



Sun Java System Mobile Enterprise Platform 1.0 Administration Guide



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Preface

This guide explains how to administer Sun Java System Mobile Enterprise Platform 1.0 (MEP) using the MEP Administration Console (the Admin Console).

The Admin Console has two versions:

- A version that is installed on the Gateway tier of a MEP installation. The Gateway tier is the only tier of a single-tier (enterprise managed) MEP installation, and is the first tier of a two-tier (mobile provider managed) MEP installation.
- A version that is installed on the Enterprise tier, the second tier of a two-tier (mobile provider managed) installation.

For information on installing MEP, refer to the *Sun Java System Mobile Enterprise Platform 1.0 Installation Guide*.

MEP is a comprehensive mobility solution that enables offline data access, data synchronization, and secure access to EIS/EAI applications such as Siebel and SAP.

MEP is based entirely upon open standards, including the following:

- Java Platform, Mobile Edition (Java ME)
- Java Platform, Enterprise Edition (Java EE)
- The dominant industry standard OMA DS, formerly known as SyncML. The specifications for Open Mobile Alliance Data Synchronization V1.1.2 and V1.2.1 are available at http://www.openmobilealliance.org/Technical/release_program/ds_v112.aspx and http://www.openmobilealliance.org/Technical/release_program/ds_v12.aspx.

Who Should Use This Book

This guide is intended for MEP system administrators.

Before You Read This Book

Before reading this guide, you should be familiar with the architecture of MEP as described in *Sun Java System Mobile Enterprise Platform 1.0 Architectural Overview*. You should also have installed MEP as described in *Sun Java System Mobile Enterprise Platform 1.0 Installation Guide*.

How This Book Is Organized

This book contains the following chapters:

- Chapter 1, “Using the Sun Java System Mobile Enterprise Platform Administration Console,” describes how to use the Administration Console for the MEP Gateway to configure MEP.
- Chapter 2, “Using the Sun Java System Mobile Enterprise Platform Enterprise Tier Administration Console,” describes how to use the Enterprise Tier Administration Console to configure the Enterprise tier.

Mobile Enterprise Platform Documentation Set

The Mobile Enterprise Platform documentation set is available at <http://docs.sun.com/coll/1780.1>. To learn about Mobile Enterprise Platform, refer to the books listed in the following table.

TABLE P-1 Books in the Mobile Enterprise Platform Documentation Set

Book Title	Description
<i>Sun Java System Mobile Enterprise Platform 1.0 Release Notes</i>	Late-breaking information about the software and the documentation. Includes a comprehensive summary of the supported hardware, operating systems, application server, Java Development Kit (JDK), databases, and EIS/EAI systems.
<i>Sun Java System Mobile Enterprise Platform 1.0 Architectural Overview</i>	Introduction to the architecture of Mobile Enterprise Platform.
<i>Sun Java System Mobile Enterprise Platform 1.0 Installation Guide</i>	Installing the software and its components, and running a simple application to verify that installation succeeded.
<i>Sun Java System Mobile Enterprise Platform 1.0 Deployment Guide</i>	Deployment of applications and application components to Mobile Enterprise Platform.
<i>Sun Java System Mobile Enterprise Platform 1.0 Developer's Guide for Client Applications</i>	Creating and implementing Java™ Platform, Mobile Edition (Java ME platform) applications for Mobile Enterprise Platform that run on mobile devices.

TABLE P-1 Books in the Mobile Enterprise Platform Documentation Set (Continued)

Book Title	Description
<i>Sun Java System Mobile Enterprise Platform 1.0 Developer's Guide for Enterprise Connectors</i>	Creating and implementing Enterprise Connectors for Mobile Enterprise Platform intended to run on Sun Java System Application Server.
<i>Sun Java System Mobile Enterprise Platform 1.0 Administration Guide</i>	System administration for Mobile Enterprise Platform, focusing on the use of the MEP Administration Console.

Application Server Documentation Set

When you install MEP, it is deployed to Sun Java System Application Server 9.1 Update 2.

The Application Server documentation set describes deployment planning and system installation. The Uniform Resource Locator (URL) for Application Server documentation is <http://docs.sun.com/coll/1343.5>. For an introduction to Application Server, refer to the books in the order in which they are listed in the following table.

For a MEP system administrator, the *Performance Tuning Guide* provides useful information about obtaining the best Application Server performance.

TABLE P-2 Books in the Application Server Documentation Set

Book Title	Description
<i>Documentation Center</i>	Application Server documentation topics organized by task and subject.
<i>Release Notes</i>	Late-breaking information about the software and the documentation. Includes a comprehensive, table-based summary of the supported hardware, operating system, Java Development Kit (JDK™), and database drivers.
<i>Quick Start Guide</i>	How to get started with the Application Server product.
<i>Installation Guide</i>	Installing the software and its components.
<i>Deployment Planning Guide</i>	Evaluating your system needs and enterprise to ensure that you deploy the Application Server in a manner that best suits your site. General issues and concerns that you must be aware of when deploying the server are also discussed.
<i>Application Deployment Guide</i>	Deployment of applications and application components to the Application Server. Includes information about deployment descriptors.
<i>Developer's Guide</i>	Creating and implementing Java Platform, Enterprise Edition (Java EE platform) applications intended to run on the Application Server that follow the open Java standards model for Java EE components and APIs. Includes information about developer tools, security, debugging, and creating lifecycle modules.
<i>Java EE 5 Tutorial</i>	Using Java EE 5 platform technologies and APIs to develop Java EE applications.

TABLE P-2 Books in the Application Server Documentation Set (Continued)

Book Title	Description
<i>WSIT Tutorial</i>	Developing web applications using the Web Service Interoperability Technologies (WSIT). Describes how, when, and why to use the WSIT technologies and the features and options that each technology supports.
<i>Administration Guide</i>	System administration for the Application Server, including configuration, monitoring, security, resource management, and web services management.
<i>High Availability Administration Guide</i>	Post-installation configuration and administration instructions for the high-availability database.
<i>Administration Reference</i>	Editing the Application Server configuration file, <code>domain.xml</code> .
<i>Upgrade and Migration Guide</i>	Upgrading from an older version of Application Server or migrating Java EE applications from competitive application servers. This guide also describes differences between adjacent product releases and configuration options that can result in incompatibility with the product specifications.
<i>Performance Tuning Guide</i>	Tuning the Application Server to improve performance.
<i>Troubleshooting Guide</i>	Solving Application Server problems.
<i>Error Message Reference</i>	Solving Application Server error messages.
<i>Reference Manual</i>	Utility commands available with the Application Server; written in man page style. Includes the <code>asadmin</code> command line interface.

Typographic Conventions

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

TABLE P-3 Typographic Conventions

Typeface	Meaning	Example
AaBbCc123	The names of commands, files, and directories, and onscreen computer output	Edit your <code>.login</code> file. Use <code>ls -a</code> to list all files. <code>machine_name% you have mail.</code>
AaBbCc123	What you type, contrasted with onscreen computer output	<code>machine_name% su</code> Password:
<i>AaBbCc123</i>	A placeholder to be replaced with a real name or value	The command to remove a file is <code>rm filename</code> .

TABLE P-3 Typographic Conventions (Continued)

Typeface	Meaning	Example
<i>AaBbCc123</i>	Book titles, new terms, and terms to be emphasized (note that some emphasized items appear bold online)	Read Chapter 6 in the <i>User's Guide</i> . A <i>cache</i> is a copy that is stored locally. Do <i>not</i> save the file.

Symbol Conventions

The following table explains symbols that might be used in this book.

TABLE P-4 Symbol Conventions

Symbol	Description	Example	Meaning
[]	Contains optional arguments and command options.	ls [-l]	The -l option is not required.
{ }	Contains a set of choices for a required command option.	-d {y n}	The -d option requires that you use either the y argument or the n argument.
\${ }	Indicates a variable reference.	\${com.sun.javaRoot}	References the value of the com.sun.javaRoot variable.
-	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.
→	Indicates menu item selection in a graphical user interface.	File → New → Templates	From the File menu, choose New. From the New submenu, choose Templates.

Documentation, Support, and Training

The Sun web site provides information about the following additional resources:

- Documentation (<http://www.sun.com/documentation/>)
- Support (<http://www.sun.com/support/>)
- Training (<http://www.sun.com/training/>)

Searching Sun Product Documentation

Besides searching Sun product documentation from the docs.sun.comSM web site, you can use a search engine by typing the following syntax in the search field:

```
search-term site:docs.sun.com
```

For example, to search for “broker,” type the following:

```
broker site:docs.sun.com
```

To include other Sun web sites in your search (for example, java.sun.com, www.sun.com, and developers.sun.com), use sun.com in place of docs.sun.com in the search field.

Third-Party Web Site References

Third-party URLs are referenced in this document and provide additional, related information.

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Using the Sun Java System Mobile Enterprise Platform Administration Console

This chapter describes how to configure the settings of Sun Java System Mobile Enterprise Platform (MEP) using the MEP Administration Console (the Admin Console).

You use this Admin Console for a single-tier MEP installation and for the first tier (the Gateway tier) of a two-tier MEP installation.

This chapter contains the following sections.

- “Logging In to the Admin Console” on page 11
- “Getting Help on the Admin Console” on page 12
- “MEP Admin Console Overview” on page 13
- “Using the General Tab” on page 13
- “Using the Connectors Tab” on page 18
- “Using the SMS Tab” on page 23
- “Using the Preferences Tab” on page 25
- “Using the Users Tab” on page 30
- “Using the Provisioning Tab” on page 37
- “Logging Out of the Admin Console” on page 45

Logging In to the Admin Console

To log in to the Admin Console, type the following URL into a web browser:

```
http://hostname:port-value/sync/admin
```

where *hostname* is the name and domain of the system where MEP is installed, and *port-value* is the HTTP port specified at installation (usually 8080).

The login page that appears displays both “Sun Java System Mobile Enterprise Platform” and “Administration Console”.

Figure 1–1 shows the login page.

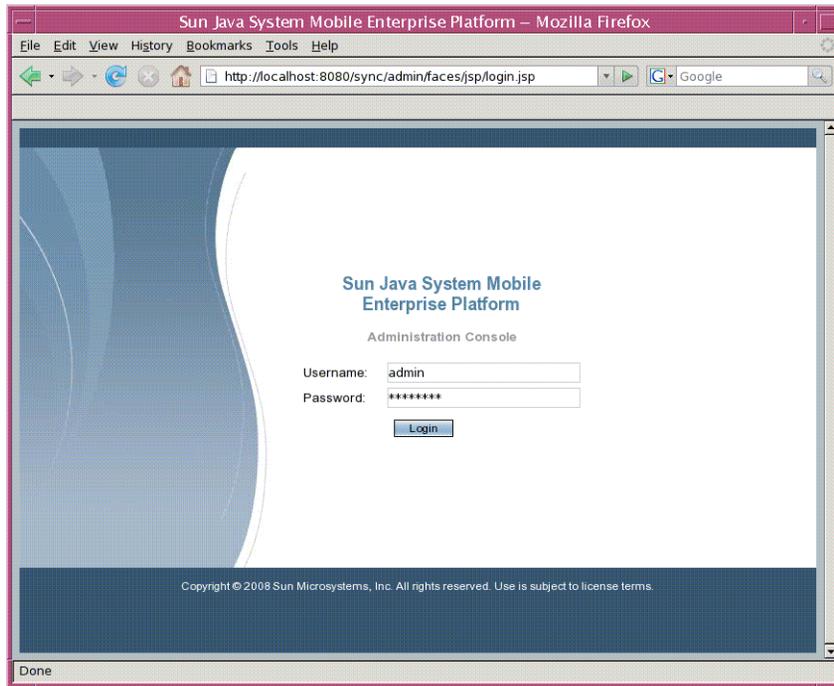


FIGURE 1-1 Admin Console Login Page

In the login page fields, type the user name and password for the Admin Console.

- The user name is admin.
- The default password is syncpass, but this may have been changed for your installation. See [“Changing the Administrator Password”](#) on page 16 for information on how to do this.

Getting Help on the Admin Console

To view the online help for the Admin Console, click Help at the top of the window.

MEP Admin Console Overview

The Admin Console contains the following tabs:

- The General tab is the first tab that you see when you log in to the Admin Console. Use this tab to register your MEP product, change the administrator password, reset all of the synchronization mappings for all users, and set the MEP logging level.
- The Connectors tab is used to configure the Enterprise Connectors that are used to access enterprise data.
- The SMS (Short Message Service) tab is used to enter the SMPP (Short Message Peer to Peer) details of your SMS provider, to allow MEP to send push synchronization messages to mobile devices.
- The Preferences tab allows you to define and edit push synchronization settings common to all users.
- The Users tab allows you to configure, add, or remove users.
- The Provisioning tab allows you to manage provisioning for mobile clients.

The remaining sections describe the tasks you can perform in these tabs.

Using the General Tab

The panels in the General tab allow you to perform the following tasks:

- [“Performing Product Registration” on page 14](#)
- [“Changing the Administrator Password” on page 16](#)
- [“Configuring Logging” on page 16](#)
- [“Resetting Synchronization Mappings” on page 17](#)

[Figure 1–2](#) shows the General tab.

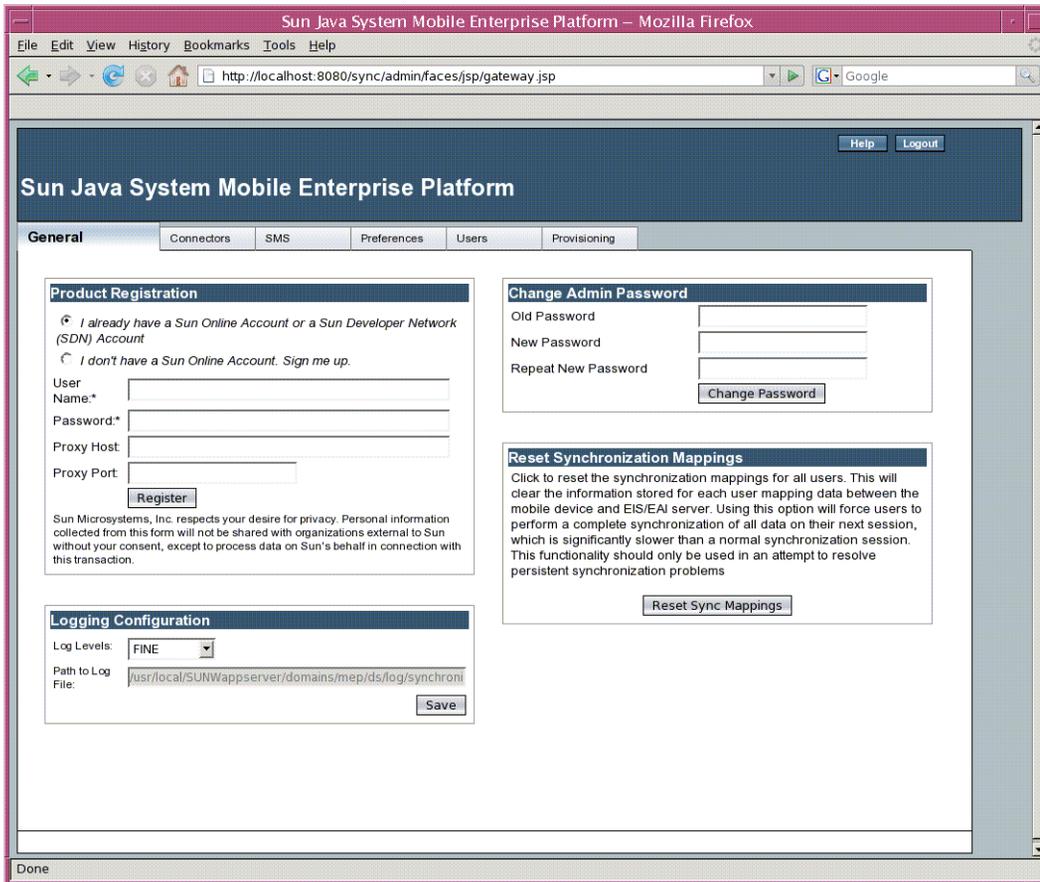


FIGURE 1-2 General Tab

Performing Product Registration

When you register your MEP product with Sun, you join a worldwide community of millions of users, and you gain access to support, training, other downloads, and many other services. See <https://reg.sun.com/whyregister> for details.

The registration process varies depending on whether you have previously registered with Sun or not.

▼ To Register Using an Existing Sun Account

If you already have a Sun Online Account or a Sun Developer Network account, follow these steps. Fields marked with an asterisk are required. You need to specify the proxy host and port if you access the Internet from behind a firewall.

- 1 In the **Product Registration** panel, select the radio button next to the text “I already have a Sun Online Account or a Sun Developer Network (SDN) Account.”
- 2 In the **User Name** field, type the user name for your account.
- 3 In the **Password** field, type the password for your account.
- 4 In the **Proxy Host** field, type the name of the proxy system through which you access the Internet.
Type this value if you access the Internet from behind a firewall.
- 5 In the **Proxy Port** field, type the port number through which your proxy system accesses the Internet.
Type this value if you access the Internet from behind a firewall. The most common port value is 8080.
- 6 **Click Register.**
A message appears, confirming successful registration.

▼ **To Register Using a New Sun Account**

If you do not yet have a Sun Online Account or a Sun Developer Network account, follow these steps. Fields marked with an asterisk are required. You need to specify the proxy host and port if you access the Internet from behind a firewall.

- 1 In the **Product Registration** panel, select the radio button next to the text “I don't have a Sun Online Account. Sign me up.”
- 2 In the **Email Address** field, type your email address.
Your email address will serve as your user name.
- 3 In the **Password** field, type a password for the account.
- 4 In the **Retype Password** field, type the password again.
- 5 In the **First Name** field, type your first name.
- 6 In the **Last Name** field, type your last name (surname).
- 7 From the **Country/Territory** drop-down list, choose your country location.

- 8 **In the Proxy Host field, type the name of the proxy system through which you access the Internet.**

Type this value if you access the Internet from behind a firewall.

- 9 **In the Proxy Port field, type the port number through which your proxy system accesses the Internet.**

Type this value if you access the Internet from behind a firewall. The most common port value is 8080.

- 10 **Click Register.**

A Support page appears.

Changing the Administrator Password

For security reasons, it is recommended that you change the default administrator password (synypass) to one specific to your own installation.

▼ To Change the Admin Password

In the Change Admin Password panel, follow these steps.

- 1 **In the Old Password panel, type the current password.**
- 2 **In the New Password field, type the new password.**
- 3 **In the Repeat New Password field, type the new password again.**
- 4 **Click Change Password to confirm the change.**

Configuring Logging

Use the Logging Configuration panel to configure the level of logging messages that will be sent to the log for the MEP Gateway. You can choose from the levels listed in [Table 1-1](#).

TABLE 1-1 Log Levels

Log Level	Description
All	Displays all messages
Fine	Provides trace information for debugging

TABLE 1-1 Log Levels (Continued)

Log Level	Description
Info	Provides informational messages
Warning	Indicates a potential problem
Severe	Indicates a serious failure

The Logging Configuration panel displays the path to the log file but does not allow you to change the name or location of this file. The path is *mep-domain-dir*/ds/log/synchronica.log, where *mep-domain-dir* is the location of the Application Server domain for MEP.

▼ To Configure Logging

To configure logging, follow these steps:

- 1 Choose the desired level of logging from the Log Levels drop-down list.
- 2 Click Save.

Resetting Synchronization Mappings

The MEP Gateway stores mapping information for each user and device. This information enables the MEP Gateway to perform fast syncs (a type of sync in which only the differences since the last sync are exchanged). Use the Reset Synchronization Mappings panel to clear this mapping for all users and all devices. Use this feature when your system is experiencing persistent synchronization problems.

To clear the user information, click the Reset Sync Mappings button.



Caution – This button has no confirmation dialog. The reset takes place as soon as you click the button.

After you clear the user information, all users must perform a complete synchronization (a slow sync) of all data in their next session. A slow sync is significantly slower than a normal synchronization session.

You can also reset the synchronization mappings for an individual user. See [“Using the Users Tab” on page 30](#) for more information.

Using the Connectors Tab

The sub-tabs in the Connectors tab allow you to configure local and remote Enterprise Connectors (JCR repositories).

For details on creating Enterprise Connectors, see the [Sun Java System Mobile Enterprise Platform 1.0 Developer's Guide for Enterprise Connectors](#).

An Enterprise Connector is a JCR repository, which is a software module that sits between the MEP Gateway and an EIS/EAI system or a database. It is responsible for executing CRUD operations (create, retrieve, update, and delete) on one or more business objects available in an EIS/EAI system or database. A local Enterprise Connector is available in the same Java Virtual Machine (JVM) as the MEP Gateway; a remote Enterprise Connector runs on a different server and connects with the MEP Gateway by means of a web services interface.

The installer automatically creates several Enterprise Connectors. These are created as local Enterprise Connectors in a single-tier installation and as remote Enterprise Connectors in a two-tier installation.

This section describes the following tasks:

- [“Creating, Activating, and Deleting Enterprise Connectors”](#) on page 19
- [“Configuring Enterprise Connectors”](#) on page 20

shows the Connectors tab.

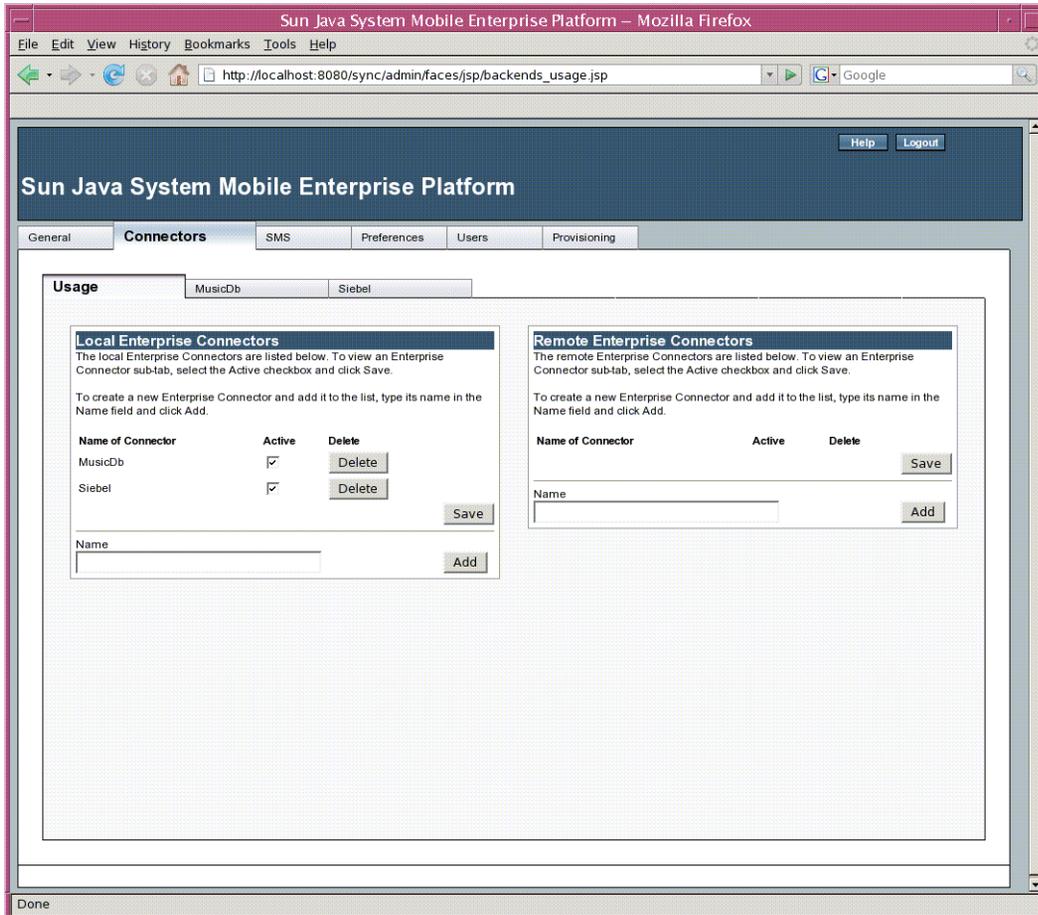


FIGURE 1-3 Connectors Tab

Creating, Activating, and Deleting Enterprise Connectors

The Usage sub-tab lists all the current Enterprise Connectors. The Active checkbox is selected for all Enterprise Connectors that have been activated. This section describes how to create, activate, or delete either a local or a remote Enterprise Connectors.

- [“To Create and Activate a New Enterprise Connector” on page 20](#)
- [“To Delete an Enterprise Connector” on page 20](#)
- [“To Activate or Deactivate an Existing Enterprise Connector” on page 20](#)

▼ **To Create and Activate a New Enterprise Connector**

In the Local Enterprise Connectors panel or the Remote Enterprise Connectors panel, follow these steps.

- 1 **In the Name text field, type the name of the Enterprise Connector.**

- 2 **Click Add.**

The new Enterprise Connector appears in the list of repositories. The Active checkbox is selected by default, indicating that the Enterprise Connector has been activated.

A new sub-tab for the Enterprise Connector appears. You can now configure the new Enterprise Connector.

▼ **To Delete an Enterprise Connector**

Before you delete a local Enterprise Connector, delete all users associated with the remote Enterprise Connector you want to delete. See [“Using the Users Tab” on page 30](#) for details.

In the Local Enterprise Connectors panel or the Enterprise Connectors panel, perform the following action.

- **Click the Delete button for the Enterprise Connector you want to delete.**

The sub-tab for the deleted Enterprise Connector no longer appears.

▼ **To Activate or Deactivate an Existing Enterprise Connector**

In the Local Enterprise Connectors panel or the Remote Enterprise Connectors panel, follow these steps.

- 1 **Select or deselect the Active checkbox for the Enterprise Connector whose status you wish to change.**
- 2 **Click Save to save your changes.**

Configuring Enterprise Connectors

Use the sub-tab for an Enterprise Connector to perform the following tasks:

- [“To Configure a Local Enterprise Connector” on page 21](#)
- [“To Configure a Remote Enterprise Connector” on page 22](#)

[Figure 1–3](#) shows the sub-tab for the MusicDB Enterprise Connector.

3 In the Name field of the Local Enterprise Connector Settings panel, edit the name of the Enterprise Connector.

The Name field contains the name of the Enterprise Connector that was specified when it was created.

4 In the Class/JNDI Name field for a local Enterprise Connector, type or edit the class name or JNDI name of the Enterprise Connector.

This field specifies the class that implements the Enterprise Connector. If the Enterprise Connector is based on the Enterprise Connector Business Object (ECBO) library, the class name is `com.sun.mep.connector.jcr.DbRepository`.

5 In the Workspace Name field, type or edit the name of the workspace for the Enterprise Connector.

The workspace name should be the same as the name specified for the workspace element in the resource file for the Enterprise Connector.

The other fields in this panel (Remote DB Name, Content Type, Register With URL, and Default URL) are not used for MEP.

6 Click Save in the Local Enterprise Connector Settings panel.

▼ **To Configure a Remote Enterprise Connector**

To add or edit the settings and properties for a remote Enterprise Connector, follow these steps.

1 In the Remote Enterprise Connector Properties panel, specify values for the properties used by the remote Enterprise Connector.

The following table shows the properties and values that are normally specified.

Name	Value
<code>ws.request.timeout</code>	<code>60s</code>
<code>ws.cache.ttl</code>	<code>5m</code>
<code>business-object-provider</code>	<code>com.sun.mep.connector.jdbc.album.MusicAlbumProvider</code> (or the equivalent class for your Enterprise Connector)
<code>ws.coalesce.max</code>	<code>5</code>
<code>ws.cache.spanSessions</code>	<code>false</code>
<code>ws.connect.timeout</code>	<code>60s</code>
<code>ws.endpoint.url</code>	<code>http://hostname:port-value/ds-jcr-webservice-server/SynchronicaUDCService</code>

Name	Value
ws.coalesce.period	20ms

2 Click Save in the Remote Enterprise Connector Properties panel.

3 In the Name field of the Remote Enterprise Connector Settings panel, edit the name of the Enterprise Connector.

The Name field contains the name of the Enterprise Connector that was specified when it was created.

4 In the WS Endpoint URL field, type or edit the URL of the web service through which you access the remote Enterprise Connector.

This URL has the following format:

`http://hostname:port-value/ds-jcr-webservice-server/SynchronicaUDCService`

where *hostname* is the name of the remote system, and *port-value* is the HTTP port (usually 8080 or 8181).

5 In the Workspace Name field, type or edit the name of the workspace for the Enterprise Connector.

The workspace name should be the same as the name specified for the workspace element in the resource file for the Enterprise Connector.

The other fields in this panel (Remote DB Name, Content Type, Register With URL, and Default URL) are not used for MEP.

6 Click Save in the Remote Enterprise Connector Settings panel.

Using the SMS Tab

The SMS tab contains only one panel, SMPP Connection, which allows you to configure Short Message Peer-to-Peer (SMPP) settings for your SMS provider. These settings serve several purposes:

- They allow MEP to send push synchronization messages to mobile devices. These messages can be used to notify the mobile device users when they need to perform a synchronization to obtain new or modified enterprise data. See [“To Send a Synchronization Message to a Client” on page 37](#) for details.
- They can be used to send poison pills to mobile devices to destroy data in case a device is lost or stolen. See [“To Send a Poison Pill to a Client” on page 37](#) for details.
- They can be used for client provisioning. See [“Using the Provisioning Tab” on page 37](#) for details.

Figure 1–5 shows the SMS tab.

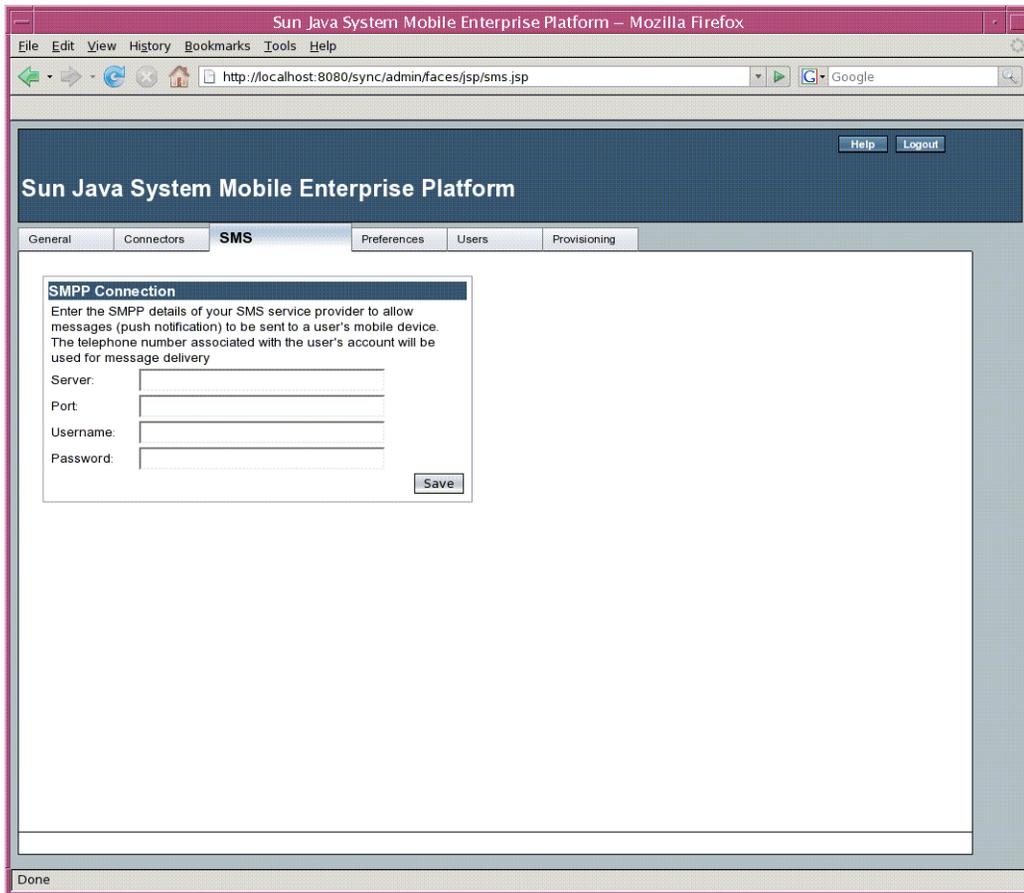


FIGURE 1–5 SMS Tab

▼ To Configure SMS Provider Settings

To configure the settings for your SMS provider, follow these steps in the SMPP Connection panel. You must obtain the information for the SMPP settings from your SMS provider.

- 1 In the **Server** field, type the hostname of the SMPP server.
- 2 In the **Port** field, type the port number of the SMPP server.
- 3 In the **Username** field, type the user name given to you by your SMS provider.

- 4 In the Password field, type the password given to you by your SMS provider.
- 5 Verify that the information is correct and click Save.

Using the Preferences Tab

The Preferences tab allows you to define and edit push synchronization settings common to all users. If you enable push synchronization, you can send messages to users asking them to perform a synchronization.

You can use the Preferences tab only if the MEP Gateway is configured to allow push synchronization. By default, the MEP Gateway is not configured to allow push synchronization, and a message stating this appears in the Preferences tab panel.

[Figure 1–6](#) shows the Preferences tab with the default setting.

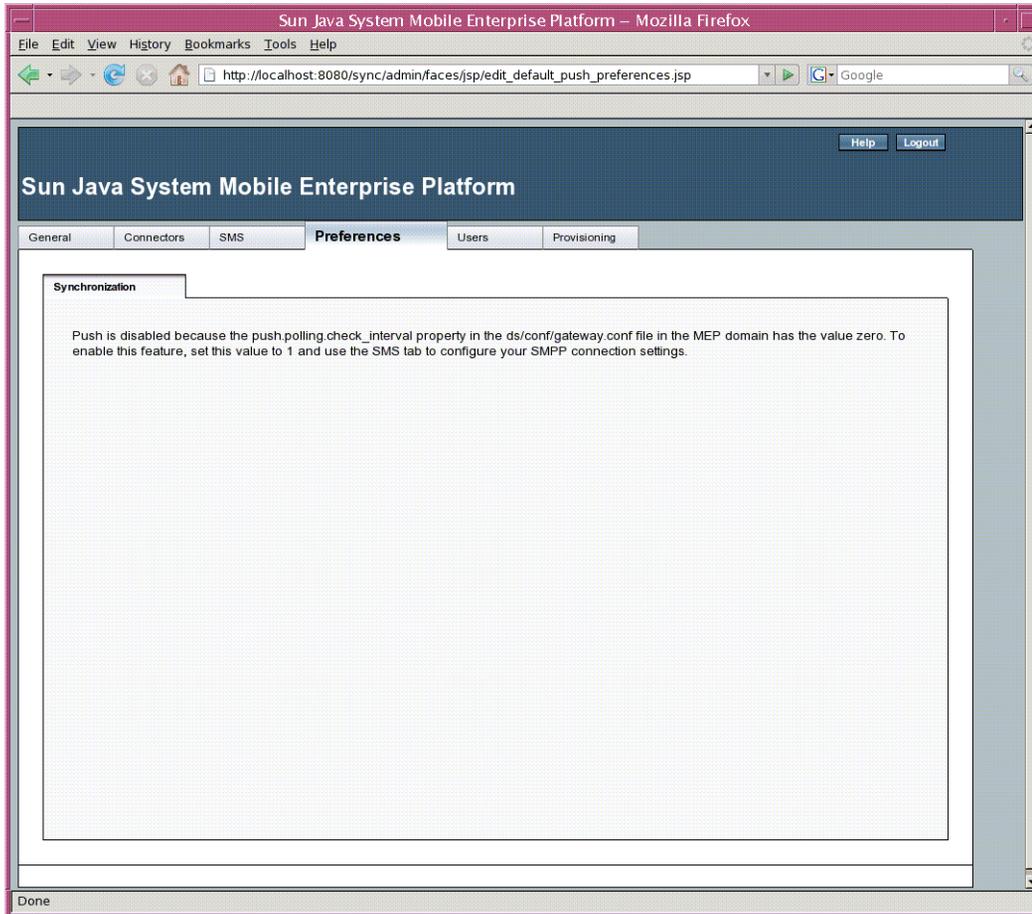


FIGURE 1-6 Preferences Tab with Default Push Synchronization Setting

This section describes the following tasks:

- “To Enable Push Synchronization for All Users” on page 27
- “To Enable and Disable Push Synchronization” on page 28
- “To Change the Number of Alerts” on page 29
- “To Set the Schedule for All Users” on page 29

Figure 1-7 shows the Preferences tab with push synchronization enabled.

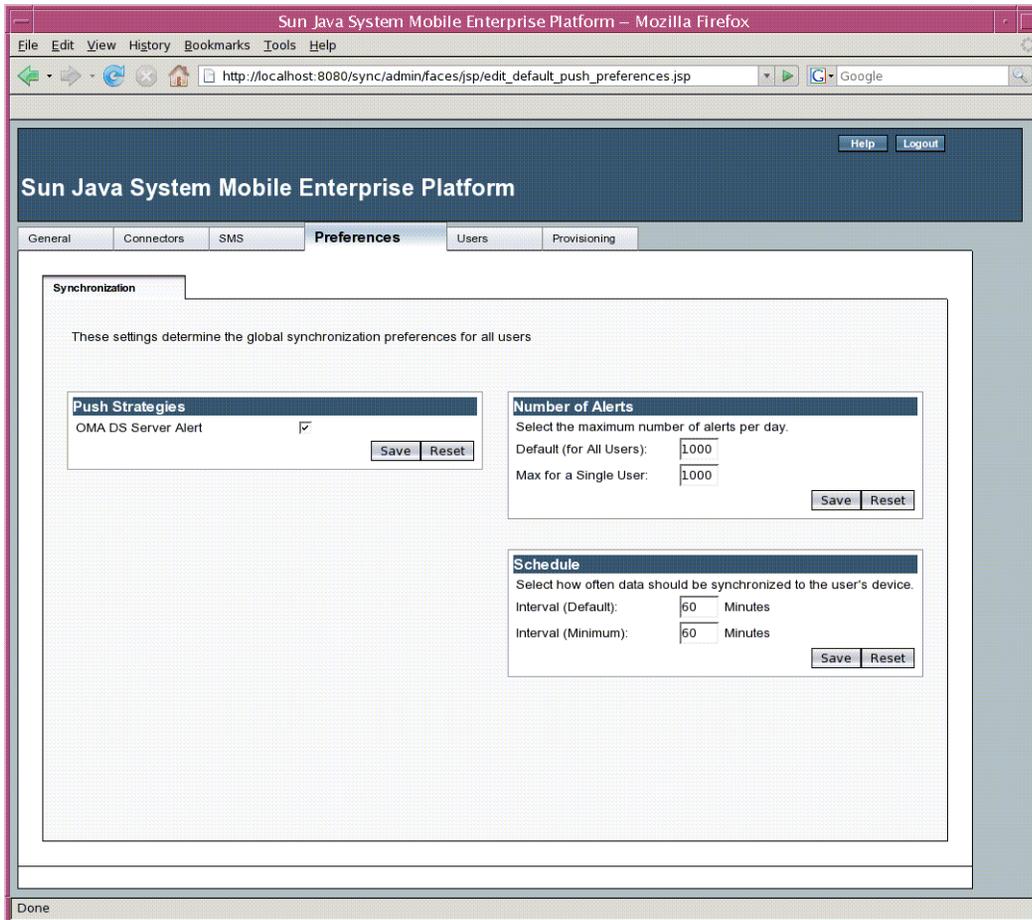


FIGURE 1-7 Preferences Tab with Push Synchronization Enabled

▼ To Enable Push Synchronization for All Users

To enable push synchronization, you must edit a configuration file and then stop and restart the Application Server. You perform these tasks outside the Admin Console.

- 1 **Open the file `mep-domain-dir/ds/conf/gateway.conf` in a text editor (`mep-domain-dir` is the location of the Application Server domain for MEP).**

- 2 **Locate the following line:**

```
push.polling.check_interval = 0
```

- 3 **Change the 0 to a value that specifies how often, in milliseconds, the Gateway Engine should check for updates on the EIS/EAI system or database. The following setting specifies an interval of two minutes:**

```
push.polling.check_interval = 120000
```

- 4 **Save and close the file.**

- 5 **Stop the Application Server (*as-install* represents the directory where the Application Server is installed):**

```
as-install/bin/asadmin stop-domain mep
```

- 6 **Start the Application Server again:**

```
as-install/bin/asadmin start-domain mep
```

You will be asked for the master password; the default is adminpass.

Next Steps After you restart the Application Server, the Preferences tab contains three panels. In the Push Strategies panel, the OMA DS Server Alert checkbox is selected, indicating that push synchronization is enabled.

▼ To Enable and Disable Push Synchronization

Use the Push Strategies panel to turn push synchronization on and off for all users. If you enable push synchronization for all users, you can configure it for individual users in the Users panel, as described in [“To Edit User Preferences” on page 36](#).

In order for changes in this panel to take effect, you must stop and restart the Application Server.

To use this feature, follow these steps.

- 1 **To enable push synchronization for all users, select the OMA DS Server Alert checkbox. To disable this feature, deselect the checkbox.**
- 2 **Click Save to store and apply your settings, or click Reset to return to the original setting.**
- 3 **Stop the Application Server (*as-install* represents the directory where the Application Server is installed):**

```
as-install/bin/asadmin stop-domain mep
```

- 4 **Start the Application Server again:**

```
as-install/bin/asadmin start-domain mep
```

You will be asked for the master password; the default is adminpass.

▼ To Change the Number of Alerts

Use the Number of Alerts panel to set the maximum number of alerts (push synchronization messages) that can be sent in a day, both for all users (combined) and for each individual user. Use this feature to control the cost or bandwidth usage incurred by push synchronization. Follow these steps:

- 1 **In the Default (for all Users) field, type the maximum number of alerts per day for all users.**

Once this value is reached, push synchronization is disabled for all users until the next day. The default value is 1000.

- 2 **In the Max for a Single User field, type the maximum number of alerts per day for a single user.**

Once this value is reached, push synchronization is disabled for this user until the next day. The default value is 1000.

- 3 **Click Save to store and apply these settings, or click Reset to return to the original settings.**

▼ To Set the Schedule for All Users

Use the Schedule panel to specify how often MEP checks the server for updated data for a user. If updated data is found, a push synchronization message is sent to a user's mobile device. To use this panel, follow these steps.

- 1 **In the Interval (Default) field, type the desired number of minutes MEP waits before it checks the server for updated data for a user.**

When you create a new user, the default value is used automatically. To modify the value for an individual user, use the Users tab as described in [“To Edit User Preferences” on page 36](#). The default value for this field is 60.

- 2 **In the Interval (Minimum) field, type the minimum number of minutes that can be specified for an individual user.**

The default value for this field is 60.

- 3 **Click Save to store and apply these settings, or click Reset to return to the original settings.**

Using the Users Tab

The Users tab and its sub-tabs allow you to add new users, delete users, view users' synchronization logs, change synchronization settings for individual users, and perform other tasks.

This section describes the following tasks:

- [“Creating New Users” on page 30](#)
- [“Editing and Deleting Users” on page 32](#)

Creating New Users

To create a MEP user, use the Account Data panel of the Create User sub-tab to create a user for a specific connector.

Users identify and authenticate themselves in the different parts of MEP by using three different credentials: an email address, a username, and a password.

- A mobile client user authenticates with the Gateway tier using an email address and a password.
- A Gateway tier user authenticates with the Enterprise Connector using a username and password. In a two-tier system, these credentials are passed to the Enterprise tier. In a single-tier system, they are passed directly to the Enterprise Connector.
- An Enterprise tier user has two possibilities for authenticating with the Enterprise Connector:
 - It may use a username and password, which are treated as different from the ones used on the Gateway tier.
 - It may choose not to specify a username and password, in which case the username and password from the Gateway tier are used.

The Enterprise Connector establishes credentials for authenticating with the EIS/EAI system or database.

For a two-tier MEP installation, you should specify the user mapping on the Enterprise tier before you create the users on the Gateway tier. See [“Using the Users Tab for the Enterprise Tier” on page 50](#)

[Figure 1–8](#) shows the Create User sub-tab of the Users tab.

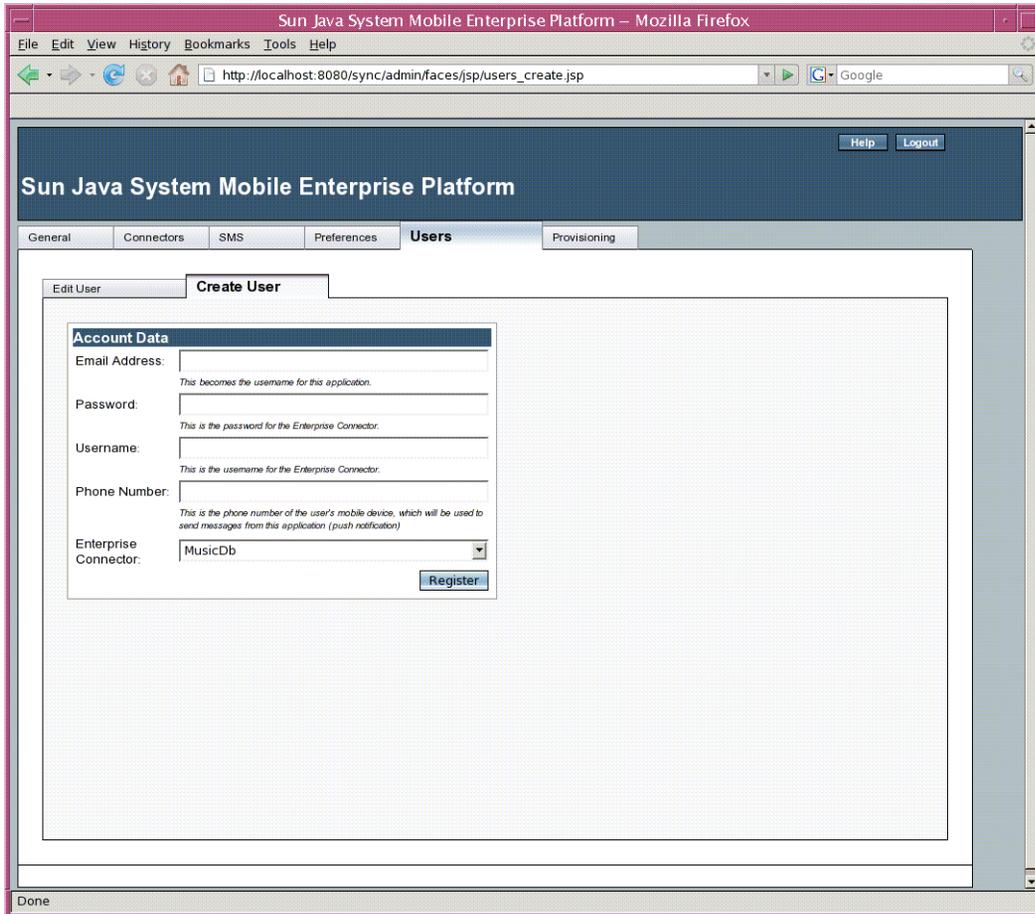


FIGURE 1–8 Create User Sub-tab of Users Tab

▼ To Create a New User

Follow these steps to create a user that will be used to authenticate with the Enterprise Connector.

- 1 Click the Create User sub-tab.
- 2 In the Email Address field, type the user's email address, which will serve as the user name for the client application to identify itself to the MEP Gateway.
- 3 In the Password field, type the password.
 - On a single-tier system, this is the password for both the Gateway and the Enterprise Connector.

- On a two-tier system, this is the password for the Gateway.
- 4 In the Username field, type the user name for the Enterprise Connector**
 - On a single-tier system, this is the user name for both the Gateway and the Enterprise Connector.
 - On a two-tier system, this is the user name for the Gateway.
 - 5 In the Phone Number field, type the phone number of the mobile device, to be used for sending messages to the device for push synchronization, poison pills, or client provisioning.**

Specify the full international phone number, including the initial plus sign (for example, +19995551212).
 - 6 Choose the Enterprise Connector for the application from the Enterprise Connector drop-down list.**

Do not choose Auto-select by Remote DB Name.
 - 7 Click Register to create the user.**

Editing and Deleting Users

The Edit User sub-tab allows you to view information on all users, modify the settings for a user, or delete a user. You can perform the following tasks:

- [“Viewing User Information” on page 33](#)
- [“To Delete a User” on page 35](#)
- [“To View a User's Log” on page 35](#)
- [“To Reset Synchronization Mappings for a User” on page 35](#)
- [“To Edit User Preferences” on page 36](#)
- [“To Send a Poison Pill to a Client” on page 37](#)
- [“To Send a Synchronization Message to a Client” on page 37](#)

[Figure 1–9](#) shows the Edit User sub-tab of the Users tab.

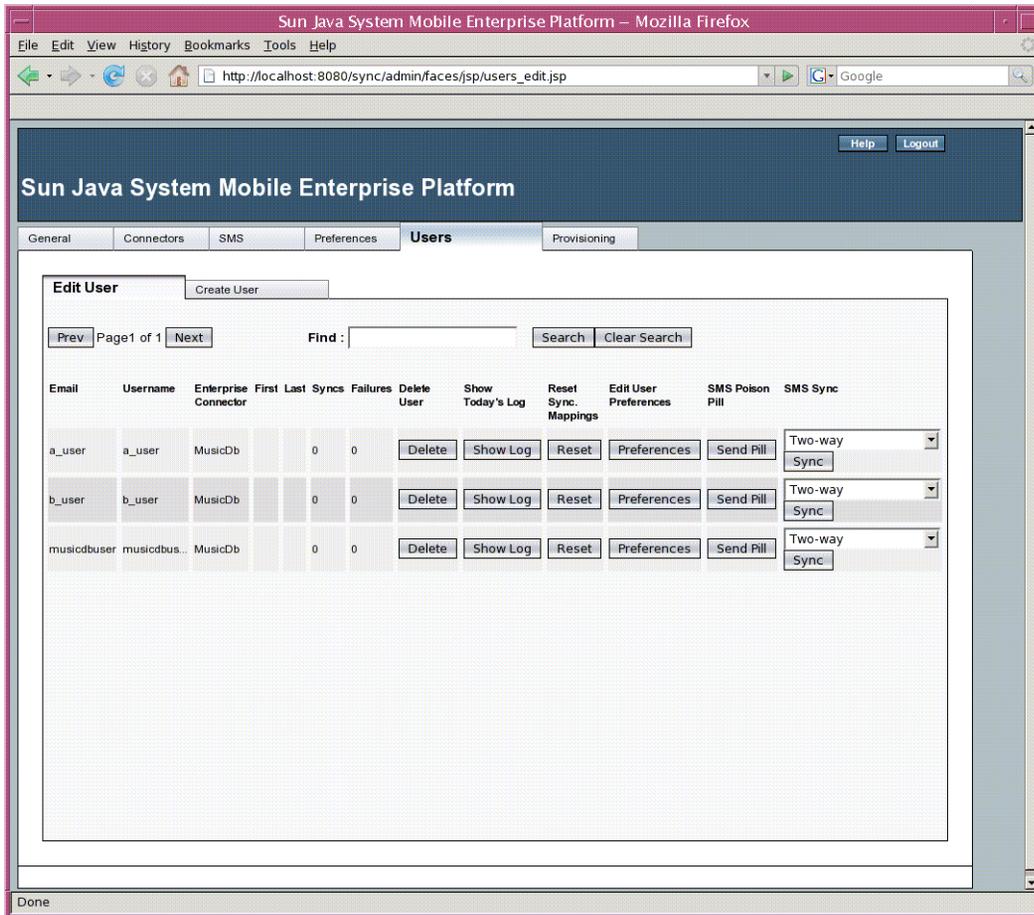


FIGURE 1-9 Edit User Sub-tab of Users Tab

Viewing User Information

The Edit User sub-tab lists all the MEP users for your installation in a table that contains the columns shown in [Table 1-2](#).

TABLE 1-2 Columns in the User Information Table

Column	Description
Email	The user's email address
Username	The user name for the user

TABLE 1-2 Columns in the User Information Table *(Continued)*

Column	Description
Enterprise Connector	The name of the Enterprise Connector as specified in the Connectors tab
First	The date of the first synchronization session for the user
Last	The date of the last synchronization session for the user
Syncs	The total number of synchronization sessions. For some mobile devices, a synchronization session may consist of multiple sub-sessions.
Failures	The number of failed synchronization sessions. Failure can be caused by a synchronization error or a wireless link interruption. Use the log file to determine the cause of failure.
Delete User	See “To Delete a User” on page 35
Show Today's Log	See “To View a User's Log” on page 35
Reset Sync. Mappings	See “To Reset Synchronization Mappings for a User” on page 35
Edit User Preferences	See “To Edit User Preferences” on page 36
SMS Poison Pill	See “To Send a Poison Pill to a Client” on page 37
SMS Sync	See “To Send a Synchronization Message to a Client” on page 37

Use this list as follows:

- Click the Prev and Next buttons to move from page to page of a multi-page user list.
- Type text in the Find field and click Search to find the user whose email address, user name, or back end matches the string typed.

Note – The text you type must be the exact user name, not a substring.

Click Clear Search to restore the complete user list after a search.

- Click a column label to sort by that column.

▼ To Delete a User

Use the Delete User column to delete a user's account. This action deletes the user's MEP account and removes all information about previous synchronization sessions from the MEP database, but it does not delete any data on the EIS/EAI server or database or on the mobile device.

Note – Before you can remove an Enterprise Connector from the Connectors sub-tabs, you must first delete all users for that Enterprise Connector.

- 1 **Find the user whose account you want to delete.**
- 2 **Under the Delete User column, click Delete for that user.**

There is no confirmation dialog. The user's account is now deleted.

▼ To View a User's Log

Use the Show Today's Log column to view the current log for a user.

This action displays a summary of all user sessions in a new browser tab or window. Use the log to troubleshoot synchronization problems and report errors.

Note – Only synchronization sessions for the current day are displayed. You can use the command line to view the complete log, which is at the path shown in the Logging Configuration panel of the General tab.

- 1 **Find the user whose log you want to view.**
- 2 **Under the Show Today's Log column, click Show Log for that user.**

The log appears in a new browser tab or window. If there is no log for the current day, the following message appears:

```
There are no synchronization sessions
for the selected user
```

▼ To Reset Synchronization Mappings for a User

Use the Reset Sync. Mappings column to reset the synchronization mappings for a particular user. You can reset the mappings for all users from the Gateway tab; see [“Resetting Synchronization Mappings” on page 17](#).

This action resets the stored synchronization information (mapping) for the particular user, which will cause a complete synchronization of all data during the next synchronization. Perform this action if a particular user has problems synchronizing. This action will significantly slow down the next synchronization for that user.

- 1 Find the user whose synchronization mappings you want to reset.
- 2 Under the Reset Sync. Mappings column, click Reset for that user.

▼ To Edit User Preferences

Use the Edit User Preferences column to edit push synchronization preferences as well as the telephone number for a particular user's mobile device.

For more information on push synchronization, see [“Using the Preferences Tab” on page 25](#).

- 1 Find the user whose preferences you want to edit.
- 2 Under the Edit User Preferences column, click Preferences.
Another version of the Edit User tab appears, with a Close button at the top and the label “Edit preferences for *user*”, where *user* is the user's email address.
- 3 You can enable server push for a user only if push synchronization is enabled for all users. (See [“To Enable Push Synchronization for All Users” on page 27](#).) To enable automatic server push for the user, use the Server Push panel as follows:
 - a. Select the Enable Server Push checkbox.
 - b. Click Save.
- 4 In the Mobile Device Configuration panel, edit the telephone number or type a new telephone number in the Phone Number field, then click Save.
A success message appears at the bottom of the window.
- 5 The Schedule panel is enabled only if push synchronization is enabled for all users and if Server Push is enabled for that particular user. (See [“To Enable Push Synchronization for All Users” on page 27](#).) To modify the schedule for a particular user, use the Schedule panel as follows:
 - a. In the Interval (Minimum) field, type the minimum number of minutes MEP should wait before checking the server for new items for a user.
This value must be no less than the minimum specified for all users.
 - b. Click Save.
- 6 To return to the original Edit User display, click the Close button.

▼ **To Send a Poison Pill to a Client**

Use the Send Poison Pill column to destroy all the data on a mobile device. You may need to do this if, for example, the mobile device is stolen. The poison pill is a message sent to the device. If the client application on the device is set up to handle this message, the application will destroy the data.

Before you can use the Send Poison Pill column, you must use the SMS tab to set up the SMPP connection for your SMS provider, as described in [“Using the SMS Tab” on page 23](#).

- 1 **Find the user to whose mobile device you wish to send the poison pill.**
- 2 **Click Wipe Data.**

▼ **To Send a Synchronization Message to a Client**

Use the SMS Sync column to notify a client application that it needs to synchronize data with the server. This notification is a message sent to the mobile device. If the client application on the device is programmed to listen for alerts and to act on them appropriately without user intervention, the client application will perform the synchronization.

Before you can use the SMS Sync column, you must use the SMS tab to set up the SMPP connection for your SMS provider, as described in [“Using the SMS Tab” on page 23](#).

- 1 **Find the user to whose mobile device you wish to send the synchronization message.**
- 2 **From the drop-down menu, choose the type of synchronization you want the mobile device to perform.**
- 3 **Click Sync.**

Using the Provisioning Tab

The Provisioning tab allows you to manage provisioning for mobile client applications. You can make client applications available so that users can download them to their mobile devices, and you can upload such applications to the MEP Gateway so that they are available for users to download.

MEP provides a provisioning repository where you can store Provisioning Archive (PAR) files, each of which can contain many bundles. Each bundle represents a mobile client application that can be downloaded.

For details about client provisioning, including information on how to create PAR files, go to <http://java.sun.com/j2ee/provisioning/index.jsp> and download the J2EE Client Provisioning Reference Implementation (RI). The *User's Guide* included in this bundle describes how to create PAR files.

This section covers the following topics:

- [“Managing the Provisioning Repository” on page 38](#)
- [“Uploading Files to the Provisioning Repository” on page 41](#)
- [“Searching the Provisioning Repository” on page 43](#)

Managing the Provisioning Repository

Use the two panels of the Repository sub-tab to view and manage PAR files and their bundles.

- The Repository Contents panel displays a list of the PAR files currently available in the Repository.
- The Bundles in PAR *N* subpanel displays the bundles within a PAR file.

This section covers the following topics:

- [“Viewing the List of PAR Files” on page 39](#)
- [“Viewing Bundles in the Provisioning Repository” on page 40](#)
- [“Displaying an Individual Bundle” on page 40](#)
- [“Removing Bundles from the Repository” on page 41](#)

[Figure 1–10](#) shows the Repository sub-tab of the Provisioning tab.

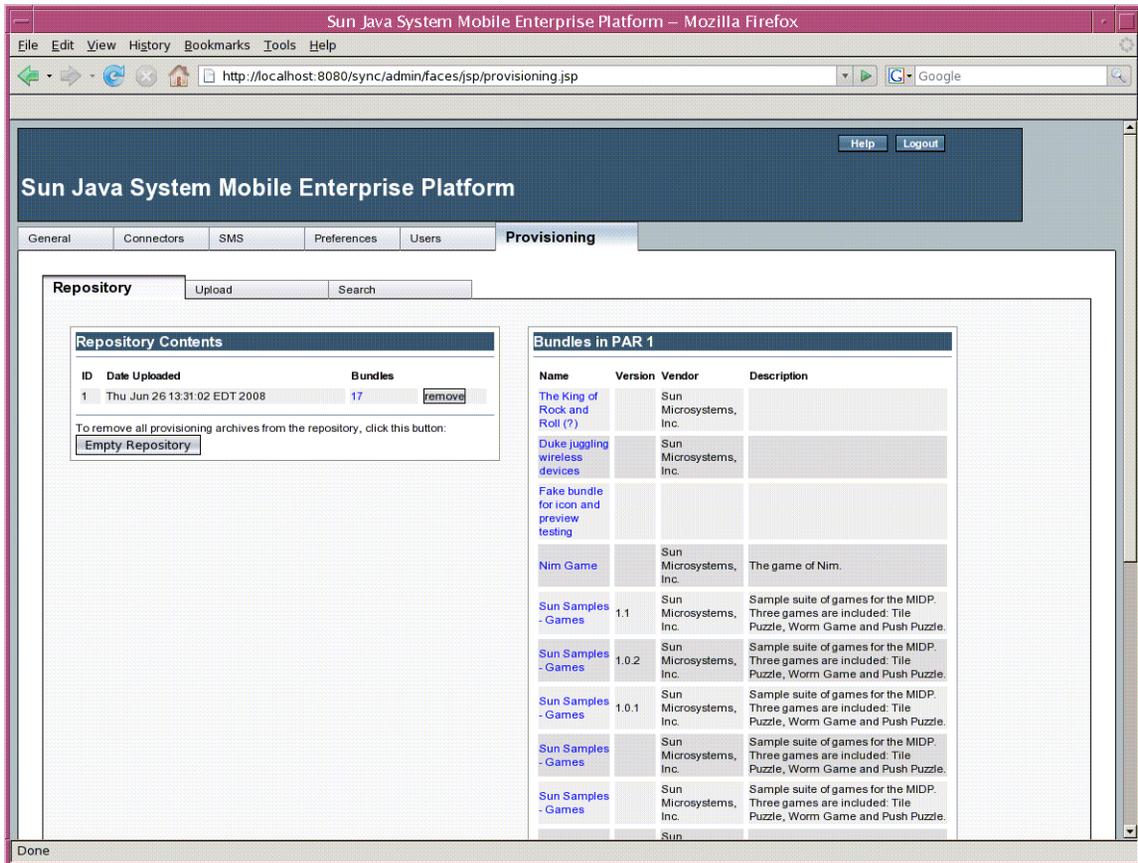


FIGURE 1-10 Repository Sub-tab of Provisioning Tab

Viewing the List of PAR Files

The Repository Contents panel displays a list of the PAR files currently available in the provisioning repository. The list has the following columns:

- The ID column shows the number of the PAR file.
- The Date Uploaded column shows the date and time when the PAR file was uploaded to the provisioning repository.
- The Bundles column shows the number of bundles in the PAR file. The number is a link that you can click to display the bundles.
- The last column contains a Remove button for each PAR file.

You can view the contents of these files, and you can remove any or all of these PAR files.

Viewing Bundles in the Provisioning Repository

To view the bundles for a PAR file, click the number in the Bundles column of the Repository Contents subpanel.

A list of bundles appears in the Bundles in PAR *N* panel for the PAR file whose PAR number is *N*.

The Bundles list has the following columns:

- **Name** - lists the name of the bundle, displayed as a link. To display more information about the bundle, click the link. See “[Displaying an Individual Bundle](#)” on page 40 for details.
- **Version** - lists the version of the bundle, if it has one.
- **Vendor** - lists the name of the company providing the bundle.
- **Description** - provides descriptive information about the contents of the bundle.

Displaying an Individual Bundle

To display more information about an individual bundle, click the bundle name link.

The Admin Console window is replaced by a window that displays the information. The display has the following rows:

- **Bundle ID** - provides a unique identifier identifying the bundle.
- **Icon** - displays a graphic image to identify the bundle.
- **Bundle Type** - describes the type of bundle. A MEP bundle is normally of the type APPLICATION.
- **Preview** - previews a bundle.
- **Locales** - shows the locales suitable for the bundle (for example, En for English, Fr for French, De for German, and so on).
- **Description** - provides a description of the bundle appropriate to the given locale.
- **Version** - provides the version number of the bundle.
- **Content ID** - provides the Content Identifier for the bundle, given in the `content-id` element of the provisioning descriptor.
- **Catalog Properties** - lists the properties used to classify the bundle. The bundle vendor may classify the bundle in a specific category.
- **Requirements** - describes the device capabilities needed to use this bundle (for example, the Screen Size, the Bits Per Pixel on the device, and so on).
- **Vendor Info** - provides information about the bundle provider.
- **Descriptor File** - provides a pointer to the provisioning descriptor file for the bundle (if there is any). For example, in the case of Java ME, the bundle refers to the URL of a JAD file.
- **Copyright** - displays the copyright notice for the bundle.

- **Adapters** - lists the adapters that can be used to deliver this bundle.

This page provides a Download button for each bundle. The Download button triggers a provisioning request, which can be used in several ways:

- If the bundle is an image, Download displays the image in your browser.
- If the bundle is a Java application and your browser is configured with the appropriate helper application - for example, Java Web Start or the Wireless Toolkit - Download starts up that application and deploys the bundle to it.

Click Back to return to the Admin Console window.

Removing Bundles from the Repository

To remove one or more bundles from the provisioning repository, use the Repository Contents panel as follows:

- To remove one PAR file from the provisioning repository, click the Remove link for that PAR file.
- To remove all the PAR files from the provisioning repository, click the Empty Repository button.

The files are removed from the repository, but they remain in the file system from which they were uploaded.

Uploading Files to the Provisioning Repository

Use the Upload sub-tab to place bundles in the provisioning repository and to notify clients that the bundles are available.

This section covers the following topics:

- [“To Upload a File to the Provisioning Repository” on page 42](#)
- [“To Send an SMS Notification to Users” on page 43](#)

Figure 1–11 shows the Upload sub-tab of the Provisioning tab.

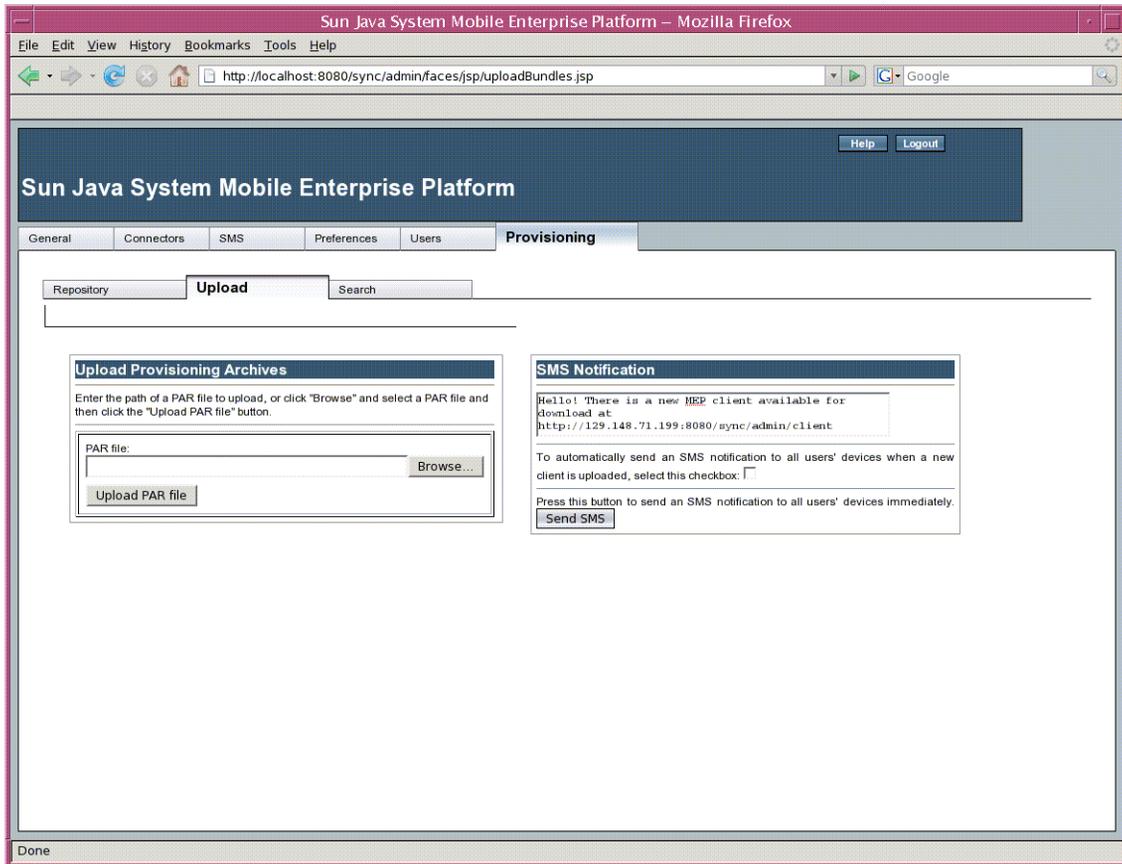


FIGURE 1-11 Upload Sub-tab of Provisioning Tab

▼ To Upload a File to the Provisioning Repository

Use the Upload Provisioning Archives panel to upload a PAR file to the provisioning repository.

- 1 **Type the full path name of a PAR file in the PAR file field, or click Browse to open a file chooser and select the file to upload.**
- 2 **Click Upload PAR File.**

The PAR file appears in the Repository Contents table in the Repository sub-tab.

Next Steps After you upload a PAR file, you can notify users of its existence by using the SMS Notification panel.

▼ To Send an SMS Notification to Users

Use the SMS Notification panel to send an SMS message to users to notify them of the existence of new bundles.

- 1 (Optional) Edit the message in the text field at the top of the panel to make it apply to your specific situation.

The default text specifies the URL to which PAR files are uploaded.

Your edited text will appear in the text field the next time you use the Upload tab.

- 2 (Optional) If you want the message to be sent automatically whenever a new bundle is uploaded, select the checkbox.
- 3 Click the Send SMS button to send the message manually.

Searching the Provisioning Repository

Use the Search sub-tab to search the provisioning repository for MIDP 2.0 bundles, using a variety of search criteria.

You can specify an application name or vendor name, or you can specify one or more keywords that can be used to search the provisioning repository. Keywords correspond to a list of bundle requirements that are defined for all bundles. For example, Bits Per Pixel or Screen Size are common bundle requirements that can be used as keywords.

The Search for Bundles panel contains the following items:

- **App Name** - text field that allows you to search for bundles associated with a specific bundle name.
- **Vendor Name** - text field that allows you to search for bundles provided by a specific vendor.
- **Keyword** - text fields that allow you to enter a keyword string. Each of the three Keyword fields can take its own unique keyword string.
- **Match All** - if you select this radio button, all the keywords must match.
- **Match Any** - if you select this radio button, any of the keywords may match.
- **Exact Match Only** - select this checkbox to match only exact keyword strings. Without Exact Match Only, any keyword that contains the given word is matched.

Note – The Match All and Match Any radio buttons are binary selections. That is, you can choose to search using one selection or the other, but not both.

When you have finished setting up your search criteria, click the Submit Query button to begin your search. The results appear in the Search Results panel.

Figure 1–12 shows the Search sub-tab of the Provisioning tab, with search results.

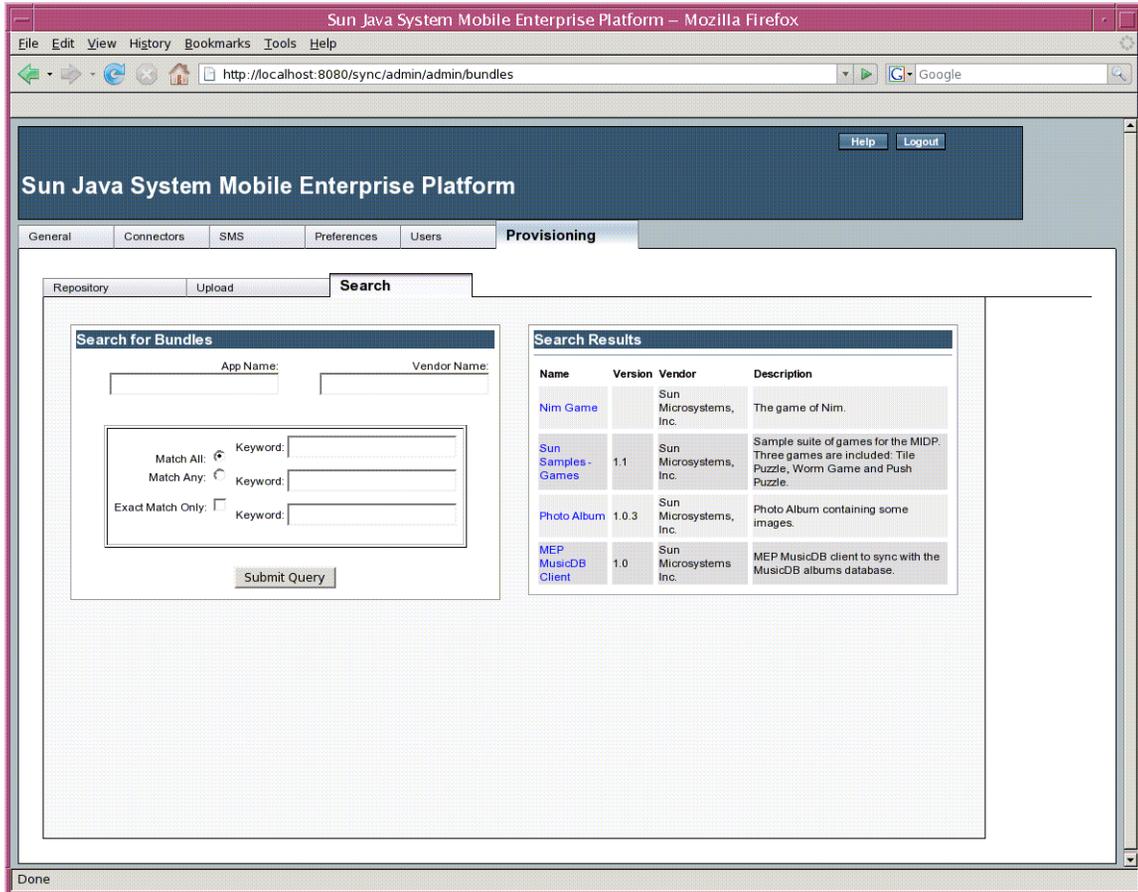


FIGURE 1–12 Search Sub-tab of Provisioning Tab

Logging Out of the Admin Console

To log out of the Admin Console, click Logout at the top of the window.

Using the Sun Java System Mobile Enterprise Platform Enterprise Tier Administration Console

This chapter describes how to configure the settings of the Enterprise tier, the second tier in a two-tier installation of Sun Java System Mobile Enterprise Platform, using the Enterprise Tier Administration Console.

The Enterprise Tier Administration Console provides a way to map Gateway Engine users to EIS/EAI system users when the Gateway tier and the Enterprise tier are in different password domains. If it is not possible to map a Gateway tier user to an Enterprise tier user, the user specified in the Gateway tier is used.

This chapter contains the following sections:

- “Logging in to the Enterprise Tier Admin Console” on page 47
- “Getting Help on the Enterprise Tier Admin Console” on page 48
- “Enterprise Tier Admin Console Overview” on page 48
- “Using the Users Tab for the Enterprise Tier” on page 50
- “Logging Out of the Enterprise Tier Admin Console” on page 55

Logging in to the Enterprise Tier Admin Console

To log in to the Enterprise Tier Admin Console, type the following URL into a web browser:

```
http://hostname:port-value/sync/admin
```

where *hostname* is the name and domain of the system where the Enterprise tier is installed, and *port-value* is the HTTP port specified at installation (usually 8080).

The login page that appears displays both “Sun Java System Mobile Enterprise Platform” and “Enterprise Tier Administration Console.”

In the login page fields, type the user name and password for the Enterprise Tier Admin Console.

- The user name is admin.
- The default password is syncpass, but this may have been changed for your installation. See [“Changing the Administrator Password for the Enterprise Tier” on page 49](#) for information on how to do this.

Getting Help on the Enterprise Tier Admin Console

To view the online help for the Enterprise Tier Admin Console, click Help at the top of the window.

Enterprise Tier Admin Console Overview

The Enterprise Tier Admin Console contains the following tabs:

- The General tab is the first tab that you see when you log in to the Admin Console. Use this tab to change the administrator password and to set the logging level for the MEP Enterprise tier. See [“Using the General Tab for the Enterprise Tier” on page 48](#) for details.
- The Users tab allows you to view, add, or remove users. See [“Using the Users Tab for the Enterprise Tier” on page 50](#) for details.

Using the General Tab for the Enterprise Tier

The panels in the General tab allow you to perform the following tasks:

- [“Changing the Administrator Password for the Enterprise Tier” on page 49](#)
- [“Configuring Logging on the Enterprise Tier” on page 50](#)

[Figure 2–1](#) shows the General tab.

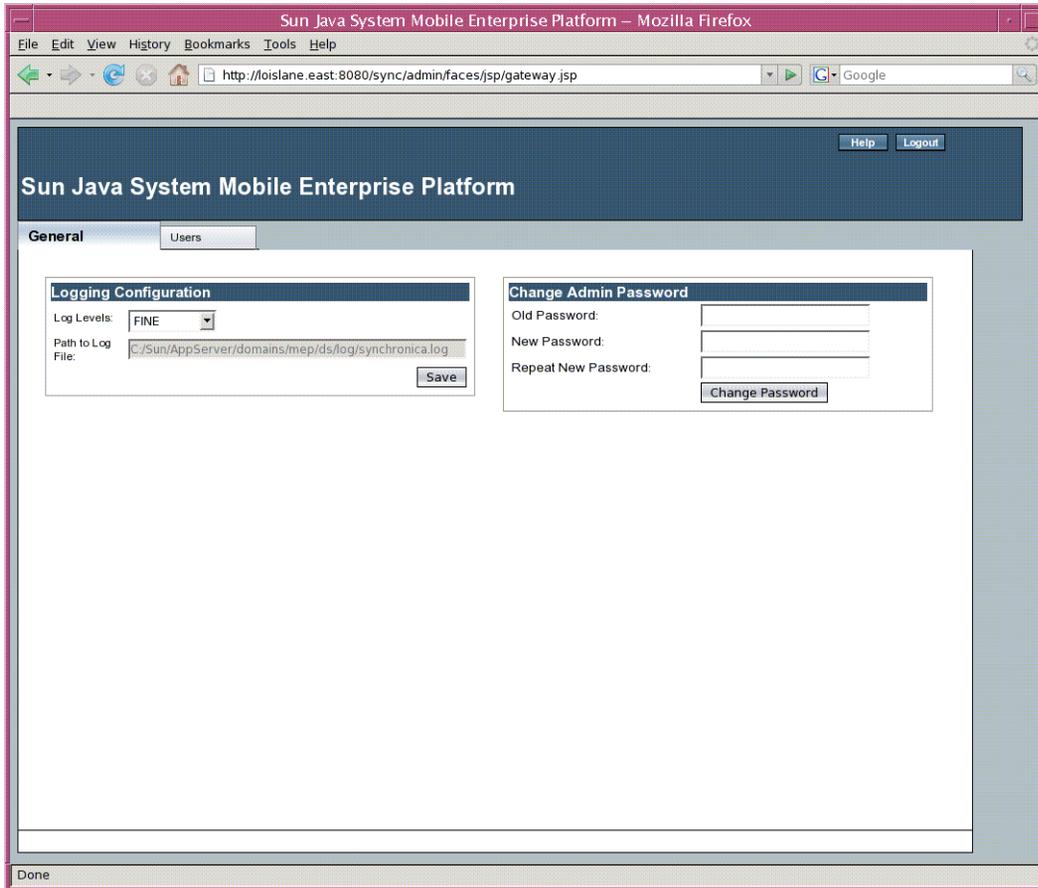


FIGURE 2-1 General Tab on the Enterprise Tier

Changing the Administrator Password for the Enterprise Tier

For security reasons, it is recommended that you change the default administrator password to one specific to your own installation.

▼ To Change the Admin Password for the Enterprise Tier

In the Change Admin Password panel, follow these steps.

- 1 In the Old Password panel, type the current password.
- 2 In the New Password field, type the new password.

- 3 In the Repeat New Password field, type the new password again.
- 4 Click Change Password to confirm the change.

Configuring Logging on the Enterprise Tier

Use the Logging Configuration panel to configure the level of logging messages that will be sent to the log for the MEP Enterprise tier. You can choose from the levels listed in [Table 2-1](#).

TABLE 2-1 Log Levels

Log Level	Description
All	Displays all messages
Fine	Provides trace information for debugging
Info	Provides informational messages
Warning	Indicates a potential problem
Severe	Indicates a serious failure

The Logging Configuration panel displays the path to the log file but does not allow you to change the name or location of this file. The path is *mep-domain-dir/ds/log/synchronica.log*, where *mep-domain-dir* is the location of the Application Server domain for the MEP Enterprise tier.

▼ To Configure Logging on the Enterprise Tier

To configure logging, follow these steps:

- 1 Choose the desired level of logging from the Log Levels drop-down list.
- 2 Click Save.

Using the Users Tab for the Enterprise Tier

The Users tab and its sub-tabs allow you to create and delete users for the Enterprise tier. You do this by mapping user names on the Gateway tier to the user names and passwords for the Enterprise Connector.

This section describes the following tasks:

- “Using the General Tab for the Enterprise Tier” on page 48
- “Creating Users for the Enterprise Tier” on page 51
- “Viewing and Deleting Users for the Enterprise Tier” on page 53

Creating Users for the Enterprise Tier

To create a user for the Enterprise tier, use the Account Data panel of the Create User sub-tab to map a user on the Gateway tier to a user for the Enterprise Connector on the Enterprise tier, which may be mapped to the account for a specific EIS/EAI system or database.

You should create the users on the Enterprise tier before you create the users on the Gateway tier. When you create a user on the Gateway tier, if a mapping exists for that user on the Enterprise tier, the specified credentials are verified against the EIS/EAI system or database.

[Figure 2–2](#) shows the Create User sub-tab of the Users tab.

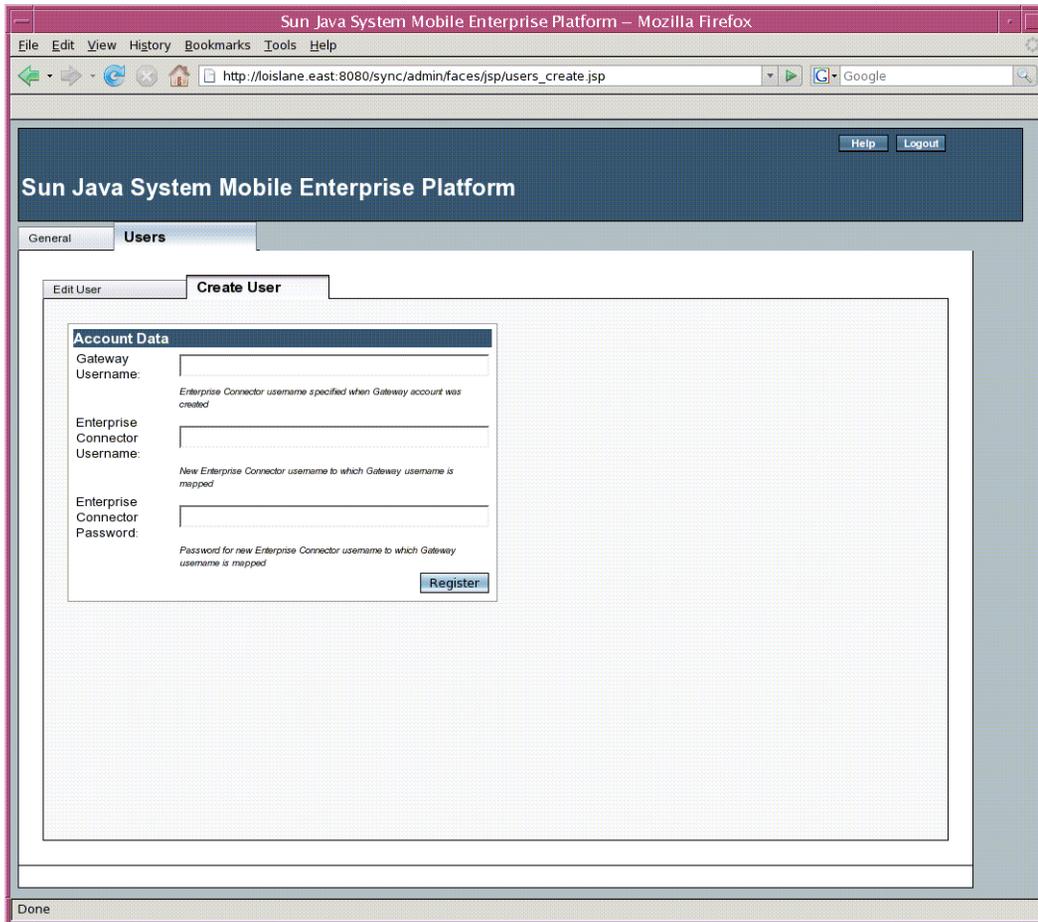


FIGURE 2-2 Create User Sub-tab of Users Tab on Enterprise Tier

▼ To Create a User for the Enterprise Tier

Follow these steps to map a Gateway tier user to an Enterprise Tier user.

- 1 Click the Create User sub-tab.
- 2 In the Gateway Username field, type the user name specified on the Gateway system. This is the value specified in the Username column on the Gateway system.
- 3 In the Enterprise Connector Username field, type the user name for the Enterprise Connector.
- 4 In the Enterprise Connector Password field, type the password for the Enterprise Connector.

- 5 Click Register to create the user.

Viewing and Deleting Users for the Enterprise Tier

The Edit User sub-tab allows you to view information on all users or delete a user. You can perform the following tasks:

- “Viewing User Information for the Enterprise Tier” on page 54
- “Deleting a User for the Enterprise Tier” on page 55

Figure 2–3 shows the Edit User sub-tab of the Users tab.

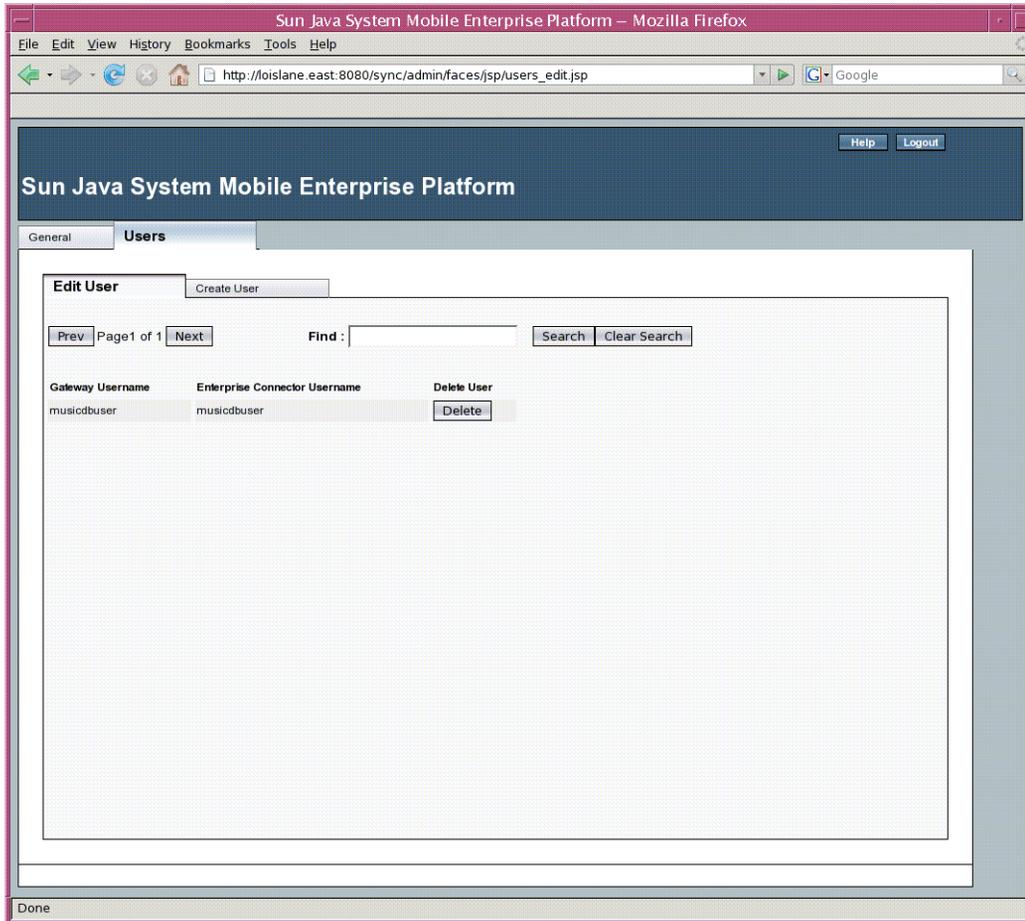


FIGURE 2-3 Edit User Sub-tab of Users Tab on Enterprise Tier

Viewing User Information for the Enterprise Tier

The Edit User sub-tab lists all the MEP users for your installation in a table that contains the columns shown in [Table 2-2](#).

TABLE 2-2 Columns in the User Information Table on the Enterprise Tier

Column	Description
Gateway Username	The user name for the user on the Gateway tier
Enterprise Connector Username	The username for the user on the Enterprise tier

TABLE 2-2 Columns in the User Information Table on the Enterprise Tier (Continued)

Column	Description
Delete User	See “Deleting a User for the Enterprise Tier” on page 55

Use this list as follows:

- Click the Prev and Next buttons to move from page to page of a multi-page user list.
- Type text in the Find field and click Search to find the user whose user name matches the string typed.

Note – The text you type must be the exact user name, not a substring.

Click Clear Search to restore the complete user list.

- Click a column label to sort by that column.

Deleting a User for the Enterprise Tier

Use the Delete User column to delete a user's account. This action deletes the user's MEP account on the Enterprise tier and removes all information about previous synchronization sessions from the MEP database, but it does not delete any data on the EIS/EAI system or database.

To delete a user, click the Delete button for that user.

Logging Out of the Enterprise Tier Admin Console

To log out of the Enterprise Tier Admin Console, click Logout at the top of the window.

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