to enable hosted domains. |
| Chapter 7, "Migrating PAB Data to Addressbook Server" | Provides a high level overview of the data migration process and the steps to migrate PAB data to address book server. |
| Chapter 8, "Tuning and Performance Information" | Describes the tuning you can perform on Directory Server, Calendar Server, Web Server, and Communications Express to enhance performance. |
| Appendix A, "Enabling or Disabling Identity Server Post Deployment" | Describes the steps to enable or disable Identity Server post deployment |
| Appendix B, "Configuration Panel Sequence" | Lists the panel sequence depending on the schema and web container selected |
| Appendix C, "Installing Communications Express without Messaging Server and using a Single Tree Structure" | Describes how Communications Express uses the two Directory Information Tree mechanism and how an existing single tree namespace structure maps to the dual tree namespace. |
| Appendix D, "Configuration Parameters Reference" | Describes the configuration parameters for Communications Express present in db_config.properties file, uwccconfig.properties file, uwcauth.properties file, uwcclogging.properties file, uwcdomainconfig.properties file, and personalstore.properties file. |
| Glossary | |
| Index | |

Conventions Used in This Manual

The tables in this section describe the conventions used in this book.

Typographic Conventions

The following table describes the typographic changes used in this book.

Table 2 Typographic Conventions

| Typeface | Meaning | Examples |
|--------------------------------------|--|---|
| AaBbCc123 (Monospace) | Any text that appears on the computer screen or text that you should type. Can be API and language elements, HTML tags, web site URLs, command names, file names, directory path names, onscreen computer output, sample code. | Edit your <code>.login</code> file. Use <code>ls -a</code> to list all files. % You have mail. |
| AaBbCc123 (Monospace bold) | Text you should type when it appears within a code example or other onscreen computer output. | % su Password: |
| <i>AaBbCc123</i> (Italic) | A placeholder in a command or path name that you should replace with a real name or value (for example, a variable). Also can be a book title, new term, or word to be emphasized. | The file is located in the <i>msg_svr_base</i> /bin directory. Read Chapter 6 in the <i>User's Guide</i> . These are called <i>class</i> options. Do <i>not</i> save the file. |

Symbols

The following table describes the symbol conventions used in this book.

Table 3 Symbol Conventions

| Symbol | Description | Example | Meaning |
|--------|--|-----------------------|---|
| [] | Contains optional command options. | <code>ls [-l]</code> | The <code>-l</code> option is not required. |
| { } | Contains a set of choices for a required command option. | <code>-d {y n}</code> | The <code>-d</code> option requires that you use either the <code>y</code> argument or the <code>n</code> argument. |
| - | Joins simultaneous multiple keystrokes. | Control-A | Press the Control key while you press the A key. |
| + | Joins consecutive multiple keystrokes. | Ctrl+A+N | Press the Control key, release it, and then press the subsequent keys. |

Table 3 Symbol Conventions (*Continued*)

| Symbol | Description | Example | Meaning |
|--------|--|------------------------|---|
| > | Indicates menu item selection in a graphical user interface. | File > New > Templates | From the File menu, choose New. From the New submenu, choose Templates. |

Default Paths and File Names

The following table describes the default paths and file names used in this book.

Table 4 Default Paths and File Names

| Term | Description |
|---|--|
| <code>msg_svr_base</code> | Represents the base installation directory for Messaging Server. The default value of the <code>msg_svr_base</code> installation is as follows: Solaris™ systems: <code>/opt/SUNWmsgsr</code> Linux systems: <code>/opt/sun/messaging</code> |
| <code>cal_svr_base</code> | Represents the base installation directory for Calendar Server. The default value of the <code>cal_svr_base</code> installation is as follows: Solaris™ systems: <code>/opt/SUNWics5</code> Linux systems: <code>/opt/sun/calendar</code> |
| <code>uwc-basedir</code> | Represents install directory. The directory path is entered for Communications Express in the panel “Install Directories” of the JES installer. The default path is <code>var/opt/SUNWuwc</code> . |
| <code><i>uwc-deployed-path</i></code> / <code>WEB-INF/config</code> | Represents the directory under which all the Communications Express configuration files are located. |
| <code>uwc-deployed-path</code> | Represents the directory where Communications Express is deployed. The directory path is entered in the panel “Select Directory to Store Configuration and Data files” of the configurator tool. |
| <code><i>uwc-deployed-path</i></code> / <code>WEB-INF/domain</code> | Represents the directory that contains domain specific configuration files. |

Command Line Prompts

Command line prompts (for example, % for a C-Shell, or \$ for a Korn or Bourne shell) are not displayed in the examples. Depending on which operating system you are using, you will see a variety of different command line prompts. However, you should enter the command as it appears in the document unless specifically noted otherwise.

Related Documentation

The <http://docs.sun.com> web site enables you to access Sun technical documentation online. You can browse the archive or search for a specific book title or subject.

Messaging Server Documents

Use the following URL to see all the Messaging Server documentation:

http://docs.sun.com/coll/MessagingServer_05q1

The following documents are available:

- *Sun Java™ System Messaging Server Release Notes*
- *Sun Java™ System Messaging Server Deployment Planning Guide*
- *Sun Java™ System Messaging Server Administration Guide*
- *Sun Java™ System Messaging Server Administration Reference*
- *Sun Java™ System Messaging Server Developer's Reference*
- *Sun Java™ System Messenger Express Customization Guide*
- *Sun Java™ System Delegated Administrator Guide*

The Messaging Server product suite contains other products such as Sun Java™ System Console, Directory Server, and Administration Server. Documentation for these and other products can be found at the following URL:

<http://docs.sun.com/db/prod/sunone>

In addition to the software documentation, see the Messaging Server Software Forum for technical help on specific Messaging Server product questions. The forum can be found at the following URL:

<http://swforum.sun.com/jive/forum.jsp?forum=15>

Calendar Server Documents

Use the following URL to see all the Calendar Server documentation:

http://docs.sun.com/coll/CalendarServer_05q1

The following documents are available:

- *Sun Java™ System Calendar Server Release Notes*
- *Sun Java™ System Calendar Server Administration Guide*
- *Sun Java™ System Calendar Server Developer's Guide*

Communications Services Documents

Use either one of the following URLs to see the documentation that applies to all Communications Services products:

http://docs.sun.com/coll/MessagingServer_05q1

or

http://docs.sun.com/coll/CalendarServer_05q1

The following documents are available:

- *Sun Java™ System Communications Services User Management Utility Administration Guide*
- *Sun Java System Communications Services Deployment Planning Guide*
- *Sun Java™ System Communications Services Schema Migration Guide*
- *Sun Java™ System Communications Services Schema Reference*
- *Sun Java™ System Communications Services Event Notification Service Guide*
- *Sun Java™ System Communications Express Administration Guide*
- *Sun Java™ System Communications Express Customization Guide*

Where to Find This Manual Online

You can find the *Sun Java System Communications Express Administration Guide* online in PDF and HTML formats. This book can be found at the following URL:

<http://docs.sun.com/app/docs/doc/819-0115>

Accessing Sun Resources Online

For product downloads, professional services, patches and support, and additional developer information, go to the following:

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- Professional Services
<http://www.sun.com/service/sunps/sunone/index.html>
- Sun Enterprise Services, Solaris Patches, and Support
<http://sunsolve.sun.com/>
- Developer Information
<http://developers.sun.com/prodtech/index.html>

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Sun Welcomes Your Comments

Overview of Communications Express

Sun Java™ System Communications Express 6 2005Q1 provides a 508 compliant integrated web-based communication and collaboration client that caters to the needs of Internet Service Providers, Enterprises, and Original Equipment Manufacturers.

As a web-based client, the three client modules - Calendar, Address Book, and Mail of Communications Express depends on a browser for presentation.

This chapter contains the following sections:

- [System Requirements](#)
- [Product Features](#)
- [High-Level Architecture](#)
- [FAQ's on Deployment](#)

System Requirements

This section describes the following:

- [Platforms](#)
- [Software Dependencies](#)

Platforms

The product is supported on following platforms:

- Solaris 9 on Sparc with Webserver 6.1 SP4 and Application Server 8.1
- Solaris 9 on X86 with Webserver 6.1 SP4 and Application Server 8.1.
- Linux Red Hat 2.1 with Webserver 6.1 SP4 and Application Server 8.1

For optimal performance, use the browser and platform combinations listed below.

Table 1-1 Browser Platform Recommendations

| Browsers | Windows XP | Windows 2000 | Solaris | RH Linux | Macintosh OS X |
|------------------------|-------------------|---------------------|----------------|-----------------|-----------------------|
| Netscape™ Communicator | 7.2 | 7.2 | 7.2 | N/A | N/A |
| Internet Explorer | 6.0 sp1+ | 6.0 sp1+ | N/A | N/A | N/A |
| Mozilla™ | 1.4+ | 1.4+ | 1.4 | 1.4+ | N/A |

Software Dependencies

The following should be installed before installing Communications Express:

- Directory Server 5.2
 - Calendar Sever 6.2
 - Messaging Server 6.2
 - Access Manager 6.2 (formerly known as Identity Server) if you are using Schema 2
 - Web Server 6.1 SP4 with JDK version 1.5
- or
- Application Server 8.1

Product Features

- Communications Express has an integrated user interface for calendar, mail, and address book.
- Communications Express supports Identity Single Sign-On and Messaging Single Sign-On.

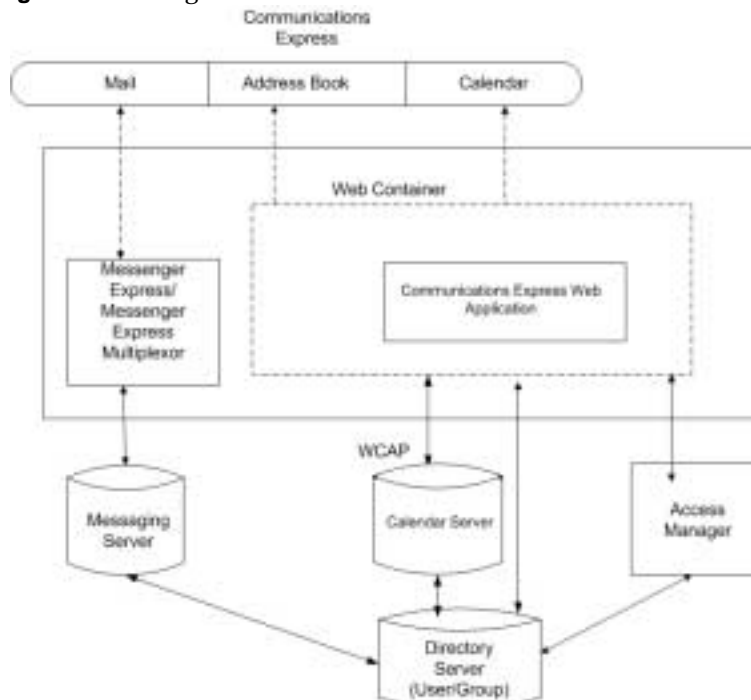
- Both calendar and mail applications share the same address book.
- Calendar, mail, and address book modules share the common user preferences specified in the Options tab of Communications Express.
- Communications Express supports virtual domain.

High-Level Architecture

The Calendar and Address Book client modules are deployed as a single web application in any web container. The mail module is rendered by the Messenger Express. Messenger Express is the standalone web interface mail application that uses the HTTP service of the Messaging Server.

Messenger Express or MEM should be deployed on the same system where Communications Express is deployed.

Figure 1-1 High Level Architecture



FAQ's on Deployment

This section provides answers to some frequently asked questions.

- [What is the purpose of Single Sign-on?](#)
- [When should I use Messaging Single Sign-On?](#)
- [When should I use Identity Server Single Sign-On?](#)
- [What are the deployment requirements for Communications Express?](#)
- [Can I point my Communications Express to a remote Messaging Server?](#)
- [Can PAB entries from an existing Messaging Server, for example, Messaging Server 5.2 or Messaging Server 6.0, be migrated to Communications Express?](#)
- [Can any of the application in Communications Express be disabled?](#)

What is the purpose of Single Sign-on?

Single Sign-on is required to seamlessly interoperate between calendar, address book, and mail.

When should I use Messaging Single Sign-On?

If the Messaging Server has already been setup to use Sun Java System LDAP Schema1 without Access Manager support, enable Messaging Single Sign-On to authenticate.

To enable Single Sign-on in Communications Express using Messaging Single Sign-On, refer to the section on "[Setting up Messaging Single Sign-On](#)," in Chapter 4 of this guide.

When should I use Identity Server Single Sign-On?

If you have an existing setup with Sun Java System LDAP Schema 2 configured, enable the Identity Server Single Sign-on.

To enable Single Sign-on in Communications Express using Identity Server Single Sign-On, refer to the section "[Setting up Identity Server Single Sign-On](#)," in Chapter 4 of this guide.

What are the deployment requirements for Communications Express?

1. If mail is enabled, Messenger Express should be installed and configured on the same host.
 - a. **Can I point my Communications Express to a remote Messaging Server?**

You can. For this you need to install the Messaging Server on the same host as the Communications Express, configure this messaging installation as MEM and point it to the remote Messaging Server.

2. If Access Manager is enabled, Install Access Manager on the same machine as Communications Express, or install Access Manager SDK and configure it to point to the remote Access Manager.

To configure remote Access Manager SDK, refer to the steps mentioned under the procedure [To Deploy Identity Server and Communications Express in Different Web Container Instance](#) in Chapter 4 of this guide.

Can PAB entries from an existing Messaging Server, for example, Messaging Server 5.2 or Messaging Server 6.0, be migrated to Communications Express?

Yes. Refer to [Chapter 7, "Migrating PAB Data to Addressbook Server,"](#) for migration details.

Can any of the application in Communications Express be disabled?

You can disable Calendar and Mail application, but cannot disable the Address book Application.

Installing and Configuring Communications Express

This chapter describes how to install and configure Communications Express.

The following topics are covered in this chapter:

- [Installing Communications Express from Java Enterprise System Installer](#)
- [Prerequisites for Configuring Communications Express](#)
- [Schema Choices](#)
- [Upgrading Communications Express](#)
- [Invoking Configuration Tool](#)
- [Configuring Communications Express](#)
- [Post Configuration Instructions](#)
- [Unconfiguring Communications Express](#)
- [Communications Express File Directory Layout](#)

-
- NOTE**
- Ensure Messaging Server 6.2 and Calendar Server 6.2 are installed and configured and that Messenger Express is configured on the same machine.
 - To use Sun Java System LDAP Schema, v.2, ensure that the latest Access Manager 6.2, formerly known as Identity Server is installed and configured.
 - Install Directory Preparation Script (comm_dssetup.p1) from the Java Enterprise System Installer.
-

Installing Communications Express from Java Enterprise System Installer

To install Communications Express follow the steps mentioned below:

NOTE Uninstall any previous installation of Communications Express.

You need to uninstall Communications Express using Java Enterprise System Uninstaller if you have installed it from an earlier build of the Java Enterprise System Installer. On Solaris, Sun Java™ Enterprise System Uninstaller is available at:

```
/var/sadm/prod/entsys/uninstall
```

1. Select Sun Java™ System Communications Express from the list of components displayed in Sun Java™ Enterprise System Install Wizard.

NOTE When Sun Java System Communications Express is selected, the products on which Communications Express depends on gets automatically selected. However, if any of these products are already installed in the system, the option is disabled.

2. The Install Directories panel is displayed. Browse to specify the name of the target installation directory for each component product.

Click Next.

3. After a couple of panels the Configuration Type panel is displayed.
 - a. Decide on the configuration type you want. The options available are:
 - **Configure Now.** Allows you to configure component products that permit configuration at installation time.
 - **Configure Later.** The installer installs the packages in the specified directory paths and proceeds without configuring them. For more details, refer to the section on Choosing a Configuration Type in Chapter 2 of the *Sun Java Enterprise System Installation Guide* at:

<http://docs.sun.com/db/doc/819-0056>

NOTE Communications Express cannot be configured from the Sun Java™ Enterprise System Install Wizard. You need to run the Communications Express configurator program to configure Communications Express.

- b.** Select a configuration type and click Next.
- 4.** The Custom Configuration panel appears.
Click Next to configure other component products (if any).
- 5.** Complete the installation process.

Prerequisites for Configuring Communications Express

Before running the Communications Express configurator program, make sure you perform the following:

- 1.** Choose your schema. Refer to the section on [Schema Choices](#) for information on the available schema choices.
- 2.** Ensure that you have the following entry in `/etc/hosts` file on your Solaris system:

ip-of-system FQHN hostname

For Example,

```
129.158.230.64 budgie.siroe.varrius.com budgie
```

- 3.** Ensure that the following components are up and running before you configure Communications Express. Make sure that the configuration of the products for Communications Express is done in the order mentioned here:
 - I.** Directory Server
 - II.** Administrative Console for Directory Server

III. Application Server (if chosen) or Web Server (if chosen)

NOTE After this step, run Directory Preparation Script (comm_dssetup.pl) to update the schema details in the User/Group Directory Server.

Skip this step if you have already configured Messaging Server and Calendar Server successfully.

To run Directory Preparation Script (comm_dssetup.pl) type:

```
cd /root-of-the-directory-preparatory-script/SUNWcomds/sbin
perl comm_dssetup.pl
```

IV. Access Manager, if you have chosen Sun Java System LDAP Schema, v.2.

V. Messaging Server

VI. Calendar Server

VII. Delegated Administrator if you have chosen Sun Java System LDAP Schema, v.2.

For details on the product configuration process, refer to Chapter 10 of the *Sun Java Enterprise System Installation Guide* at:

<http://docs.sun.com/db/doc/819-0056>

4. Verify whether users are able to login to the following servers correctly.
- o Messaging Server
 - o Calendar Server
 - o Access Manager (formerly known as Identity Server), if you have chosen Sun Java System LDAP Schema, v.2

Schema Choices

Prior to installing and configuring, you will need to decide on the schema model you wish to adopt. You have two schema and web container options available when deploying Communications Express.

- Web Server with Sun Java System LDAP Schema, v.1
or
Web Server with Sun Java System LDAP Schema, v.2 (with Access Manager)
- Application Server with Sun Java System LDAP Schema, v.1
or
Application Server with Sun Java System LDAP Schema, v.2 (with Access Manager)

The configurator panel displayed for each schema and web container combination varies depending on your schema and web container selection. [Table B-1](#) in Appendix B, lists the panels that are displayed for each schema and web container combination.

Upgrading Communications Express

Prior to installing and configuring, you have the option of upgrading from Communications Express 6 2004Q2 to Communications Express 6 2005Q1. Refer to the Sun Java Enterprise System 2005Q1 Upgrade and Migration Guide for more information on how to upgrade from Communications Express 6 2004Q2 to Communications Express 6 2005Q1.

<http://docs.sun.com/app/docs/doc/819-0062>

Invoking Configuration Tool

This section describes how to invoke the configuration tool

1. Login as Administrator (root for UNIX or Linux).
2. Before invoking the configuration wizard set the display settings.
3. Go to *uwc-basedir/SUNWuwc/sbin* directory.

4. Then type,

`./config-uwcc` to invoke the configuration tool in the GUI mode.

`./config-uwcc -nodisplay` to invoke the configuration tool in the console mode.

NOTE This version does not support the silent installation mode.

5. The configuration wizard appears.

Configuring Communications Express

The following steps walk you through configuring Communications Express.

NOTE If you are invoking the configuration wizard in a language other than English, resize the configuration panel to view its contents properly.

1. The Welcome panel.

The first panel in the configure program is a copyright page. Select Next to continue or Cancel to exit.

2. The Select the Directory to Store Configuration and Data Files panel appears.

Select the directory in which the configuration and data files for Communications Express should be deployed. For example,

`/var/opt/SUNWuwcc`.

This directory is referred as *uwcc-deployed-path* throughout this guide.

Click Next.

3. The Select Components to be Configured panel appears.

Select the components you want to configure and unselect those components you do not wish to configure.

- o Mail Component

- Calendar Component

NOTE You have to select atleast one component from the Select Components to be Configured panel.

Although the component size is displayed as zero, the Mail and Calendar components are installed.

Click Next.

4. The Network Connection panel appears.

The configuration program tries to establish network connection using the host name and DNS domain name displayed in this panel.

Host Name. The host name on which Communication Express is being configured is displayed.

DNS Domain Name. Displays the DNS domain name maintained by the DNS Server.

Click Next.

5. The Select a Web Container panel appears.

Select the web container you want to use from the options displayed. The options available are:

- Web Server. For Web Server panel details, see [Web Server](#).
- App Server. For App Server panel details, see [Application Server](#).

Click Next.

Web Server

If you have selected Web Server to be your web container, the following panels appear:

- a. The Web Server Configuration Details panel.

Specify the local Web Server instance details. The web server details specified here is used by the installer to deploy Communications Express on Web Server.

Server Root Directory. Browse to select the installation root of the Web Server. Default location is, `/opt/SUNWwbsvr/`

Server Instance Identifier. Enter the Web Server Instance on which Communications Express is to be deployed. For example, `budgie.siroe.varrius.com`.

Virtual Server Identifier. Enter the virtual server identifier on which Communications Express is to be deployed. For example, `https-budgie.siroe.varrius.com`

HTTP Port. Enter the HTTP port number Web Server listens to. This is the HTTP port from which Communications Express is accessed.

NOTE If you want to configure a secure HTTP port number, specify it after configuring Communications Express. To configure a secure port number refer to the post configuration steps provided in the section, [“To Use Communications Express in the SSL mode,”](#) in Chapter 3 of this guide.

Click Next.

You will see a small pop-up window indicating that the Web Server Instance is being verified. This may take a few minutes.

An Error message is displayed if the configure tool is unable to connect to the Web Server Instance. Click Accept, to continue with the installation process, or click Choose New, to specify different Web Server configuration details.

- b. The Web Container User and Group panel.

Specifies the identity, the web container uses to run the services.

Web Container User ID. The web container user identifier from the user database is displayed.

Web Container Group ID. The web container group identifier from the group database is displayed.

Click Next.

The configurator program installs some files and directories containing sensitive data, such as passwords. The ownership of these files and directories are given to web container user and group mentioned in this panel. Only the web container user is given read and write permissions to the files and directories containing sensitive data.

NOTE Ensure you enter the correct web container User ID and Group ID values in this panel. Entering wrong values may result in startup failure of the Communications Express.

Go to [Step 6](#) after you have configured the Web Server as your web container.

Application Server

If you have selected Application Server to be your web container, the following panels appear:

- a. The Application Server Configuration Details panel.

In the Application Server Configuration Details panel, specify the following details:

Install Directory. Browse to select the local directory in which Application Server is installed.

Domain Directory. Browse to select the domain directory of the Application Server.

Document Root Directory. Browse to select the document root directory of the Application Server.

Server Target Name. Enter a name for the Application Server target, for which Communications Express is to be configured. The Communications Express Configurator supports only the Domain Administration Server (DAS) deployment for Application Server 8.1.

Virtual Server Identifier. Enter the virtual server identifier for which Communications Express is to be configured.

Server Instance HTTP Port. Enter the Application Server port number where an HTTP service is available. This is the HTTP port from which Communications Express application will be accessed.

Click Next.

NOTE Specify the HTTP Port number here. If you want to configure a secure HTTP port number, specify it after configuring Communications Express. To configure a secure port number, refer to the post configuration steps provided in the section [“To Use Communications Express in the SSL mode,”](#) in Chapter 3 of this guide.

You will see a small pop-up window indicating that the Application Server Instance is being verified. This may take a few minutes.

An Error message is displayed if the configure tool is unable to connect to the Application Server Instance. Click Accept, to continue with the installation process, or click Choose New, to specify the Application Server Configuration Details again.

- b. The Application Server Administration Instance Details panel.

Specify the administration instance details of the Application Server. The administration instance details is used by the configurator to deploy Communications Express on Application Server.

Administration Server Port. Enter the Administration Server port number.

NOTE The administration port of the Application Server must be available for configuring Communications Express on Application Server.

Administrator User ID. Enter the administrator's user identifier.

Administrator Password. Enter the administrator's user password.

Secure Administration Server Instance. Select this check box, to specify that the Application Server's administration instance is running in the secure mode.

Deselect the checkbox, to specify that the Application Server's administration instance is running in the normal mode.

Click Next.

Depending on the selection, a pop-up window confirming the mode in which the Application Server's administration instance is running, appears. Click OK to exit the pop-up window.

NOTE When deploying Communications Express on Application Server, two files, `server.xml` and `server.policy`, are modified.

Before modifying `server.xml` and `server.policy` files, a backup of these files is maintained by the configurator program. The backup files are stored in the directory

DOMAIN-DIRECTORY/SERVER-INSTANCE-NAME/config/.CommsExpress_YYYYMMDDhhmmss

Where,

DOMAIN-DIRECTORY is Application Server's Domain Directory.

SERVER-INSTANCE-NAME is the Application Server Instance Name for which Communications Express is being configured.

YYYYMMDDhhmmss is the time stamp of the backup directory.

- c. The Module Name for this Web Application panel.

Enter the module name with which Communications Express should be deployed on Application Server.

Click Next.

Go to [Step 6](#) after you have configured the Application Server as your web container.

6. The URI Path Setting panel appears.

Enter the URI where Communications Express should be deployed. For example, `/uwc`.

CAUTION If you are using an existing URI to deploy Communications Express, the configuration tool first removes any previous application data before deploying Communications Express on that URI. For example, if you are deploying Communications Express on a URI such as `/uwc` that has a web application deployed in it, Communications Express configurator first removes the existing web-application from `/uwc` before deploying Communications Express. This could result in the loss of the previous application's data and accessibility of the application.

Click Next.

7. The Do you want Hosted Domain Support? panel appears.

Select the option to enable hosted domain support for Communications Express. Select this option only if you have enabled hosted domain support in Calendar Server.

Click Next.

8. The User/Group Directory (LDAP) Server Details panel appears.

Enter the following details:

LdapURL. Specify the user/group LDAP URL in the format
`ldap://UG-LDAP-HOST:UG-LDAP-PORT`.

Bind DN. Enter the LDAP distinguished name of the User/Group administrator.

Bind Password. Enter the bind password for User/Group administrator.

Click Next.

9. The DC Tree Suffix panel appears.

Enter the base distinguished name for the DC tree suffix. This suffix will be used by the Communications Express to search for domain lookup.

Click Next.

10. The Default Domain Name panel appears.

Enter the default domain name.

Each domain has certain properties. When a user logs into a domain that does not have the required properties, the properties are picked up from the default domain name.

11. The Enable Identity Server for Single Sign-on panel appears.

To setup single sign-on with Identity Server, select Enable Identity Support for Sun Java System Communications Express.

Only if you have enabled Identity Support for Sun Java System Communications Express, the Identity Server Preferences panel is displayed.

Enter the Identity Server Preferences such as the login URL, Identity Server Administrator DN and Password in this panel.

Login URL. Specify the Identity Server Login URL in the format *protocol://Identity server hostname:Identity Server port/context -path-of-amserver/UI/Login*.

Admin DN. Enter the complete LDAP DN (distinguished name) of the Identity Server Administrator, such as, *DN=uid=amAdmin, ou=people, Identity Server-root suffix*.

Admin Password. Enter the Password for the Identity Server administrator.

Click Next.

12. The Messaging Express Port panel appears.

This panel appears only when the mail component is selected in the Select Components to be Configured panel.

Enter the port number where the Messenger Express service is available.

NOTE Ensure Communications Express is deployed on the same machine on which Messenger Express is deployed.

Click Next.

13. The Calendar Server Host and Port Configuration panel appears.

This panel appears only when calendar component is selected in the Select Components to be Configured panel.

Calendar Server Host Name. Enter the Calendar Server's host name.

Calendar Server HTTP Port Number. Enter the Calendar Server's HTTP port number.

Click Next.

14. The Calendar Server Administration Details panel appears.

This panel appears only when calendar component is selected in the Select Components to be Configured panel.

Administrator User ID. Enter the Calendar Server's administrator's name. For example, calmaster.

Administrator User Password. Enter the Calendar Server's administrator's password.

NOTE Ensure that the Calendar Admin User ID value you have entered here is the same as the `service.admin.calmaster.userid` value mentioned in Calendar Server's `ics.conf` file.

Click Next.

15. The PAB Directory Server Details panel appears.

The Personal Address Book LDAP Server is the store where users personal address books are located. Enter the following details in this panel:

LDAP URL. Specify the LDAP host and port for the PAB Store. The url should be in the format: `ldap://PAB-ldap-hostname:PAB-ldap-portnumber`

Bind DN. Enter the LDAP DN to be used to bind to the PAB Store. The Bind DN specified here should have appropriate privileges to manage the data under root suffix `o=PiServerDB`.

Password. Enter the bind password.

Click Next

16. The Ready to Configure panel appears.

The configuration program will check for enough disk space on your machine and then list the components it is ready to configure.

Click **Configure Now**, to configure the Communications Express.

Click **Back**, to change any of your configuration variables.

Click **Cancel**, to exit from the configuration program.

17. A summary of tasks and the sequence status is displayed.

Click **Next**.

18. The Configuration Summary panel lists the status of the configuration program. Click **Details** button to view the log.

19. The Post Configuration Instructions panel appears only when the configuration is successful. This panel may display warning messages when the required shared components are not installed.

In order to complete the configuration process, follow the post-configuration instructions provided here.

Post Configuration Instructions

NOTE Make sure you are familiar with the location of the Communications Express files.

Refer to the section on [Default Paths and File Names](#) in the Preface of this guide.

Refer to [Chapter 3, "Configuration Details,"](#) and [Chapter 6, "Configuring the Hosted Domains,"](#) of this guide for details on the configuration parameters.

Before performing the post configuration steps make sure you have performed the following steps:

1. Assuming that the Communications Express package has already been installed, ensure that for a setup using Identity Server single sign-on, the Core and LDAP services are added. For more information, refer to the section on ["Tuning Directory Server,"](#) in Chapter 8 of this guide.

2. After you have configured Communications Express, perform the following steps
 - a. To enable the Mail component in Communications Express, configure Single Sign-On. Refer to [Chapter 4, “Implementing Single Sign-On,”](#) for information on configuring Messenger Express and Communications Express.
 - b. Go to `calendar-server-install-directory/SUNWics5/cal/bin/config` (e.g. `/opt/SUNWics5/cal/bin/config`).

Edit the `ics.conf` file and set the following:

- `service.http.allowadminproxy = "yes"`
- `service.http.admins = proxy-admin-for-calendar-http-service`
- `service.admin.calmaster.userid = the-value-specified-for-calendar.wcap.adminid-in-uwconfig.properties`
- `service.admin.calmaster.cred = the-value-specified-for-calendar.wcap.passwd-in-uwconfig.properties`
- `service.wcap.anonymous.allowpubliccalendarwrite = "yes"`
- `service.http.allowanonymouslogin = "yes"`
- `service.calendarsearch.ldap = "no"`

If you have edited the `ics.conf` file, restart Calendar Server for the changes to take effect.

3. Restart Web Server or the Application Server, depending on which you have selected as the web container.
4. Communications Express is now ready and you can access the application from:

`http://Web-Container-host:Web-Container-port/URI path`

where

Web-Container-host is the host name of the web container instance in which the Communications Express application is configured.

Web-Container-port is port number of the web container instance in which the Communications Express is configured

URI path is the path specified in the URI Path Setting panel.

Unconfiguring Communications Express

Perform the following steps if you have configured Communications Express on Web Server or Application Server and feel the need to unconfigure Communications Express:

- To unconfigure Communications Express from Web Server, use the `wdeploy` tool of the Web Server. Refer to the *Web Server Administration Guide* for steps on how to run the `wdeploy` tool.
- To unconfigure Communications Express from Application Server, use the `asadmin` tool of the Application Server. Refer to the *Application Server Administration Guide* for steps on how to run the `asadmin` tool.

Communications Express File Directory Layout

After you install and configure Communications Express, its directories and files are arranged in the organization as shown in Table 2-1. The table is not exhaustive; it shows only those directories and files of most interest for typical server administration tasks.

Table 2-1 Communications Express Directories and Files

| Directory and Legends | Default Location and Description |
|---|---|
| Communications Express Base <code>uwc-basedir</code> | Default location: Solaris: <code>/opt/SUNWuwc/</code> Linux: <code>/opt/sun/uwc/</code> This directory is where communications express is installed. Note: Only one Communications Express Base directory per machine is permitted. |
| Deployed Directory <code>uwc-deployed-dir</code> | Default location: Solaris: <code>/var/opt/SUNWuwc/</code> Linux: <code>/var/opt/sun/uwc/</code> Communications Express is deployed in this directory. The web container takes the files from this location while loading Communications Express. |
| Web Applications Root Directory <code>web-inf</code> | <code>uwc-deployed-dir/WEB-INF</code> WEB-INF directory of Communications Express web application. |

Table 2-1 Communications Express Directories and Files

| Directory and Legends | Default Location and Description |
|--|--|
| Web Applications Root Directory web-inf | <i>uwc-deployed-dir</i> /WEB-INF WEB-INF directory of Communications Express web application. |
| Configuration config | <i>uwc-deployed-dir</i> /WEB-INF/config/ Contains all the Communication Express configuration files. |
| Domain domain | <i>uwc-deployed-dir</i> /WEB-INF/domain/ Contains per domain localization and Customization files. |
| Skin skin | <i>uwc-deployed-dir</i> /WEB-INF/skin/ Contains per domain themes. |
| Logs logs | <i>uwc-deployed-dir</i> /logs/ Contains the Communications Express log files. |
| System Administrator Programs sbin | <i>uwc-basedir</i> /sbin/ Contains the Communications Express system administrator executable programs and scripts. |
| Help help | <i>uwc-deployed-dir</i> /help Contains Communications Express help files. |

Configuration Details

This chapter describes the configuration details for Communications Express.

- [Communications Express Configuration Files](#)
- [Configuration Parameter Details](#)
- [Supporting Horizontal Scalability of Addressbook Server](#)

Communications Express Configuration Files

Communication Express maintains the configuration parameters in the following files:

- The `uwcauth.properties` file maintains the authentication, user/group access, and single sign-on related parameters. The `uwcauth.properties` file is located at : *uwc-deployed-path*/WEB-INF/config/
- The `uwconfig.properties` file maintains the calendar, mail, and address book related configuration parameters. The `uwconfig.properties` file is located at: *uwc-deployed-path*/WEB-INF/config/
- The `db_config.properties` file is used to define the address book store configuration details. By default, Communications Express deploys two types of `db_config.properties` file.
 - **Personal address book store.** The personal address book store configuration file resides under *uwc-deployed-path*/WEB-INF/config/ldapstore/db_config.properties.
 - **Corporate address book store.** The Corporate address book store configuration file resides under *uwc-deployed-path*/WEB-INF/config/corp-dir/db_config.properties

All configuration files are ASCII text files, with each line defining a parameter and its associated value in the following format:

parameter=value

The parameters are initialized when configuring Communications Express. After installation, you can edit the file using a text editor.

► **To Edit the Configuration file**

1. Login as a user having modify permissions.
2. Change to the directory where the `.properties` file is located.
3. Edit the parameters using a text editor.

Conventions for parameters are:

- All parameters and their associated value(s) must be separated by an equal sign (=). Spaces or tabs are allowed before or after the equal sign.

For example:

```
uwc-user-attr-sunUCDefaultApplication=calendar
```

- A comment line begins with an exclamation point(!).

Some of the configuration parameters are commented out using exclamation points by default. To use these parameters, you must remove the exclamation point, change the value (if required).

4. Restart the Web Server or the App Server for the new configuration values to take effect.

Configuration Parameter Details

You can modify calendar, mail, and address book configuration parameters as explained in the following tables.

- [Configuring the Messenger Express Parameters in uwconfig.properties File](#)
- [Configuring Directory Server Related Parameters for Sun Java System LDAP Schema v.1 in uwcauth.properties File](#)
- [Configuring Identity Server Parameters in uwcauth.properties File](#)
- [Configuring User Lookup Parameters for User/Group in uwcauth.properties File](#)

- [Configuring the Calendar Server Parameters in uwccconfig.properties File](#)
- [Configuring the Address Book Personal Store Parameters in db_config.properties file](#)
- [Configuring Corporate Directory Parameters db_config.properties File](#)
- [Supporting Horizontal Scalability of Addressbook Server](#)
- [Configuring Secure Socket Layer \(SSL\)](#)

Refer to [Chapter 4, “Implementing Single Sign-On,”](#) for more mail, calendar, and address book configurable parameters.

Configuring the Messenger Express Parameters in uwccconfig.properties File

Table 3-1 Mail Parameters

| Parameter | Default Value | Description |
|---------------|---------------|---|
| mail.deployed | | Specifies whether Messenger Express is deployed. The parameter is set when you run the configuration wizard. The attribute is set to “true” if Messenger Express is deployed. |
| webmail.host | | Specifies the host name of the machine on which Messenger Express is deployed. The host name of Messenger Express should correspond to the machine name on which Web Server is deployed. |
| webmail.port | | Specifies the port number Messenger Express HTTP Server listens to. |

Configuring Directory Server Related Parameters for Sun Java System LDAP Schema v.1 in uwcauth.properties File

You may edit the parameters mentioned in Table 3-2 when the Authentication LDAP Server is different from the User/Group LDAP.

Table 3-2 LDAP Auth Filter Parameters

| Parameter | Default Value | Description |
|-----------------------|---|--|
| ldapauth.ldaphost | | Specifies the LDAP host value. Normally the <code>ldapauth.ldaphost</code> value is the same as the <code>ldapusersession</code> value. You can set it to a different value, if required. |
| ldapauth.ldapport | | Specifies the ldap port number. |
| ldapauth.dcreot | | Specifies the DC root for the authentication tree. |
| ldapauth.domainattr | inetDomainBaseDN,inetDomainStatus,inetDomainSearchFilter,domainUidseparator,preferredLanguage | Specifies the list of attributes to be retrieved from the domain entry in which the user is authenticated. |
| ldapauth.domainfilter | ((objectclass=inetDomain)(objectclass=inetDomainAlias)) | Specifies the filter based on which the domain entry is retrieved. |
| ldapauth.ldapbinddn | | Specifies the User DN of the user binding to the authentication LDAP. |
| ldapauth.ldapbindcred | | Specifies the password of the user binding to the authentication LDAP. |
| ldapauth.enablessl | false | Specifies whether the directory against which authentication is to be performed is in SSL mode. Change the default value to "true" to setup a secure LDAP connection. |

Table 3-3 LDAP User Group Parameters

| Parameters | Default Value | Description |
|------------------------------|---------------|--|
| ldapusersession.ldaphost | | Specifies the hostname of the user group directory server. |
| ldapusersession.ldapport | | Specifies the port number of the user/group directory server. |
| ldapusersession.ldapbinddn | | Specifies the UserDN of the admin binding to the user/group directory server. |
| ldapusersession.ldapbindcred | | Specifies the password of the admin binding to the user tree. |
| ldapusersession.dcreot | | Specifies the Domain Component (DC) tree in the user/group LDAP that is used to resolve a user entry in Sun Java System LDAP Schema v.1. |

Configuring Identity Server Parameters in uwcauth.properties File

Table 3-4 Identity Server Parameters

| Parameter | Default Value | Description |
|-----------------------------|---------------|--|
| uwcauth.identity.enabled | | Specifies whether Identity Sever is enabled. The attribute is set to “true” if Identity Server’s single sign-on mechanism is used for authentication. |
| uwcauth.identity.naming.url | | Specifies the Identity Server naming URL. For Example, uwcauth.identity.naming.url= <i>protocol://hostname:port</i> <i>Context URI</i> |

Table 3-4 Identity Server Parameters (*Continued*)

| Parameter | Default Value | Description |
|---------------------------|---------------|--|
| uwcauth.identity.binddn | | Specifies the complete Distinguished Name (DN) of the amAdmin user. For example, uid=amadmin, ou=People, o=siroe.com |
| uwcauth.identity.bindcred | | Specifies the amAdmin password. |

NOTE It is mandatory to configure `uwcauth.identity.naming.url`, `uwcauth.identity.binddn`, `uwcauth.identity.bindcred`, when `uwcauth.identity.enabled` value is set to “true.”

Configuring User Lookup Parameters for User/Group in uwcauth.properties File

Table 3-5 User Lookup Parameters

| Parameter | Default Value | Description |
|---------------------------------|---------------|---|
| ldapusersession.defaultugfilter | uid@domain | Specifies the default filter syntax to be used when retrieving the user entry. |
| ldapusersession.ldappoolmin | 30 | Specifies the minimum number of LDAP user connections to be created for a user/group LDAP. |
| ldapusersession.ldappoolmax | 100 | Specifies the maximum number of LDAP user connections to be created for a user/group LDAP. Enter an optimum value to suit your deployment’s requirement. |

Table 3-5 User Lookup Parameters (*Continued*)

| Parameter | Default Value | Description |
|--------------------------------|---------------|--|
| ldapusersession.lookthru_limit | 1000 | Specifies the search query limit for a search. |

Configuring the Calendar Server Parameters in uwconfig.properties File

NOTE Ensure that the Proxy Authentication and Anonymous Access is enabled in Sun Java™ System Calendar Server.

To enable Proxy Authentication and Anonymous Access, configure the following Calendar Server parameters in the calendar configuration, `ics.config`, file:

- `service.http.allowadminproxy = "yes"`
- `service.http.admins = includes-the-value-specified-for-calendar.wcap.adminid-in-uwconfig.properties`
- `service.admin.calmaster.userid = the-value-specified-for-calendar.wcap.adminid-in-uwconfig.properties`
- `service.admin.calmaster.cred = the-value-specified-for-calendar.wcap.passwd-in-uwconfig.properties`
- `service.wcap.anonymous.allowpubliccalendarwrite = "yes"`
- `service.http.allowanonymouslogin = "yes"`
- `service.calendarsearch.ldap = "no"`

For more information on enabling Proxy Authentication and instructions on configuring the Calendar Server parameters, refer to *Sun Java System Calendar Server Administration Guide* at <http://docs.sun.com/doc/817-5697>

Table 3-6 Calendar Server Parameters

| Parameter | Default Value | Description |
|-----------------------|---------------|---|
| calendar.deployed | true | Specifies whether the calendar module is deployed. The parameter is set when you run the configuration wizard. The attribute is set to “true” if calendar is deployed. |
| calendar.wcap.host | | Specifies the host name of the WCAP server. |
| calendar.wcap.port | | Specifies the port number WCAP listens to. |
| calendar.wcap.adminid | | Specifies the Admin ID for the WCAP Sever. |
| calendar.wcap.passwd | | Specifies the Admin Password for the WCAP Server. |

- NOTE**
- Ensure that the Calendar Admin User ID value you have assigned to `calendar.wcap.adminid` is the same as the `service.admin.calmaster.userid` value mentioned in Calendar Server’s `ics.conf` file.
 - Ensure that the corresponding user entry for Calendar Admin User ID exists on LDAP server.

Configuring the Address Book Personal Store Parameters in `db_config.properties` file

Table 3-7 lists the default Address Book personal store configuration parameters in `db_config.properties` file.

The file can be accessed from:

uwc-deployed-path/WEB-INF/config/ldapstore/

Table 3-7 Personal Address Book Personal Store Parameters

| Parameter | Default Value | Description |
|-------------------------------|---------------|---|
| defaultserver.ldaphost | | Specifies the LDAP host for the Personal Address Book (PAB) Store. |
| defaultserver.ldapport | | Specifies the port for the Store. |
| defaultserver.ldapbinddn | | Specifies the DN used to bind to the Personal Address Book Store. It is mandatory to enter this value if the login type is "restricted" or "proxy." If the login type is "anonymous" you need not enter a value for this parameter. |
| defaultserver.ldapbindcred | | Specifies the password for the DN used to bind to the Personal Address Book Store. |
| login_type | restricted | Specifies the method using which the connection to the LDAP store is maintained. You can assign the following three values to this parameter: anon - to connect to the LDAP as an anonymous user restricted - to connect as a user who has the rights to perform operations on the Address Book Store. proxy - to masquerade as a user who can perform operations on the Address Book Store. Assigning this value enhances performance as it bypasses the LDAP bind on each operation. NOTE: It is recommended that the user masquerading here have admin level ACLs. |
| defaultserver.ldappoolmin | 4 | Specifies the minimum number of LDAP client connections maintained for Personal Address Book Store. |
| defaultserver.ldappoolmax | 12 | Specifies the maximum number of LDAP client connections maintained for Personal Address Book Store. |
| defaultserver.ldappooltimeout | 10 | Specifies the number of seconds before timing out an LDAP connection. Increase this value to accommodate large search results. |
| lookthru_limit | 1000 | Specifies the search query limit for a search. |

Table 3-7 Personal Address Book Personal Store Parameters *(Continued)*

| Parameter | Default Value | Description |
|-------------|---------------|--|
| delete_perm | true | <p>Enables contact/group entries to be marked for deletion or deleted permanently.</p> <p>Set the parameter to false to mark the contacts/groups for deletion.</p> <p>Set the parameter to true to permanently delete the contacts and groups.</p> |

Configuring Corporate Directory Parameters db_config.properties File

Table 3-8 lists the default corporate directory parameters in `db_config.properties` file. By default, all the LDAP related information is set based on the values mentioned for user/group directory.

The `db_config.properties` file can be accessed from:

`WEB-INF/config/corp-dir/`

Table 3-8 Corporate Directory Parameters

| Parameter | Default Value | Description |
|----------------------------|---------------|--|
| defaultserver.ldaphost | | Specifies the LDAP host for the Corporate Directory. |
| defaultserver.ldapport | | Specifies the Port for the Corporate Directory. |
| defaultserver.ldapbinddn | | <p>Specifies the DN used to bind to the Corporate Directory.</p> <p>If the login type is “restricted” or “proxy” it is mandatory to assign a value to <code>defaultserver.ldapbinddn</code>.</p> <p>If the login type is “anonymous,” you need not enter a value for this parameter.</p> |
| defaultserver.ldapbindcred | | Specifies the bind password. |

Table 3-8 Corporate Directory Parameters (*Continued*)

| Parameter | Default Value | Description |
|-------------------------------|---------------|--|
| entry_id | uid | <p>Specifies the key in corporate directory used to identify a contact/group entry.</p> <p>You can set the entry_id to the UID or a key used to fetch the contact/group information, such as, empid or principal ID.</p> <p>In the <code>xlate-inetorgperson.xml</code> file replace “uid” in <code><entry entryID= “db:uid”></code> with the entry_id value specified here.</p> |
| login_type | restricted | <p>Specifies the method using which the connection to the LDAP store is maintained.</p> <p>You can assign the following three values to this parameter:</p> <p>anon - to connect to the LDAP as an anonymous user.</p> <p>restricted - to connect as a user who has the rights to perform operations on the Address Book Store.</p> <p>proxy - to masquerade as a user who can perform operations on the Address Book Store. Assigning this value enhances performance as it bypasses the LDAP bind on each operation.</p> <p>NOTE: A Read only access is given to a masquerading user.</p> |
| defaultserver.ldappoolmin | 1 | Specifies the minimum number of LDAP client connections maintained for Corporate Directory. |
| defaultserver.ldappoolmax | 4 | Specifies the maximum number of LDAP client connections maintained for Corporate Directory. |
| defaultserver.ldappooltimeout | 10 | Specifies the number of seconds before timing out an LDAP connection. Increase this value to accommodate large search results. |

Table 3-8 Corporate Directory Parameters (*Continued*)

| Parameter | Default Value | Description |
|----------------|---------------|--|
| lookthru_limit | 1000 | Specifies the search query limit for a search. |

Corporate Directory maintains two `xlate` files in the format `xlate-objectclass-name.xml`.

- `xlate-inetorgperson.xml` for contacts
- `xlate-groupofuniquemembers.xml` for groups

In `xlate-objectclass-name.xml`, *objectclass-name* represents the object class identifying a particular LDAP entry type. For example, `xlate-inetorgperson.xml` is an object class used to identify a contact, and `groupofuniquemembers` is an object class used to identify a group in Sun Java System Directory Server.

The `xlate` files contains the field mappings between an LDAP schema and the address book XML schema for a contact or group. The mapping is defined in terms of XML nodes. For example,

*ab-xml-schema-key*db:LDAPField/*ab-xml-schema-key*

Where,

`ab-xml-schema-field` is the value, address book uses in the code.

`LDAPField` is the corresponding field name in LDAP.

You need to provide an appropriate field name for `LDAPField`. The value assigned to `LDAPField` should correspond to the value of `LDAPField` existing in your corporate directory LDAP schema.

Code Example 3-1 is an example of `xlate-inetorgperson.xml` file:

Code Example 3-1 Default Contents of xlate-intro person

```
<abperson uid="db:uid">
  <entry entryID="db:uid">
    <displayname>db:cn</displayname>
    <description>db:multilineDescription</description>
    <creationdate>db:createtimestamp</creationdate>
    <lastmodifieddate>db:modifytimestamp</lastmodifieddate>
  </entry>
  <person>
    <givenname>db:givenname</givenname>
    <surname>db:sn</surname>
  </person>
  <organization>
    <company>db:company</company>
    <organizationalunit>db:ou</organizationalunit>
    <location>
      <building>db:buildingnum</building>
      <floor>db:iplanetbuildinglev</floor>
      <office>db:roomNumber</office>
    </location>
    <title>db:title</title>
    <manager>db:manager</manager>
    <secretary>db:secretary</secretary>
  </organization>
  <phone priority="1" type="work">db:telephoneNumber</phone>
  <phone priority="2" type="fax">db:facsimileTelephoneNumber</phone>
```

```

<phone priority="3" type="mobile">db:mobile</phone>
<phone priority="4" type="home">db:homePhone</phone>
<phone priority="5" type="pager">db:pager</phone>
<email priority="1" type="work">db:mail</email>
<im priority="1" service="SunONE">db:uid</im>
<im priority="2" service="AIM">db:aimscreenname</im>
<im priority="3" service="ICQ">db:icqnumber</im>
<postaladdress type="home">
  <street>db:homePostalAddress</street>
</postaladdress>
<postaladdress type="work">
  <street>db:postaladdress</street>
</postaladdress>
<weblink priority="1">
  <urladdr>db:labeleduri</urladdr>
  <description>URL</description>
</weblink>
<weblink priority="2">
  <urladdr>db:homepage</urladdr>
  <description>Home URL</description>
</weblink>
<calendar type="calendar">
  <urladdr>db:caluri</urladdr>
</calendar>
</abperson>

```

Configuring Secure Socket Layer (SSL)

You can configure the Web Server on which Communications Express is deployed in SSL mode. For information on how to configure the Web Server on which Communications Express is deployed in SSL mode, refer to *Sun ONE Web Server Administrator's Configuration File Reference* at http://docs.sun.com/db/coll/S1_websvr61_en

► To Use Communications Express in the SSL mode

1. Edit the following configuration parameters in *uwcd-deployed-path*/WEB-INF/config/uwcauth.properties:

- uwcauth.ssl.enabled=true
- uwcauth.https.port=SSL-port-number-of-the-webserver-in-which-uwc-is-deployed

Communications Express can also be configured for SSL, for authentication only. Implying, authentication can be performed over SSL, but access of the application thereafter is over non-SSL mode.

2. You need to set the `local.webmail.sso.uwcport` Messenger Express parameter value to the SSL port-number of the Web Server in which Communications Express is deployed.

For example,

```
local.webmail.sso.uwcport=SSL port-number of the webserver in which
communications express is deployed
```

► To Configure Communications Express for SSL, for Authentication Only

1. Set `uwcauth.ssl.enabled` to "false" in `uwcauth.properties` file.
2. Set `uwcauth.https.port` to the SSL port number of the Web Server in which Communications Express is deployed.
3. Set `uwcauth.ssl.authonly` to "true."

NOTE The two parameters, `uwcauth.ssl.authonly` and `uwcauth.ssl.enabled` are mutually exclusive parameters.

Messaging SSO is not supported in SSL.

Supporting Horizontal Scalability of Addressbook Server

In the previous release of the Sun Java System Communications Express, the Personal Address Book entries for a particular domain was stored in a single LDAP location that was represented by the `defaultserver` instance defined in the `db_config.properties` file. The `db_config.properties` file existed in the directory pointed by the `personalstore.properties` for the domain. For example, `uwc-install/WEB-INF/config/ldapstore`.

This deployment was unable to scale to support large number of users and contacts per Personal Address Book. To overcome this limitation, the `psRoot` attribute in Sun Java System Communications Express 6.2, enables the administrator provision users so that PAB data for different users can be spread across different LDAP locations.

For example,

```
ldap://mydir.com:389/piPStoreOwner=jsmith,o=siroe.com,o=PiServerDb
```

Figure 3-1 provides a high level overview of the architecture used to scale Addressbook Server horizontally.

The key components of the Address Book Horizontal Scalability architecture are:

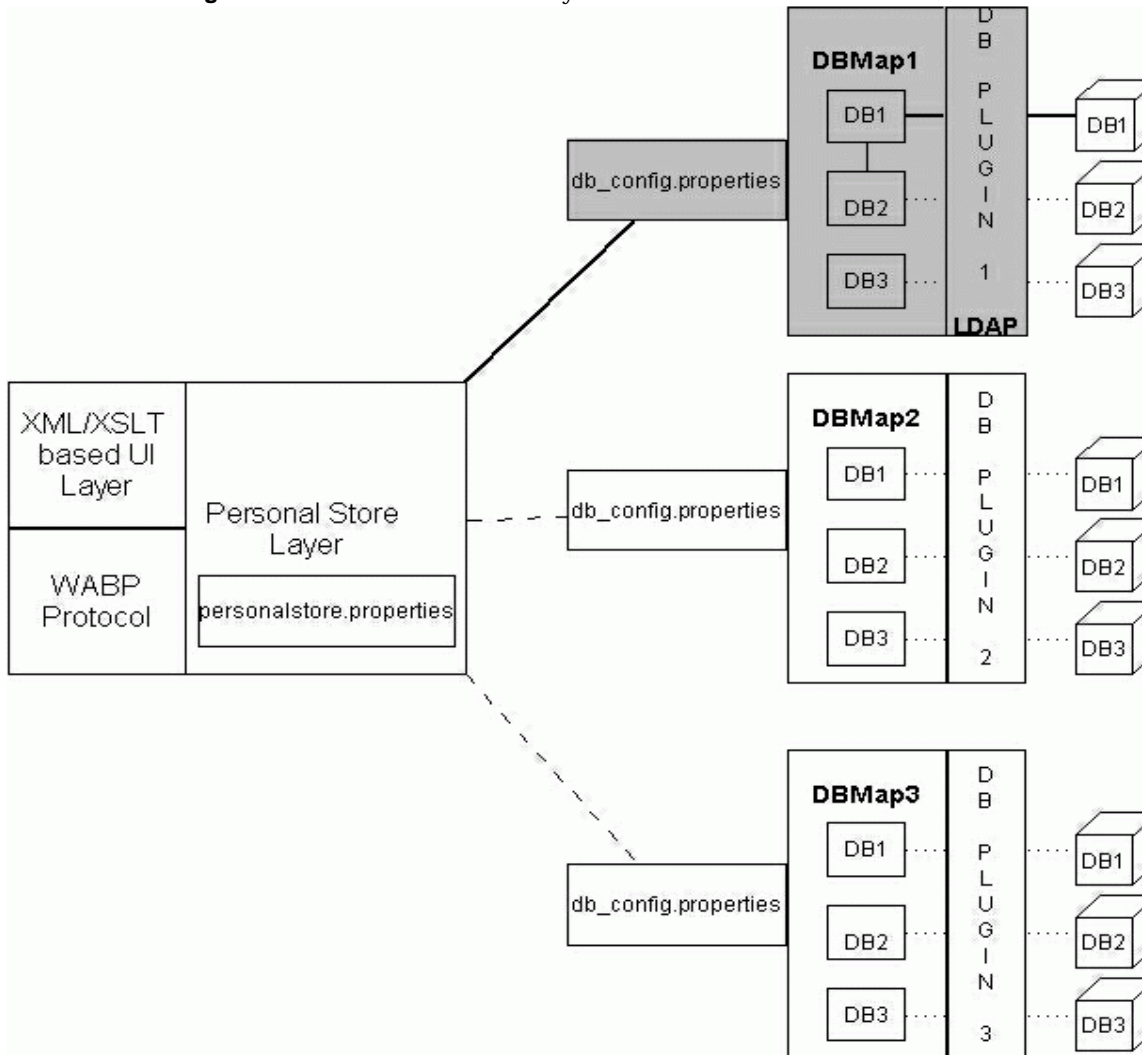
- Personal Store
- DB
- DBMap

A Personal Store maintains the address book information of a user. It contains the definition of all the address books a user has created along with all the entries in those address books. Personal Stores are expressed as URLs, which describe the directory instance in which they are located and the DN within that particular directory instance.

A DB contains a collection of Personal Stores and as shown in Figure 3-1, any number of DB's can be accessed by the Address Book Server. Every DB is defined by a DB-ID that defines the connection parameters for that DB. A DB can be of different types and can point to different DB locations.

A DBMap is a collection of DBs of the same type. Each DBMap has an ID which refers to the configuration information for that DBMap.

Figure 3-1 Horizontal Scalability of Address Book



The `psRoot` is an attribute in the User's LDAP that specifies the host, port of the directory instance and the DN where the Address Book entries for the user is stored. The `psRoot` is in the form: `ldap://ldap_host:ldap_port/DN`.

The value of `psRoot` attribute determines the DB type and DB location.

In the `psRoot` example,

`ldap://mydir.com:389/piPStoreOwner=jsmith,o=siroe.com,o=PiServerDb`

`ldap://` indicates that the Address Book Personal Store for the user is accessed using LDAP DB Plugin.

`mydir.com:389` specifies the LDAP Host and Port.

`piPStoreOwner=jsmith,o=siroe.com,o=PiServerDb` specifies the DN of the Personal Store.

NOTE The Addressbook Server does not provide any utility to distribute `psRoot` values for users, per any scalability policy. Administrators need to set a specific policy suited best for the organization and use custom scripts to set the `psRoot` value for that policy.

The `psRoot` attribute can be turned on or off using the `db.UserPsRoot` parameter present in the domain specific `personalstore.properties` file. Set the parameter to “false” to use the `defaultserver` parameters in `db_config.properties` file. Set the parameter to “true” to use the user’s `psRoot` value. The Personal Store parameters listed in [Table 3-7](#) must be provided for each unique directory server instance used in `psRoot`. At runtime, the value of `psRoot` attribute is resolved to a directory instance using `db-key.ldaphost` and `db-key.ldapport`, where `db-key` is an arbitrary string that distinguishes one instance from the other. When no match is found for the `db-key.ldaphost` and `db-key.ldapport`, the `defaultserver` instance is used.

Setting the `psRoot` Value Automatically

When a new user logs in, default values are set for the `psRoot` attribute in the User’s entry.

For new users a `psRoot` value is constructed using the `psRoot` pattern defined in `personalstore.properties` file, and the `defaultserverhost` and `defaultserverPort` values, in the `db_config.properties` file. For example, using the default `psRoot` pattern, the default `psRoot` value will be in the format:

`ldap://defaultserver_host:defaultserver_port/piPStoreOwner=%U,o=%D,o=PiServerDb`

where,

`%U` = login ID of the user, for example, `jsmith`.

`%D` = domain of the user, for example `siroe.com`.

Implementing Single Sign-On

Single Sign-On allows an end user to authenticate once and use multiple applications without re-authenticating. For example, you can login to Communications Express and use the calendar and mail applications without authenticating again, provided single sign-on is enabled in calendar and mail applications. In Communications Express you can perform the following types of Single Sign-On:

- **Identity Server Single Sign-On.** Single Sign-On is performed when Identity Server, also known as Access Manager, is enabled in Communications Express. Here, Messenger Express and Communications Express communicate with each other using Identity Server Single Sign-On.
- **Messaging Single Sign-On.** In the absence of Identity Server, Messenger Express and Communications Express communicate with each other using Messaging Single Sign-On.

This chapter contains the following sections:

- [Setting up Identity Server Single Sign-On](#)
- [Setting up Messaging Single Sign-On](#)

Setting up Identity Server Single Sign-On

This section provides information on how to set up Communications Express and Messenger Express to communicate with each other using Identity Server Single Sign-On.

If you have chosen to adopt Sun Java System LDAP Schema, v.2 as the schema model, you need to enable Identity Server in Communications Express to use Identity Server's Single Sign-On mechanism to obtain valid user sessions.

To enable Communication Express users access the mail module rendered by the Messenger Express using the Identity Server Single sign-on, you need to modify the Messenger Express specific parameters using the configutil tool located at `msg-svr_install_root/sbin /configutil`. It is important to explicitly set the Messenger Express specific parameters after install, as the installer does not set these parameters. For more information on using the configutil tool, refer to Chapter 3, Configuring General Messaging Capabilities, of the *Sun Java System Messaging Server Administration Guide* at <http://docs.sun.com/doc/817-6266-10>.

When setting up Identity Server Single Sign-on, Communications Express and Identity Server can be deployed in both SSL and non-SSL modes in the same web container instance or in different web container instances. When Identity Server and Communications Express are deployed in different Web Container Instances you need to Configure Identity Server Remote SDK on the system where Communications Express is deployed. Listed below are the deployment scenarios for Identity Server and Communications Express deployed in different web container instances in both SSL and non SSL modes.

- Identity Server and Communications Express deployed in different web container instance in non-SSL mode.
 - Identity Server and Communications Express deployed in different web container instance in SSL mode.
 - Identity Server and Communications Express deployed in different web container instances with Identity Server deployed in SSL mode and Communications Express in non-SSL mode.
 - Identity Server and Communications Express deployed in different web containers that are running on the same system, in non-SSL mode
 - Identity Server and Communications Express deployed in different web containers on the same system in SSL mode.
- **To Enable Single Sign-On in Communications Express With Identity Server**
1. Open the `uwc-deployed-path/WEB-INF/config/uwcauth.properties` file.

2. Modify the following Communications Express parameters in `uwcauth.properties` file to enable Identity Server SSO.

| Parameter | Purpose |
|--|--|
| <code>uwcauth.identity.enabled</code> | <p>Specifies whether identity server is enabled.</p> <p>Initially the value is set in the configurator.</p> <p>Set the attribute to <code>true</code> to enable Identity Server.</p> <p>Set the attribute to <code>false</code> to disable Identity Server.</p> |
| <code>uwcauth.identity.login.url</code> | <p>Specifies the parameter of Identity Server login URL.</p> <p>For example,</p> <p><code>uwcauth.identity.login.url=http://siroe.example.com:85/amserver/UI/login</code></p> |
| <code>uwcauth.identity.cookieName</code> | <p>Specifies the cookie name used by Identity Server.</p> <p>The value of <code>uwcauth.identity.cookieName</code> should correspond to the value specified in Identity Server configurator .</p> <p>Default cookie name used by Identity Server is <code>iPlanetDirectoryPro</code></p> |
| <code>uwcauth.identity.binddn</code> | <p>Specifies the complete DN of the amadmin.</p> <p>For example,</p> <p><code>uid=amAdmin, ou=People, o=siroe.example.com, o=example.com</code></p> <p>Note: The <code>uwcauth.identity.binddn</code> and <code>uwcauth.identity.bindcred</code> values should correspond to the values entered when installing Identity Server.</p> <p>For example,</p> <p><code>uwcauth.identity.binddn=uid=amAdmin, ou=People, o=siroe.example.com, o=example.com</code> and <code>uwcauth.identity.bindcred=password</code>.</p> |
| <code>uwcauth.identity.bindcred</code> | <p>Specifies the password of the amadmin.</p> |
| <code>uwcauth.http.port</code> | <p>Specifies the port number that Communications Express listens to when Communications Express is configured on a non SSL port.</p> <p>Default port number is 80.</p> |

| Parameter | Purpose |
|--|--|
| <code>uwcauth.https.port</code> | <p>Specifies the https port number that Communications Express listens to when Communications Express is configured on an SSL port.</p> <p>Default https port number is 443</p> |
| <code>identitysso.singlesignoff</code> | <p>Specifies the single sign-off status.</p> <p>If set to <code>true</code> the logout destroys the Identity Server session completely and all applications participating in this Identity Server session are signed out.</p> <p>If set to <code>false</code>, only the Communications Express session is destroyed and the user is taken to the url configured in <code>identitysso.portalurl</code>.</p> <p>Default status is <code>true</code>.</p> |
| <code>identitysso.portalurl</code> | <p>Specifies the URL to which Communications Express is to be redirected.</p> <p>If Identity Server is enabled and single sign-off is set to <code>false</code>, Communications Express is redirected to the URL assigned to <code>identitysso.portalurl</code>.</p> <p>By default Communications Express is redirected to <code>http://www.sun.com</code></p> |

3. Set the value of the parameter `uwcauth.messagingsso.enable` to `false` when setting up Communications Express for Identity Server Single Sign-On.

Communications Express will now use the Identity Server's Single Sign-On mechanism for obtaining valid user sessions.

➤ **To Deploy Identity Server and Communications Express in the Same Web Container Instance**

1. Open the `IS-SDK-BASEDIR/lib/AMConfig.properties` file.

An example of `IS-SDK-BASEDIR` is `/opt/SUNWam/lib`.

2. Make sure the following property is set in `AMConfig.properties` file:

```
com.iplanet.am.jssproxy.trustAllServerCerts=true
```

`AMConfig.properties` is present in `IS-SDK-BASEDIR/lib`

For example, `/opt/SUNWam/lib`

- Restart the web container for the changes to take effect.

Identity Server and Communications Express deployed in the same web container instance in SSL mode can now use the Identity Server's Single Sign-On mechanism for obtaining valid user sessions.

► **To Deploy Identity Server and Communications Express in Different Web Container Instance**

- Change to `IS-INSTALL-DIR/bin`
- Copy the Identity Server `IS-INSTALL-DIR/bin/amsamplesilent` file.

```
cp amsamplesilent amsamplesilent.uwc
```

- Edit the copy of `amsamplesilent` created in the previous step.

Set the parameters to correspond to the deployment details.

If you are deploying Identity Server SDK in a web container, such as Sun Java System Web Server or Sun Java System Application Server, set the `DEPLOY_LEVEL` to value 4, that is, select the option "SDK only with container config."

- Set `AM_ENC_PWD` to the value of the password encryption key used during the installation of Identity Server.

The encryption key is stored in the parameter `am.encrypted.pwd` under:

```
${IS_INSTALL_DIR}/lib/AMConfig.properties
```

- Set `NEW_INSTANCE` to `true`.
- If you are deploying Identity Server SDK in Sun Java System Web Server, set `WEB_CONTAINER` to `WS6`.

If you are deploying Identity Server SDK in Sun Java System Application Server, set the `WEB_CONTAINER` to `AS7` or `AS8`.

- For a more detailed description on the other parameters in the `amsamplesilent` file and to help you configure the Identity Server Remote SDK parameters refer to the *Sun Java System Identity Server Administration Guide* at:

<http://docs.sun.com/source/817-5709/ConfigScripts.html>

- Configure Identity Server SDK in the web container.

Make sure directory server that is used by Identity Server is running.

- Start the web container instance in which the Identity Server SDK will be deployed.

10. Change directory to *IS-INSTALL-DIR/bin*.

11. Run the following command:

```
./amconfig -s amsamplesilent.uwc
```

12. Restart the web container instance for configurations to take effect.

Identity Server and Communications Express deployed in the different web container instances in SSL and non-SSL mode will now use the Identity Server's Single Sign-On mechanism for obtaining valid user sessions.

NOTE Refer to [Appendix A](#), for instructions on enabling or disabling Identity Server after deploying Communications Express.

➤ **To Enable Single Sign-On in Messenger Express With Identity Server**

1. Run the configutil tool.

```
msg-svr_install_root/sbin/configutil
```


2. Set the following Messenger Express parameters to enable Communication Express users access Messenger Express using the Identity Server Single Sign-on.

| Parameters | Purpose |
|---------------------------------|--|
| local.webmail.sso.amnamingurl | <p>This configuration enables SSO from Identity Server. The parameter should point to the URL Identity Server runs the naming service.</p> <p>For example,</p> <pre>configutil -o local.webmail.sso.amnamingurl -v http://siroe.example.com:85/amserver/naming service</pre> |
| local.webmail.sso.uwcnabled | <p>Enables Communications Express access Messenger Express.</p> <p>To disable, set the parameter to 0.</p> |
| local.webmail.sso.uwlogouturl | <p>Specifies the URL Messenger Express uses to invalidate the Communications Express session.</p> <p>If you have configured <code>local.webmail.sso.uwlogouturl</code> explicitly in Messenger Express, then this value is used to logout. Otherwise, Messenger Express constructs the logout url based on the http host in the request header.</p> <p>For example,</p> <pre>http://siroe.example.com:85/base/UWCmain?op=logout</pre> <p>When Communications Express is not deployed under <code>/</code>, such as <code>/uwc</code>, the value of this parameter may look like:</p> <pre>http://siroe.example.com:85/uwc/base/UWCmain?op=logout</pre> |
| local.webmail.sso.uwcport | <p>Specifies the Communications Express port.</p> <p>For example, 85.</p> |
| local.webmail.sso.uwccontexturi | <p>Specifies the path in which Communications Express is deployed.</p> <p>Specify this parameter only when Communications Express is not deployed under <code>/</code>.</p> <p>For example, if Communications Express is deployed in <code>/uwc</code>, <code>local.webmail.sso.uwccontexturi=uwc</code></p> |

| Parameters | Purpose |
|--------------------------------|--|
| local.webmail.sso.amcookieName | Specifies the Identity Server session cookie name. Ensure that in the <code>uwcauth.properties</code> file, the value of <code>uwcauth.identity.cookieName</code> is set to the value of <code>local.webmail.sso.amcookieName</code> . For example, <code>iPlanetDirectoryPro</code> |
| local.webmail.sso.uwchome | Specifies the url required to access the home link. |

Once the Messenger Express specific parameters are set, Communication Express users can access Messenger Express using the Identity Server Single sign-on.

Setting up Messaging Single Sign-On

This section explains how to set up Communications Express with Messaging Single Sign-On. If you have chosen to adopt Sun Java System LDAP Schema, v.1 as the schema model, you need to enable Messaging SSO in Communications Express to use the Messaging Single Sign-On mechanism for authentication.

When configuring Communications Express, the configuration wizard does not set any of the mandatory SSO related parameters. You need to manually set the required parameters as explained below. Also, note that Messaging SSO does not support virtual domains and Messenger Express will not run in SSL mode when Messaging SSO is enabled.

If you have deployed Messenger Express as MEM, ensure that the value of the following parameters in Messaging Server are the same at the backend and frontend:

- `local.webmail.sso.id`
- `local.webmail.sso.uwlogouturl`
- `local.webmail.sso.uwchome`
- `local.webmail.sso.ims.verifyurl`
- `local.webmail.sso.prefix`
- `local.sso.uwc.verifyurl`

- `local.webmail.sso.cookieDomain`
- `local.webmail.sso.enable`
- `local.webmail.sso.uwcEnabled`
- `local.webmail.sso.uwcPort`
- `local.webmail.sso.singleSignoff`
- `local.webmail.sso.uwcContexturi`

➤ **To Enable Communications Express Using Messaging SSO**

1. Open the `uwc-deployed-path/WEB-INF/config/uwcauth.properties` file.

2. Modify the following mail specific parameters in `uwcauth.properties` file to enable Communications Express access Messenger Express.

| Parameters | Purpose |
|---|---|
| <code>uwcauth.appprefix</code> | <p>Specifies the prefix used to find cookies generated by other trusted applications for SSO.</p> <p>The prefix is used to find cookies generated by other trusted applications during single sign-on.</p> <p>If the deployment uses Messaging SSO, this attribute should be assigned the value of <code>local.webmail.sso.prefix</code> set during messaging configuration.</p> <p>The default value is <code>iPlanetDirectoryPro</code></p> |
| <code>uwcauth.appid</code> | <p>Specifies the application ID for Communications Express.</p> <p>The default value is <code>uwc</code>.</p> |
| <code>uwcauth.cookieDomain</code> | <p>Specifies the domain name saved as part of the single sign-on cookie.</p> |
| <code>uwcauth.messaging.sso.enable</code> | <p>Enables or disables messaging single sign-on functionality.</p> <p>Set this parameter to <code>true</code> to enable single sign-on and <code>false</code> to disable single sign-on.</p> <p>Also, make sure that <code>uwcauth.messaging.sso.enable</code> is set to <code>false</code> when setting up Communications Express for Identity Server Single Sign-On.</p> <p>The default value is <code>true</code>.</p> |
| <code>uwcauth.messaging.sso.cookiePath</code> | <p>Specifies the URI path for which the single sign-on cookie is saved.</p> <p>The default value is <code>/</code>.</p> |

| Parameters | Purpose |
|--------------------------|--|
| messagingssso.xxx.url | <p>Specifies the URL used to verify the SSO cookie.</p> <p>The value of <code>xxx</code> should be replaced by the application ID of the server.</p> <p>For example, if you want to enable SSO with Messaging Server whose application ID is “msg60”, you need to add the following configuration parameter:</p> <pre>messagingssso.msg60.url=http://servername/VerifySSO?</pre> <p>The value of <code>xxx</code> mentioned here should be identical to the value assigned in Messenger Express</p> <pre>local.webmail.sso.id.</pre> <p>The default value is <code>http://servername/VerifySSO?</code></p> |
| messagingssso.uwc.url | <p>When Communications Express is not deployed under <code>/</code>, such as <code>/uwc</code>, the value of the parameter may look like:</p> <pre>http://servername:85/uwc/VerifySSO?</pre> |
| messagingssso.appid | <p>Specifies the Messaging Server application ID.</p> <p>The value of <code>messagingssso.appid</code> should be same as the <code>local.webmail.sso.id</code> set during messaging server configuration .</p> <p>The default value is <code>ims</code>.</p> |
| messagingssso.ipsecurity | <p>Determines whether or not to restrict session access login IP address.</p> <p>If set to <code>true</code> when the user logs in, the server remembers which IP address the user used to log in. Then it only allows that IP address to use the session cookie it issues to the user while establishing sso with messaging server.</p> <p>If set to <code>false</code>, Communications Express does not perform this IP address check and restricts the access to the session.</p> <p>The default value is <code>true</code>.</p> |

Once the parameters in are set in `uwc-deployed-path/WEB-INF/config/uwcauth.properties` file, Communication Express users will be able to access Messenger Express using the Messaging Single Sign-on mechanism for authentication .

► **To enable Messenger Express Using Messaging SSO**

1. Run the configutil tool.

```
msg-svr_install_root/sbin/configutil
```

2. Set the following mail specific parameters using the configutil tool.

| Parameter | Purpose |
|---------------------------------|---|
| local.sso.<uwc-appid>.verifyurl | When Communications Express is not deployed under /, such as /uwc, the default value of the parameter may look like: http://siroe.example.com:85/uwc/VerifySSO? |
| local.webmail.sso.id | Specifies the value that is used to identify Messenger Express to other applications. |
| local.webmail.sso.cookieDomain | The string value of this parameter is used to set the cookie domain value of SSO cookie by the Messenger Express HTTP server. The value must begin with a period (.), for example, ".example.com" when the fully qualified hostname is siroe.example.com. Ensure that the value specified for this parameter is the same as that entered for uwcauth.cookieDomain. For example, .example.com |
| local.webmail.sso.enable | Enables or disables Messaging single sign-on functionality. Set the value to 0 to disable Messaging single sign-on functionality. |
| local.webmail.sso.prefix | Specifies the prefix used to find cookies generated by other trusted applications for SSO. Ensure this value corresponds to the value entered for uwcauth.appprefix. |
| local.webmail.sso.singleSignoff | If set to 1, when the user logs out, the server removes all single sign-on cookies for the user matching the value of local.webmail.sso.appprefix. If set to 0, the server removes only its single sign-on user cookie. |

| Parameter | Purpose |
|---------------------------------|---|
| local.webmail.sso.uwcenabled | <p>Enables or disables Messenger Express access from Communications Express.</p> <p>Set to 1, to enable Messenger Express access from Communications Express.</p> <p>Set to 0, to disable Messenger Express access from Communications Express.</p> |
| local.webmail.sso.uwlogouturl | <p>Specifies the URL used by Messenger Express to invalidate the Communications Express session.</p> <p>If you have configured <code>local.webmail.sso.uwlogouturl</code> explicitly in Messenger Express then this value is used to logout. Otherwise, Messenger Express constructs the logout url based on the http host in the request header.</p> <p>For example, <code>http://siroe.example.com:85/base/UWCMain?op=logout</code></p> <p>When Communications Express is not deployed under <code>/</code>, such as <code>/uwc</code>, the default value of the parameter may look like: <code>http://siroe.example.com:85/uwc/base/UWCMain?op=logout</code></p> |
| local.webmail.sso.uwcport | <p>Specifies the Communications Express port.</p> <p>For example, 85.</p> |
| local.webmail.sso.uwccontexturi | <p>Specifies the path in which Communications Express is deployed.</p> <p>Specify this parameter only when Communications Express is not deployed under <code>/</code>. For example, if Communications Express is deployed in <code>/uwc</code>, <code>local.webmail.sso.uwccontexturi=uwc</code></p> <p>For example, <code>uwc</code>.</p> |
| local.webmail.sso.uwchome | <p>Specifies the url required to access the home link.</p> <p>For example, <code>http://www.sun.com</code></p> |
| local.webmail.sso.ims.verifyurl | <p>Specifies the URL used to verify the SSO cookie.</p> <p>For example, <code>http://siroe.example.com/VerifySSO?</code></p> <p>Here it is assumed that webmail is deployed on port 80.</p> |

Communications Express users will now be able to access Messenger Express using Messaging Single Sign-on mechanism for authentication.

Troubleshooting

This chapter lists the common problems you may encounter and the steps to create and enable error logs.

The following sections are contained in this chapter:

- [Identifying and Troubleshooting the Problem](#)
- [Log Files](#)

Identifying and Troubleshooting the Problem

Communications Express provides an integrated web-based communications client that depends on many disassociated products. This may sometimes cause problems during usage that requires troubleshooting.

To establish the cause of the problem, use the following common troubleshooting methods first before addressing the problem:

1. Verify whether the steps mentioned in *Sun Java System Messaging Server Release Notes* and *Sun Java System Communications Express Administration Guide* have been followed when configuring the product.
2. Enable Communications Express logs to view the detailed error logs and determine the cause for failure. Refer to the section on [Log Files](#) for steps to enable logging.
3. Check the component logs for errors and exceptions reported. The log file maintains the list of errors encountered during installation, configuration and running of Communications Express.

Troubleshooting Commonly Identified Problems

This section provides an overview of problems that can be encountered during installation, configuration, start-up, or while accessing Communications Express user interface client components.

Listed below are some commonly identified problems in Communications Express components and their possible causes.

- [Configuring Communications Express](#)
- [Accessing Calendar](#)
- [Accessing Address Book](#)
- [Accessing Mail](#)
- [Restart the Web Server where Communications Express is deployed.](#)
- [Authenticating using Identity Server](#)

Configuring Communications Express

Configuration changes are not reflected, even after restarting the web container.

Make sure the configuration changes have been applied to the files in the appropriate config path.

Once Communications Express configuration is completed, the following configuration directories are created in your system:

- *uwc-deployed-path*/WEB-INF/config
- *uwc-deployed-path*/staging/WEB-INF/config
- *uwc-basedir*/SUNWuwc/WEB-INF/config

To ensure that the changes are reflected in your application, make configuration changes to *uwc-deployed-path*/WEB-INF/config

The other two directories such as *uwc-deployed-path*/staging/WEB-INF/config and *uwc-basedir*/SUNWuwc/WEB-INF/config are temporary place holders created and used internally by the configurator during configuration. Changes made in them will not get reflected in the application.

Configuration tasks have failed.

To locate the problem, use the log file located at *uwc-basedir*/SUNWuwc/install/uwc-config_*TIME-STAMP*.log

Where, *TIME-STAMP* is the time stamp of the configuration in the form YYYYMMDDhhmmss.

Configuration program is not working properly.

To identify the problem, invoke the configuration program with debug options enabled, using the following debug modes:

-debug : Use this option to generate general debug information

-debugMessage : Use this option to generate a log of errors and warnings

-debugWarning : Use this option to generate a log of warning messages and error messages

-debugError : Use this option to generate a log of error messages. By default this option is enabled.

UWC applications startup failed and web container logs shows exceptions.

This error might have occurred due to an incomplete or incorrect configuration.

Work around.

- Make sure you have completed all the post configuration steps. For the post configuration steps, refer to the [“Post Configuration Instructions,”](#) in [Chapter 2, “Installing and Configuring Communications Express.”](#)
- Make sure you have specified correct values to all the configuration questions asked by the configuration wizard.
- Check whether the web container user and group specified in the configuration wizard are correct.

The “chown” commands have failed during configuration.

Work around.

Run the configuration program and enter the correct web container user and group values in the “Web Container User and Group” panel of the configuration program.

The message, “An error occurred during this operation” appears when you access Communications Express with Identity Server enabled after authentication.

Work around.

Ensure that `uwcauth.identity.binddn` and `uwcauth.identity.bindcred` properties in `uwcauth-properties` are set to that of the `amAdmin` DN that was provided when installing Identity Server SDK. Refer to the section on [Configuring Identity Server Parameters in uwcauth.properties File](#) in Chapter 3, “Configuration Details.”

Although the directory manager credentials may be provided to `uwcauth.identity.binddn` and `uwcauth.identity.bindcred` for Identity Server SSO, the directory manager does not have the ACLs required to obtain certain domain specific attributes that Communication Express depends on to function properly.

No support to modify web-container configuration for IS SDK integration.

The configurator does not support modification of web-container configuration for Identity Server SDK integration.

Work around.

Manually invoke tools provided with Identity Server to modify web container configuration for Identity Server.

Messaging SSO is not supported in SSL.

Work around

To support Messaging SSO with SSL perform the following steps:

1. Configure Web Server in SSL mode.
2. Configure Communications Express for SSL port of Web Server.
3. Set `uwcauth.ssl.enabled=true`.
4. Set `uwcauth.https.port` to SSL port of Web Server.
5. Enable Messaging Server in SSL mode.
6. Set the `webmail.port` in `uwccconfig.properties` to SSL port of Messaging Server.
7. Provide `messagingssso.ims.url` to Non SSL port of Messaging Server
8. Install the Certificate Management Server root Certificate Authority (CMS root CA) on both Web Server and Messaging Server.
9. Restart Web Server.
10. Provide a value to `local.webmail.sso.ims.verifyurl` pointing to Non SSL port of Messaging Server.

11. Restart Messaging Server.

Accessing Calendar

The message, “An error occurred during this operation” appears when you access Calendar from Communications Express.

This error can appear because of either one or more of the following reasons.

- The Calendar Server configurations in *uwv-deployed-path* /WEB_INF/config/uwvconfig.properties are incorrect.
- The Calendar Server calmaster information in uwvconfig.properties file in Communications Express is not the same as the value in Calendar Server’s *cal deploy path*/bin/config/ics.conf file.

Refer to “[Configuring the Calendar Server Parameters in uwvconfig.properties File](#),” for calendar server related parameters.

- Both Communications Express and Calendar Server are not enabled for hosted domains.

Make sure either Communications Express and Calendar Server are both enabled for Virtual Domains or both disabled for Virtual Domains. Refer to “[Enabling Hosted Domain Configuration in Calendar](#)” for details on enabling Communications Express and Calendar Server for virtual domains.

- Calendar Server is not started.
- Calendar service is not enabled for this user.

The message, “Calendar Not Available. Could Not Display View. The selected calendar(s) was either deleted, or does not exist, or you do not have permissions to view it. Select another calendar(s)” appears when you access Calendar from Communications Express.

This error can occur when users are provisioned using commcli, which is used for Schema 2, in a non-hosted domain setup scenario. The error message is displayed because commcli incorrectly appends *@domain* to the value of *icsCalendar* attribute in the user’s LDAP entry.

Work around

To provision users using commcli in a non-hosted domain environment, use the *-k legacy* option in the *commadmin* command. For a Hosted domain environment, use *-k hosted* option. If the *-k* option is not specified a hosted domain setup is assumed.

For example,

Code Example 5-1 Commcli provisioning

```
./commadmin user create -D admin -w password -X siroe .varrius .com -n
siroe.varrius.com -p 85 -d siroe.varrius.com -F test -L user2 -l user2 -W
user2 -S mail,cal -k legacy
ok
```

or

If the entry corresponding to an already provisioned user cannot be removed, manually remove the '@domain' part from icsCalendar, icsSubscribed and icsOwned attributes.

The messages, “Calendars across the domain cannot be searched,” “Calendars across the domain cannot be invited,” “Calendars across the domain cannot be subscribed,” or “Check Availability for Calendars across the domain cannot be done,” appears when you search, invite, subscribe, or check the availability of Calendars across domains from Communications Express.

Work around

To search, invite, subscribe, or check the availability of calendars, Cross Domain search needs to be enabled. Refer to the section on “Enabling Cross Domain Searches” in Chapter 13 of the Calendar Server 6 2005Q1 Administration Guide.

Issues with Default Event Status Filter.

The Default Event Status Filter in the Options Calendar window specifies the events to be displayed in the day, week, and month calendar views. The options available are: Accepted, Tentative, Declined, No Response.

When the “Accepted” option is selected as the event status, only those invitations you have accepted are displayed in the day, week or month calendar views. However, all events created by you are always displayed in day, week, or month calendar views.

In the Options Calendar Window, by default only “Accepted” and “Tentative” are selected, which means as a user, you will not see events you have declined or to which you have not responded as yet.

Work around

To view all the events in the Day, Week, Month, and Year views, you should select all the options, that is, Accepted, Tentative, Declined, No Response in the Options Calendar window.

Communications Express displays "Server Error" while uploading files greater than 2 MB.

This error occurs while importing events and tasks to a calendar or importing contacts to an address book when the uploaded file size is greater than 2 MB.

By default Communications Express allows import of upto 2 MB file data. However, upload file size limit is configurable.

Work around

Configure a greater upload file size limit.

To configure a greater upload file size limit configure the following `init` parameters for the filter, `MultipartFormServletFilter` in `web.xml`:

- **`fileSizeHardLimit`**. Specifies the maximum byte size of the uploaded file content before an error occurs and the request processing is stopped. For example, if a user uploads three files in one request, and if one or more of the files exceeds the `fileSizeHardLimit` limit, all files will be discarded and the filter will signal an error condition.
- **`requestSizeLimit`**. Specifies the maximum byte size of the entire incoming request. If a request violates this limit, request processing will stop and the input stream will be discarded. The filter will then handle the violation as it would for a content size hard limit violation. This limit defaults to 4 MB
- **`fileSizeLimit`**. Specifies the maximum byte size of uploaded file content. For example, if a user uploads three files in one request, each one of the files may not be larger than this limit. Note that this limit is a `softlimit`, meaning that if uploaded content exceeds this limit, the content will be discarded but the request will still proceed normally, allowing for handling of the size violation by the application. This limit defaults to 1 MB
- **`failureRedirectURL`** .(Optional). Specifies the redirect URL the request is forwarded to, when an error occurs. The redirect URL can be configured via the `failureRedirectURL` `init` parameter. If no redirect URL has been specified, the filter will throw an exception to immediately end the request. This limit defaults to 2 MB.

For example, to increase the upload file size to 10MB, follow the configuration steps mentioned below:

1. Take a backup of the existing `web.xml` from `uwc-deployed-path/WEB-INF/web.xml` .
2. Edit the `web.xml` file at `uwc-deployed-path/WEB-INF/web.xml` .

3. Provide the configuration for `MultipartFormServletFilter` in `web.xml` as indicated in bold in code example 5-2.

Code Example 5-2 Configuring init Parameters for `MultipartFormServletFilter` in `web.xml`

```

<web-app>
..
..
<filter>
  <filter-name>MultipartFormServletFilter</filter-name>

<filter-class>com.sun.uwc.calclient.MultipartFormServletFilter</filter-class>
..
..
<init-param>
  <param-name>fileSizeHardLimit</param-name>
  <param-value>10485760</param-value>
  <description>Ten mega bytes</description>
</init-param>
<init-param>
  <param-name>requestSizeLimit</param-name>
  <param-value>10485760</param-value>
  <description>Ten mega bytes</description>
</init-param>
<init-param>
  <param-name>fileSizeLimit</param-name>
  <param-value>10485760</param-value>
  <description>Ten mega bytes</description>
</init-param>
<init-param>
  <param-name>failureRedirectURL</param-name>
  <param-value>put your url here</param-value>
  <description>Request is redirected to this url when uploaded file size
crosses fileSizeHardLimit value</description>
</init-param>
..
..
</filter>
..
..
</web-app>

```

4. Restart web container to have the changes take effect.

Accessing Address Book

A “Server Error” occurs when Address Book is accessed. The Web Server log records an exception “org.apache.xml.utils.WrappedRuntimeException: The output format must have a '{http://xml.apache.org/xslt}content-handler’ property!”

This exception is thrown by Web Server when JDK Web Server points to a version lower than JDK 1.4.2. The Communications Express uses the latest version of `xalan` and `xerces` for XML/XSL parsing. This error can appear when:

1. You are using Web Server 6.1 not deployed using JES installer. JDK 1.4.1 is usually bundled with Web Server 6.1.
2. The version of the shared `xalan` and `xerces` components shipped with Java Enterprise System, are not the latest.

Work around

- If the error appears because you have not installed Web Server from the JES installer, manually upgrade the JDK version of the web container that is defined as `java_home` attribute of `java` tag in `server.xml` Web Server configuration file.

or

Re-install webservice from Java Enterprise System, and have the install process upgrade JDK automatically.

NOTE If this step is performed, all the other web-applications must be redeployed. As a precaution, take a backup of the `server.xml` file.

- If the error appears because the version of the shared `xalan` and `xerces` components are not the latest, remove the symbolic links for `xalan.jar` and `xerces.jar` from `uwc-deployed-path/WEB-INF/lib`.

For example:

```
# cd /var/opt/SUNWuwc/WEB-INF/lib
# rm xalan.jar xercesImpl.jar
```

Then, restart the Web Server.

The message “An error occurred during this operation” appears when Address Book is accessed from Communications Express.

This error occurs when the LDAP configuration for Personal Address Book (PAB) is not correct. When the Address Book tab is accessed, Communications Express connects to the personal address book store, that is, the LDAP configured for PAB. If the personal address book store is unable to establish a connection, the error is displayed.

Work around

1. Check the LDAP configuration in `WEB-INF/config/ldapstore/db_config.properties`.
2. Edit the incorrect configuration settings.
3. Restart the Web Server where Communications Express is deployed.

For more information, refer to the section “[Configuring Corporate Directory Parameters db_config.properties File](#),” in Chapter 3, “[Configuration Details](#).”

Corporate Directory shows an inline error when search is performed.

This could happen if LDAP configuration for Corporate Directory is not configured properly.

Work around.

Check the LDAP configuration in

`WEB-INF/config/corp-dir/db_config.properties` for any misconfigurations, correct them and then restart Communications Express.

For more information, refer to the section “[Configuring Corporate Directory Parameters db_config.properties File](#),” in Chapter 3, “[Configuration Details](#).”

Viewing contacts of Corporate Directory shows error in View window

This error is displayed when the key to access a contact entry in Corporate Directory is not “uid.”

uid is the default value set by Communications Express.

Work around

To access the contacts from Corporate Directory the key value should be set to the desired value in `db_config.properties` and `xlate-inetorgperson.xml` configuration files in *uwc-deployed-path*/`WEB-INF/config`.

Make the following changes in the files:

1. Set the appropriate key value in `uwc-deployed-path/WEB-INF/config/WEB-INF/config/corp-dir/db_config.properties`.

2. Set the appropriate key in place of “uid” in *entry entryID=“db:uid”* in *uwcd-deployed-path/WEB-INF/config/WEB-INF/config/corp-dir/xlate-inetorgperson.xml*.
3. Restart the Web Server where Communications Express is deployed.

For more information, refer to the section “[Configuring Corporate Directory Parameters db_config.properties File](#),” in [Chapter 3, “Configuration Details.”](#)

The value of psRoot cannot be set.

The LDAP attribute `psRoot` in User Preferences is used for Addressbook Server Horizontal Scalability. For more details, see the section, “[Supporting Horizontal Scalability of Addressbook Server](#),” in [Chapter 3, “Configuration Details.”](#) If your deployment does not require Addressbook Server Horizontal Scalability, you may ignore this error.

When a user logs into Communications Express for the first time, the `psRoot` is attempted to be set automatically, but sometimes the value may not be automatically set. This typically happens when the Java Enterprise System Directory Server has not been installed and `comm_dssetup.pl` for Java Enterprise System has not been run after installing Java Enterprise System Directory Server. This results in the LDAP Schema not being updated.

Since the schema is not updated, the `psRoot` attribute cannot be manually set even when the attribute is required for a horizontally scalable Addressbook Server deployment.

Work around

To enable the setting of the `psRoot` attribute, update the Directory Server to include the `psRoot` attribute. To do this, include the attribute `psRoot` in the definition of `ipUser` object class in

Directory ServerInstance/config/schema/99user.ldif.

NOTE You need to update the Directory Server to include the `psRoot` attribute only if in the current deployment, the Java Enterprise System Directory Server has not been installed and you have not run `comm_dssetup.pl` for Java Enterprise System after installing Java Enterprise System Directory Server.

Accessing Mail

Login page appears when Mail tab is clicked.

This problem is noticed when the configuration between Communications Express and Messaging Server is not done properly. For Messaging Server and Communications Express to work seamlessly, Messaging or Identity Server Single Sign-On should be enabled. Before starting Communications Express, follow the instructions outlined for Single Sign-on configuration in [Chapter 4, “Implementing Single Sign-On.”](#)

The message “An error occurred during this operation” appears when Mail is accessed from Communications Express.

This error appears when the mail component of Communications Express is not deployed or enabled, but the user logging into Communications Express has set Mail to be the default application.

Work around

The Administrator needs to change the value of the attribute `sunUCDefaultApplication` in the user’s LDAP entry to “calendar” or “addressbook.”

The user remains logged in even after logging out of Communications Express.

This problem is encountered when Identity Server (also known as Access Manager) and Communications Express are installed on different machines and Identity Server Remote SDK is installed in the machine where Communications Express is installed.

Work around

In the machine on which Communications Express is installed, specify the following configuration parameter in `AMConfig.properties` file:

```
com.iplanet.am.notification.url=url-to-access-web-container-of-CommunicationsExpress/servlet/com.iplanet.services.comm.server.PLLRequestServlet
```

NOTE `AMConfig.properties` file can be found under `IS-SDK-BASEDIR/SUNWam/lib`

You may encounter the following problems when accessing Address book features from Mail:

- **Calendar, Address book, and the Options page cannot be accessed from the Mail tab page.**
- **Clicking “To” in the compose window or “Send Mail” from Address Book displays a javascript error.**

- **Mail options are not saved.**

It is mandatory to deploy Communications Express and Messenger Express (MEM) on the same host to enable them interoperate using Javascript in the browser.

Authenticating using Identity Server

Unable to authenticate after entering valid userid and password.

Authentication could fail for the following reasons:

- The user is not provisioned using commcli or Identity Server (also known as Access Manager) and Sun Java System LDAP Schema v.2 is used.

Work around

If Sun Java System LDAP Schema v.2 is used, ensure that users have been added using commcli utility or through Identity Server UI console.

- The User attempting to login does not exist in the organization.

The `defaultdomain` property defined in `uw-deployed-path/WEB_INF/config/uwcauth.properties` is used to authenticate a userid in the absence of domain information in the format `user@domain`. If the user does not exist in the organization tree for the corresponding domain, authentication fails.

- Admin credentials are not correct in `uw-deployed-path/WEB_INF/config/uwcauth.properties`.

Refer to “[Configuring Identity Server Parameters in uwcauth.properties File](#),” in [Chapter 3, “Configuration Details](#),” for the configuration parameter details.

Log Files

The log information generated by the various system components on their operation can be extremely useful when trying to isolate or troubleshoot a problem.

► To Enable Logging

1. Edit the file `uwclogging.properties` in *uwc-deployed-path*/WEB-INF/config directory

The `uwclogging.properties` file stores the following parameters:

Table 5-1 Configurable Parameters in `uwclogging.properties` File

| Module/Log Control File | Parameter | Default Value | Description |
|--|---------------------------------|--|---|
| Configuration | | | Logs are maintained in a time-stamped file at <code>/opt/SUNWuwc/install/uwc-config</code> <code>_TIME-STAMP.log</code> |
| Communications Express <i>uwc-deployed-path</i> /WEB-INF/config/uwclogging.properties | <code>uwc.logging.enable</code> | no | Enables or disables logging. To enable logging change the property value of <code>uwc.logging.enable</code> to “yes.” For example, <code>uwc.logging.enable=yes</code> |
| Communications Express <i>uwc-deployed-path</i> /WEB-INF/config/uwclogging.properties | <code>uwc.log.file</code> | <i>uwc-deployed-path</i> /logs/uwc.log For example: <code>/var/opt/SUNWuwc/logs/uwc.log</code> | Specifies the location of the log file. Change the location of the log file, if required. Ensure Web Server can write to this file. |
| Communications Express <i>uwc-deployed-path</i> /WEB-INF/config/uwclogging.properties | <code>uwc.log.level</code> | INFO | Specifies the log level for the application. Change the log level for the application to the desired level. The log level values available are: WARNING, INFO, and FINE, SEVERE. |

Table 5-2 Configurable Parameters in uwconfig.properties File

| Module/Log Control File | Parameter | Default Value | Description |
|--|---------------|----------------|--|
| Address Book <i>uwc-deployed-path</i> /WEB-INF/config/uwconfig.properties | log.file | /tmp/trace.log | Specifies the location of the log file. Change the location of the log file, if required. Ensure Web Server can write into this file. |
| Address Book <i>uwc-deployed-path</i> /WEB-INF/config/uwconfig.properties | uwc.log.level | 3 | Specifies the log level for the application. To disable logging for this module, set the value to 0. |
| Mail | | | Refer to Chapter 20, Logging and Log Analysis, of Sun Java System Messaging Server Administration Guide at http://docs.sun.com/source/817-62266 |

2. After you set the default values in `uwclogging.properties` and `uwconfig.properties` file, restart the Web Server.

CAUTION Enabling logging will impact the performance of the system.

Log Files

Configuring the Hosted Domains

Communications Express supports the hosted domain structure for an organization.

This chapter describes the changes to be made to Communications Express to enable hosted domains.

- [Enabling Hosted Domains](#)
- [Setting Hosted Domains](#)

Enabling Hosted Domains

This section describes the changes to be made in Communications Express to enable hosted domains (also known as virtual domains).

Enabling Hosted Domain Configuration in Calendar

To enable hosted domain configuration in calendar, you must set the `virtual domain.mode` parameter to “y” in `uwc-deployed-path/WEB_INF/config/uwcauth.properties` file and configure Calendar Server for hosted domains. For information on how to configure Calendar Server for hosted domain refer to the *Calendar Server Administration Guide* at:

<http://docs.sun.com/source/817-5697/csagCreatingHostedDomains.html>

Provisioning Hosted Domain in Mail

To provision a domain and to learn about creating a hosted domain entry in the organizational tree, refer to the *iPlanet Messaging Server 5.2 Provisioning Guide for Sun Java System LDAP Schema v.1* at: <http://docs.sun.com/source/816-6018-10>

For information on how to customize the mail client interface for each domain, refer to the *Sun Java System Communications Express Customization Guide* at:

<http://docs.sun.com/source/819-0116/perdomaincust.html>

Enabling Hosted Domain Configuration in Address Book

The following files can be modified to enable hosted domains.

- *uwc-deployed-path*/WEB-INF/domain/personalstore.properties file
- *uwc-deployed-path*/WEB-INF/domain/defaulttps/defaulttps.xml file

Setting Hosted Domains

The domain related configurable parameters are stored in the following files:

- `uwcdomainconfig.properties`
- `personalstore.properties`
- `defaulttps/defaulttps.xml`
- *lang*/i18n.properties. For example, `en/i18n.properties`.

When Communications Express is deployed, these files are by default copied to *uwc-deployed-path*/WEB-INF/domain directory.

For a particular user's session, the domain related property files are searched in the following order:

1. *uwc-deployed-path*/WEB-INF/domain/*user's domain*/property-files
2. *uwc-deployed-path*/WEB-INF/domain/property-files

Creating Hosted Domain

This section describes the steps you need to perform to create hosted domains.

► **To specify the domain related properties for a particular domain:**

1. Create a directory with the domain name under *uwc-deployed-path*/WEB-INF/domain.

For example: *uwc-deployed-path*/WEB-INF/domain/*domain-name*

2. Copy the domain related configuration files under *uwc-deployed-path*/WEB-INF/domain directory to this directory. Refer to the section, [Setting Hosted Domains](#) for a list of domain related parameters.
3. Customize the property files in the *uwc-deployed-path*/WEB-INF/domain/*domain-name* directory as explained in the sections below.

4. To enable Identity Server login url to be constructed according to the domain specific url of Communications Express, set the fully qualified virtual hostname, `uwc.isvirtualhostname`, to the virtual hostname of Identity Server.

For example, when

```
ce.virtualdomain.com.isvirtualhostname=is.virtualdomain.com
```

and if you are accessing Communications Express from `http://ce.virtualdomain.com/uwc`

then the Identity Server url will appear as

```
http://is.virtualdomain.com/amserver/UI/Login.
```

If the fully qualified virtual hostname is not mapped to the to the virtual hostname of the Identity Server, Communications Express constructs the Identity Server login URL based on the static Identity Server login URL configured in `uwcauth.identity.login.url`.

For example, if

```
uwcauth.identity.login.url=http://siroe.com:85/amserver/UI/Login
```

and you access Communications Express from a domain specific URL such as `http://ce.varrius.com:80/uwc`, Communications Express will construct the IS login url as:

```
http://siroe.varrius.com:85/amserver/UI/Login
```

where the domain is, `varrius.com`.

If the domain is `ce.varrius.com`, Communications Express will construct the Identity Server login URL as:

```
http://siroe.ce.varrius.com:85/amserver/UI/Login.
```

5. Make the following changes in the Identity Server configuration:
 - a. Define FQDN mapping in `AMconfig.properties`. The default location of `AMconfig.properties` file is:
`/etc/opt/SUNWam/config/AMconfig.properties`

For example, if Identity Server is accessed from the virtual host as `is.virtualdomain.com`, the FQDN mapping will appear as:

```
com.sun.identity.server.fqdnMap[is.virtualdomain.com]=is.virtualdomain.com
```

- b. Add `virtualdomain.com` in the additional cookie domain field in `cookie domains`, under service configuration -> `platform`.

Configuring Parameters for Hosted Domain

The following sections describe the settings you can configure for a domain in Communications Express:

- [Configuring Parameters in uwcdomainconfig.properties file](#)
- [Customizing the Global GUI](#)
- [Configuring Languages in uwcdomainconfig.properties File](#)

Configuring Parameters in uwcdomainconfig.properties file

The `uwcdomainconfig.properties` files maintains the default values of the calendar and address book related user preferences that can be configured on a per domain basis. These default user preference values are dynamically assigned to new users, when they access calendar and address book in Communications Express for the first time.

Table 6-1 lists the default user preferences in the application.

Table 6-1 Default User Preferences in uwcdomainconfig.properties File

| Parameter | Default Value | Description |
|---|---------------|--|
| <code>uwc-user-attr-sunUCDefaultApplication</code> | calendar | Specifies the default page to be displayed after you login. The available options are: mail, calendar, addressbook. |
| <code>uwc-user-attr-sunUCDefaultEmailHandler</code> | uc, desktop | Specifies the default email client used to send email messages from the application. You can set the default email client to Messenger Express or to a browser mail client. |
| <code>uwc-user-attr-sunUCDateFormat</code> | M/D/Y | Specifies the order in which the date, month, and year should appear in a date. The available options are: M/D/Y, D/M/Y, Y/M/D |

Table 6-1 Default User Preferences in uwcdomainconfig.properties File (*Continued*)

| Parameter | Default Value | Description |
|----------------------------------|---------------------|---|
| uwc-user-attr-sunUCDateDelimiter | / | Specifies the delimiter used in dates. Delimiter is the character that separates the date, month, and year in the date. You can specify the delimiter as a comma(,), forward slash (/), or hyphen(-). |
| uwc-user-attr-sunUCTimeZone | America/Los_Angeles | Specifies the time zone in which your calendar is created. You can choose any valid time zone from the following areas: North and South America, Europe and Africa, Asia and Pacific Rim. |

- [Table 6-2](#) lists the user preferences related to Calendar application.

Table 6-2 Default Calendar Preferences in uwcdomainconfig.properties File

| Parameter | Default Value | Description |
|---|---------------|--|
| uwc-user-attr-icsExtendedUserPrefs-ceDefaultView | dayview | Specifies the view your default calendar should display after you login. The available options are: dayview, weekview, monthview, and yearview. |
| uwc-user-attr-icsExtendedUserPrefs-ceShowCompletedTasks | false | Specifies whether the completed tasks will appear in the Tasks pane of the calendar. Change the default value to "true" if you want the completed tasks to appear in the Tasks pane of the calendar. |
| uwc-user-attr-icsExtendedUserPrefs-ceDefaultCategory | Business | Specifies the default category in which the new events or tasks should be created. The categories available are: Anniversary, Appointment, Birthday, Business, Breakfast, Class, Conference Call, Dinner, Holiday, Lunch, Meeting, Other, Personal, Seminar, Training, Travel, Vacation and Interview. |

Table 6-2 Default Calendar Preferences in uwcdomainconfig.properties File (*Continued*)

| Parameter | Default Value | Description |
|--|----------------------|--|
| uwc-user-attr-icsExtendedUser Prefs-ceDayHead | 9 | Specifies the day start time in hours. |
| uwc-user-attr-icsExtendedUser Prefs-ceDayTail | 18 | Specifies the day end time in hours. |
| uwc-user-attr-icsExtendedUser Prefs-ceInterval | PT1H0M (One hour) | Specifies the interval the day is split into. In the day and week view, the day is split into half an hour or one hour time period. You can change the default split value to PT0H30M(half hour) |
| uwc-user-attr-icsFirstDay | 1 | Specifies the day of the week to be considered as the first day of the week in the calendar. By default, Sunday(1) is considered to be first day of the week and Saturday(7) the last day of the week. |
| uwc-user-icsExtendedUserPref s-ceWeekEndDays | 1,7 | Specifies the days of the week in the calendar views to be considered as weekend days. By default, Sunday(1) is the first day of the week and Saturday(7) the last day of the week. Comma separated list of numbers represents the days of the week to be considered as week end days. |
| uwc-user-attr-icsExtendedUser Prefs-ceIncludeWeekendInViews | false | Enables or disables the display of weekend days in the Week and Month views of your calendar. Set the default value to "true" if the weekend days should be displayed in the Week and Month views of the calendar. |
| uwc-user-attr-icsExtendedUser Prefs-ceSingleCalendarTZISD | true | Specifies whether the calendar should be displayed in the calendar's time zone. Change the default value to "false" if you do not want to view calendars in the calendar's time zone. In this case, all calendars will be displayed in the time-zone specified in Global Options tab. |
| uwc-usr-attr-icsExtendedUserP refs-ceDefaultAlarmStart | PT0H30M | Specifies the default number of hours and minutes before an event or task a reminder should be sent. |

Table 6-2 Default Calendar Preferences in uwcdomainconfig.properties File (*Continued*)

| Parameter | Default Value | Description |
|---|---------------|--|
| uwc-user-attr-icsExtendedUser Prefs-ceNotifyEnable | false | Specifies whether to send email messages (containing ical attachments) to internal invitees when new events are created. Valid values are: false, true. |

- Table 6-3 lists the Configurable Address Book default user preferences.

Table 6-3 Default Address Book Preferences in uwcdomain.properties File

| Parameter | Default Value | Description |
|---|-----------------------------------|--|
| uwc-user-sunAbExtendedUser Prefs-abName | Personal Address Book | Specifies the name of the default address book. |
| uwc-user-attr-sunAbExtendedU serPrefs-abDescription | This is the personal address book | Specifies a short description for the default address book. |
| uwc-user-attr-sunAbExtendedU serPrefs-abEntriesPerPage | 25 | Specifies the maximum number of address book entries to be displayed on a page. The available options are: 25, 50, 75. |
| uwc-user-attr-sunAbExtendedU serPrefs-abSearchDisplayColumn1 | displayname | Specifies the value to be displayed in the first column. By default, the first column displays name of contacts or group. |
| uwc-user-attr-sunAbExtendedU serPrefs-abSerchDisplayColumn2 | primaryemail | Specifies the value to be displayed in the second column of your address book. You can set the display column name to: displayname, company, title, primaryphone, workphone, homephone, faxphone, pagerphone, primaryemail, email2, email3, homeaddress, workaddress, weburl1, weburl2, calendarurl, freebusyurl, birthday, anniversary ,ou, edit, viewcalendar. |

Table 6-3 Default Address Book Preferences in uwcdomain.properties File (*Continued*)

| Parameter | Default Value | Description |
|---|---------------|---|
| uwc-user-attr-sunAbExtendedUserPrefs-abSearchDisplayColumn3 | | <p>Specifies the value to be displayed in the third column of your address book.</p> <p>You can set the display column name to:</p> <p>displayname, company, title, primaryphone, workphone, homephone, faxphone, pagerphone, primaryemail, email2, email3, homeaddress, workaddress, weburl1, weburl2, calendarurl, freebusyurl, birthday, anniversary ,ou, edit, viewcalendar.</p> |
| uwc-user-attr-sunAbExtendedUserPrefs-abSearchDisplayColumn4 | edit | <p>Specifies the value to be displayed in the fourth column of your address book.</p> <p>You can set the display column name to:</p> <p>displayname, company, title, primaryphone, workphone, homephone, faxphone, pagerphone, primaryemail, email2, email3, homeaddress, workaddress, weburl1, weburl2, calendarurl, freebusyurl, birthday, anniversary ,ou, edit, viewcalendar.</p> |

Configuring the personalstore.properties file

Modify the parameters in `personalstore.properties` file to configure address book store, corporate directory and any remote directories.

Table 6-4 lists the settings stored in `personalstore.properties` file.

Table 6-4 Configuration Settings Stored in `personalstore.properties` File

| Parameters | Default Value | Description |
|--------------------------------------|---|---|
| <code>db.defaultpsrootpattern</code> | <code>ldap:///piPStoreO wner=%U,o=%D,o =PiServerDb</code> | Specifies the pattern used to dynamically construct the <code>psRoot</code> value for a user. The <code>psroot</code> identifies the location where a user entry resides. %U = uid of the user ("jsmith") %D = domain of the user ("siroe.com") %O = most significant part of the domain ("siroe") |
| <code>db.xxx.class</code> | <code>com.iplanet.iabs.ldap.plugin.LDAP</code> | Specifies the name of the java class implementing the plug-in. For example, LDAP plug-in. |
| <code>db.xxx.urlmatch</code> | | Specifies the URL in the format: <code>ldap://host:port/DN</code> Based on this parameter the <code>xxx</code> instance is identified. This value should correspond to the "bookremoteurl" attribute stored in <code>defaultps.xml</code> file. |
| <code>db.xxx.configpath</code> | | Specifies the path to the configuration directory containing the LDAP information for this instance. If the path is relative, it is relative to the location of this file. |
| <code>db.xxx.wildcardsearch</code> | | Specifies the minimum number of characters to be provided in a wild card search. |
| <code>db.xxx.randompaging</code> | <code>false</code> | Specifies whether the plug-in supports random access and whether each page must be accessed from the first page. If <code>false</code> , the search process will continue to search until it gets the right page. |
| <code>db.xxx.corporatedir</code> | <code>false</code> | For a corporate directory this value should be true. |

Table 6-4 Configuration Settings Stored in `personalstore.properties` File

| Parameters | Default Value | Description |
|-------------------------------|---------------|---|
| <code>db.useUserPsRoot</code> | false | Set the value to true to use the user's <code>psRoot</code> value. If set to false, the <code>defaultserver</code> values are used. |

Configuring `defaultps.xml` file

The `defaultps.xml` file contains the default definitions for personal and corporate address books that are created in the LDAP store when a user logs in for the first time.

Each book node contains a book definition that is created for users in the domain under which the `defaultps.xml` file resides.

Following are examples of the XML sections in `defaultps.xml` that contain the definitions of Personal Address Book and a Corporate Address Book.

Personal Address Book XML

Code Example 6-1 XML section containing Personal Address Book Definitions

```
<book booktype="abook">
  <bookoc>piLocalBook</bookoc>
  <entry entryID="pab">
    <displayname>_Personal Address Book</displayname>
    <description>_This is your Personal Address Book</description>
  </entry>
</book>
```

Corporate Directory XML

Code Example 6-2 XML section containing Corporate Address Book Definitions

```
<book booktype="abook"
  bookremoteurl="ldap://corpdirectory">
  <bookoc>piRemoteBook</bookoc>
  <entry entryID="idirectory">
    <displayname>_Corporate Directory</displayname>
    <description>_This is Corporate Directory</description>
  </entry>
</book>
```

For corporate and remote address books a corresponding `xxx` instance should exist in the `personalstore.properties` file. The value of `db.xxx.urlmatch` in `personalstore.properties` file should be assigned the value of `bookremoteurl` attribute present in `defaultps.xml` file.

To add a new remote address book, you need to add the following items:

1. Add a new book node in `defaultps.xml` file
2. Add a new `xxx` instance in `personalstore.properties` file.
3. Create a directory under `WEB-INF/config` to store the `db_config.properties` and `xlate` files.

NOTE The `xlate` files contains the field mappings between an LDAP schema and address book XML schema for a contact or group.

Customizing the Global GUI

Theme file contain the logical names of the icons appearing in Communications Express and their default location. You can change the location of the images by changing the path specified in this file. The default `theme.properties` file is located under `uwc-deployed-path/WEB-INF/skin`.

Configuring Languages in `uwcdomainconfig.properties` File

The `uwcdomainconfig.properties` files contains the list of supported languages for a domain. Each language in the list is separated by a semi colon. You can define the list of languages Communications Express will support for a domain.

For example, if you are planning to support `en` (English), `de` (German), `fr` (French), and `ja` (Japanese) languages in a domain called `siroe.com`, then set `supportedLanguages` in `uwcdomainconfig.properties` file for that domain to `supportedLanguages=en;fr;de;ja`.

The `uwcdomainconfig.properties` file `siroe.com` should be located at:

`WEB-INF/domain/siroe.com/uwcdomainconfig.properties`

You will also have to define the localizable strings in the corresponding `i18n.properties` files. For example,

`uwc-common-options-preferredLanguage-en=English`

`uwc-common-options-preferredLanguage-de=German`

`uwc-common-options-preferredLanguage-fr=French`

`uwc-common-options-preferredLanguage-ja=Japanese`

The `i18n.properties` file for `siroe.com` will be located at:

`WEB-INF/domain/siroe.com/locale/i18n.properties`

In the absence of a `preferredLanguage` attribute in the User's LDAP entry, the domain `preferredLanguage` attribute, the browser provided header values and the availability of `i18n.properties` file determines the language used in the users session.

Migrating PAB Data to Addressbook Server

Previously Personal Address Book (PAB) was used to store user's contacts in Sun Java System Messaging Server and PAB could be accessed only by web-based clients deployed on Messaging Server. The Messaging Server for Communications Express uses the Addressbook Server instead of PAB to store users' contact details. Because of this, users accessing Communications Express using existing Messaging Server installations must migrate their PAB data to the Address Book Server.

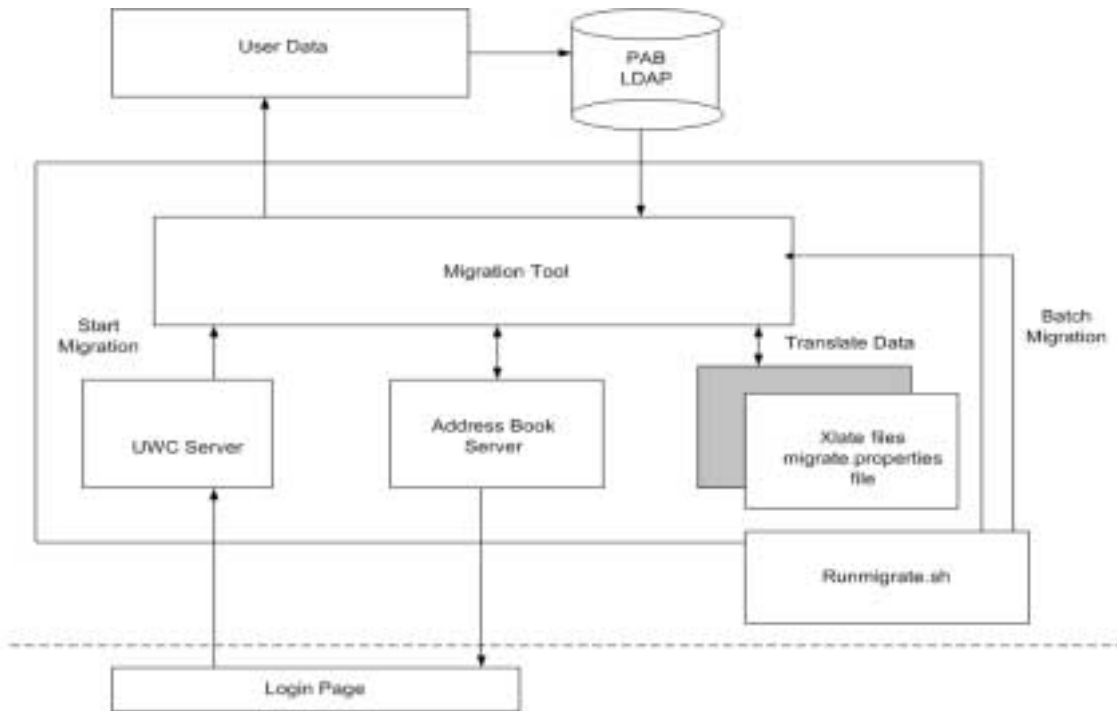
This chapter contains the following sections:

- [Overview](#)
- [Migration Scenarios](#)
- [Post Configuration Steps](#)
- [Additional Configuration Required for Horizontal Scalability Support](#)
- [Migration Scenarios](#)

Overview

The migration tool migrates user's Messenger Express address book data to the Addressbook Server that is part of Communications Express.

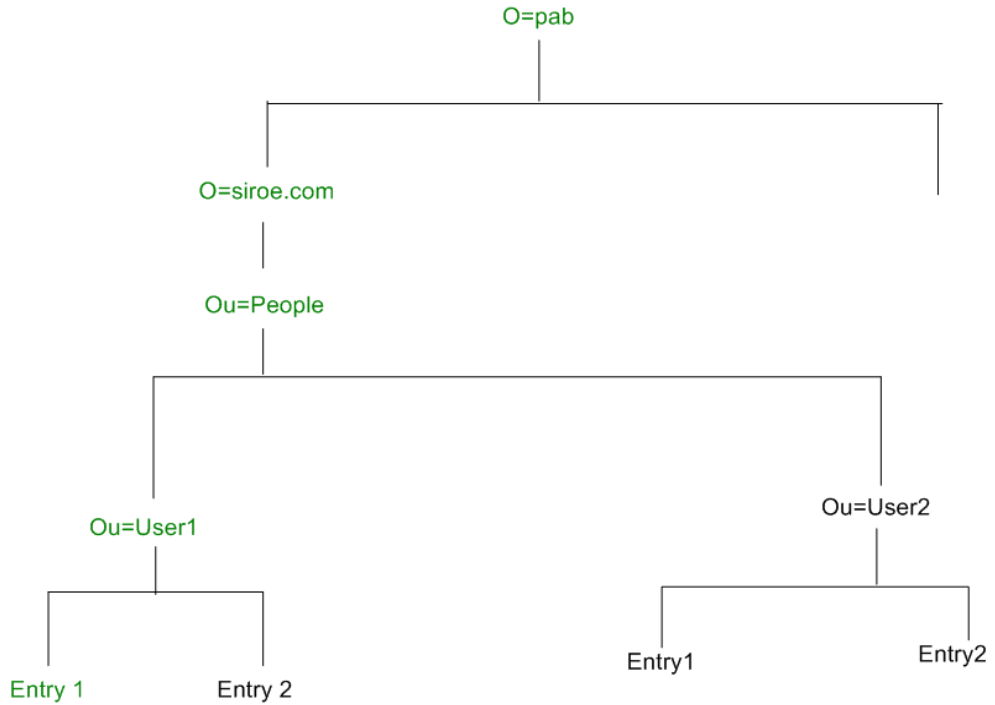
Figure 7-1 Overview of the Data Migration Process



Data residing in the LDAP PAB tree of Messenger Express is migrated to the addressbook Server LDAP PAB tree. The example below illustrates the migration process.

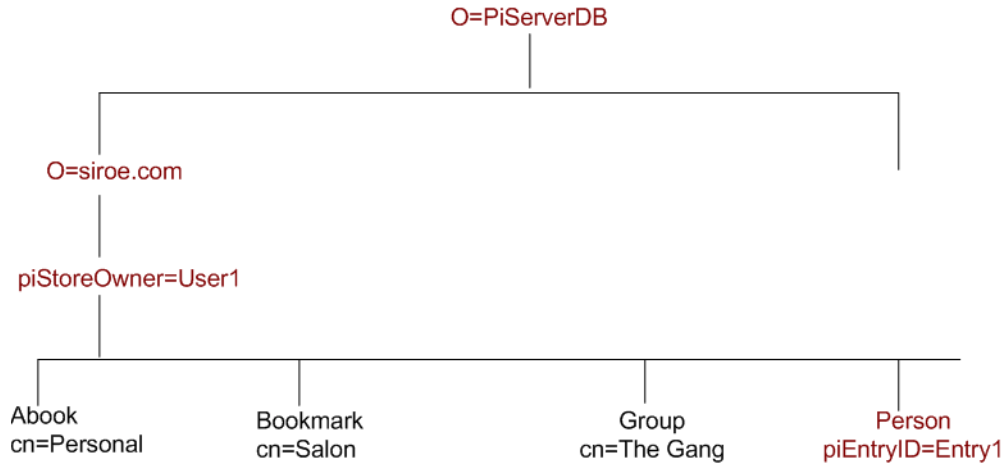
When User1 in the domain siroe.com has an entry in PAB, such as Entry1 that needs to be migrated, the entry is located in the PAB tree under ou=User1 as shown in green in Figure 7-2.

Figure 7-2 Location of Entry1 in the PAB tree



After migration, the newly created Addressbook Server Entry is added to the Addressbook Server tree under o=siroe.com, piEntryID=Entry 1 as shown in red in Figure 7-3.

Figure 7-3 Location of Entry 1 in the Addressbook Server tree.



NOTE The migration utility migrates all the data from PAB of Messenger Express to Address Book of Communication Express when the user logs in for the first time. However, once data is migrated to Address Book, new contacts or groups created using Messenger Express will not be shown in the Address Book of Communications Express. The reverse is also true.

Migration Scenarios

Data Migration takes place in two ways:

- [Dynamic Migration](#)
- [Batch Migration](#)

Dynamic Migration

Dynamic Migration takes place when an existing Messenger Express user logs into Communication Express. The users receive an email after the migration is completed.

In the dynamic migration process:

- The application checks if migration has been enabled in the `wcuath.properties` file and then proceeds with the migration process.

- The login logic then compares the `nswmextendedprefs` attribute with `mepabmigration` value to determine whether the user's data has been previously migrated.
- Once PAB migration is completed, the Addressbook Server sets the `nswmextendedprefs`, `mepabmigration` to "1" in the logged in user entry, to indicate the completion of the migration process.
- The user receives a mail after the PAB data is successfully migrated to the Address Book Server.

To receive a mail, you are required to define the parameters mentioned in [Table 7-2](#).

Batch Migration

In the batch migration process, migration takes place at the server level without end user interaction. The administrator executes the `runMigrate.sh` batch script to migrate the mail users PAB data present in a given domain. For mail users present in multiple domains, the administrator will have to invoke the `runMigrate.sh` script for each domain to migrate users PAB data from the given `inetDomainBaseDN` to the Address Book Server.

Post Configuration Steps

You need to configure Communications Express to enable migration.

NOTE Note that the configuration parameters required for migration must be manually provided by the administrator.

Table 7-1 lists the config files the migration utility depends on.

Table 7-1 Configuration Files and their Purpose

| File Name | Description |
|---------------------------------|---|
| <code>migrate.properties</code> | Contains the parameters required to migrate data from PAB to Address Book Server. Refer to Table 7-2 for information on these parameters. |

Table 7-1 Configuration Files and their Purpose

| File Name | Description |
|---|--|
| uwcauth.properties | Referred by the migration utility to decide whether migration is required. Migration tool checks for the value of <code>pab_mig_required</code> . If the value is true, dynamic migration takes place |
| uwccconfig.properties | Administrators can provide the log level and enable logging for trouble shooting purposes. By default this parameter is disabled. |
| runMigrate.sh | The script sets the required variables and invokes the java program <code>MigratePab</code> , with following three arguments. |
| (applicable only for Batch migration) | # Absolute path of <code>migrate.properties</code> file. The Default path is set to: <code>../WEB-INF/config/migrate.properties</code> # Absolute path of config directory in which <code>uwcauth.properties</code> and other config files are located. The default path is set to: <code>../WEBINF/config</code> # <code>inetDomainBaseDN</code> of the users This file needs to be edited appropriately to provide the necessary paths and arguments. |
| <code>xlate-pabperson.xml</code> (Table 7-3) | Migration utility internally uses the address Book API's of Communications Express to load the data from the PAB of the Messenger Express. |
| <code>xlate-pabgroup.xml</code> (Table 7-4) | The <code>xlate</code> files are required to map LDAP attributes of the PAB to the address Book attributes of the Addressbook Server. |

Based on the user's mail host, the PAB configuration entries listed in Table 7-2 are retrieved and the connection to the PAB Server established.

Table 7-2 Parameters Configurable for PAB Migration in `migrate.properties`

| Parameter | Default Value | Description |
|--------------------------------------|---------------|---|
| <code>hostname.pabldappoolmin</code> | 4 | Specifies the minimum number of LDAP user connections to be created for PAB LDAP. |
| <code>hostname.pabldappoolmax</code> | 20 | Specifies the maximum number of LDAP user connections to be created for PAB LDAP. |

Table 7-2 Parameters Configurable for PAB Migration in `migrate.properties` (Continued)

| Parameter | Default Value | Description |
|---|---|--|
| <code>hostname.pabldappooltimeout</code> | 50 | Specifies the number of seconds before timing out an LDAP connection. |
| <code>hostname.alwaysusedefaulthost</code> | 1 | Specifies whether to use the user's PAB host mentioned in the PAB URI or to use the first fully qualified PAB hostname from the list maintained. When set to 1, the first fully qualified PAB host is used to retrieve the PAB entries. |
| <code>delete_pabentry</code> | 0 | Enables the delete of PAB entries and PABURI after a successful migration. |
| <code>maxthreads</code> | 10 | Specifies the number of migration threads. |
| <code>mailhost.pabhosts</code> | The mail host name is assigned to the list of PAB hosts in which the PAB entries are located. | Specifies the list of PAB hosts. |
| <code>mailhost.pabports</code> | | Specifies the port number of the PAB hosts. |
| <code>mailhost.pabbinddns</code> | | Specifies the bind DN for PAB. |
| <code>mailhost.pabpasswd</code> | | Specifies the password of the user binding to the PAB. |
| <code><pabhost.pabport>.abhostport=<abldaphost>:<abldapport></code> | | Specifies the pabhost and pabport entries available in the lookup table in the <code>migrate.properties</code> file. In this parameter <code><pabhost.pabport></code> refers to the source directory instance and <code><abldaphost></code> and <code><abldapport></code> the target directory instance to which the PAB data is required to be migrated. |

Table 7-3 Field Mapping for Contacts

| PAB | Address Book |
|--------------------------|----------------------------------|
| cn | DisplayName |
| sn | sn |
| givenName | givenName |
| telephonenumber | piPhone1Type:work piPhone1: |
| homephone | piPhone2Type:home piPhone2; |
| pager | piPhone4Type:pager piPhone4: |
| mobile | piPhone3Type:mobile piPhone3: |
| facsimiletelephonenumber | piPhone5Type:fax piPhone5: |
| mail | piEmail2Type:home piEmail1: |
| mailalternateaddress | piEmail2Type:work piEmail2: |
| postoffice+street | homePostalAddress |
| l | homecity |
| st | homeState |
| postalcode | homePostalCode |
| co | homeCountry |
| labeleduri | piWebsite1 |
| description | description |
| memberofpab | memberOfPIBook |
| memberofpabgroup | memberOfOIGroup |

Table 7-4 Field Mapping for Groups

| PAB | Address Book |
|-------------|---------------------|
| cn | displayName |
| description | description |

To receive a mail, you are required to define the parameters mentioned in Table 7-5.

Table 7-5 PAB Migration Email Parameters

| Parameters | Default Value | Description |
|-------------------|---|---|
| emailReqd | True | Enables mail to be sent after the PAB data has been migrated successfully. Accepted values are "True" and "False". |
| smtphost | local mail host For example: budgie.siroe.com | Specifies the SMTP relay host name. |
| smtpport | 25 | Specifies the SMTP relay port. |
| mailsubject | PAB Migration Status | Specifies the subject of the mail. |
| from | admin@hostname | Specifies the sender's name. |

TIP It is recommended that the administrator sends an email to all users informing them that PAB data migration will be triggered during the first login and as a consequence they will not see the Address Book data during the initial sessions. Users should contact the administrator if they are unable to see their data after 2 or 3 days.

Additional Configuration Required for Horizontal Scalability Support

The attribute `psRoot` in the User's LDAP entry is an Addressbook Server compliant URL that defines the LDAP location from which the user's Personal Address book entries are stored and retrieved. The `psRoot` attribute enables the administrator provision users so that PAB data for all users is spread across multiple directory locations.

For existing webmail users, if PAB Migration is enabled, the `psRoot` attribute is constructed using the existing `pabURI` attribute and a mapping table is defined in `uwc-deploy-dir/WEB-INF/config/migrate.properties`.

The lookup table in the `migrate.properties` file consists of the `pabhost` and `pabport` entries in the following format:

```
pabhost.pabport.abhostport = abldaphost:abldapport
```

where *pabhost.pabport* refers to the source directory instance and *abldaphost* and *abldapport* the target directory instance to which the PAB data is required to be migrated.

Thus, if you want to migrate the pab data from the directory running at `pab.example.com:389` to address book directory running at `abs.example.com:389` the entry in `migrate.properties` file should appear as:

```
pab.example.com.389.abhostport = abs.example.com:389
```

You may have as many lookups as found necessary in the `migrate.properties` file. If the `pabURI` attribute for a user uses *pabhost* and *pabport*, the `psRoot` constructed using the default `psRoot` pattern will be in the format:

```
ldap://abldaphost:abldapport/piPStoreOwner=%U,o=%D,o=PiServerDb
```

If the lookup is not defined for a `pabURI` value, that is, no entry is provided in the mapping table that matches the `pabURI`, the *pabhost* and *pabport* values are used as the default values for *abldaphost* and *abport*. Implied that in the absence of a mapping table, the PAB entries from Messaging Server is migrated to another root in the same directory instance as per the Address Book Schema. In this scenario, the [Target] Directory Instance will be the same as the [Source] Directory Instance.

NOTE The lookup table is not defined by the patch installer. You need to define the lookup table after a patch install, and restart the web server.

Ensure that *abldaphost:abldapport* directory Server instance is defined in the `db_config.properties` file pointed to by the `personalstore.properties` of that domain.

Migration Deployment Scenarios

Migration can be performed from:

1. A single Messenger Express instance pointing to the default single PAB host.
2. A single Messenger Express instance pointing to multiple PAB hosts.
3. A single Messenger Express instance pointing to multiple PAB hosts with the default PAB host set.
4. Multiple Messenger Express instances pointing to single PAB host.
5. Multiple Messenger Express instances pointing to multiple PAB hosts.

Tuning and Performance Information

This chapter describes the information you need to consider for improving the performance of Sun Java System Communications Express.

To improve performance consider the following tuning options:

- [Tuning Directory Server](#)
- [Tuning Calendar Server](#)
- [Tuning Web Server](#)
- [Tuning Communications Express](#)

Tuning Directory Server

This section describes the tuning you can perform on Directory Server to enhance performance.

- [Indexing the LDAP Directory Server](#)
- [Setting the nsSizeLimit and nsLookthroughLimit Parameters](#)

Indexing the LDAP Directory Server

To improve the performance of Communications Express when Calendar Server accesses the LDAP directory server, index the following LDAP attributes:

- **icsCalendar.** The attribute is used to search default calendars for a calendar user or resource. Specify the index type as presence (pres), equality (eq), or substring (sub).

- **icsCalendarOwned.** The attribute is used to search for a subscribe operation when the LDAP CLD plug-in is enabled. Specify the index type as presence (pres), equality (eq), and substring (sub).
- **mail** and **mailAlternateAddress.** These two attributes specifies a user's primary and alternate email addresses.

NOTE The `comm_dssetup.pl` script adds indexes for `icsCalendar`, `icsCalendarOwned`, `mail`, and `mailAlternateAddress` attributes.

Setting the `nsSizeLimit` and `nsLookthroughLimit` Parameters

It is important that the `nsSizeLimit` and `nsLookthroughLimit` parameters in User/Group LDAP directory server configuration is large enough for searches to be completed properly.

To determine if these parameters are set to appropriate values, type the following command:

```
ldapsearch -b /base/  
(&(icscalendarowned=*/user/*)(objectclass=icsCalendarUser))
```

where

`/base/` is the LDAP base DN of the directory server where the user and resource data for Calendar Server is located.

`/user/` is the value that an end user can enter in Calendar Search dialog under the Subscribe option in Communications Express.

The LDAP server returns an error, if the `nsSizeLimit` or the `nsLookthroughLimit` parameter is not large enough.

Follow these guidelines to reset `nsSizeLimit` or the `nsLookthroughLimit` parameters:

- Ensure that the value for `nsSizeLimit` parameter is large enough to return all the desired results; otherwise, data can get truncated, and no results will be displayed.

- Ensure that the value for `nsLookthroughLimit` parameter is large enough to complete a search of all the users and resources in the LDAP directory. If possible set `nsLookthroughLimit` to `-1`. By doing this, no search limit is set for `nsLookthroughLimit`.

Tuning Calendar Server

This section describes how load balancing across multiple CPU on Calendar Server can enhance performance.

Using Load Balancing Across Multiple CPU

If a server has multiple CPUs, by default Calendar Server distributes the HTTP Service such as `cshttpd` processes and Distributed Database Service such as `csdwpd` processes across CPUs.

The `service.http.numprocesses` and `service.dwp.numprocesses` parameters in `ics.conf` determine the actual number of processes that run for each service. By default, these parameters are set to the number of CPUs for the server during installation, but you can reset these values. For example, if a server has 8 CPUs, but you want a `cshttpd` and `csdwpd` process to run in only 4 CPUs, set the parameters as:

```
service.http.numprocesses="4"
```

```
service.dwp.numprocesses="4"
```

► To disable load balancing

1. Add the `service.loadbalancing` parameter to the `ics.conf` file
2. Set `service.loadbalancing` to "no."
3. Restart Calendar Server for the change to take effect.

For information on load balancing refer to the chapter on Calendar Server Performance Tuning in *Sun ONE Calendar Server 6.0 Administration Guide* at:

<http://docs.sun.com/source/816-6708-10/>

Tuning Web Server

This section describes the tuning you can perform on Web Server to enhance performance.

- [Setting the value of acceptorthreads](#)
- [Setting JVM Options](#)

Setting the value of acceptorthreads

In `server.xml`, change the value of the attribute `acceptorthreads` present in `<vs>` (virtual server) element to the number of CPUs on the machine hosting Web Server.

For example:

```
<VS id="https-siroe.com" connections="1s1" mime="mime1"
aclids="acl1" urlhosts="<webserver host
name"acceptorthreads="<noofcpus>" >
```

Setting JVM Options

Add or set the following JVM options in the `server.xml` file of Web Server.

The following two parameters determine the heap size of JVM

- *JVMOPTIONS-Xms(approx value according to the memory available)/JVMOPTIONS*
- *JVMOPTIONS-Xmx(approx value according to the memory available)/JVMOPTIONS*

The first option indicates Maximum heap size and the second option indicates Minimum heap size

It is recommended to have the same values for both the options.

Add the following JVM option

JVMOPTIONS -server /JVMOPTIONS

Set the following parameters for garbage Collection

- *JVMOPTIONS-XX:+UseParNewGC/JVMOPTIONS*
- *JVMOPTIONS-XX:ParallelGCThreads=number-of-CPU/JVMOPTIONS*
- *JVMOPTIONS-XX:+UseConcMarkSweepGC/JVMOPTIONS*

Tuning Communications Express

► To enable compression of the server response

1. In the `uwconfig.properties` file, enable compression of the sever response by setting the `uwc.gzip.compression` parameter value to “true.”

For example, `uwc.gzipcompression = true`

2. Then, restart the Web Server.

CAUTION Maintain a backup of your configuration files before making any changes.

► To customize the session time-out for Communications Express

1. Edit the `web.xml` file found in `deployed-dir/WEB-INF` directory.

This `xml` file contains the `xml` tag `session-config`, which has the attribute `session-timeout`.

This attribute defines the session time-out in seconds.

2. Change the value of the `session-timeout` attribute to the desired value.

For example, the following defines `session-time-out` for 10 minutes:

```
<session-config>
  <session-timeout>600</session-timeout>
</session-config>
```


Enabling or Disabling Identity Server Post Deployment

While configuring Communications Express, you are given the option of selecting Identity support in the Enable Identity Server for Single Sign-on panel.

- If you have not selected Identity Support for Communications Express in the Enable Identity Server for Single Sign-on panel, you need to perform the following steps to later enable Identity support:
 - a. Install and configure the Identity Server Remote SDK.
 - b. Update the Communications Express Web Container Class path with the location of the Identity Server's remote SDK jar files.

For example, add the following to the `classpathsuffix` in the `server.xml` file for web container .

```
/opt/SUNWam/lib/am_sdk.jar
```

```
/opt/SUNWam/lib/am_services.jar
```

```
/opt/SUNWam/lib/am_logging.jar
```

In this example it is assumed that IS Remote SDK is installed in `/opt/SUNWam`.

- c. Refer to in Chapter 4 for parameters that enable Identity Server SSO.

- d. Take a backup of the existing `web.xml` from
uwc-deploydir/SUNWuwc/WEB-INF/web.xml

Copy the `web_IS.xml` file from

uwc-basedir/SUNWuwc/lib/config-templates/WEB-INF to
uwc-deploydir/SUNWuwc/WEB-INF/

CAUTION Remember to merge any additional configuration data you have included in the backed up `web.xml` file to `web_IS.xml`

- e. Rename `web_IS.xml` to `web.xml`
- If you have selected Identity Support for Communications Express in Enable Identity Server for Single Sign-on panel, you need to perform the following steps to disable identity support:
 - a. Set `uwcauth.identity.enabled` to “false” in `uwcauth.properties` file to disable Identity SSO.
 - b. Take a backup of the existing `web.xml` from
uwc-deploydir/SUNWuwc/WEB-INF/web.xml
 - c. Copy the `web.xml` file from
uwc-basedir/SUNWuwc/lib/config-templates/WEB-INF to
uwc-deploydir/SUNWuwc/WEB-INF/

CAUTION Remember to merge any additional configuration data you have included in the backed up `web.xml` file to `web.xml`

Configuration Panel Sequence

You can configure the web container for Communications Express using one of the following options:

- Web Server with Sun Java System LDAP Schema, v.1
or
Web Server with Sun Java System LDAP Schema, v.2 (with Identity Server)
- Application Server with Sun Java System LDAP Schema, v.1
or
Application Server with Sun Java System LDAP Schema, v.2 (with Identity Server)

The sequence in which the configurator panel is displayed for each schema and web container combination varies depending on your schema and web container selection. Table B-1 lists the panels that are displayed for different schema and web container combination.

Table B-1 Panel Sequence Depending on the Schema and Web Container Selection

| Web Server+Schema 1 | Web Server+Schema 2 | App Server + Schema 1 | App Server + Schema 2 |
|--|--|--|--|
| Welcome | Welcome | Welcome | Welcome |
| Select the Directory to Store Configuration and Data Files | Select the Directory to Store Configuration and Data Files | Select the Directory to Store Configuration and Data Files | Select the Directory to Store Configuration and Data Files |
| Select Components to be Configured | Select Components to be Configured | Select Components to be Configured | Select Components to be Configured |
| Network Connection | Network Connection | Network Connection | Network Connection |
| Select a Web Container | Select a Web Container | Select a Web Container | Select a Web Container |

Table B-1 Panel Sequence Depending on the Schema and Web Container Selection

| | | | |
|---|---|--|--|
| Web Server Configuration Details | Web Server Configuration Details | Application Server Configuration Details | Application Server Configuration Details |
| Web container User and Group | Web container User and Group | Application Server Administration Instance Details | Application Server Administration Instance Details |
| URI Path Setting | URI Path Setting | Module Name for this Web Application | Module Name for this Web Application |
| Do you want Hosted Domain Support? | Do you want Hosted Domain Support? | Web container User and Group | Web container User and Group |
| User/Group Directory (LDAP) Server Details | User/Group Directory (LDAP) Server Details | URI Path Setting | URI Path Setting |
| DC Tree Suffix | Default Domain Name | Do you want Hosted Domain Support? | Do you want Hosted Domain Support? |
| Default Domain Name | Enable Identity Server for Single Sign-On | User/Group Directory (LDAP) Server Details | User/Group Directory (LDAP) Server Details |
| Enable Identity Server for Single Sign-On | Messaging Express Port | DC Tree Suffix | Default Domain Name |
| Messaging Express Port | Calendar Server Host and Port Configuration | Default Domain Name | Enable Identity Server for Single Sign-On |
| Calendar Server Host and Port Configuration | Calendar Server Administration Details | Enable Identity Server for Single Sign-On | Messaging Express Port |
| Calendar Server Administration Details | PAB Directory Server Details | Messaging Express Port | Calendar Server Host and Port Configuration |
| PAB Directory Server Details | Ready to Configure | Calendar Server Host and Port Configuration | Calendar Server Administration Details |
| Ready to Configure | | Calendar Server Administration Details | PAB Directory Server Details |
| | | PAB Directory Server Details | Ready to Configure |
| | | Ready to Configure | |

Installing Communications Express without Messaging Server and using a Single Tree Structure

An existing Directory Information Tree should be mapped to the dual tree namespace to retrieve user/group entries, when you are installing Communications Express on a machine on which:

- Messaging Server is not installed or configured
- Single tree namespace structure is used for retrieving user/group entries

The sections below describes how Communications Express uses the two DIT tree mechanism and how an existing single tree namespace structure maps to the dual tree name space.

Two Tree Names Space Mechanism

The namespace of Directory should consist of two directory information trees (DIT), an Organization Tree and a Domain Component Tree (DC Tree). Organization Trees contain the user and group entries. The DC Tree mirrors the local DNS structure and is used by the system as an index to the Organization Tree(s) containing the data entries. The DC Tree also contains the domain's operating parameters such as the service specific attributes.

How the Two-tree Namespace Mechanism Works

This section describes how Communications Express uses the two-DIT mechanism.

When Communications Express searches for user/group entries, it first looks at the user/group's domain node in the DC Tree and extracts the value of the `inetDomainBaseDN` attribute. This attribute holds a DN reference to the organization subtree containing the actual user/group entry.

Using this model, Communications Express can support entries stored in any type of directory Tree, provided that a domain component node in the DC Tree points to the node in the Organization Tree under which the users for that domain can be found.

Why Two Directory Information Trees?

This dual-tree mechanism provides the following enhancements:

- The partitioning of data for organization-specific access control. That is, each organization can have a separate subtree in the DIT where user and group entries are located. Access to that data can be limited to users in that part of the subtree.
- The ability to have a distinct namespace for subdomains. For example, `west.siroe.com` and `siroe.com` may be mapped to separate organization subtrees allowing the creation of user entries with the same UID in each one of them.

How to Map an Existing DIT to the Dual Tree Namespace?

Assuming that the root suffix for Organization tree is: `o=isp`

Assuming that the Organization DN that is currently being used is

`o=siroe.com,o=isp` and the user container is `ou=People,o=siroe.com,o=isp`

1. Create a root suffix, `o=internet` for DC tree.

The root suffix can be created using the Directory Server console.

2. Under this DC tree root suffix, create a domain entry with DN as

`dc=siroe,dc=com,o=internet.`

Use the following LDIFs to create the domain entry using the `ldapmodify` command:

NOTE Please change the Organization root, Organization Name, Organization DN, Object Classes and Attribute values mentioned in the LDIF files to reflect your deployment details.

root suffix

Organization root suffix: `o=isp`

Organization name: `siroe`

DNS domain name: `siroe.com`

Organization DN: `o=siroe.com,o=isp`

The following Object Classes and attributes are used by mail service:

ObjectClasses:

`mailDomain, nsManagedDomain`

Attributes:

`mailDomainStatus, preferredMailHost, mailDomainDiskQuota, mailDomainMsgQuota`

`mailDomainReportAddress, nsMaxDomains, nsNumUsers, nsNumDomains, nsNumMailLists`

NOTE Remove mail service ObjectClasses and Attributes from the LDIFs if you do not wish to use them.

Ensure that the value of `inetDomainBaseDN` attribute in the LDIF is assigned the organization DN.

Examples of LDIF Files

Table C-1 LDIF File 1

```
dn: dc=com,o=internet
dc: com
objectclass: top
objectclass: domain
```


Table C-2 LDIF File 2

```
dn: dc=com,o=internet
dc: com
objectclass: top
objectclass: domain
dn: dc=siroe,dc=com,o=internet
objectClass: top
objectClass: domain
objectClass: inetDomain
objectClass: mailDomain
objectClass: nsManagedDomain
dc: siroe
aci:
(targetattr="icsTimeZone||icsMandatorySubscribed||icsMandatoryView||icsDefaultAccess||icsRecurrenceBound||icsRecurrenceDate||icsAnonymousLogin||icsAnonymousAllowWrite||icsAnonymousCalendar||icsAnonymousSet||icsAnonymousDefaultSet||icsSessionTimeout||icsAllowRights||icsExtended||icsExtendedDomainPrefs")(targetfilter=(objectClass=icsCalendarDomain))(version 3.0; acl "Domain Administrator access - product=ims5.0,class=nda,num=16,version=1"; allow (all) groupdn="ldap:///cn=Domain Administrators,ou=Groups,o=siroe.com,o=isp";
description: DC node for siroe.com hosted domain
inetDomainBaseDN: o=siroe.com,o=isp
inetDomainStatus: active
mailDomainStatus: active
preferredMailHost: mailhost.siroe.com
mailDomainDiskQuota: -1
mailDomainMsgQuota: -1
mailDomainReportAddress: postmaster@siroe.com
nsMaxDomains: 1
nsNumUsers: 1
```

LDIF File 2Continued

```
nsNumDomains: 1
nsNumMailLists: 0
```

- 3.** Use `ldapmodify` command to add the LDIF file entries to the DC tree.

Configuration Parameters Reference

The configuration parameters, default values, and their description are documented in this appendix.

- [Application-Wide Parameters in uwconfig.properties and uwcauth.properties File](#)
- [db_config.properties file](#)
- [uwconfig.properties](#)
- [uwcauth.properties file](#)
- [uwclogging.properties file](#)
- [uwcdomainconfig.properties](#)
- [personalstore.properties file](#)

Application-Wide Parameters in uwconfig.properties and uwcauth.properties File

Table D-1 Parameters in uwconfig.properties

| Parameters | Default Value | Description |
|----------------------|---------------|---|
| uwc.gzipcompression | true | <p>Enables GZIP compression on the Communications Express HTTP response.</p> <p>Set this value to true to enable GZIP compression of the HTTP response. This improves the throughput of the Communications Express page access.</p> |
| uwc.renderhtml | n | <p>Specifies whether calendar is required to render data in HTML format.</p> <p>Set this value to 'y' to render the calendar data in HTML format.</p> |
| manual_purge_enabled | true | <p>Enables a user with jsessionid to invoke the Addressbook Server command, <code>purge_entries.wabp</code>, and permanently delete all entries marked for deletion.</p> |
| auto_purge_enabled | false | <p>Automatically purges contacts that are marked for deletion when <code>login.wabp</code> is invoked.</p> <p>Set this value to true to enable automatic purge of contacts when <code>login.wabp</code> is invoked.</p> |
| expire_period | 0 | <p>Specifies the purge period in days, after which entries marked for deletion are permanently deleted.</p> <p>This parameter is valid only when <code>auto_purge_enabled</code> is set to true.</p> |
| purge_interval | 30 | <p>Specifies the purge interval in days.</p> <p>The purge cycle is triggered at the interval specified here only when <code>auto_purge_enabled</code> is set to true.</p> |

Table D-1 Parameters in uwconfig.properties (*Continued*)

| Parameters | Default Value | Description |
|--------------------------|---------------|--|
| addressbook.wabp.version | 1.0 | Specifies the address book protocol version. |

Table D-2 Parameters in uwcauth.properties

| Parameters | Default Value | Description |
|--------------------|---------------|--|
| defaultdomain | | Specifies the default domain to be used when the domain does not have the required properties, the properties are picked up from the default domain name. The attribute defaultdomain is assigned the value entered during configuration. |
| defaultlocale | en | Specifies the default locale to be used by the application. |
| virtualdomain.mode | | Specifies whether Communications Express is operating in virtual domain mode. Enable this option if you have enabled hosted domain support for Calendar Server. The virtualdomain.mode is assigned the value entered during configuration. |

db_config.properties file

Table D-3, list the parameters of db_config.properties file.

Table D-3 Corporate Directory Parameters

| Parameters | Default Value | Description |
|---------------------------|---------------|--|
| defaultserver.ldappoolmin | | Specifies the minimum number of LDAP client connections. |

Table D-3 Corporate Directory Parameters (*Continued*)

| | | |
|--------------------------------|----------------------|--|
| defaultserver.ldappoolmax | | Specifies the maximum number of LDAP client connections. |
| defaultserver.ldappooltime out | | Specifies the number of seconds before timing out an LDAP connection. Increase this value to accommodate large search results. |
| defaultserver.ldaphost | | Specifies the LDAP host. |
| defaultserver.ldapport | | Specifies the LDAP port. |
| defaultserver.ldapbinddn | cn=Directory Manager | Specifies the DN used to bind to the LDAP. If the login type is “restricted” or “proxy” it is mandatory to assign a value to defaultserver.ldapbinddn. If the login type is “anonymous” you need not enter a value for this parameter. |
| defaultserver.ldapbindcred | | Specifies the bind password. |

Table D-3 Corporate Directory Parameters (*Continued*)

| | |
|---------------------|---|
| login_type | <p>Specifies the method using which the connection to the LDAP store is maintained.</p> <p>You can assign the following three values to this parameter:</p> <p>anon - to connect to the LDAP as an anonymous user</p> <p>restricted - to connect as a user who has the rights to perform operations on the Address Book Store.</p> <p>proxy - to masquerade as a user who can perform operations on the Address Book Store. Assigning this value enhances performance by passing the LDAP bind on each operation.</p> <p>NOTE: A Read only access is given to a masquerading user.</p> |
| entry_id | <p>Specifies the key in LDAP used to identify a contact/group entry.</p> <p>You can set the <code>entry_id</code> to the UID or to the key used to fetch the contact/group information such as <code>empid</code> or <code>principal ID</code>.</p> <p>In the <code>xlate-inetorgperson.xml</code> file replace "uid" in <code><entry entryID= "db:uid"></code> with the <code>entry_id</code> value specified here.</p> |
| retrieve_db_attribs | <p>Defines whether all the database attributes should be passed in the LDAP search.</p> |

Table D-3 Corporate Directory Parameters (*Continued*)

| | | |
|----------------|------|--|
| lookthru_limit | 1000 | Specifies the search query limit for a search. |
| delete_perm | | Enables contact/group entries to be marked for deletion or to be deleted permanently. Set the parameter to false to mark the contacts/groups for deletion. Set the parameter to true to permanently delete the contacts and groups. |
| admin_group_dn | | Specifies the Dn of the admin group. A user belonging to this group can purge all contacts that are marked for deletion. |
| entry_id | uid | Specifies the key in the LDAP used to identify a contact/group entry. You can set the <code>entry_id</code> to the UID or to the key used to fetch the contact/group information such as <code>empid</code> or <code>principal ID</code> . In the <code>xlate-inetorgperson.xml</code> file, replace "uid" in <code><entry entryID="db:uid"></code> with the <code>entry_id</code> value specified here. |

Table D-3 Corporate Directory Parameters (Continued)

| | | |
|------------|------------|--|
| login_type | restricted | <p>Specifies the method using which the connection to the LDAP store is maintained.</p> <p>You can assign the following three values to this parameter:</p> <p>anon - to connect to the LDAP as an anonymous user</p> <p>restricted - to connect as a user who has the rights to perform operations on the Address Book Store.</p> <p>proxy - to masquerade as a user who can perform operations on the Address Book Store. Assigning this value enhances performance as it by passes the LDAP bind on each operation.</p> <p>NOTE: A Read only access is given to a masquerading user.</p> |
|------------|------------|--|

uwccconfig.properties

Table D-4, list the parameters of uwccconfig.properties file.

Table D-4 Parameters of uwccconfig.properties

| Parameters | Default Value | Description |
|---------------|---------------|---|
| mail.deployed | | <p>Specifies whether Messenger Express is deployed. The parameter is set when you run the configuration wizard.</p> <p>The attribute is set to "true" if Messenger Express is deployed.</p> |

Table D-4 Parameters of uwconfig.properties (*Continued*)

| Parameters | Default Value | Description |
|----------------------------------|--|---|
| webmail.host | | <p>Specifies the host name of the machine on which Messenger Express is deployed.</p> <p>The host name of Messenger Express should correspond to the machine name on which Web Server is deployed.</p> |
| webmail.port | 80 | Specifies the port number Messenger Express HTTP Server listens to. |
| calendar.deployed | | <p>Specifies whether the calendar module is deployed. The parameter is set when you run the configuration wizard.</p> <p>The attribute is set to "true" if Calendar is deployed.</p> |
| calendar.wcap.host | | Specifies the host name of the WCAP server. |
| calendar.wcap.port | | Specifies the port number WCAP listens to. |
| calendar.wcap.adminid | calmaster | Specifies the Admin ID for the WCAP Sever. |
| calendar.wcap.passwd | | Specifies the Admin Password for the WCAP Server. |
| calendar.jcapi.serviceclass.socs | com.sun.comclient.calendarr.socs.SOCSCalendarStore | <p>Specifies the name of Class implementing Java API for Calendar JCAPI, for Sun Java Systems Calendar Server.</p> <p>Note: Do not change this value.</p> |
| uwc.gzipcompression | | <p>Enables GZIP compression on the Communications Express HTTP response.</p> <p>Set this value to true to enable GZIP compression of the HTTP response. This improves the throughput of the Communications Express page access.</p> |

Table D-4 Parameters of uwconfig.properties (*Continued*)

| Parameters | Default Value | Description |
|--|---|--|
| uwc.renderhtml | | Specifies whether calendar data needs to be rendered in HTML. The parameter is set to 'y' if calendar data is to be rendered in HTML. Valid values are 'y' or 'n'. |
| log.file | /tmp/trace.log | Specifies the location of the log file. |
| This parameter is used by Address book module. | | By default messages go to the web container error log file. |
| log.level | 0 | Specifies the log level for the application. To disable logging for this module, set the value to 0. |
| This parameter is used by Address book module. | | The valid values are: level = 0 (off), 1 (debug only), 2 (error only), 3 (all). |
| log.components | 127 | Specifies the component level for logging. |
| This parameter is used by Address book module. | | |
| maxpostcontentlength | 1000000 | Specifies the maximum content-length of a POST command with a content-type of multipart/form-data (for file upload) in octets. -1 refers to no limit. |
| uwcloginpath | /base/UWCMain | Specifies the path to the Communications Express login page. |
| sessionobjfactory.pstore.class | com.iplanet.iabs.coresrv.CorePersonalStoreFactory | Defines the class implementing the SessionObjectFactory |
| sessionobjfactory.pstore.configpath | | Specifies the plug-in configuration path. The path is either relative to the path of the current file or absolute to the path of the current file. |
| sessionobjfactory.pstore.sessionid | com.iplanet.iabs.pstore | Specifies the name under which the object should be stored in the user's session. |
| addressbook.wabp.version | | Specifies the address book protocol version. |

Table D-4 Parameters of uwconfig.properties (Continued)

| Parameters | Default Value | Description |
|----------------------|---------------|--|
| manual_purge_enabled | | Enables a user with jsessionid to invoke the Addressbook Server command, <code>purge_entries.wabp</code> and permanently delete all entries marked for deletion. |
| auto_purge_enabled | | Automatically purges contacts that are marked for deletion when <code>login.wabp</code> is invoked. Set this value to true to enable automatic purge of contacts when <code>login.wabp</code> is invoked. |
| expire_period | | Specifies the purge period in days, after which entries marked for deletion are permanently deleted. This parameter is valid only when <code>auto_purge_enabled</code> is set to true. |
| purge_interval | | Specifies the purge interval in days. The purge cycle is triggered at the interval specified here only when <code>auto_purge_enabled</code> is set to true. |
| uwc.homepageurl | | Specifies the Home Page Url. When the users click the home link, they are taken to this URL. In the absence of this parameter, home link will take the user to the user's default application. |

uwcauth.properties file

Table D-5, list the parameters of the uwcauth.properties file.

Table D-5 Parameters of uwcauth.properties

| Parameters | Default Value | Description |
|-----------------------|--|--|
| defaultdomain | | <p>Specifies the default domain to be used when the domain does not have the required properties. The properties are picked up from the default domain name.</p> <p>The default domain is assigned the value entered during configuration.</p> |
| defaultlocale | | Defines the default locale of the application. |
| virtualdomain.mode | | Defines the mode in which calendar server is operating. If the calendar server is operating in hosted (also known as virtual) domain mode, set the parameter value to 'y' otherwise to 'n'. |
| uwcauth.ssl.enabled | | Defines if SSL is enabled. |
| uwcauth.ssl.athonly | | Defines if SSL is enabled for authentication only. |
| ldapauth.ldaphost | | <p>Specifies the LDAP host value.</p> <p>Normally the <code>ldapauth.ldaphost</code> value is the same as the <code>ldapuser.session</code> value. You can set it to a different value, if required.</p> |
| ldapauth.ldapport | | Specifies the ldap port number. |
| ldapauth.dcreot | | Specifies the DC root for the authentication tree. |
| ldapauth.domainattr | <code>inetDomainBaseDN,inetDomainStatus,inetDomainSearchFilter,domainUidSeparator,preferredLanguage</code> | Specifies the list of attributes to be retrieved from the domain entry in which the user is authenticated. |
| ldapauth.domainfilter | <code>((objectclass=inetDomain)(objectclass=inetDomainAliases))</code> | Specifies the filter based on which the domain entry is retrieved. |
| ldapauth.ldapbinddn | <code><binddn></code> | Specifies User DN of the user binding to the authentication LDAP. |
| ldapauth.ldapbindcred | <code><binddncredentials></code> | Specifies password of the user binding to the authentication LDAP. |

Table D-5 Parameters of uwcauth.properties (Continued)

| Parameters | Default Value | Description |
|---------------------------------|---|--|
| ldapauth.enablessl | false | Specifies whether the directory against which authentication is to be performed is in SSL mode. Change the default value to "true" to setup a secure LDAP connection. |
| ldapusersession.defaultugfilter | | Specifies the default filter syntax to be used when retrieving the user entry. |
| Parameters for the user lookup | | |
| ldapusersession.ugattr | uid,inetUserStatus,preferredLanguage,psRoot,pabURI,cn,mail,mailHost | Specifies the set of attributes to be returned from LDAP during entry lookup. |
| ldapusersession.ldaphost | | Specifies the Host name of the directory server used for users lookup. More than one host can be specified for fallback. The names of the servers are delimited by semi-colon (;). !The name of fallback servers should be in the format: Host Name: Port# |
| ldapusersession.ldapport | | Specifies the port number of the user/group directory server. |
| ldapusersession.ldapbinddn | | Specifies the UserDN of the admin binding to the user group Directory Server. |
| ldapusersession.ldapbindcred | | Specifies the password of the admin binding to the user tree. |
| ldapusersession.dcroot | | Specifies the Domain Component (DC) tree in the user/group LDAP that is used to resolve a user entry in Sun Java System LDAP Schema v.1. |
| ldapusersession.domainfilter | ((objectclass=inetDomain)(objectclass=inetDomainAlias)) | Defines the filter used to identify a domain entry. |
| ldapusersession.ldappoolmin | | Specifies the minimum number of LDAP client connections maintained. |
| ldapusersession.ldappoolmax | | Specifies the maximum number of LDAP client connections maintained. |

Table D-5 Parameters of uwcauth.properties (*Continued*)

| Parameters | Default Value | Description |
|---------------------------------------|---------------|--|
| ldapusersession.ldappooltimeout | | Specifies the number of seconds before timing out an LDAP connection. Increase this value to accommodate large search results. |
| ldapusersession.enablessl | | Specifies whether the directory against which authentication is to be performed is in SSL mode. Change the default value to “true” to setup a secure LDAP connection. |
| Common Auth Configuration | | |
| uwcauth.sessioncookie | JSESSIONID | Specifies the name of the cookie used by the servlet container to monitor sessions. This value should not be changed. |
| uwcauth.appprefix | | Specifies the prefix for the host application used to find cookies generated by other trusted applications for single sign-on. If the deployment uses Messaging SSO, this attribute should be assigned the value of <code>local.webmail.sso.prefix</code> set during messaging configuration. |
| uwcauth.appid | uwc | Specifies the cookie name containing the unique application ID for the host application. |
| messagingssso.appid | ims | Communications Express uses this cookie to determine whether to issue the logout request to Messenger Express. The value of <code>messagingssso.appid</code> should be same as the value of <code>local.webmail.sso.id</code> set during messaging configuration. |
| uwcauth.cookieDomain | | Specifies the domain or path saved as part of the single sign-on cookie. |
| MessagingSSOAuth Filter Configuration | | |

Table D-5 Parameters of uwcauth.properties (Continued)

| Parameters | Default Value | Description |
|----------------------------------|-------------------------------------|---|
| uwcauth.messagingssos.able | | <p>Enables or disables messaging single sign-on functionality.</p> <p>Set this parameter to “true” to enable single sign-on and “false” to disable single sign-on.</p> <p>Make sure that uwcauth.messagingssos.able is set to “false” when setting up Communications Express for Identity Server Single Sign-On.</p> |
| uwcauth.messagingssos.cookiepath | / | <p>Specifies the URI for which the single sign-on cookie is saved.</p> |
| messagingssos.xxx.url | http://servername/VerifySSO? | <p>Specifies the URL used to verify the SSO cookie.</p> <p>The value of xxx should be replaced by the application ID of the server.</p> <p>For example, if you want to enable SSO with Messaging Server whose application ID is “msg60”, you need to add the following configuration parameter:</p> <pre>mesagingssos.msg60.url=http://servername/VerifySSO?</pre> <p>The value of xxx mentioned here should be identical to the value assigned in Messenger Express to local.webmail.sso.id.</p> |
| messagingssos.uwc.url | http://servername:85/uwc/VerifySSO? | <p>Specifies the verify url of Communications Express.</p> <p>If you have edited the value of uwcauth.appid for this server, replace uwc in messagingssos.uwc.url with the new uwcauth.appid.</p> <p>When Communications Express is not deployed under “/”, such as /uwc, the value of the parameter may look like:</p> <pre>http://servername:85/uwc/VerifySSO?</pre> |

Identity SSO

Table D-5 Parameters of uwcauth.properties (*Continued*)

| Parameters | Default Value | Description |
|-----------------------------|---|--|
| uwcauth.identity.enabled | | 'Specifies whether identity server is enabled. Set the attribute to "true" to enable Identity Server. Set the attribute to "false" to disable Identity Server. Initially the value is set in the configurator. |
| uwcauth.identity.login.url | http://nicp160.india.sun.com:99/amserver/UI/Login | Specifies the Login Page URL of the Identity Server |
| uwcauth.identity.binddn | | Specifies the complete DN of the amadmin. For example, uid=amAdmin, ou=People, o=siroe.example.com, o=example.com Note: The uwcauth.identity.binddn and uwcauth.identity.bindcred values should correspond to the values entered when installing Identity Server. For example, uwcauth.identity.binddn=uid=amAdmin, ou=People, o=siroe.example.com, o=example.com and uwcauth.identity.bindcred=password. |
| uwcauth.identity.bindcred | | Specifies the password of the amadmin. |
| uwcauth.identity.cookieName | iPlanetDirectoryPro | Specifies the Identity Server session cookie name. Ensure that in the uwcauth.properties file, the value of uwcauth.identity.cookieName is set to the value of local.webmail.sso.amcookieName. |
| uwcauth.http.port | 80 | Specifies the port number that Communications Express listens to when Communications Express is configured on a non SSL port. |

Table D-5 Parameters of uwcauth.properties (Continued)

| Parameters | Default Value | Description |
|---------------------------------|---------------|---|
| uwcauth.https.port | 443 | Specifies the https port number that Communications Express listens to when Communications Express is configured on Web Server. |
| uwcauth.identitysso.cookie path | / | Specifies the Identity SSO Cookie Path |
| identitysso.singlesignoff | | Enables or disables identity single sign-on functionality. If this attribute is set to true, all applications participating in this IS session are signed out when the users logs out. If this attribute is set to false, only Communication Express session is disabled and the user will be taken to the url configured in <code>identitysso.portalurl</code> . |
| identitysso.portalurl | | Specifies the verify url of Communications Express. If Identity Server is enabled and single sign-off is set to false, Communication Express displays the <code>identitysso.portalurl</code> . |
| pab_mig_required | true | Specifies whether the address book directories should to be migrated. Set the attribute to 'true' if pab migration is required otherwise set the parameter to 'false'. |

uwcllogging.properties file

Table D-6, lists the parameters of the uwcllogging.properties file.

Table D-6 Default Logging Configuration File

| Parameters | Default Value | Description |
|--------------------|---------------|--|
| uwc.logging.enable | no | Enables or disables logging. To enable logging, change the default value to yes. |

Table D-6 Default Logging Configuration File (*Continued*)

| Parameters | Default Value | Description |
|-------------------|-------------------------------|--|
| uwc.log.file | /var/opt/SUNWuwc/logs/uwc.log | Specifies the location of the log file. Change the location of the file if required. |
| uwc.log.level | INFO | Specifies the log level for the application. Change the log level for the application to the desired level. The log level values available are: WARNING, INFO, and FINE, SEVERE. |
| uwc.log.formatter | SimpleFormatter | Describes the configuration information for Handlers. By default, the formatter is the SimpleFormatter. You could also specify XMLFormatter |

uwcdomainconfig.properties

The `uwcdomainconfig.properties` file contains all the options that can be configured on a per-domain basis. The following options are the default user preferences for the domain.

If values for these preferences are not set, the preferences will be created with the values mentioned in Table D-7.

Table D-7 Parameters in `uwcdomainconfig.properties`

| Parameters | Default Value | Description |
|---------------------------------------|---------------|---|
| Global options | | |
| uwc-user-attr-locale | en | Specifies the default locale used for the domain. |
| uwc-user-attr-sunUCDefaultApplication | addressbook | Specifies the default page to be displayed after you login. The available options are: mail, calendar, and addressbook. |

Table D-7 Parameters in uwcdomainconfig.properties (Continued)

| Parameters | Default Value | Description |
|--|---------------------|--|
| uwc-user-attr-sunUCTheme | uwc | Specifies the default display theme. Note: Currently we support per domain theme, but do not support per user themes. Refer to <i>Sun Java System Communications Express Customization Guide</i> for more details. |
| uwc-user-attr-sunUCColorScheme | 2 | Specifies the default display color scheme. |
| uwc-user-attr-sunUCDefaultEmailHandler | uc | Specifies the default email client used to send email messages from the application. You can set the default email client to Messenger Express or to a browser mail client. |
| uwc-user-attr-sunUCDateFormat | M/D/Y | Specifies the order in which the date, month, and year should appear in a date. The available options are: M/D/Y, D/M/Y, Y/M/D |
| uwc-user-attr-sunUCDateDelimiter | / | Specifies the delimiter used in dates. Delimiter is the character that separates the date, month, and year in the date. You can specify the delimiter as a comma(,), forward slash (/), or hyphen(-). |
| uwc-user-attr-sunUCTimeFormat | 12 | Specifies the time display format. The available formats are 12 or 24 hour formats. |
| uwc-user-attr-sunUCTimeZone | America/Los_Angeles | Specifies the time zone in which your calendar is created. You can choose any valid time zone from the following areas: North and South America, Europe and Africa, Asia and Pacific Rim. |

Table D-7 Parameters in uwcdomainconfig.properties (Continued)

| Parameters | Default Value | Description |
|---|---------------|--|
| supportedLanguages | | Specifies the list of supported languages for a domain. Each language in the list is separated by a semi colon. You can define the list of languages Communications Express will support for a domain. For example, en;es;de;fr;ja;ko;zh-CN;zh-TW |
| User's Calendar Options | | |
| uwc-user-attr-icsExtended UserPrefs-ceDefaultView | dayview | Specifies the view your default calendar should display after you login. The available options are: dayview, weekview, monthview, and yearview. |
| uwc-user-attr-icsExtended UserPrefs-ceShowCompletedTasks | false | Specifies whether the completed tasks will appear in the Tasks pane of the calendar. Change the default value to "true" if you want the completed tasks to appear in the Tasks pane of the calendar. |
| uwc-user-attr-icsExtended UserPrefs-ceDefaultCategory | Business | Specifies the default category in which the new events or tasks should be created. The categories available are: Anniversary, Appointment, Birthday, Business, Breakfast, Class, Conference Call, Dinner, Holiday, Lunch, Meeting, Other, Personal, Seminar, Training, Travel, Vacation and Interview. |
| uwc-user-attr-icsExtended UserPrefs-ceDayHead | 9 | Specifies the day start time in hours. |
| uwc-user-attr-icsExtended UserPrefs-ceDayTail | 18 | Specifies the day end time in hours. |

Table D-7 Parameters in uwcdomainconfig.properties (Continued)

| Parameters | Default Value | Description |
|--|---------------|--|
| uwc-user-attr-icsExtended UserPrefs-ceInterval | PT1H0M | <p>Specifies the interval the day is split into.</p> <p>In the day and week view, the day is split into half an hour or one hour time period.</p> <p>You can change the default split value to PT0H30M(half hour)</p> |
| uwc-user-attr-icsFirstDay | 1 | <p>Specifies the day of the week to be considered as the first day of the week in the calendar. By default, Sunday(1) is considered to be first day of the week and Saturday(7) the last day of the week.</p> |
| uwc-user-attr-icsExtended UserPrefs-ceWeekEndDays | 1,7 | <p>Specifies the days of the week in the calendar views to be considered as weekend days.</p> <p>By default, Sunday(1) is the first day of the week and Saturday(7) the last day of the week.</p> <p>Comma separated list of numbers represents the days of the week to be considered as weekend days.</p> |
| uwc-user-attr-icsExtended UserPrefs-ceIncludeWeekendInViews | true | <p>Enables or disables the display of weekend days in the Week and Month views of your calendar.</p> <p>Set the default value to “true” if the weekend days should be displayed in the Week and Month views of the calendar.</p> |
| uwc-user-attr-icsExtended UserPrefs-ceSingleCalendarTZID | 0 | <p>Specifies whether the calendar should be displayed in the calendar’s time zone.</p> <p>Change the default value to “0” if you do not want to view calendars in the calendar’s time zone. When the value is set to zero, all calendars will be displayed in the time-zone specified in the Global Options tab.</p> |

Table D-7 Parameters in uwcdomainconfig.properties (Continued)

| Parameters | Default Value | Description |
|---|-----------------------------------|--|
| uwc-user-attr-icsExtendedUserPrefs-ceAllCalendarTZIDs | 0 | Defines the boolean value, which specifies that the time zone of all the displayed calendar should be used instead of users time zone. |
| uwc-user-attr-icsExtendedUserPrefs-ceDefaultAlarmStart | PT0H30M | Specifies the default number of hours and minutes, before an event or task, a reminder should be sent. |
| uwc-user-attr-icsExtendedUserPrefs-ceNotifyEnable | 1 | Specifies whether to send email messages containing ical attachments, to internal invitees when new events are created. |
| uwc-user-attr-icsExtendedUserPrefs-sunCalEventfilter | | Defines the default invitations to be viewed in the calendar. The options available are: accepted, tentative, declined, needs-action. |
| Address Book Default Option Values | | |
| uwc-user-attr-sunAbExtendedUserPrefs-abName | Personal Address Book | Specifies the name of the default address book. |
| uwc-user-attr-sunAbExtendedUserPrefs-abDescription | This is the personal address book | Specifies a short description for the default address book. |
| uwc-user-attr-sunAbExtendedUserPrefs-abEntriesPerPage | 25 | Specifies the maximum number of address book entries to be displayed on a page. The available options are: 25, 50, 75. |
| uwc-user-attr-sunAbExtendedUserPrefs-abSearchDisplayColumn1 | displayname | Specifies the value to be displayed in the first column. By default, the first column displays name of contacts or group. |

Table D-7 Parameters in uwcdomainconfig.properties (*Continued*)

| Parameters | Default Value | Description |
|---|---------------|---|
| uwc-user-attr-sunAbExtendedUserPrefs-abSearchDisplayColumn2 | primaryemail | <p>Specifies the value to be displayed in the second column of your address book.</p> <p>You can set the display column name to:</p> <p>displayname, company, title, primaryphone, workphone, homephone, faxphone, pagerphone, primaryemail, email2, email3, homeaddress, workaddress, webur11, webur12, calendarurl, freebusyurl, birthday, anniversary ,ou, edit, viewcalendar.</p> |
| uwc-user-attr-sunAbExtendedUserPrefs-abSearchDisplayColumn3 | primaryphone | <p>Specifies the value to be displayed in the third column of your address book.</p> <p>You can set the display column name to:</p> <p>displayname, company, title, primaryphone, workphone, homephone, faxphone, pagerphone, primaryemail, email2, email3, homeaddress, workaddress, webur11, webur12, calendarurl, freebusyurl, birthday, anniversary ,ou, edit, viewcalendar.</p> |
| uwc-user-attr-sunAbExtendedUserPrefs-abSearchDisplayColumn4 | edit | <p>Specifies the value to be displayed in the fourth column of your address book.</p> <p>You can set the display column name to:</p> <p>displayname, company, title, primaryphone, workphone, homephone, faxphone, pagerphone, primaryemail, email2, email3, homeaddress, workaddress, webur11, webur12, calendarurl, freebusyurl, birthday, anniversary ,ou, edit, viewcalendar.</p> |

Table D-7 Parameters in uwcdomainconfig.properties (Continued)

| Parameters | Default Value | Description |
|--------------------------------------|---------------|--|
| uwc-mail-options-isSpamDetectEnabled | false | Specifies whether the spam detection filters should be shown to the user or not. |

personalstore.properties file

Table D-8, list the parameters of the personalstore.properties file.

Table D-8 Parameters in personalstore.properties

| Parameters | Default Value | Description |
|-------------------------|---------------|---|
| db.psrootattribute | psRoot | Defines the psRoot Attribute name. |
| db.useUserPsRoot | false | Specifies whether the per User psRoot should be used or not. Set the attribute to 'true' to use the attribute. Otherwise set the attribute to "false." |
| db.defaultpsrootpattern | | Specifies the default psroot pattern to be used when db.useUserPsRoot attribute is set to true. For example, ldap:///piPStoreOwner=%U,o=%D,o=PiServerDb |
| db.psurlprefix | ps | Defines the protocol prefix of PS URLs |
| db.defaultpspath | defaultps | Defines the path where the defaultps values are stored. There exists one path per domain with dictionary files for each locale. |
| db.maxpagedsearch | | Specifies the max number of simultaneously paged search for an instance of PersonalStore |

Glossary

Refer to the *Java Enterprise System Glossary* (<http://docs.sun.com/doc/816-6873>) for a complete list of terms that are used in this documentation set.

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