The processes and all the routines contained herein are the proprietary properties and trade secrets of SirsiDynix. Except as provided by license agreement, this manual shall not be duplicated, used or disclosed for any purpose or reason, in whole or in part, without the express written consent of SirsiDynix. The information in this document is subject to change without notice and should not be construed as a commitment by SirsiDynix.

SirsiDynix grants the right of copying the enclosed material solely for the internal business use of the end user if (1) this document has been obtained by purchase or by license agreement in conjunction with SirsiDynix products, and (2) this copyright statement is included with each copy. All other copying or distribution is strictly prohibited.

Use, duplication, or disclosure by the U.S. Government is subject to restrictions as set forth in subparagraph (b)(3) of the Rights in Technical Data and Computer Software clause in DFARS 252.227-7013.

Rights for non-DOD U.S. Government departments and Agencies are as set forth in FAR 52.227-19(c)(1,2).

Java™, JDK™, JVM™, JRE™, JavaHelp™, Javadoc™, and Solaris™ are trademarks or registered trademarks of Sun Microsystems, Inc. or its subsidiaries in the United States and other countries. Tomcat™ is a trademark of The Apache Software Foundation. UNIX® is a registered trademark of The Open Group. Linux® is a registered trademark of Linus Torvalds. Microsoft® and Windows® are registered trademarks of Microsoft Corporation. W3C™ and World Wide Web Consortium™ are trademarks or registered trademarks of Massachusetts Institute of Technology (MIT), European Research Consortium for Informatics and Mathematics (ERCIM), or Keio University (Keio) on behalf of W3C. AIX® is a trademark or registered trademark of International Business Machines Corporation in the United States, other countries, or both. SUSE® is a trademark or registered trademark of Novell, Inc., in the United States and other countries. Red Hat® and Enterprise Linux® are trademarks or registered trademarks of Red Hat, Inc., in the United States and other countries.

Sirsi®, WebCat®, Vizion®, WorkFlows®, Unicorn®, UnicornECOLE®, UnicornOASIS®, UnicornSTILAS®, Site Source®, DRA®, DRA Net®, Inlex®, MultiLIS®, Taos®, JurisLink™, Corinthian®, Dynix®, URSA®, Horizon™, Remote Patron Authentication™, and TeleCirc™ are trademarks of SirsiDynix.

Other product and company names herein may be the trademarks of their respective owners. All titles, versions, trademarks, claims of compatibility, etc., of hardware and software products mentioned herein are the sole property and responsibility of the respective vendors. SirsiDynix makes no endorsement of any particular product for any purpose, nor claims responsibility for its operation and accuracy.

This document is compatible with Horizon Web Services 1.3.2. Information in this document may also be compatible with later versions.

11/2012
## Contents

**About this guide** ............................................................... vii

  * Summary of contents .......................................................... vii
  * Conventions used in this guide ............................................. viii
    + Symbols ............................................................................... viii
    + Keyboard conventions ......................................................... viii
    + Other conventions ........................................................... ix
  * Documentation updates ......................................................... ix
  * Comments and suggestions .................................................... x

**Chapter 1: Getting Started** ............................................. 1

  * About Horizon Web Services .................................................. 1
  * System requirements .......................................................... 3
    + Hardware ............................................................................ 4
    + Operating system ............................................................. 4
    + Java software ..................................................................... 4
    + Servlet container ............................................................. 4
    + Learning about Web services .............................................. 4

**Chapter 2: Installing Web Services** ............................. 7

  * Installation overview .......................................................... 7
  * Before you begin ............................................................... 8
  * Installing Web Services ....................................................... 9
    + Getting the Web Services install files .................................. 9
    + Installing Web Services ..................................................... 9
    + Troubleshooting installation .............................................. 11
Contents

Configuring default displays ............................................................ 11
Configuring Single Sign-On ............................................................. 12
Verifying that Web Services is running ......................................... 13
Uninstalling Web Services ............................................................... 14

Chapter 3: Managing Web Services ............................................. 15
Using Web Services Admin .............................................................. 15
  Accessing the Admin console ....................................................... 16
  Understanding the Admin console interface .................................. 17
  Logging In ............................................................................. 18
  Logging Out ........................................................................... 19
  Changing the admin password ...................................................... 20
  Changing the admin username ..................................................... 21
  Restoring access if you can’t log in .............................................. 21
  Updating ILS configuration ......................................................... 22
  Managing client IDs .................................................................. 23
  Configuring single sign-on ......................................................... 24
Status ..................................................................................... 24
ILS Configuration .................................................................... 25
Control Number Indexes ............................................................... 28
Profile Settings ....................................................................... 30
  (Edit) Profile Settings ................................................................. 30
Client IDs ................................................................................ 31
Single Sign On Setup ................................................................. 33
  Create/Edit Single Sign On URL .................................................. 34
Change Password .................................................................... 34
Library Directory .................................................................... 36
Mapping search indexes ............................................................. 37

Chapter 4: Configuring Library Directory Listings ..................... 39
Overview of configuring Library Directory listings ......................... 39
Working with a site account .......................................................... 40
  Creating or editing a site account ............................................... 41
  Restoring connection to an existing account .............................. 42
About this guide

This Setup Guide explains how to install and set up Horizon Web Services. It provides an overview of the software, including a brief summary of Web Services architecture, and describes system requirements and configuration properties.

This guide is intended for library system administrators who must install and set up Horizon Web Services for use with their Horizon integrated library system. To use this guide, you should understand software administration and have a working knowledge of Horizon Information Portal.

For more information about this guide, see these topics:

- **Summary of contents** on page vii
- **Conventions used in this guide** on page viii
- **Documentation updates** on page ix
- **Comments and suggestions** on page x

Summary of contents

This guide contains these major sections:

**Using HTML Help** explains how to use the HTML version of this guide.

**Getting Started** provides an overview of the software and system requirements.

**Installing Web Services** explains how to install the software and modify Web Services configuration properties. It also explains how to verify that the service is running and how to uninstall if needed.
Managing Web Services describes the Web Services Admin console and explains how to do common Web Services administration tasks.

Configuring Library Directory Listings explains the Library Directory Service and how you create a site account and listings with the Library Directory for your instance of Web Services.

Troubleshooting explains the location of log files and provides information about some possible errors you might encounter running Web Services.

Conventions used in this guide

This guide uses terms, typefaces, and symbols to denote different kinds of information. Understanding these conventions can help you recognize the information you need more quickly.

Symbols

This guide uses these symbols:

<table>
<thead>
<tr>
<th>Symbol</th>
<th>Description</th>
</tr>
</thead>
</table>
| ![Tip](image) | Tip  
This symbol indicates additional notes or helpful tips. |
| ![Important](image) | Important  
This symbol indicates important information or warnings. |

Keyboard conventions

This guide refers to keys following the standard convention of 101-key keyboards. For example, Ctrl is the control key, Alt is the alternate key, Enter is enter or return.
When you need to press two or more keys at the same time to do an action, the keys are connected with a plus sign (+). For example, **Alt+H** means to press and hold the **Alt** key while you also press **H**.

Keys you press appear in bold type in steps. Text or numbers that you need to enter using the keyboard also appear in bold (for example, “Type 50 in the **Minimum Sessions** field”).

**Other conventions**

In step-by-step instructions, the names of menus, buttons, fields, and other options appear in bold type (for example, “the **OK** button” or “the **Host** field”).

Text in italics shows general information that you must replace with information that is specific to your system. For example, you would replace *host* with a specific host name, such as **example.org**.

File and directory names, code examples, and computer output appear in **Courier**.

**Documentation updates**

Updates to this guide are posted to the customer support website between releases, as necessary. These updates provide corrections to unclear, incorrect, or incomplete information. They also provide documentation for enhancements that were not complete at the time the guide was first published.

You may access the customer support website at **http://support.sirsidynix.com**.

The customer support website requires a user name and password. If you do not already have a user name and password, contact your system administrator to receive one.

Documentation updates are available as a PDF (Portable Document Format) file or as HTML archives.
About this guide


Comments and suggestions

SirsiDynix welcomes and appreciates your comments on its documentation. We want to know what you think about our manuals and how we can make them better. If you have comments about this guide, please send them to docs@sirsidynix.com.

Be sure to include the title and version number of the guide and tell how you used it. Then tell us your feelings about its strengths and weaknesses and any recommendations for improvements.
Chapter 1: Getting Started

Welcome to Horizon Web Services. Web Services lets you make available select features of your Horizon system to client applications across platforms or programming languages.

You should read the entire guide before installing and setting up Web Services on your system. Also, make sure to check out the Installation overview on page 7. It provides a Quick Steps Guide to the required steps.

About Horizon Web Services

Horizon Web Services is a Web application that provides simplified remote access to features of the Horizon integrated library system (ILS).

Horizon Web Services 1.3.2 is compatible with the Horizon 7.5.1 or greater and Horizon Information Portal 3.21.2 or greater. However, some Web Services features and operations require certain versions of Horizon and Horizon Information Portal. Use the following table to identify the Web Services version and then reference the “Service and Operations” section of the Horizon Web Services Reference Guide to determine the operations and parameters available for each version of the Web Services.

<table>
<thead>
<tr>
<th>Horizon and Horizon Information Portal Version</th>
<th>Web Services Version</th>
</tr>
</thead>
<tbody>
<tr>
<td>Horizon 75</td>
<td>1.0</td>
</tr>
<tr>
<td>Horizon Information Portal 3.20</td>
<td></td>
</tr>
<tr>
<td>Horizon 75.1</td>
<td>1.1</td>
</tr>
<tr>
<td>Horizon Information Portal 3.21</td>
<td></td>
</tr>
</tbody>
</table>
Therefore, if you have Horizon 7.5.1 and Horizon Information Portal 3.21.2 installed, you can install Horizon Web Services 1.3.2, but you can only use the web services and features that were part of Horizon Web Services versions 1.0, 1.1, and 1.2. If an application uses a feature or operation added to a later version of Horizon Web Services, an error will result.

Web Services requires an instance of Horizon Information Portal in order to communicate with the Horizon software. Figure 1-1 illustrates the relationships of these components.

<table>
<thead>
<tr>
<th>Horizon and Horizon Information Portal Version</th>
<th>Web Services Version</th>
</tr>
</thead>
<tbody>
<tr>
<td>Horizon 7.5.1</td>
<td>1.2</td>
</tr>
<tr>
<td>Horizon Information Portal 3.21.2</td>
<td></td>
</tr>
<tr>
<td>Horizon 7.5.2</td>
<td>1.3</td>
</tr>
<tr>
<td>Horizon Information Portal 3.22</td>
<td></td>
</tr>
<tr>
<td>Horizon 7.5.2</td>
<td>1.3.1</td>
</tr>
<tr>
<td>Horizon Information Portal 3.22.1</td>
<td></td>
</tr>
</tbody>
</table>
System requirements

Horizon Web Services should be installed on your Horizon Information Portal server. If you have more than one Horizon Information Portal server, you only need to install Horizon Web Services on the one or ones that you want to expose to SirsiDynix client application like BookMyne or other applications that access Web Services.

To use Horizon Web Services, you must already have installed the software that is required for your version of Horizon Information Portal. See the Horizon/Horizon Information Portal Release Notes for complete system requirements.

The following topics provide additional requirement details.
Chapter 1: Getting Started

**Hardware**

Because web services integrates with Horizon Information Portal, the hardware requirements for Web Services are same as for Horizon Information Portal.

Both 32- and 64-bit architectures are supported.

For sites that expect heavy use of Web Services, you may need to increase JVM memory settings or the number of JBoss threads.

See the JBoss documentation for more information.

**Operating system**

Because Horizon Web Services integrates with Horizon Information Portal, the supported operating systems are the same as for Horizon Information Portal.

**Java software**

Horizon Web Services requires JDK 1.6.x starting with 1.6.0_11 (32 or 64 bit depending on your hardware and operating system).

To download the required version of Java SE Development Kit (JDK) software, visit the following website: http://www.oracle.com/technetwork/java/javase/downloads.

**Servlet container**

Horizon Web Services is installed in the same JBoss 4.2.3 server instance as Horizon Information Portal. Therefore, Horizon Information Portal must be installed prior to installing Web Services.

**Learning about Web services**

If you are new to working with Web services, you might find the following resources helpful for additional background:
• http://www.w3.org/TR/ws-arch/ — This technical report of the W3C Web Services Architecture working group does get technical, but it also provides a good introduction to core concepts and is a good starting point for exploring the W3C normative recommendations for Web services.

• http://www.w3schools.com/webservices/ — A very brief tutorial with a working example of a Web service.

• http://webservices.xml.com/ — This O’Reilly site is a collection of news and technical articles devoted to Web services. The primer under “Essentials > What are Web Services?” is a bit dated, but has helpful descriptions of Web services technologies.

• http://www.ibm.com/developerworks/webservices/newto — provides introductory information about Service Oriented Architectures and Web services.
Chapter 1: Getting Started
Chapter 2: Installing Web Services

This section explains how to set up Web Services to run in your environment. Topics include:

- **Installation overview** on page 7
- **Before you begin** on page 8
- **Installing Web Services** on page 9
- **Troubleshooting installation** on page 11
- **Configuring default displays** on page 11
- **Configuring Single Sign-On** on page 12
- **Verifying that Web Services is running** on page 13
- **Uninstalling Web Services** on page 14

### Installation overview

Here are the basic steps to install and run Web Services:

<table>
<thead>
<tr>
<th>Task</th>
<th>Where to learn more</th>
</tr>
</thead>
<tbody>
<tr>
<td>Review system requirements and gather required information.</td>
<td><strong>Before you begin</strong> on page 8</td>
</tr>
<tr>
<td>Install Web Services.</td>
<td><strong>Installing Web Services</strong> on page 9</td>
</tr>
<tr>
<td>Configure Displays as needed.</td>
<td><strong>Configuring default displays</strong> on page 11</td>
</tr>
<tr>
<td>Verify installation.</td>
<td><strong>Verifying that Web Services is running</strong> on page 13</td>
</tr>
<tr>
<td>Assign client IDs for specific applications.</td>
<td><strong>Managing client IDs</strong> on page 23</td>
</tr>
</tbody>
</table>
Before you begin

Before you install Horizon Web Services, review the hardware and software requirements listed in System requirements on page 3. In particular, be sure you are using JDK 1.6.x (starting with 1.6.0_11) and the proper version of Horizon Information Portal.

It will also be helpful to gather the following information:

- The location where Horizon Information Portal and JBoss are installed.

- The name of the display to use for full view. HzWs-bib is the view added during installation. You can modify this view or use a different one. For more information about displays, see the Horizon Information Portal System Administration Guide.

  Note that you cannot change the fixed elements of the display. If you add a fixed element, it will not have an effect. If you remove a fixed element, that information will not display in a SirsiDynix client application such as BookMyne.

- The name of the display to use for item view. HzWs-item is the view added during installation. You can modify this view or use a different one. For more information about displays, see the Horizon Information Portal System Administration Guide.

  Note that you cannot change the fixed elements of the display. If you add a fixed element, it will not have an effect. If you remove a fixed element, that information will not display in a SirsiDynix client application such as BookMyne.

- Default profile to use if a client application does not specify one. If you are only using BookMyne, you do not need to specify a default profile because BookMyne always specifies a profile to use. For more information about profiles, see the Horizon Information Portal System Administration Guide.

- Any additional indexes (other than the default GW - general keyword - index) to use for catalog searching requests. See Mapping search indexes on page 37.
Chapter 2: Installing Web Services

If you changed the default search indexes (such as the Universal IDs) in Horizon Information Portal, SirsiDynix client applications such as BookMyne will not return any search results until you map the appropriate indexes.

For more information about these parameters, see ILS Configuration on page 25.

Installing Web Services

Horizon Web Services is installed in the same JBoss instance as Horizon Information Portal. During the installation process, you will specify configuration options. For more information about specific options, see ILS Configuration on page 25.

Getting the Web Services install files on page 9 explains how to get the files you need for installing Web Services. After getting the files, use the procedures in Installing Web Services on page 9.

Getting the Web Services install files

The Web Services install consists of a single ZIP file. The ZIP file contains the following files:

- **hzws.ear** - Runs Web Services, including the Web Services Admin
- **horws-setup.pdf** - This Setup Guide
- **HorizonWS_RelNotes1.3.pdf** - Release Notes document containing information about enhancements and fixed bugs for this release of Web Services.

You download the ZIP file from the FTP site at ftp.sirsidynix.com/support/Upgrades/Horizon/HzWS/hzws_v1_3.zip.

Installing Web Services

In order to install Web Services you must already have Horizon Information Portal and JBoss installed.
Chapter 2: Installing Web Services

The Web Services install process consists of adding one file to your Horizon Information Portal instance.

**To install Web Services**

1. Review requirements in **Before you begin** on page 8.

2. Follow the instructions in **Getting the Web Services install files** on page 9 for your version of Horizon Information Portal.

3. Make a backup copy of the appserver directory where JBoss is installed. By default, this is `C:\dynix\appserver`.

4. Unzip the install files to a location on your computer.

5. Copy the `hzws.ear` file from the unzipped install files to the following location:

   `<path to appserver>\jboss\server\default\deploy`

   where `<path to appserver>` is where JBoss is installed. By default, this is `C:\dynix\appserver`.

   Within a few seconds, Web Services is ready for you to use.

   To verify that it is running, see **Verifying that Web Services is running** on page 13.

6. Depending on your environment, there may be additional setup tasks you need to complete before working with Web Services. For details, see **Configuring default displays** on page 11.

7. Check the **ILS Configuration** settings in the Web Services Admin console. See **ILS Configuration** on page 25. These settings must be correct for Web Services to communicate with Horizon.

8. Check the Control Number Indexes settings in the Web Services Admin console. See **Control Number Indexes** on page 28. If the correct index is not selected, barcode scanning will not work in SirsiDynix client applications such as BookMyne.
9 Modify the default password for the admin console. See Change Password on page 34. The default password for the admin console is “admin.” Therefore, you should change it to something more secure.

Related topics

- Before you begin on page 8
- Verifying that Web Services is running on page 13
- Troubleshooting installation on page 11
- Uninstalling Web Services on page 14

Troubleshooting installation

When you deploy into Horizon Information Portal 3.21.2, any errors appear in the standard JBoss log file. You should check the server.log file if you experience any problems during the installation or deployment process. The log file is located at:

<path to appserver>/jboss/server/default/log/server.log

where <path to appserver> is where JBoss is installed. By default, this is C:\dynix\appserver.

After JBoss restarts, if you get lots of errors that start with a lock file issue, see Lock File Issue on page 72 for information about how to fix the problem.

Configuring default displays

The install process adds two new displays to Horizon Information Portal, HzWs-bib and HzWs-item. These are used to map data from Horizon Information Portal to Web Services.
You may want to configure the displays through Horizon Information Portal to fit your library better or to make other adjustments.

Although you can customize the displays, you should not change the provided MARC map for displaying URLs in search results. You need to use the W859 map as provided.

If you make changes to the mapping, you may get Array out of bound exceptions when doing certain searches using Web Services.

To configure the default displays

1. Open the Horizon Information Portal admin console.
   By default, this is located at:
   http://libraryapps.example.org:222/sa_tools/admin
   Where libraryapps.example.org is your Horizon Information Portal server address and the port number is 222.

2. Go to the Customize options.

3. Click Searching.

4. Click Displays.

5. Click the name of the display that you want to edit. For example, HzWs-bib.

6. Configure the display as desired. See the Horizon Information Portal System Administration Guide for more instructions.

7. Click OK to save the changes.

Related topics

• Installing Web Services on page 9

Configuring Single Sign-On

Starting with Horizon Web Services 1.3, you can configure Web Services to use single sign-on for authentication.
If you want to do this, see *Configuring single sign-on* on page 24

**Verifying that Web Services is running**

After you install Web Services and start JBOSS, you can verify that Web Services is running by pointing a Web browser to the Web Services Admin console (see *Accessing the Admin console* on page 16) and logging in (see *Logging In* on page 18).

If Web Services is running and properly configured, ILS Connection Status displays “Connected” and you see version information for Web Services and for the ILS.

If you do not see the expected result, check *Troubleshooting* on page 67 for help with any errors that may have been logged.

Alternately, you can verify that Web Services is running by using a Web browser to send a version request to the URL for your service instance.

For example, if your JBOSS host name is *libraryapps.example.org*, and you used the default port, 80, and the default application name, *hzws*, the URL for a version request would be:

```
http://libraryapps.example.org/hzws/rest/standard/version
```

If Web Services is running and properly configured, the software returns an XML document with version information about Horizon and Web Services, for example:

```xml
<?xml version="1.0" encoding="UTF-8" standalone="yes"?>
<VersionResponse xmlns="http://schemas.sirsidynix.com/hzws/standard">
  <version>
    <product>HIP</product>
    <version>3.21.2_5332</version>
  </version>
  <version>
    <product>HzWs</product>
    <version>v1_2_5333</version>
  </version>
</VersionResponse>
```
If you do not see the expected result, see Troubleshooting on page 67 for help with any errors that may have been logged.

If you see version information for HzWs (Web Services) but not Horizon Information Portal, there is a problem with the connection to the Horizon Information Portal server.

Uninstalling Web Services

While you can delete the Web Services Admin, the database changes that were made during the install process will not be removed. This should not have any adverse affect on performance or upgrading, however.

To uninstall Web Services

1. Stop JBoss.
2. Delete the `hzws.ear` file from the deploy directory of the appserver.
3. Go to the conf directory of the appserver:
   ```
   <path to appserver>\jboss\server\default\conf
   ```
   where `<path to appserver>` is where JBoss is installed. By default, this is `C:\dynix\appserver`.
4. Delete the `hzws` folder.
5. Restart JBoss.
Chapter 3: Managing Web Services

You configure Web Services using a the Web Services Admin console described in these topics:

- **Using Web Services Admin** on page 15
- **Status** on page 24
- **ILS Configuration** on page 25
- **Client IDs** on page 31
- **Single Sign On Setup** on page 33
- **Change Password** on page 34
- **Library Directory** on page 36
- **Mapping search indexes** on page 37

**Using Web Services Admin**

The Horizon Web Services Admin console allows you to configure and manage an instance of Web Services.
For details, see these topics:

- **Accessing the Admin console** on page 16
- **Understanding the Admin console interface** on page 17
- **Logging In** on page 18
- **Logging Out** on page 19
- **Changing the admin password** on page 20
- **Changing the admin username** on page 21
- **Restoring access if you can’t log in** on page 21
- **Updating ILS configuration** on page 22
- **Managing client IDs** on page 23
- **Configuring single sign-on** on page 24

**Accessing the Admin console**

The Horizon Web Services Admin console is a Web application you can use from anywhere that you have access to the World Wide Web.

The URL for accessing the Admin console is

```
<service-instance>/admin
```

where `<service-instance>` is the base URL for an instance of Web Services.

For example, if your JBoss host name is `libraryapps.example.org`, and you used the default port, 80, and the default application name, `hzws`, the URL for the Admin console would be:

```
http://libraryapps.example.org/hzws/admin
```

Please be aware of these web browser minimum requirements:

- Microsoft Internet Explorer 7.0 or later
- Firefox 3.0 or later
- Safari 3.0 or later
As a Web application, the Admin console uses JavaScript, popups, and cookies for many features. If JavaScript, popups, or cookies are disabled or unsupported in your browser, some features will not work.

Related topics

- **Understanding the Admin console interface** on page 17
- **Logging In** on page 18
- **Logging Out** on page 19

**Understanding the Admin console interface**

Here is a sample of the Web Services Admin console interface with a description of some of the key features referred to in this guide.
Chapter 3: Managing Web Services

Navigation pane

When you log in to the Admin console, a navigation pane displays showing the options you can use. Just click on an option to view or configure settings.

Workspace

When you click an option in the navigation pane, the software displays additional settings or options. Use the buttons, controls, and form fields to view or modify settings.

Message bar

When you do an action in the Admin console, for example, saving configuration changes, the software displays a message to indicate success or failure. If the operation failed, the message may include information about the cause of the failure.

Help icon

A question mark icon indicates that there is help available. Click on the icon to open the online help and view information about the options you see.

Related topics

- Accessing the Admin console on page 16
- Using Web Services Admin on page 15

Logging In

You must log in to use the Web Services Admin console.

When you first install Web Services, the initial username and password are both “admin”. Be sure to change the password to prevent unauthorized access (see Changing the admin password on page 20). You may also change the username if you want to (see Changing the admin username on page 21).
Username and password are case-sensitive and must be typed exactly.

If you forget your username or password, see Restoring access if you can’t log in on page 21.

To log in to Admin console

1. Open the Log In page (see Accessing the Admin console on page 16).
2. Type the username and password.
3. Choose Log In.

If your username and password are correct, the software starts a new session for you and displays the Status page.

4. Be sure to log out when you are finished using the Admin console to prevent unauthorized access.

Related topics

- Accessing the Admin console on page 16
- Logging Out on page 19
- Changing the admin password on page 20
- Changing the admin username on page 21
- Restoring access if you can’t log in on page 21

Logging Out

For your security, if you don’t do anything in Admin console for some time, the server logs you out automatically. However, when you finish using the Admin console you should be sure to log out to prevent unauthorized changes.
Also, logging out using the Log Out option (instead of simply closing your browser) closes your session immediately, freeing up resources. If you just close your browser, the session remains open on the server until it times out.

Web Services uses the JBoss session timeout, which usually defaults to 30 minutes. If you want to change the JBoss session timeout or specify a timeout specific to a Web Services instance, refer to the JBoss documentation.

To log out of Admin console

➢ Click the Log Out option in the navigation pane.

  The software closes your session and confirms that you have been logged out.

Related topics

• Logging In on page 18
• Using Web Services Admin on page 15

Changing the admin password

You can change the Admin console password at any time. You must log in to the Admin console to change the password. To learn more, see Logging In on page 18.

To change the Admin console password

1  Log in to the Admin console if you haven’t already.

2  Click Change Password in the navigation pane.

3  Enter the current console password in Current Password.

4  Enter a new password in New Password.

5  Re-type the new password in Confirm New Password.

6  Click Save.

  If the current and new passwords are confirmed, the software saves your change and returns you to the Status page.
Related topics

- **Logging In** on page 18
- **Changing the admin username** on page 21
- **Restoring access if you can’t log in** on page 21

## Changing the admin username

You can change the Admin console username at any time. You must log in to the Admin console to change the username. To learn more, see **Logging In** on page 18.

### To change the Admin console username

1. Log in to the Admin console if you haven’t already.
2. Click **Change Password** in the navigation pane.
3. Enter the current console password in **Current Password**.
4. Enter a new username in **New Username**.
5. Click **Save**.

   If the current password is valid, the software saves the new username and returns you to the Status page.

### Related topics

- **Logging In** on page 18
- **Changing the admin password** on page 20
- **Restoring access if you can’t log in** on page 21

## Restoring access if you can’t log in

The username and password for the Admin console are stored in a file called `admin-settings.properties` in the Web Services instance, for example:
Chapter 3: Managing Web Services

<path to appserver>\jboss\server\default\conf\hzws\admin-settings.properties

where <path to appserver> is where JBoss is installed. By default, this is C:\dynix\appserver.

If you forget the username, you can simply look in this file to remind you. The password, however, is encrypted.

If you forget the password, you can delete the password in this file, save, and restart JBoss.

When you next log in to the Admin console and it detects that the password is missing, the software allows you to log in using the default password, “admin”. Be sure to change the password after you log in.

Related topics

• Logging In on page 18
• Changing the admin password on page 20
• Changing the admin username on page 21

Updating ILS configuration

If you make changes to the Horizon or Horizon Information Portal server or ILS login information, you may need to make corresponding changes to the ILS configuration in Web Services.

To update ILS configuration

1 Log in to the Admin console if you haven’t already.
2 Click ILS Configuration in the navigation pane.
3 Change settings as needed (see ILS Configuration on page 25 for details).
4 Click Save.
Chapter 3: Managing Web Services

The software validates the new values by trying to connect to the ILS using the new configuration. This process may take a moment. If the connection is successful, the new configuration is saved.

If the connection fails, verify that you have entered the data correctly.

Related topics
- Logging In on page 18
- ILS Configuration on page 25

Managing client IDs

Every request processed by Web Services requires a client ID. (The version operation is the only request that does not.) This allows you to limit access to your Web Services instance and, hence, your ILS data to only those clients using IDs you specify. Client requests that do not include a valid client ID are rejected.

For additional information, see Client IDs on page 31.

To manage client IDs

1 Choose Client IDs from the navigation pane.

   The software displays the list of currently configured IDs

2 To add a client ID, choose Add at the bottom-right of the list and provide the necessary information in the new row that appears. For more information on the fields, see Client IDs on page 31.

3 To edit an ID, simply make the changes in the text field or drop-down list.

4 To remove an ID, click the Remove button in the ID’s row.

5 Choose Save to save your changes.
Configuring single sign-on

Single sign-on allows you to take advantage of a Central Authentication Service (CAS) for authentication.

To configure single sign-on

1. Access the admin console (see Accessing the Admin console on page 16).
2. Click Single Sign On Setup in the navigation pane.
3. Click the Add URL button.
4. Enter the URL to use for CAS. For more information, see Single Sign On Setup on page 33.
5. Click Save.

Related topics

- Single Sign On Setup on page 33

Status

Path: Horizon Web Services > Status

The Status page displays information about the Web Services connection to the ILS and software versions.

The Status page includes these fields.

ILS Connection Status

 Displays the status of the Web Services connection to the ILS. If the connection is active, it displays “Connected”. 
If for some reason Web Services cannot connect, it will report “Offline”.

**Web Services Version**

Displays version information for the current Web Services instance.

**ILS Version**

Displays version information for the instance of the Horizon Information Portal and Horizon ILS that this Web Services instance is connected to.

This field will be blank if the connection status is Offline.

**Related topics**

- [Using Web Services Admin](#) on page 15
- [Logging In](#) on page 18
- [Understanding the Admin console interface](#) on page 17

**ILS Configuration**

**Path:**  Horizon Web Services > ILS Configuration

ILS Configuration lets you make changes to various Web Services configuration properties.

ILS Configuration includes these fields and buttons:

**Host**

Specifies the IP address or the host name of the Horizon Information Portal RMI server.

As long as Web Services has been installed on the same JBoss instance as Horizon Information Portal, this value can be localhost.

Host is required.
Chapter 3: Managing Web Services

If the value entered is not correct, the Web Services Admin console still displays, but the **ILS Connection Status** (see **Status on page 24**) shows as **Offline** and only the **Host** and **Port** fields display on this ILS Configuration page.

To locate the correct Host value, check your Matham table. This Host value is the same as Horizon client needs to connect to Horizon Information Portal.

**Port**

Specifies the RMI port number that the Horizon Information Portal listens on.

This must be a valid port number (between 1 and 65535).

The default value is **1099**.

If the value entered is not correct, the Web Services Admin console still displays, but the **ILS Connection Status** (see **Status on page 24**) shows as **Offline** and only the **Host** and **Port** fields display on this ILS Configuration page.

To verify that you are using the correct port, go to the `conf` directory:

```
<path to appserver>\jboss\server\default\conf\
```

where `<path to appserver>` is where JBoss is installed. By default, this is `C:\dynix\appserver`.

Open the `jboss-service.xml` file and locate the following code:

```
<mbean code="org.jboss.naming.NamingService"
   name="jboss:service=Naming"
   xmbean-dd="resource:xmdesc/NamingService-xmbean.xml">
```

Then, look for the `<attribute name="Port">` value. This is the port number that you should use to connect to the Horizon Information Portal RMI port.

**Port** is required.
Full View

Specifies the display to use for Full View. This display extracts the bib information from Horizon. The default display, HzWs-bib, extracts all bib information and was added to Horizon Information Portal during the install process.

You can select HzWs-bib or any display from the list.

Full View is required.

Item View

Specifies the display to use for Item View. This display extracts the item information from Horizon. The default display, HzWs-item, extracts all bib information and was added to Horizon Information Portal during the install process.

You can select HzWs-item or any display from the list.

Item View is required.

Profile

Specifies the profile for the system to default to when a search or login request by a client application is made without specifying a profile.

The BookMyne application always specifies a profile when it is required, so this setting has no effect on that client application. If you are only using BookMyne, you can leave this setting as blank.

Currency Code

Specifies the currency code to use for this instance of web services. This is used to return to Web Services clients that request fee information since fees are stored in Horizon as numbers without any specific associated currency.

Select from the list of ISO currency codes the value that matches the library’s base currency.

Web Services returns money data with a currency attribute. When a currency policy name is mapped to an ISO currency code, Web Services displays that currency code in the currency attribute:
Chapter 3: Managing Web Services

With an ISO 4217 currency code, a client application can accurately infer the appropriate number of decimals in the currency, the currency symbol, and exchange rates between currencies.

For example, if you a base currency value for pounds sterling in the United Kingdom, when you specify the ISO currency code of GBP, Web Services returns GBP in the currency attribute, for example:

\[ \text{<fine currency="GBP">3.00</fine>} \]

Save

Saves changes to ILS configuration.

Before saving, the software validates the new values by trying to connect to the ILS using the new configuration. This process make take a moment. If the connection is successful, the new configuration is saved and Web Services continues operation using the new properties.

If the connection fails, verify that you have entered the data correctly.

Reload

Reloads the current configuration values from the server without saving changes.

Related topics

- Using Web Services Admin on page 15
- Logging In on page 18
- Updating ILS configuration on page 22

Control Number Indexes

Path: Horizon Web Services > Control Number Indexes
The BookMyne and other SirsiDynix client applications can do barcode (UPC) scanning. Indexes added here are used by BookMyne when it does a barcode search. This is done by using “indexID=BMControl”.

**Available Indexes**

Lists the indexes that may be added to the list of Control Number Indexes.

Typically, you select the ISBN/ISSN exact match index. This index must be set up for a profile before it will display in this list.

If it is not set up for each profile that will be added to the library directory, no results will be returned from the client application. Additionally, if you specify a default limit when you set up this profile, no results will be returned.

For more information about indexes, see the *Horizon Information Portal System Administrator Guide*.

**Control Number Indexes**

Lists the indexes that will be used when the client application performs a control number search (such as a barcode search). Typically, you would add the ISBN/ISSN exact match index.

If the index is not set up for each profile that will be added to the library directory, no results will be returned from the client application. Additionally, if you specify a default limit when you set up this profile, no results will be returned. And finally, if you select an index that does not contain control number information, no results will be returned.

**Left/Right Arrow**

Use the arrows to move a selected index to or from the Control Number Indexes list.

**Save**

Saves changes to Control Number Indexes.
Chapter 3: Managing Web Services

Reload

Reloads the current configuration values from the server without saving changes.

Profile Settings

Path: Horizon Web Services > Profile Settings

This screen lists all the profiles defined for your Horizon Information Portal instance.

Click one of the profiles to see the values associated with the profile. See (Edit) Profile Settings on page 30.

(Edit) Profile Settings

Path: Horizon Web Services > Profile Settings > (profile)

The values given for the profile as used for auditing purposes. They help you track how the profile is being used. For example, the default value for User ID is User-HzWs. During auditing of received payments you would see that value and know that payment was received through Web Services.

The default values provided should be sufficient for most sites. However, you can change them if needed. You should understand how the value is used and the effect it will have on auditing before you attempt to change one.

Library Department

Specifies the value to use for Library Department with this profile. The default value is Dept-HzWs.

Workstation ID

Specifies the value to use for Workstation ID with this profile. The default value is Work-HzWs.
Cash Drawer ID

Specifies the value to use for Cash Drawer ID with this profile. The default value is Cash-HzWs.

User ID

Specifies the value to use for User ID with this profile. The default value is User-HzWs.

Save

Saves changes to the profile settings.

Reload

Reloads the current values from the server without saving changes.

Cancel

Returns to the main Profile Settings page without saving any changes for the profile values.

Client IDs

Path: Horizon Web Services > Client IDs

Client IDs are used to identify a particular client application. The client ID may be logged with every request received by Web Services (see requests log on page 68). If a request does not have a client ID or if the client ID value does not match the IDs you’ve specified, the request is rejected.

The Client IDs page lets you specify what client IDs are valid. You can add as many IDs as you need. It is recommended that you provide a unique ID for each client application you want to access your Web Services instance.

You will also need to include here the client IDs for any SirsiDynix applications that use Web Services to interact with your ILS (for example, SirsiDynix Enterprise or SirsiDynix BookMyne). Refer to the documentation for those products or contact Customer Support to learn those IDs.
Client IDs are case-sensitive, so be careful as you enter IDs.

The Client IDs page lists the client IDs you’ve specified. It includes these fields and buttons.

**Client ID**

Specifies a unique identifier for a client application.

Client ID values may include only letters, numbers, or underscore characters. Spaces or other punctuation are not allowed.

**Secret**

Specifies a string value to restrict certain requests. These requests must provide a valid Secret for the specified client ID as part of the request. Requests that currently require a secret are `emailMyPin`, `recordPayments`, and `createSelfRegisteredPatron`.

If you leave the secret blank, the calls that require the secret will not work. You can only assign one secret to each client ID, but you can have as many client IDs as you want.

The secret field allows for any characters. However, the use of special characters (such as & or ?) or spaces may break the functionality.

**Add**

Adds a blank text field where you can type a new client ID.

**Remove**

Removes a client ID and secret from the list.

**Save**

Saves changes to client IDs.

If you choose an option from the navigation pane before you choose Save, your changes will be discarded.

**Reload**

Reloads the current client IDs from the server without saving changes.
Single Sign On Setup

Path: Horizon Web Services > Single Sign On Setup

Single Sign On Setup allows you to manage your trusted CAS URLs.

Add URL

Opens the Create Single Sign On URL page. For details, see Create/Edit Single Sign On URL on page 34.

Trusted CAS URL

Displays each trusted CAS URL that may be used with Web Services.

Only the URLs listed in this table may be used for single sign-on authentication and with the loginUserCAS operation (for more information, see the Horizon Web Services References Guide).

Options

Displays an Edit button and a Delete button for each listed URL.

Click the Edit button to change the URL value. For more information, see Create/Edit Single Sign On URL on page 34.

Click the Delete button to remove the URL from the system.

Note: Deleting the URL happens immediately after clicking the Delete button; no warning message displays.

Related topics

- Configuring single sign-on on page 24
- Create/Edit Single Sign On URL on page 34
Create/Edit Single Sign On URL

**Path:** Horizon Web Services > Single Sign On Setup > Add URL (button)

**Path:** Horizon Web Services > Single Sign On Setup > Edit (button)

In order for single sign-on to work, you must add an appropriate trusted CAS URL.

**Property**
- Displays the Trusted CAS URL label.

**Value**
- Specifies the URL to use for CAS.
- The URL must use the SSL/TLS protocol and should be a fully qualified URL.

**Save**
- Saves any changes to the URL.

**Cancel**
- Returns to the previous page without saving any changes.

**Related topics**
- Configuring single sign-on on page 24
- Single Sign On Setup on page 33

Change Password

**Path:** Horizon Web Services > Change Password

Change Password lets you change the username and password for the Admin console.

Change Password includes these fields and buttons:
Current Password

Specifies the current password for the Admin console. This is the password you used to log in.

Current Password is required. You must enter the current password in order to change the username or password.

This field is masked.

Passwords are case-sensitive.

New Password

Specifies a new password for the Admin console.

There are no character limits on passwords, except that it must be at least one character (the password cannot be empty). For better security, of course, you should choose a password with some complexity (a mix of upper- and lowercase characters, numbers, symbols).

New Password is optional. If you want to change only the username, leave this field blank.

This field is masked.

Confirm New Password

Confirms that the new password was entered correctly. Retype the new password.

If the value of New Password and Confirm New Password don’t match exactly, the change will not be saved.

Confirm New Password is required if you type something in New Password.

This field is masked.

New Username

Specifies a new username for the Admin console.

There are currently no character limits on username.

New Username is optional. If you want to change only the password, leave this field blank.
Save

Saves your changes if the values you specified are valid. Otherwise, a message displays indicating that changes were not saved. After saving successfully, the software returns you to the Status page.

If you choose an option from the navigation pane before you choose Save, your changes will be discarded.

Related topics

- Logging In on page 18
- Changing the admin password on page 20
- Changing the admin username on page 21
- Restoring access if you can’t log in on page 21

Library Directory

With the release of Horizon Web Services, SirsiDynix has also launched a Library Directory service. This application, hosted by SirsiDynix, allows libraries that use Web Services to list their libraries. A listing includes library address, hours, images, geographical coordinates (for GPS enabled applications), and URLs for your website and your instance of Web Services. Client applications with access to the Library Directory, such as the SirsiDynix BookMyne application, can then locate your library and provide services to library patrons using your Web Services instance.

For information about creating and managing Library Directory listings, see Configuring Library Directory Listings on page 39.

The SirsiDynix BookMyne and Social Library applications are currently the only applications served by the Library Directory. If you don’t participate in the BookMyne or Social Library application partner program or if you don’t intend to support either application for your patrons, you do not need to configure Library Directory listings.
Mapping search indexes

Horizon Web Services uses the default search indexes that come with Horizon Information Portal. If you changed these defaults (for example, changing the Universal ID), searches through Web Services will not return any results.

Also, Web Services uses the GW (general keyword) as the default general keyword search when an application searches Web Services but does not specify an index. Change the mapping for the GW index if you want to use a different index as the default.

The BookMyne application always specifies the index to use, so any changes you make to the default search index will not affect the BookMyne application.

If you need to change the mapping of the search indexes, you must do so through a configuration file in Web Services.

You can change the mappings for hip.index.GW, hip.index.TW, hip.index.BAW, and hip.index.SW.

To change the index mapping

1. Open the hzws.properties file at the following location:
   
   <path to appserver>\jboss\server\default\conf\hzws
   
   where <path to appserver> is where JBoss is installed. By default, this is C:\dynix\appserver.

2. Add the line for the search index you want to change the mapping for.

   You only have to add the lines for the indexes where the Universal ID was altered (or to assign a different index to the search type).

   You can use one or more of these lines:

   hip.index.GW=<Universal ID for general keyword index>
   hip.index.TW=<Universal ID for title keyword index>
   hip.index.BAW=<Universal ID for author keyword index>
   hip.index.SW=<Universal ID for subject keyword index>
Chapter 3: Managing Web Services

Where $<Universal\ ID\ for\ ...\ >$ is the Universal ID for the search index to use for the specified type (GW, TW, BAW, or SW).

**Note:** The Universal ID is displayed in the Horizon Information Portal Admin. Go to Setup > Libraries > Indexes to view them.

3. Save the file.

4. Restart JBoss.
Chapter 4: Configuring Library Directory Listings

The purpose of the Library Directory is to allow you to create a site account on the Library Directory server in order to register your libraries and configure your settings for a SirsiDynix client application such as BookMyne. This service allows you to set up the ability to have patron searching from an application, provide physical location mapping and contact information, and specify enriched content accounts.

If you do not want to support SirsiDynix client applications, you do not need to configure a Library Directory account.

For details, see these topics:

- Overview of configuring Library Directory listings on page 39
- Working with a site account on page 40
- Working with listings on page 48

Overview of configuring Library Directory listings

The Library Directory is a centralized server that stores site information. This information is used by the server to present location and contact information to users. For example, a BookMyne user can search for libraries within a specified distance of their current location or see a map that shows the locations of all libraries with an account.

In order for a SirsiDynix client application such as BookMyne to connect through the Web Services to your Horizon ILS server, the appropriate Client ID must be defined. By default, Web Services includes the correct Client ID for the SirsiDynix client applications.
If you do not want to support SirsiDynix client applications through your Web Services instance, you should either not set up a site account or you should remove all listings associated with the site account.

If you delete the Client ID for a SirsiDynix client application, to get the value back, you must either have made a note of the value or you must contact your client support representative to get it.

Additionally, port 443 must be opened to allow outbound communications for the Library Directory server. If it is not, you will get an HTTP 500 Internal Server error when attempting to set up a Site Account.

To configure your site for the Library Directory, you must first create an account (see Creating or editing a site account on page 41), then specify search locations (see Creating or editing a listing on page 49) for users to access using a SirsiDynix client application.

Related topics
- Creating or editing a site account on page 41
- Working with a site account on page 40
- Working with listings on page 48

Working with a site account

To manage your Library Directory listings, you must create an account for the directory. A site account equates to a single Web Services instance.

If you want to just test Web Services, you should not create a Site Account at this time because the Site Account information and listings data you enter will be immediately available to any user of a SirsiDynix client application. If you want to test before going live, contact your SirsiDynix Customer Support representative for help.

There may also be times when you need to edit the account information or restore a connection to an existing Library Directory account.
For details, see these topics:

- **Creating or editing a site account** on page 41
- **Restoring connection to an existing account** on page 42
- **Fields: Site Account** on page 43
- **Fields: Restore Account** on page 47

### Creating or editing a site account

When you first access the Library Directory feature of the Web Services Admin console, you are asked to create an account. After you have created the account, the system allows you to come back and make changes to the site information as necessary.

**To create or edit a site account**

1. Select **Site Account** from the Library Directory navigation pane.
   
   When editing an existing account, all the fields (except the password fields) are filled in for you. When creating a new account, the fields are all blank.

2. Supply values for the appropriate fields. For more information, see **Fields: Site Account** on page 43.
   
   If you are editing an existing account, you do not need to type a value for New Password or Confirm Password unless you want to change the password.

3. Click **Save**.
   
   The page reloads and a message displays on the page indicating success or errors.
   
   If you click **Cancel** instead, the system takes you to the Restore Account page.

**Related topics**

- **Fields: Site Account** on page 43
- **Restoring connection to an existing account** on page 42
Chapter 4: Configuring Library Directory Listings

Restoring connection to an existing account

If the system cannot locate the server’s site description file, or if it is damaged, you can restore the account connection and have the system automatically recreate the site description file for the server.

To restore connection to an existing account

1. Select Site Account from the Library Directory navigation pane.
   The Create Account page displays.

2. Click the Restore link.
   The Restore Account page displays.

3. Enter your site name and password. For more information, see Fields: Restore Account on page 47.

   Note: If you have forgotten your password, you can click the Forgotten your password? link to have a new, random password sent to the email account associated with the entered site account.

4. Click OK.
   If the system is able to restore the connection, the Edit Account page displays. If there is a problem, the page reloads and a message displays on the page indicating the error or errors.

   If you click Cancel instead, the system takes you back to the Create Account page without restoring the connection.

Related topics

- Fields: Restore Account on page 47
- Creating or editing a site account on page 41

Fields: Site Account

Path: Library Directory > Site Account
When you first access the Library Directory feature of the Web Services Admin console, you are asked to create an account on this page. A site account equates to a single Web Services instance.

Any values you enter for the Site Account are accessible to the public through a web service call. Currently, BookMyne does not display this information to a user, but any person who makes the appropriate Web Service call can view the information.

You may also be asked to create an account if the server’s site description file is not found or is corrupted. If this is the case, you should restore the account connection rather than create a new account (for more information, see Restoring connection to an existing account on page 42). When you do this, the system will automatically recreate the site description file for the server.

After you have created the account or restored the account connection, the system displays the Edit Account version of this page.

Site Name

  Specifies the name of the site for the Library Directory.

  The name must be from 1 to 30 characters long, containing only UTF-8-compatible characters.

  The Site Name must be unique for the Library Directory. If you attempt to use a name that is already defined, you will get an error message.

  You should use a name you will remember easily because if you forget it, you must contact your customer support representative to retrieve it.

  This is a required field.

  You can change the Site Name you use by editing an existing account and changing this value.
Chapter 4: Configuring Library Directory Listings

**Note:** If you are using Firefox 3.5 or Chrome 3.0 and if you chose to have the web browser remember login credentials when you logged in to the Web Services Admin console, the name and password will automatically be used as the Site Name and Password. Therefore, you may need to change these values to the appropriate ones.

**New Password**

Specifies the password for the site account. This password is only for connecting to and authenticating with the Library Directory server.

It must be used in conjunction with and exactly match the value for the Confirm Password field.

For a new account, this field is required. For an existing account, this field is only required when changing the password.

The password must be from 1 to 30 characters long, containing only UTF-8-compatible characters.

You should use a password you will remember easily because if you forget it, you must contact your customer support representative to retrieve it.

**Note:** If you are using Firefox 3.5 or Chrome 3.0 and if you chose to have the web browser remember login credentials when you logged in to the Web Services Admin console, the name and password will automatically be used as the Site Name and Password. Therefore, you may need to change these values to the appropriate ones.

**Confirm New Password**

Specifies the password for the site. It must be used in conjunction with and exactly match the value for the New Password field.

For a new account, this field is required. For an existing account, this field is only required when changing the password.

The password must be from 1 to 30 characters long, containing only UTF-8-compatible characters.
Email

Specifies the email address for the site account. This email address is currently used by SirsiDynix to send system maintenance or problem information, and it is also used by the system to send password information when requested.

The value must be less than 80 characters and should be a valid email address.

This field is required.

Phone

Specifies a contact phone number for the site. This phone number is currently used by SirsiDynix to communicate problems with site accounts or other, similar, concerns.

You can specify the phone number in any format that you want. The phone number can have a maximum of 80 characters.

This field is required.

Horizon Web Services URL

Specifies the base URL of your Web Services instance.

This must be a publicly accessible, fully qualified URL, starting with http:// or https:// and including any needed port numbers.

By default, this will be something like the following:

http://MyLibrary.example.com/hzws/

Discovery Server URL

Specifies the base URL for your Discovery Web Services (part of your Enterprise or Portfolio installation).

This must be a publicly accessible, fully qualified URL, starting with http:// or https:// and including any needed port numbers.

The URL is the same one that you use to access your Enterprise or Portfolio instance. It is the Discovery Client URL, minus the /client/<profileName> part. For example, http://mylibrary.ent.sirsi.net.
You should only type a value for this field if you have a Discovery Server up and running for your library.

When you specify the connection to your Discovery Server, applications that connect to the Library Directory, such as the BookMyne application, can provide fuzzy matching of search terms, relevance sorting of results, and additional searchable content to patrons. BookMyne supports PDFs, Library Favorites, DiXML, and Rooms content.

If you specify a Discovery Web Services URL, you must also select the appropriate Discovery profile to use for library listings. For information on configuring library listings, see Creating or editing a listing on page 49.

Save

Specifies that the system should attempt to create or update the site account information on the Library Directory server.

If successful, the page reloads and displays a success message on the page.

If the attempt fails, the page reloads and displays an error message on the page indicating the cause of the failure. No changes are saved.

Cancel

This button only displays when you are creating a new account.

Clicking this button takes you to the Restore Account page and does not save any changed values.

Revert

This button only displays when you are editing an existing account.

Clicking this button removes any unsaved changes and sets the values of all fields to the last saved value for that field.

Related topics

• Creating or editing a site account on page 41
**Fields: Restore Account**

**Path:** Library Directory > Site Account > Restore

The Restore Account page allows you to specify the name and password of a site on the Library Directory server. Typically, you only need to restore an account if the system file becomes damaged or deleted. Restoring the account recreates the system file so that you do not need to log in again the next time you access the Library Directory from the Web Services Admin console.

**Site Name**

Specifies the name of the site to use.

If you have forgotten the site name, you must contact your customer support representative to recover it.

**Note:** If you are using Firefox 3.5 or Chrome 3.0 and if you chose to have the web browser remember login credentials when you logged in to the Web Services Admin console, the name and password will automatically be used as the Site Name and Password. Therefore, you may need to change these values to the appropriate ones.

**Password**

Specifies the password associated with the site.

If you have forgotten the password, enter the Site Name that you want, and then click the “Forgot your password?” link. When you do this, the system will assign a new, random password to the site account and send it to the email address associated with the Site Name you entered. After you log in with the password, SirsiDynix recommends that you change the password. For information on changing passwords, see **Creating or editing a site account** on page 41.

If you do not know the Site Name or the email address the password will be sent to, you must contact your customer support representative. Your representative is only able to get Site Name and email address information for an account.
Note: If you are using Firefox 3.5 or Chrome 3.0 and if you chose to have the web browser remember login credentials when you logged in to the Web Services Admin console, the name and password will automatically be used as the Site Name and Password. Therefore, you may need to change these values to the appropriate ones.

OK

Click OK to restore the account.

If the site name is not found or the password does not match, the page reloads and displays the error message on the page.

Cancel

Click Cancel to return to the Create Account page without restoring the account connection.

Related topics

- Restoring connection to an existing account on page 42

Working with listings

Each listing in the Library Directory for your site account defines a place with a physical location that you want users to be able to search or access account information for.

If you want to just test Web Services, you should not create a Site Account or Listings at this time because the Site Account information and listings data you enter will be immediately available to any user of a SirsiDynix client application. If you want to test before going live, contact your SirsiDynix Customer Support representative for help.

For details, see these topics:

- Viewing listings on page 49
- Creating or editing a listing on page 49
- Deleting a listing on page 50
- Fields: Listings on page 51
Chapter 4: Configuring Library Directory Listings

Viewing listings

Each site account has zero or more listings associated with it. Each listing corresponds to a place with a physical address.

**To view listings**

1. Select **Listings** from the Library Directory navigation pane.

   The Listings page displays.

2. Each listing displays as a row in the listing table.

   The table shows the listing name, associated policy name, URL, whether the listing is searchable for users of a SirsiDynix client application, and a couple administrative options.

   From here, you can create a new listing, delete a listing, edit a listing, and view a listing’s web page.

Related topics

- **Creating or editing a listing** on page 49
- **Fields: Listings** on page 51
- **Deleting a listing** on page 50

Creating or editing a listing

In order for a user to search or use a SirsiDynix client application such as BookMyne, you must add one or more listings to your site account. Each listing corresponds to a place with a physical address. Each listing contains information about the place’s location, contact details, required login prompts, searching, and display images.

**To create or edit a listing**

1. Select **Listings** from the Library Directory navigation pane.

   The Listings page displays.

2. To create a new listing, click the **Create Listing** button.
Chapter 4: Configuring Library Directory Listings

To edit an existing listing, click the name of the listing.

3 Enter or update the necessary information for the listing. For more information about each field, see Fields: Create/Edit Listing on page 52.

4 Click Create (for new listings) or Save (for existing listings) to keep the changes and display a success message at the top of the page.

If there are any errors, the Create (or Edit) page re-displays and includes an error message on the page.

Related topics
- Viewing listings on page 49
- Fields: Listings on page 51
- Deleting a listing on page 50

Deleting a listing

You can remove a listing from the site account. When you remove a listing, it is removed from the mobile device when the user next tries to get an updated list of libraries (typically, when the user starts the application). After it is deleted, users are no longer able to search against it and it is removed from their My Libraries list, and Nearby libraries.

If you delete a listing while a user has a SirsiDynix client application open, the user may get error messages about failed connections until the user restarts the application.

To delete a listing

1 Select Listings from the Library Directory navigation pane.

   The Listings page displays.

2 For the listing you want to delete, click the Delete link in that row.

   A confirmation prompt displays, asking whether you want to remove the listing.
3 Select Yes to delete the listing, or Cancel to return to the Listings page without deleting the listing.

Related topics

- **Fields: Listings** on page 51
- **Creating or editing a listing** on page 49
- **Viewing listings** on page 49

**Fields: Listings**

**Path:** Library Directory > Listings

The Listings page displays a table of all the defined listings for the site account. Each listing corresponds to a place with a physical address. You can only create one listing for each library policy specified on the ILS server.

**Create Listing**

This button allows you to add a listing to the table. Clicking this button takes you to the Create Listing page.

When you have created one listing for each location on your ILS system, the system replaces this button with a message saying that there are no more policies to associate with a listing.

**Listings table**

This table displays information about each listing and allows you to manage each one.

The table contains the following columns:

<table>
<thead>
<tr>
<th>Column</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Name</td>
<td>Displays the name of the listing. The name is a link that allows you to edit the listing.</td>
</tr>
<tr>
<td>Policy Name</td>
<td>Displays the name of the library policy associated with the listing.</td>
</tr>
</tbody>
</table>
Chapter 4: Configuring Library Directory Listings

### Column | Description
--- | ---
Public URL | Displays the publicly available URL associated with the listing. Clicking the link opens the URL in a new browser window or tab. If no URL is defined, “missing URL” displays instead.

Searchable | Displays whether the listing is searchable for SirsiDynix client application users. Yes indicates that the listing is searchable, while No indicates that users cannot search against it. Non-searching listings do not appear for users when searching for or adding libraries.

Options | Displays options for working with the listing. The options are the following:
- Delete - Asks you to confirm whether you want to delete the listing. Choosing Yes deletes the listing and all its information from the Library Directory.

**Related topics**
- [Viewing listings](#) on page 49
- [Deleting a listing](#) on page 50
- [Fields: Create/Edit Listing](#) on page 52

**Fields: Create/Edit Listing**

**Path:** Library Directory > Listings > Create Listing

**Path:** Library Directory > Listings > name

Each listing corresponds to a place with a physical address. The Create Listing or Edit Listing page helps you to define the settings for a listing.

When you choose to edit a listing, the current listing’s information displays in each field. When you create a new listing, the fields are blank or set to their default value.
Chapter 4: Configuring Library Directory Listings

Name

Displays the name of the listing that you are editing. This field is only visible when editing a listing.

Location

This section contains all the fields related to the listing’s location and contact information.

Name

Allows you to specify the displayed name for the library location. You can use any name that you want to display for users.

When you create a new listing, you can leave this field blank to have the system automatically name the listing using the description of the Location (everything after the colon).

However, the Name value is not dynamically updated if the Location policy description is later changed in the Horizon client.

The value can have a maximum of 80 characters, containing only UTF-8-compatible characters.

Location

Allows you to select the name of the location to use for the listing from a drop-down list. This list only shows the Locations defined on the ILS that have not been used for an existing listing.

You can only have as many or fewer listings as you have library locations defined on the ILS.

This selection determines allowed delivery methods.

Note: Although the selection you make determines the allowed delivery methods, the Library Directory admin does not restrict selections. Therefore, before setting up delivery methods, make sure you know what methods are allowed.
Address 1

Specifies the first address line for the listing. This address may be visible to users of a SirsiDynix client application, such as in the details page for the BookMyne application. It will also be used by the system to determine location for the global map unless you also specify a Latitude and Longitude.

The value must be from 1 to 255 characters long, containing only UTF-8-compatible characters.

This is a required field.

Address 2

Specifies the second address line for the listing, if necessary. This address may be visible to users of a SirsiDynix client application, such as in the details page for the BookMyne application. It will also be used by the system to determine location for the global map unless you also specify a Latitude and Longitude.

The value can have a maximum of 255 characters, containing only UTF-8-compatible characters.

Address 3

Specifies the third address line for the listing, if necessary. This address may be visible to users of a SirsiDynix client application, such as in the details page for the BookMyne application. It will also be used by the system to determine location for the global map unless you also specify a Latitude and Longitude.

The value can have a maximum of 255 characters, containing only UTF-8-compatible characters.

City

Specifies the city name where the listing is located. This may be visible to users of a SirsiDynix client application, such as in the details page for the BookMyne application. It will also be used by the system to determine location for the global map unless you also specify a Latitude and Longitude.

The value must be from 1 to 255 characters long, containing only UTF-8-compatible characters.
This is a required field.

**State or Province**

Specifies the state or province where the listing is located. This may be visible to users of a SirsiDynix client application, such as in the details page for the BookMyne application. It will also be used by the system to determine location for the global map unless you also specify a Latitude and Longitude.

You can spell out the name or use an appropriate, standard abbreviation.

The value must be from 1 to 255 characters long, containing only UTF-8-compatible characters.

**Zip/Postal Code**

Specifies the postal code, if any, for the listing. It will also be used by the system to determine location for the global map unless you also specify a Latitude and Longitude.

The value can have a maximum of 255 characters, containing only UTF-8-compatible characters.

**Country**

Allows you to select the country for the listing from an ISO 3166 list of countries. This may be visible to users of a SirsiDynix client application, such as in the details page for the BookMyne application.

It will also be used by the system to determine location for the global map unless you also specify a Latitude and Longitude.

The default selection is **United States**.

**Phone**

Specifies the phone number that may be visible to users of a SirsiDynix client application, such as in the Library details page for the BookMyne application.

The value can have a maximum of 80 characters, containing only UTF-8-compatible characters.
Chapter 4: Configuring Library Directory Listings

**Email**

Specifies the email address that may be visible to users of a SirsiDynix client application, such as in the Library details page for the BookMyne application so the user knows how to contact that listing location.

The value can have a maximum of 80 characters, containing only UTF-8-compatible characters.

**Hours of Service**

Allows you to specify the days and hours of operation. You can use any format for displaying this information in the text box. For BookMyne, this value displays on the Library details page.

The information you enter is best kept to the 40 character width and three line length of the text box, so that it displays properly on the BookMyne application. If you go over these limits, the information is likely to get cut off. Other SirsiDynix client applications may allow for different formatting of this field.

The value can contain up to 255 UTF-8-compatible characters.

Additionally, at the end of each line of text, be sure to press Enter to go to the next line or the application displays the two lines as one single line.

For example, you could type:

- **M-F: 9am-9pm**
- **Sat: 10am-1pm**
- **Sun: Closed**

**Website Address**

Specifies a fully-qualified, public URL for the location. This URL displays for the user and allows the user to browse to the website from their Internet-enabled mobile device. The link opens in the user’s default mobile browser.

Enter the URL as an exact string value. The system does not do any automatic URL-encoding for you.

The value can have a maximum of 255 characters, containing only UTF-8-compatible characters. It must start with `http://` or `https://`. 
Latitude

Specifies the latitude value of the listing’s location.

Leave this field blank to have the system automatically calculate the latitude location based on the address information.

If the system is not able to auto-populate the Latitude, the system uses a value of 0.0 and a message displays on the page that describes why there was a problem.

Specify a Latitude if you want the value to be exact or if the system does not correctly identify the latitude from the address information.

After saving the listing, you should check the map to verify the location by clicking the Show in map link.

The Latitude value must be specified in decimal degrees in the range from -90.0 to 90.0. When you have values in the Latitude and Longitude fields, click the Show in map link to open Google Maps in a new browser window so you can check the coordinates and see where the location will display for users of a SirsiDynix client application such as BookMyne.

Latitude is the value that specifies the location relative to the equator. It will be a positive number for a location north of the equator and a negative number for south of it (a location at the equator would be 0 degrees latitude).

The numeric value can have a maximum of 80 characters, containing an optional negative sign (-), numbers, and a decimal point.

Longitude

Specifies the longitude value of the listing’s location.

Leave this field blank to have the system automatically calculate the longitude location based on the address information.

If the system is not able to auto-populate the Longitude, the system uses a value of 0.0 and a message displays on the page that describes why there was a problem.
Specify a Longitude if you want the value to be exact or if the system does not correctly identify the longitude from the address information.

After saving the listing, you should check the map to verify the location by clicking the Show in map link.

The Longitude value must be specified in decimal degrees in the range from -180.0 to 180.0. When you have values in the Latitude and Longitude fields, click the Show in map link to open Google Maps in a new browser window so you can check the coordinates and see where the location will display for users of a SirsiDynix client application such as BookMyne.

Longitude is the value that specifies the location relative to the prime meridian. It is a positive number for a location east of the prime meridian (defined to be at the Royal Observatory, Greenwich, in England), such as in Europe and Asia, and a negative number west of it, such as in North and South America.

The numeric value can have a maximum of 80 characters, containing an optional negative sign (-), numbers, and a decimal point.

Images

This section contains the fields related to library images.

Logo

Specifies the logo image to use for the listing. For BookMyne, the logo appears on the Libraries screen and on the global map for that library.

Click the field or Browse to open a File Upload dialog box where you can navigate your computer and select the logo image you want by selecting the image and then clicking Open.
When the setting is saved, the system copies the image file to `<path to appserver>\jboss\server\default\conf\hzws` where `<path to appserver>` is where JBoss is installed. By default, this is `C:\dynix\appserver` and the Horizon Web Services server uses a public URL to reference the file.

If you select an image file with the same name as another image file already in the images folder, the system overwrites the current image with the new one. Therefore, you must use unique file names for each image if you do not want to overwrite existing image files.

The URL will be stored with the listing information at the Library Directory server, and displays beneath the Logo field. The image also displays to the right of the field.

Select the Remove Logo check box and Save the changes to remove the logo from the listing. This does not remove the image from the Horizon Web Services server.

The image should be a PNG, JPG, or JPEG file. The system automatically scales the image to the appropriate size for the mobile device. The recommended resolution is 64 x 64. The maximum size of the file is 0.5 MB.

If you do not specify a specific logo, the system uses a default image.

The value can have a maximum of 80 characters, containing only UTF-8-compatible characters.

**Picture**

Specifies the picture image to use for the listing. This image displays as the background for the library details page in the BookMyne mobile application.

Click the field or click Browse to open a File Upload dialog box where you can navigate your computer folder structure and select the image you want by selecting the image and then clicking Open.
When the setting is saved, the system copies the image file to `<path to appserver>\jboss\server\default\conf\hzws` (where `<path to appserver>` is where JBoss is installed. By default, this is `C:\dynix\appserver`) and the Horizon Web Services server uses a public URL to reference the file.

If you select an image file with the same name as another image file already in the images folder, the system overwrites the current image with the new one. Therefore, you must use unique file names for each image if you do not want to overwrite existing image files.

The URL will be stored with the listing information at the Library Directory server, and displays beneath the Picture field in BookMyne. The image also displays to the right of the field.

Select the Remove Picture check box and Save the changes to remove the picture from the listing. This does not remove the image from the Horizon Web Services server.

The image should be a PNG, JPG, or JPEG file. The system automatically scales the image to the appropriate size for the mobile device. The recommended resolution is 320 x 366. The maximum size of the file is 0.5 MB.

If you do not specify a specific picture, the system uses a default image.

The value can have a maximum of 80 characters, containing only UTF-8-compatible characters.

**Configuration Options**

This section provides options for configuring features that users see in a SirsiDynix client application.

**Display Holds Queue**

Specifies whether SirsiDynix client application users can view their place in the Holds queue. For BookMyne, this feature displays in the user’s My Account area.

Select the box to allow users to see the information, or clear the box if you do not want patrons to see the Holds queue information.
If your holds and availability settings may cause patrons to be skipped over for filling a hold or otherwise pushed down the Holds queue, you probably do not want to display the Holds queue for the user. Also, if you have turned off this feature for Horizon Information Portal, you probably want to have it off here as well.

**Allow PIN Change**

Specifies whether SirsiDynix client application users are allowed to change their PIN through the application. In BookMyne, users access this feature from the My Account screen.

Select the box to allow users to change their own PIN, or clear the box to remove the feature from the application.

If you generate your own PINs or have special formatting for PINs, you may want to disable this feature by clearing the checkbox.

If you enable this feature, you will need to provide patrons with any requirements regarding length or characters for the PIN; this information does not display in BookMyne. However, if the user enters a PIN that is not valid based on the PIN policies, the user sees an error message after submitting the request.

**Holds Enabled**

Specifies whether to enable holds for this library listing. Select the checkbox to allow patrons using clients like BookMyne or Social Library to send hold requests.

The default selection is to have hold requests enabled.

**Suggested Reading Enabled**

Specifies whether to enable the Suggested Reading feature in a SirsiDynix client application.
For BookMyne, the Suggested Reading feature allows patrons to browse for books and get reading suggestions. The feature shows books for specific awards (such as Pulitzer Prize or Newberry award) as defined by Goodreads, bestseller lists from the New York Times, or reading lists of a patron's Goodreads friends (they must have and log in to a Goodreads account through BookMyne to access this feature).

To enable the Suggested Reading feature, select the checkbox. The default selection is to have the feature enabled.

**My List Enabled**

Specifies whether to enable the use of My List features in a client application such as BookMyne. My List allows patrons to save one or more lists of titles, such as one or more titles from a search results list.

The default selection is to have the My Lists feature enabled.

**Search**

**Searchable**

Allows you to specify whether SirsiDynix client application users can locate or add the listing to their My Libraries list, or search the listing.

For BookMyne, checking the box indicates that the listing appears on the Libraries map, in Nearby, and on the user’s My Libraries list. After the user adds a library to their list, they can search through the listing.

The default selection is for the listing to be searchable.

When checked, Search Filter is a required field.

**HIP Profile**

Allows you to select the Horizon Information Portal profile to use for this listing for default search limit, login credentials, and displayed patron information.
Chapter 4: Configuring Library Directory Listings

This list is generated from the existing profiles defined in Horizon Information Portal. The field always displays. If you want to use a Discovery Server for searching, you must still specify a value here to be used for login credentials and displaying patron information. For information on configuring the Discovery Profile, see Discovery Profile on page 64.

The Horizon Information Portal (HIP) Profile uses location to limit the library locations that the patron searches.

You may want to specify a profile that matches the value you selected for the Location field so that the user can search and place holds without problems.

This setting has no effect unless Searchable is selected as well.

**Bowker Syndetics Account ID**

Specifies your Bowker Syndetics client code for more extensive enriched content.

Specifying the account ID allows a summary, table of contents, and reviews to display for matching items.

If you are also connecting this listing to a Discovery Profile and that profile has an associated Bowker Syndetics Account, you must also include the Account ID here in order for the enriched content to display for BookMyne and other web service applications. If you do not have the association created in the Discovery profile, you can do so in this listing without causing problems in Discovery.

This is an optional field. It can have a maximum of 80 characters, containing only UTF-8-compatible characters.

**Novelist Account ID**

Specifies your NoveList customer ID for enriched content.

Specifying the ID and Password allows similar author, similar title, and related article information to display on the item details page.

This is an optional field. It can have a maximum of 80 characters, containing only UTF-8-compatible characters.
Novelist Account Password

Specifies your NoveList customer password for enriched content.

Specifying the ID and Password allows similar author, similar title, and related article information to display on the item details page.

This is an optional field. It can have a maximum of 80 characters, containing only UTF-8-compatible characters.

Discovery Profile

Allows you to specify the search profile to use for sites that are configured to connect to a SirsiDynix Symphony Discovery Server. For more information on configuring the connection, see Creating or editing a site account on page 41.

You should specify an existing Discovery profile that works with the value you selected for the Location field so that the user can search and place holds without problems. Search targets for a good profile should be limited to PDFs, DiXML, Rooms, Library Favorites, and records from the ILS that this instance of Horizon Web Services points to.

This setting has no effect unless Searchable is selected as well.

Patron Authentication

This section contains the fields related to the number and labels for the user login page.

Number of Credentials

Allows you to select the number of login prompt fields to display for the user.

The default selection is 2.

You can also select to display just 1 login prompt field. Typically, you would specify to only have one login prompt field if your system does not require a PIN for a user account. For example, this would be the case when only using group or library IDs for logging in. It may also be the case if the PIN is a blank or empty value for your users.
Chapter 4: Configuring Library Directory Listings

The fields display when the user attempts to place a hold or view account information.

**User ID or Alternate ID Label**

Specifies the label to display for the first login prompt field, whether it is the User ID or Alternate ID. If 1 was selected for Number of Credentials, this is the only prompt field. If 2 was selected, this is the first field. Make sure to match the value requirements from the ILS to the labels you use.

The label must be from 1 to 30 characters long, containing only UTF-8-compatible characters.

This is a required field.

**PIN Label**

Specifies the label to display for the second login prompt field, the PIN. Make sure to match the value requirements from the ILS to the labels you use.

Web Services does not support systems that require a password instead of a PIN.

The label must be from 1 to 30 characters long, containing only UTF-8-compatible characters.

This is a required field if Number of Credentials is set to 2.

**Create/Save**

When you are adding a new listing, the Create button displays. When you are editing an existing listing, the Save button displays.

Click Create to create the listing or Save to update the values for an existing listing.

If there is a problem saving, the page reloads and the error message displays on the page. No settings are saved until the error condition is fixed and the save is successful.

If the save is successful, a success message displays at the top of the page.
Chapter 4: Configuring Library Directory Listings

Cancel

Click Cancel to return the fields to their previously-saved values and to return to the Listings view.

Related topics

- Working with listings on page 48
- Creating or editing a listing on page 49
- Fields: Listings on page 51
Chapter 5: Troubleshooting

This section provides information about where to look for logs to detect problems you may encounter running Web Services. It also provides troubleshooting tips for common errors.

- Web Services logging on page 67
- Troubleshooting tips on page 69

Web Services logging

Errors encountered while starting and running Web Services are recorded in log files. These logs can be helpful in detecting and diagnosing problems. For information about some specific errors, see Troubleshooting tips on page 69.

The following logs are used for Web Services:

- JBoss logs
- requests log

JBoss logs

Errors encountered while starting and using Web Services are logged in the standard JBoss log file. By default, JBoss logs are created in the logs directory for your JBoss installation, for example:

<path to appserver>/jboss/server/default/log/server.log

where <path to appserver> is where JBoss is installed. By default, this is C:\dynix\appserver.
requests log

Each request received by Web Services may be logged to a requests log in the JBoss conf directory.

The format of entries in this log may change in future revisions.

Requests logging is disabled by default. To enable requests logging, you must modify jboss-log4j.xml in the Web Services conf directory.

Changes you make to jboss-log4j.xml are not persistent across upgrades. If you enable request logging and later upgrade your instance of Web Services, you will need to restore changes after upgrade.

To turn on request logging in jboss-log4j.xml

1  Open <path to appserver>/jboss/server/default/conf/jboss-log4j.xml in a text editor (where <path to appserver> is where JBoss is installed. By default, this is C:\dynix\appserver).

2  Add the following to the file:

```xml
<!-- =========================================================================== -->
<!-- Append messages to request.log -->
<!-- =========================================================================== -->
<appender name="REQUEST" class="org.apache.log4j.RollingFileAppender">
  <param name="File" value="${jboss.server.log.dir}/hzws-request.log"/>
  <param name="Append" value="true"/>
  <param name="MaxFileSize" value="10000KB"/>
  <param name="MaxBackupIndex" value="3"/>
  <layout class="org.apache.log4j.PatternLayout">
    <param name="ConversionPattern" value="&quot;%d{ISO8601}&quot;, %m%n"/>
  </layout>
</appender>
<logger name="com.sirsidynix.hzws.protocol.rest.handlers.HeaderHandler" additivity="false">
  <level value="DEBUG"/>
  <appender-ref ref="REQUEST"/>
</logger>

3  Save changes.
4  Restart JBoss.

**Troubleshooting tips**

This section describes some of the error messages you may encounter while using Web Services. Errors are recorded in various Web Services logs (see *Web Services logging* on page 67). Specific errors include:

- **listenerStart error**
- **Connection refused - Cannot connect to host**
- **Initializing session manager failed**
- **Context initialization failed**
- **BeanCreationException: Error creating bean**
- **Lock File Issue**
- **No search results**

**listenerStart error**

This startup error indicates a JAXB incompatibility. The service will fail to start.

**Cause**

This error is commonly caused by using an earlier version of the JAXB API. JAXB 2.1 is required.

**Action**

Make sure you are using the correct Java version, JDK 1.6.x starting with 1.6.0_11.

**Connection refused - Cannot connect to host**

This startup error indicates a problem with the connection to the ILS.
Chapter 5: Troubleshooting

**Cause**

The ILS server or Horizon Information Portal RMI server is not available.

The connection information for the Horizon Information Portal RMI host or port is invalid or you need to supply a user name and password.

**Action**

Verify that the host name or IP address and port for the Horizon Information Portal RMI server are correct (see ILS Configuration on page 25).

Make sure the Horizon Information Portal RMI server and ILS are running.

If the problem is with the user name and password, contact your Customer Support Representative to get instructions.

**Initializing session manager failed**

This startup error indicates a problem establishing a session with the Horizon Information Portal RMI server.

**Cause**

Web Services is unable to establish a connection with the ILS.

**Action**

Verify that the host name or IP address and port for the Horizon Information Portal RMI server are correct (see ILS Configuration on page 25).

Make sure the Horizon Information Portal RMI server and ILS are running.
**Context initialization failed**

This startup error typically indicates a Java incompatibility.

**Cause**

This error is commonly caused by using an earlier version of the JDK. JDK 1.6.x (starting with 1.6.0_11) is required.

**Action**

Make sure you are using the correct Java version, JDK 1.6.x starting with 1.6.0_11.

**See also**

BeanCreationException: Error creating bean on page 71

**BeanCreationException: Error creating bean**

This startup error indicates a Java incompatibility or configuration error.

**Cause**

You are using an earlier version of the JDK. JDK 1.6.x (starting with 1.6.0_11) is required.

Required configuration values, such as host or port, are missing.

**Action**

Make sure you are using the correct Java version, JDK 1.6.x starting with 1.6.0_11.

Verify that the host name or IP address and port for the Horizon Information Portal RMI server are correct (see ILS Configuration on page 25).
Chapter 5: Troubleshooting

Lock File Issue

This error indicates that antivirus software interfered with the shutdown of JBoss.

Cause

Antivirus software interfered with the shutdown of JBoss and some files are still locked.

Action

Close down JBoss and make sure the Java process has been killed.
Delete the following folder:

<path to appserver>\jboss\server\default\data\hypersonic

where <path to appserver> is where JBoss is installed. By default, this is C:\dynix\appserver.

Restart JBoss.

No search results

If your initial searches using Horizon Web Services do not return any results, the search indexes may not be configured correctly.

Cause

The Horizon Information Portal search index Universal IDs were changed from the defaults.

Action

Open the hzws.properties file at the following location:

<path to appserver>\jboss\server\default\conf\hzws

where <path to appserver> is where JBoss is installed. By default, this is C:\dynix\appserver.
Add one or more of the following lines to point to the Universal ID of the search index you want to use:

\[
\begin{align*}
\text{hip.index.GW}<\text{Universal ID for general keyword index}> \\
\text{hip.index.TW}<\text{Universal ID for title keyword index}> \\
\text{hip.index.BAW}<\text{Universal ID for author keyword index}> \\
\text{hip.index.SW}<\text{Universal ID for subject keyword index}>
\end{align*}
\]

You only have to add the lines for the indexes where the Universal ID was altered (or to assign a different index to the search type).

For other information about this, see Mapping search indexes on page 37.
Chapter 5: Troubleshooting
Chapter 6: Using HTML Help

The HTML Setup Guide for Horizon Web Services provides instructions and reference information to help you make the most of the software. For an overview of the content and conventions in this guide, see About this guide on page vii.

You can access the HTML help by clicking the question mark icon in the Web Services Admin console (see Understanding the Admin console interface on page 17).

Once the help is open, you can find help topics by using the Contents, Index, and Search features. You can move back and forth between help topics by using the browse buttons or by following links. Once you’ve found the help you need, you can print or bookmark topics for later reference.

For more information, see these topics:

- HTML help features on page 75
- Finding specific information on page 77
- Moving between help topics on page 80
- Printing a topic on page 81
- Bookmarking a topic on page 81

HTML help features

The guide is designed to help you find what you need quickly. Topics are brief and include references to related topics if you want to learn more.
Each topic displays in a content pane with a toolbar at the top for additional help features. A navigation pane lets you browse the contents of the guide, find topics using the index, or search for specific information.

**Toolbar**

The help toolbar includes these buttons.

<table>
<thead>
<tr>
<th>Button</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><img src="image" alt="Next" /></td>
<td><strong>Next</strong> Displays the next topic in contents order. This button is inactive when you are viewing the last topic in the guide.</td>
</tr>
<tr>
<td><img src="image" alt="Previous" /></td>
<td><strong>Previous</strong> Displays the previous topic in contents order. This button is inactive when you are viewing the first topic in the guide.</td>
</tr>
<tr>
<td><img src="image" alt="Show in Contents" /></td>
<td><strong>Show in Contents</strong> As you browse topics or follow links, this button lets you find the current topic in the contents. This button does not appear if the navigation pane is hidden.</td>
</tr>
</tbody>
</table>
Chapter 6: Using HTML Help

Finding specific information

Use Contents, Index, or Search to find specific information. You can also open specific topics using context options in the software.
Chapter 6: Using HTML Help

For details, see these topics:

- **Using contents** on page 78
- **Using the index** on page 78
- **Searching for help topics** on page 79

### Using contents

The HTML guide includes a contents list to help you quickly navigate to specific topics in the guide.

**To display a topic using the table of contents**

1. Click **Contents**. (If you don’t see the Contents feature, click the Show Navigation button to display the navigation pane.)
2. Click the icons beside an item to expand or collapse that item.
3. Click an item to view that topic.
4. As you browse topics and follow links, click the **Show in Contents** button to see where the current topic appears in the table of contents.

### Related topics

- **Using the index** on page 78
- **Searching for help topics** on page 79
- **HTML help features** on page 75

### Using the index

The index in the HTML guide is very like an index in a book.

**To find information using the index**

1. Click **Index**. (If you don’t see the Index feature, click the Show Navigation button to display the navigation pane.)

The software displays the index with index groups at the top for quick access.
2 Click an index group to view that group of terms. For example, click M to view the words in the index that begin with the letter “M”.

3 Click an index term to view the topic or topics for that term.

4 If more than one topic fits that term, the software displays a list of matching topics. Click an item in the list to view the topic.

Related topics
- Using contents on page 78
- Searching for help topics on page 79
- HTML help features on page 75

Searching for help topics

If you can’t find what you need using the contents or index, you can search for words using the Search feature.

The Search feature of the HTML guide returns results ranked by relevance. The ranking considers frequency (the number of times the words appear in a topic), proximity (how close the words are, when you use more than one word), and importance (if the words appear in topic headings, for example).

When you enter more than one word, all the words you enter must appear in a topic to be considered a match. If you don’t get any results, try removing some words.

Common words (such as “and”, “for”, “that”, and so on) are ignored when you search.

To search for help topics

1 Click Search. (If you don’t see the Search feature, click the Show Navigation button to display the navigation pane.)

2 Enter one or more words to search for.

3 Choose Go.
Chapter 6: Using HTML Help

The software returns a relevance-ranked list of topics matching the words you entered.

4 Click an item in the list to view that topic.

Related topics
- Using contents on page 78
- Using the index on page 78
- HTML help features on page 75

Moving between help topics

You can move from one topic to another by using the browse buttons in the toolbar or by clicking on links you see.

As you browse topics and follow links, click the Show in Contents button to see where the current topic appears in the table of contents. If you don’t see the Contents feature, click the Show Navigation button to display the navigation pane.

To move to the next or previous topic in sequence

1 To display the next topic in the guide, click the Next button in the toolbar.

2 To display the previous topic in the guide, click the Previous button in the toolbar.

To display linked topics

1 Click a linked topic.

2 Right-click and choose Back or use your browser’s Back button to return to a topic you were viewing before following a link.
Related topics
- HTML help features on page 75
- Finding specific information on page 77
- Printing a topic on page 81
- Bookmarking a topic on page 81
- Displaying the navigation pane on page 82

Printing a topic

The Print option lets you print the current topic, without printing the toolbar and navigation pane.

To print a single topic
1. Open the topic you want to print.
2. Click the Print button \( \text{Print button} \) in the toolbar.

Related topics
- HTML help features on page 75
- Finding specific information on page 77
- Bookmarking a topic on page 81

Bookmarking a topic

If there is a particular topic that you refer to often, you can bookmark it for quick reference.

To bookmark a topic in Firefox
1. Locate the topic you want to bookmark.
2. With the topic displayed, click the Bookmark button \( \text{Bookmark button} \) in the help toolbar.

The software displays a new window with a link for this topic.
Chapter 6: Using HTML Help

3 Right-click the link and choose **Bookmark This Link** from the menu that appears.

4 If you want to, specify a location for the bookmark.

5 Choose **OK**.

**To bookmark a topic in Internet Explorer**

1 Locate the topic you want to bookmark.

2 With the topic displayed, right-click anywhere in the content pane (see **HTML help features** on page 75).

3 Choose **Add to Favorites** from the menu that appears.

4 If you want to, specify a location for the bookmark.

5 Choose **OK**.

**Related topics**

- **HTML help features** on page 75
- **Finding specific information** on page 77
- **Printing a topic** on page 81

**Displaying the navigation pane**

Depending on how you open the HTML guide, the navigation pane may be hidden. When the navigation pane is hidden, you will see the Show Navigation button in the help toolbar in place of the Show in Contents button.

**To display the navigation pane.**

➢ Click the Show Navigation button.

**Related topics**

- **HTML help features** on page 75
- **Finding specific information** on page 77
- **Moving between help topics** on page 80
Index

A
account
  create 41
  edit 40, 41, 43
  fields 43
  restore 40, 42, 47
  site 39, 40, 41, 43
address 1 54
address 2 54
address 3 54
Admin console
  accessing 16, 21
  changing password 20
  changing username 21
  help 18
  logging in 18
  logging out 19
  message bar 18
  navigation pane 18
requirements 16
  restoring access 21
status 24
  understanding 17
  using 15
  workspace 18
allow PIN change 61
alternate ID (listing) 64
applications, mobile 39
B
BeanCreationException error 71
Bowker Syndetics Account ID 63
Browse button 58, 59
browser requirements 16
buttons
  Browse 58, 59
C
CAS 12, 24, 33, 34
change
  PIN 61
city 54
client IDs 31
  iPhone 39
  managing 23
configuring
  Horizon Information Portal 11
  Library Directory 39
  single sign-on 12, 24
  views 11
  Web Services 11, 15
confirm new password (Library Directory) 44
collections
  configuring 22, 25
  connection refused error 69
  status 24
content, NoveList 63, 64
content, Syndetics 63
contents pane, using 78
context initialization error 71
cookies 17
country 55
create
  listing 49
  site account 41, 43
credentials 64
currency code 27

D
default views
  configuring 11
degrees
  latitude 57
  longitude 57
delete listing 50
Discovery profile 64
Discovery Server URL (Library Directory) 45
display
  Full View 27
  Item View 27
display holds queue 60

E
edit
  listing 49
  site account 41, 43
e-mail 45, 56
enriched content, enable 63, 64
error
  search results 37, 72
errors
  antivirus 72
  BeanCreationException 71
  connection refused 69
  context initialization failed 71
  initializing session manager failed 70
  listenerStart 69
  Lock File 72
F
fields
  Address 1 54
  Address 2 54
  Address 3 54
  Allow PIN Change 61
  Bowker Syndetics Account ID 63
  City 54
  Client ID 32
  Confirm New Password (Admin console) 35
  Confirm New Password (Library Directory) 44
  Country 55
  Credential 1 Label 65
  Credential 2 Label 65
  Currency Code 27
  Current Password (Admin console) 35
  Discovery Profile 64
  Discovery Server URL 45
  Display Holds Queue 60
  Email 45, 56
  Full View 27
  HIP Profile 62
  Holds Enabled 61
  Horizon Web Services URL 45
  Host 25
  Hours of Service 56
  ILS Connection Status 24
  ILS Version 25
  Item View 27
  Latitude 57
  Location 53
  Logo 58
  Longitude 57
  My List Enabled 62
  Name (listing) 53
  New Password (Admin console) 35
  New Password (Library Directory) 44
  New Username (Admin console) 35
  NoveList Account ID 63
  NoveList Account Password 64
  Number of Credentials 64
  Phone 45, 55
  Picture 59
  Port 26
  Profile 27
  Remove Logo 58
  Remove Picture 59
  Site Name 43, 47
  State or Province 55
Suggested Reading Enabled 61
Web Services Version 25
Website Address 56
Zip/Postal Code 55
file, site description 42
Full View 27

G
getting started 1
graphics
  logo 58
  picture 59

H
help
  about vii
  bookmarking a topic 81
  contents 78
  features 75
  finding information 77
  index 78
  navigation 80
  opening 18
  printing a topic 81
  searching 79
  toolbar 76
  using 75

Holds
  display 60
  enable 61

Horizon Information Portal
  configuration 11
  host 25

Horizon Web Services URL (Library Directory) 45

hours of service 56

I
ILS
  configuration 22, 25
  connection status 24
  version info 25

images
  logo 58
  picture 59
  upload 58, 59

index
  search 37, 72
initializing session manager error 70
installation
  getting started 8
  overview 7
  troubleshooting 11
  uninstall 14
  verifying 13
iPhone application 39
Item View 27

J
Java requirements 4
JavaScript 17
JBoss
  session timeout 20
JBoss log 67

L
latitude 57
Library Directory 36
  configuring 39
  create or edit listing 52
  listing 39
  listings 51
  overview 39
  restoring an account 47
  server 39
  site account 39, 40, 41
  working with listings 48
listenerStart error 69
listing
  create 49, 52
  delete 50
  edit 49, 52
Library Directory 39
managing 51
name 53
overview 48
Index

- view 51
- location 53
  - determine 54
  - mapping 39
- Lock File error 72
- logging 67
  - JBoss 67
  - requests 68
- logging in 18
- logging out 19
- login prompts (mobile app) 64
- logo (library listing) 58
- longitude 57

- M
  - message bar 18
  - mobile application 39
  - My List 62

- N
  - name (listing) 53
  - navigation pane, defined 18
  - new password (Library Directory) 44
  - NoveList Account ID 63
  - NoveList Account Password 64
  - NoveList, enable 63, 64
  - Number of Credentials 64

- O
  - OpenSearch
    - configuring 45, 64
  - operating systems 4
  - operation hours 56

- P
  - password 34
    - changing 20
      - Library Directory 44
      - lost (Library Directory) 44
      - lost (Web Services) 21
  - phone 45, 55
  - picture (library listing) 59
  - PIN
    - allow change 61
    - PIN (library listing) 64
  - port 26
  - postal code 55
  - profile 27
    - Horizon Information Portal 62
  - profile settings 30
  - province 55

- R
  - requests, log 68
  - requirements
    - Admin console 16
    - browser 16
    - software 16
    - system 3
  - restoring a site account 40, 47
  - RMI
    - port 26

- S
  - search pane, using 79
  - search profile 64
  - search results
    - error 37, 72
    - none 37, 72
  - Server
    - logging 67
  - server
    - centralized 39
    - host 25
      - Library Directory 39
    - port 26
      - site description file 42
  - sessions
    - timeout 19
  - single sign-on 12, 24, 33, 34
  - site account, restoring 47
  - site description file 42
  - site name 43, 47
  - software requirements 16
  - SSO 12, 24, 33, 34
  - state or province 55
  - status (Web Services) 24
  - suggested reading 61
Symphony Web Services
about 1
Admin console 15
base URL 16
client IDs 23, 31
configuration 22, 25
installing 7
logging 67
managing 15
profile settings 30
requirements 3
runtime status 24
supported operating systems 4
uninstalling 14
version info 25
Syndetics, enable 63
system requirements 3, 16
T
timeouts
  session 19
Tomcat
  requirements 4
troubleshooting 67
  Admin console access 21
  installation 11
tips 69
U
uninstall Web Services 14
Universal ID
  changed 37, 72
upload images 59
upload, images 58
user ID (listing) 64
username
  changing 21
  lost 21
V
version info 25
View
  configuring 11
W
Web Services
  configuration 11
Web services resources 4
website address (listing) 56
workspace, defined 18
Z
Zip/Postal Code 55