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Welcome

This guide is written for administrative users who are responsible for managing SharePoint Console content in the portal.

This guide describes how to perform initial and ongoing SharePoint Console administrative tasks. When you first install SharePoint Console, you can use this guide to perform the following setup tasks:

1. Create and configure content sources.
2. Create and configure content crawlers.

When you have completed your initial SharePoint Console installation, you can use this guide as a reference for tasks that you repeat or tasks that do not apply during initial installation but might apply later when you extend your base SharePoint Console installation.
Typographical Conventions

This book uses the following typographical conventions.

<table>
<thead>
<tr>
<th>Convention</th>
<th>Typeface</th>
<th>Examples/Notes</th>
</tr>
</thead>
</table>
| • Items you need to take action on (such as files or screen elements) | **bold** | • Upload Procedures.doc to the portal.  
• To save your changes, click **Apply Changes**. |
| • User-defined variables | *italic* | • The migration package file is located in install_dir/serverpackages.  
• Portlets are Web tools embedded in your portal.  
• The URI must be a unique number.  
• The example Knowledge Directory displayed in Figure 5 shows the Human Resources folder. |
| • Text you enter | computer | • Type Marketing as the name of your community.  
• This script may generate the following error: ORA-00942 table or view does not exist  
• Example:  
<setting name="SSOCookieIsSecure">  
<value xsi:type="xsd:integer">0</value>  
</setting> |
| • Environment variables | ALL_CAPS | • The default location of BEA_HOME is C:\bea. |

BEA Documentation and Resources

This section describes other documentation and resources provided by BEA.

<table>
<thead>
<tr>
<th>Resource</th>
<th>Description</th>
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| Installation and Upgrade Guide | This guide describes the prerequisites (such as required software) and procedures for installing or upgrading AquaLogic Interaction SharePoint Console.  
It is available on edocs.bea.com/alui/ali/docs61. |
<table>
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<tr>
<th>Resource</th>
<th>Description</th>
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</thead>
<tbody>
<tr>
<td>Release Notes</td>
<td>The release notes provide information about new features, issues addressed, and known issues in the release. They are available on <a href="http://edocs.bea.com/alui/ali/docs61">edocs.bea.com/alui/ali/docs61</a> and on any physical media provided for delivering the application.</td>
</tr>
<tr>
<td>Online Help</td>
<td>The online help is written for all levels of SharePoint Console users. It describes the user interface for SharePoint Console and gives detailed instructions for completing tasks in SharePoint Console. To access online help, click the help icon.</td>
</tr>
<tr>
<td>Deployment Guide</td>
<td>This guide is written for business analysts and system administrators. It describes how to plan your AquaLogic User Interaction deployment. It is available on <a href="http://edocs.bea.com/alui/deployment/index.html">edocs.bea.com/alui/deployment/index.html</a>.</td>
</tr>
<tr>
<td>Developer Guides, Articles, API Documentation, Blogs, Newsgroups, and Sample Code</td>
<td>These resources are provided for developers on the BEA dev2dev site (dev2dev.bea.com). They describe how to build custom applications using AquaLogic User Interaction and how to customize AquaLogic User Interaction products and features.</td>
</tr>
</tbody>
</table>
The ALUI and ALBPM Support Center is a comprehensive repository for technical information on ALUI and ALBPM products. From the Support Center, you can access products and documentation, search knowledge base articles, read the latest news and information, participate in a support community, get training, and find tools to meet most of your ALUI and ALBPM-related needs. The Support Center encompasses the following communities:

**Technical Support**
Submit online service requests, check the status of your requests, search the knowledge base, access documentation, and download maintenance packs and hotfixes.

**User Group**
Participate in user groups; view webinars, presentations, the CustomerConnection newsletter, and the Upcoming Events calendar.

**Product Center**
Download product updates, maintenance packs, and patches; view the Product Interoperability matrix (supported third-party products and interoperability between products).

**Developer Center**
Download developer tools, view code samples, access technical articles, and participate in discussions.

**Education Services**
Review the available education options, then choose courses by role and delivery method (Live Studio, Public Classroom Training, Remote Classroom, Private Training, or Self-Paced eLearning).

**Profile Center**
Manage your implementation details, local user accounts, subscriptions, and more.

If you do not see the Support Center when you log in to http://support.plumtree.com, contact ALUISupport@bea.com or ALBPMsupport@bea.com for the appropriate access privileges.

<table>
<thead>
<tr>
<th>Resource</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>AquaLogic User Interaction (ALUI) and AquaLogic Business Process Management (ALBPM) Support Center</td>
<td>The ALUI and ALBPM Support Center is a comprehensive repository for technical information on ALUI and ALBPM products. From the Support Center, you can access products and documentation, search knowledge base articles, read the latest news and information, participate in a support community, get training, and find tools to meet most of your ALUI and ALBPM-related needs. The Support Center encompasses the following communities: <strong>Technical Support</strong> Submit online service requests, check the status of your requests, search the knowledge base, access documentation, and download maintenance packs and hotfixes. <strong>User Group</strong> Participate in user groups; view webinars, presentations, the CustomerConnection newsletter, and the Upcoming Events calendar. <strong>Product Center</strong> Download product updates, maintenance packs, and patches; view the Product Interoperability matrix (supported third-party products and interoperability between products). <strong>Developer Center</strong> Download developer tools, view code samples, access technical articles, and participate in discussions. <strong>Education Services</strong> Review the available education options, then choose courses by role and delivery method (Live Studio, Public Classroom Training, Remote Classroom, Private Training, or Self-Paced eLearning). <strong>Profile Center</strong> Manage your implementation details, local user accounts, subscriptions, and more. If you do not see the Support Center when you log in to <a href="http://support.plumtree.com">http://support.plumtree.com</a>, contact <a href="mailto:ALUISupport@bea.com">ALUISupport@bea.com</a> or <a href="mailto:ALBPMsupport@bea.com">ALBPMsupport@bea.com</a> for the appropriate access privileges.</td>
</tr>
</tbody>
</table>
If you cannot resolve an issue using the above resources, BEA Technical Support is happy to assist. Our staff is available 24 hours a day, 7 days a week to handle all your technical support needs.

E-mail: ALUIsupport@bea.com
Phone Numbers:
U.S.A. +1 866.262.PLUM (7586) or +1 415.263.1696
Europe +44 1494 559127
Australia/NZ +61 2.9923.4030
Korea +82 27676 888
Singapore +1 800.1811.202

<table>
<thead>
<tr>
<th>Resource</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Technical Support</td>
<td>If you cannot resolve an issue using the above resources, BEA Technical Support is happy to assist. Our staff is available 24 hours a day, 7 days a week to handle all your technical support needs. E-mail: <a href="mailto:ALUIsupport@bea.com">ALUIsupport@bea.com</a> Phone Numbers: U.S.A. +1 866.262.PLUM (7586) or +1 415.263.1696 Europe +44 1494 559127 Australia/NZ +61 2.9923.4030 Korea +82 27676 888 Singapore +1 800.1811.202</td>
</tr>
</tbody>
</table>
Welcome
This chapter discusses how to use SharePoint Console to crawl and index SharePoint items within your portal. This is accomplished by creating the following objects within the portal:

1. One or more content sources using the SharePoint CWS Web service.
2. One or more crawlers using your created content source.
3. One or more jobs to run the crawlers.

**Introduction**

SharePoint Console allows you to crawl and index items from a Microsoft Office SharePoint Server (MOSS) or Windows SharePoint Services (WSS) site or site collection. It also allows you to crawl a list of MOSS or WSS sites specified by an RSS feed. Crawling SharePoint items into your portal requires the configuration of a content source, a crawler, and a job. Depending on your needs, more than one content source and/or crawlers may need to be created.

A SharePoint content source is configured with authentication information and default clickthrough behavior. The authentication information is the Windows credentials necessary to access the desired SharePoint site or site collection. If multiple sites are accessible with the same authentication credentials, only one SharePoint content source is required. If sites require different authenticating credentials, create a SharePoint content source for each set of credentials.

Each SharePoint content source can have one or more SharePoint crawlers associated with it. A SharePoint crawler describes which SharePoint site or site collection is to be crawled, what to...
Crawling and Indexing SharePoint Items

...crawl on that SharePoint site, and where the crawled items should be put. Note that the crawler does not import the SharePoint items themselves, but rather indexes them within the portal.

Creating a SharePoint Content Source

SharePoint Console comes with a default content source, SharePoint Content Source, that can be updated with your MOSS or WSS information. To create a SharePoint content source:

1. In portal Administration, go to the folder where you want to create the SharePoint content source.
2. From the Create Object… drop-down, select Content Source - Remote.
3. In the Choose Web Service dialog box, select the SharePoint CWS Web Service and click OK.
4. In the URL Type section, select Does not use the Gateway to open documents.
   Caution: The portal cannot gateway SharePoint documents. The gateway interferes with authentication and WebDAV features of SharePoint.
5. Under SharePoint User Settings, enter the login information for a user that has access to all of the SharePoint content that you wish to crawl into the portal. If the crawler will use a site feed, the user must have access to each of the sites specified by the site feed.

When the crawler accesses the desired SharePoint site, it will run as this user. The user must have the following rights on the site:

- Microsoft Office SharePoint Server 2007: Browse Directories, Manage Lists, Use Remote Interfaces
- Windows SharePoint Services 2.0: Browse Directories, Manage List Permissions
- Windows SharePoint Services 3.0: Browse Directories, Manage Lists, Use Remote Interfaces

To crawl Form Template folders in MOSS 2007 and WSS 3.0, the View Application Pages and View Versions rights are also required.

Note: The authentication information configured in the content source is used only by the crawler. These credentials will not be passed to the SharePoint site when a user clicks on an item in the portal. Authentication of the user to access that item is handled by MOSS or WSS.

6. Choose Document Clickthrough Settings from the menu on the left.
Select the radio button next to the default clickthrough behavior you would like for SharePoint documents. Clicking on a SharePoint document can either open the document directly, or take the user to the SharePoint properties page for that document. This setting affects clickthrough behavior in the Knowledge Directory, general search results, the Most Recently Used SharePoint Items portlet, and the default mode of the SharePoint Search portlet. When the Most Recently Used SharePoint Items portlet is used in a community, community preferences can be used to change the clickthrough behavior.

**Note:** This setting only affects documents. All other SharePoint items open their default display page which is the properties page.

7. Click **Finish** to name and save the content source.

**Creating SharePoint Crawlers**

Once you have created one or more SharePoint content sources, you can create SharePoint crawlers:

1. In portal Administration, go to a folder where you want to create the SharePoint crawler.
2. From the Create Object… drop-down, select **Content Crawler – Remote**.
3. In the Choose Content Source dialog box, select the content source you created.
4. On the **Main Settings** page, configure the SharePoint Console crawler settings:

<table>
<thead>
<tr>
<th>Setting</th>
<th>Description</th>
</tr>
</thead>
</table>
| SharePoint Site              | Select **Site URL** to crawl a SharePoint site or site collection. Type the URL of the site that you wish to crawl and click **Validate**. This URL should end in “/”.  
  - The crawler will validate that the URL entered is a valid SharePoint site or site collection and display the name of the starting subsite. If the URL entered does not end in “/” but a valid site collection can be extracted from the URL, the crawler will discard any extraneous trailing information from the URL and update the URL shown in the UI accordingly.  
  - The subsite name may be listed as “/” if the starting site is the root site of the site collection itself. If the starting SharePoint URL points to a subsite of the site collection, the subsite will be listed.  
Select **Feed** to crawl a list of WSS sites specified by an RSS feed. Type the path to the site feed.  
  - The path must return a valid RSS 2.0 document. For more information about crawling RSS feeds, see “Crawling RSS Site Feeds” on page 2-6. |
5. On the **List Settings** page, check the box next to each type of SharePoint item you want to crawl. To crawl documents attached to attached to the list items, select **Crawl documents attached to list items**.

6. On the **Document Settings** page, specify how documents should be expired and refreshed when you run the crawler.

   You can use the **Document Expiration** settings, along with the select **Apply these settings to existing documents created by this crawler** option, to delete all documents previously crawled by this crawler.

   For more information about the Document Settings page, see the AquaLogic Interaction online help.

7. On the **Content Type** page, specify how content types should be assigned to the documents imported into the Knowledge Directory.
Crawling and Indexing SharePoint Items

For more information about content types, see the Administrator Guide for AquaLogic Interaction or the AquaLogic Interaction online help.

8. On the Advanced Settings page, select settings for content language, handling of documents rejected by the crawler, handling of documents previously crawled into the Knowledge Directory, and runtime configuration. The settings available here will vary depending on whether or not you chose to mirror the source folder structure.

For more information about advanced crawler settings, see the AquaLogic Interaction online help.

9. On the Set Job page, assign or create a job to run this crawler.

You must also register the administrative folder that contains the job with the Automation Service.

For more information about setting up crawler jobs, see the Administrator Guide for the AquaLogic Interaction or the AquaLogic Interaction online help.

Crawling RSS Site Feeds

In addition to crawling SharePoint sites and site collections, SharePoint content crawlers can also be used to import content from a list of sites provided by an RSS feed.

The path to a site feed can be a URL (http://, file:///), a local file path on the SharePoint Console machine (c:\feed.xml), or a UNC file path on the SharePoint Console network (\server\feeds\feed.xml). Secured sites (https://) and FTP sites (ftp://) cannot be crawled.

The SharePoint Console installer creates a virtual directory named SiteFeed that can be used to deploy a simple RSS feed. For example, you can put a well-formed, valid XML feed document or an .aspx file that generates a site feed into the sitefeed folder on the file system and then access it via HTTP.

The site feed document should conform to the RSS 2.0 specification. The link element of each item must contain the URL to a valid SharePoint site. The title element of an item is optional. If provided, it should be a valid Knowledge Directory folder name, as it will be used as the Knowledge Directory folder name for the site for a mirroring crawl. If the title element is omitted, the folder name will be retrieve from the SharePoint site for a mirroring crawl.
Example site feed document:

```xml
<?xml version="1.0" encoding="utf-8" ?>
<rss version="2.0">
  <channel>
    <title>SharePoint Site List</title>
    <link>http://mySPServer:17938/sites/MainSiteCollection</link>
    <item>
      <title>MOSS TeamSite at mySPServer:17938/sites/MainSiteCollection</title>
      <link>http://mySPServer:17938/sites/MainSiteCollection</link>
    </item>
    <item>
      <link>http://SharePointServer:9167</link>
    </item>
  </channel>
</rss>
```
Crawling and Indexing SharePoint Items
CHAPTER 3

Representing SharePoint Items in the Portal

SharePoint items crawled into the portal are represented as standard portal folders and documents, and can be viewed and accessed like any other document that has been imported into the portal. The SharePoint crawler does apply some special properties to SharePoint items to help differentiate them from other items.

SharePoint Site Structure and Portal Knowledge

Directory Folders

Assume your SharePoint site is structured as depicted below. In addition to the subsites represented by each node, each site by default also contains announcements, discussions, documents, events, and tasks.

```
WSS Server
  - SharePoint Console
  - SharePoint Crawler
  - SharePoint Search
    - SharePoint MRU
```
If the crawler was set to mirror folder structure of the SharePoint site, the items will be imported as shown:

Each SharePoint site is represented as a folder with the prefix [Site], differentiating folders representing SharePoint sites from folders representing SharePoint list types. Each [Site] folder contains subfolders for each list type found on that SharePoint site. For example, all documents in the SharePoint Crawler site are located in the Shared Documents folder under the [Site] SharePoint Crawler site folder.

If the crawler is configured not to mirror the source folder structure, all of the items will be stored in the same folder. SharePoint site or list item type subfolders will not be created.

**SharePoint Items and Portal Documents**

In addition to crawling in document properties, the SharePoint crawler adds special SharePoint specific properties to SharePoint content crawled into the portal. This facilitates searching for SharePoint items in the portal. The properties added are:

- **WSS Document URL** – The URL of the item in the SharePoint site.
- **WSS Icon** – Used to display appropriate SharePoint icon in the portal.
- **WSS Last Modified** – The date and time the SharePoint item was last modified in SharePoint.
- **WSS Object Type** – The type of SharePoint item represented by this document.
- **WSS Property Page URL** – The URL of the properties page of the item in the SharePoint site. This value is the same as the WSS Document URL for all SharePoint items except for documents.
- **WSS Site** – The name of the host SharePoint site.
Accessing SharePoint Items and the SharePoint Console

SharePoint items crawled into the portal can be accessed using standard portal methods, such as browsing the knowledge directory or using search. If a user runs a general search in the portal, they will see SharePoint items along with results from other sources.

The SharePoint Console is provided to allow users to run simple searches that return only SharePoint items.

### SharePoint Console

The SharePoint Console is a community that contains portlets to search and access SharePoint items. It is meant as a starting point to access SharePoint resources; however, the SharePoint Console portlets are not bound to the console community. The portlets can be used in any community or user My Page.

The SharePoint Console community can be customized like any other portal community.

### SharePoint Search Portlet

The SharePoint Search portlet allows users to enter a search term and returns the results in the portlet body itself.

- The portlet displays 10 results at a time.
- The icon to the far left identifies the type of SharePoint item that is returned.
- The Name column displays the name of the document as stored in the portal.
Accessing SharePoint Items and the SharePoint Console

- The Site column displays the SharePoint site where the source item is stored.

- The details icon always points to the properties page of the SharePoint item regardless of the click-through setting of the associated content source or portlet itself.

- The Next>> link at the bottom right pages to the next 10 results.

Opening SharePoint Items Through the Portlet

When users click on the name of a SharePoint item in the portlet, the SharePoint item is opened using the WSS Document URL property. How the SharePoint item is finally displayed is controlled by MOSS or WSS and not the portal. Security is also handled by the interaction of the browser and MOSS or WSS and is not controlled by the portal or portlet.

**Note:** This portlet does not follow the Document Display Options setting in My Account -> Display Options. This is to mimic the behavior of WSS and MOSS more closely.

SharePoint Search Portlet and Overriding Click-through Options

If the SharePoint Search portlet is accessed through a community, the portlet can be configured to override the clickthrough behavior specified in the SharePoint content source and set by the crawler. This can be set in the portlet’s community preferences.

Since this a community preference, the setting can be different for each community where this portlet is used. This setting only applies when the portlet is accessed from a community: if the portlet is on a My Page, it will follow the setting on the documents’ content source.

Customizing the SharePoint Search Portlet

The SharePoint Search portlet is essentially a pre-concerted advanced search portlet that allows end users to specify the actual search term. These search settings can be configured via the administrative preferences of the SharePoint Search portlet. The search settings can be modified to meet the specific needs of the deployment.

While most of the criteria that can be specified are the same as in an advanced search, the default WSS Site criteria is special to this portlet. The criteria “WSS Site Contains Text” indicates that only items where the value WSS Site is not blank are returned. The SharePoint crawler automatically populates the WSS Site property during import. Non-SharePoint items will not have the WSS Site value populated. If this criteria is removed, searches from this portlet will return non-SharePoint items as well.
Results can be narrowed even further by adding criteria such as WSS Object Type. For example, if the criteria “WSS Object Type Contains Document” is added, only SharePoint documents will be returned.

Administrative preferences are specific to an instance of a portlet, and can be different for different copies of the portlet. For example, if there are five copies of the portlet object, they can all be configured to search based on different criteria.

**Most Recently Used SharePoint Items Portlet (MRU)**

The Most Recently Used SharePoint Items portlet displays the last ten items that were accessed by a specific user through all SharePoint Search portlets or the MRU portlet itself. The last item accessed will be placed at the top of the list. The portlet displays the last ten items accessed by the current user, not by all users who access SharePoint items through the portal.

- The portlet displays the last ten items accessed.
- The icon to the far left identifies the type of SharePoint item that was accessed.
- The Name column displays the name of the document as stored in the portal.
- The Site column displays the SharePoint site where the source item is stored.
- The details icon always points to the properties page of the SharePoint item regardless of the click-through setting of the associated content source or portlet itself.

Clickthrough behavior is determined by the content source. The clickthrough behavior override settings of the SharePoint Search portlet do not apply to the MRU portlet.

**Note:** This portlet does not follow the Document Display Options setting in My Account -> Display Options. This is to mimic the behavior of WSS and MOSS more closely.

Even though there can be more than one SharePoint Search portlet, there should only be one MRU portlet. The MRU portlet will display the last items accessed by a user from all SharePoint Search portlets.
Accessing SharePoint Items and the SharePoint Console
Opening SharePoint Console Documents

The portal allows the clickthrough behavior for SharePoint documents to be either directly to the document itself or to the properties page of the document.

The default clickthrough behavior of SharePoint content sources is to open the SharePoint item’s properties page. The properties page gives the end user more information and functions than opening the document directly. The SharePoint properties page gives access to the following options:

- The document can be opened and edited by clicking on the Name link.
- The document properties can be edited, the document deleted, discussion can be started, etc.
- Version information is displayed, for example user, time, and so on.
- The WSS Site and the folder that the document is located is displayed.
- The URL to go directly to the document is available in the address bar of the browser.

The drawback to clicking through to this page is that it requires an extra click by the end user to view the document.

The benefit to opening the document directly on clickthrough from the SharePoint Search or MRU portlet is that documents are displayed immediately. The drawback is that it is more difficult to determine where the document is located (which folder in which site) or perform the actions available from the properties page.

A compromise could be to set the SharePoint content source to open to the properties page and set SharePoint Search portlets to open documents directly. This allows users to access SharePoint
items from the Knowledge Directory or general search and still get the necessary SharePoint object information. Users who access the document from the SharePoint Search portlet open the document directly and can access the properties by clicking the details icon on the portlet results.
Customizing the UI of the SharePoint Console Portlets

The UI of the SharePoint Console portlets can be controlled by a custom stylesheet that is loaded with the banner in the SharePoint Console. The styles that control the portlets are:

```css
/* column controls */
.MRUIconColumn {width: 25px;}
.MRUNameColumn {width: 70%;}
.MRUSiteColumn {width: 30%}
.MRUPropColumn {width: 20px;}

.SearchIconColumn {width: 25px;}
.SearchNameColumn {width: 70%;}
.SearchSiteColumn {width: 30%}
.SearchPropColumn {width: 20px;}
```

While it is not possible to add new columns, it is possible to remove columns by changing the styles. For example, to remove the “Site” column, replace the value `{width: 30%}` to `{display: none}` for that style.

The stylesheet is located in the following folder:

`PT_HOME\ptimages\imageserver\sharepoint\private\css`
Customizing the UI of the SharePoint Console Portlets

You can copy the styles to your custom style sheets for use in areas where the SharePoint Console banner is not used.
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