

Published on Alfresco Documentation (http://docs.alfresco.com)

Home > Alfresco One 4.2.2 > For Developers > Customizing Explorer and Share

## **Customizing Explorer and Share**

This section of the documentation provides guidance and reference for customizing and extending Alfresco Explorer and Share.

Explorer is the older interface, but is still useful for carrying out many tasks and will be familiar to you if you've used earlier versions of Alfresco. Share is the newer interface, and has had a number of features added in this release to enhance extensibility. The look and feel of the Share UI has also been refreshed for this release.

- Customizing Alfresco Share [1] Alfresco Share provides a rich web-based collaboration environment for managing documents, wiki content, blogs and more. Share leverages the Alfresco repository to provide content services and uses the Alfresco Surf platform to provide the underlying presentation framework.
- <u>Customizing Alfresco Explorer</u> [2] Alfresco Explorer provides a web-based user interface providing document management, collaboration, and administration capabilities.

Parent topic: For Developers [3]

## **Customizing Alfresco Share**

Alfresco Share provides a rich web-based collaboration environment for managing documents, wiki content, blogs and more. Share leverages the Alfresco repository to provide content services and uses the Alfresco Surf platform to provide the underlying presentation framework.

A number of options are available to developers and administrators for customizing Alfresco Share to better fit into their environment. Many of these mechanisms are provided by the underlying Surf framework, therefore a knowledge of Surf is considered useful for anyone wishing to implement substantial customizations.

This section of the documentation looks at customizing Share through configuration files. Customizing Share through more advanced techniques in discussed in the <u>Developing Share Extensions</u> [4] section.

- Share configuration files [5] Share can be configured through configuration files. This topic looks at the key configuration files available.
- Customizing Share with the share-config-custom.xml file (6) This task describes how to modify the Share custom configuration file.
- Configuring the Share default port [7] This section describes how to configure the default port configuration for Alfresco Share.
- Security policies and filters in Alfresco Share [8] You can configure a number of policies and filters in Alfresco Share to mitigate security attacks.
- Configuring Share for mixed user name types [9] When there is a mix of user name types, for example, some using the @domain in their user name, this may have an impact on the use of Share.
- Share Document Library [10] The Share repository document library is a feature that gives full access to the Alfresco repository.
- Share themes [11] When you run Alfresco Share, the look and feel is set by a default theme. This section describes how to select one of the alternative themes available in Share, and also how to create and use your own themes for corporate branding.
- Forms [12] Alfresco Share presents data view and entry forms throughout its user interface, which are built on the Surf framework. This framework provides a convention for implementing forms.

Parent topic: Customizing Explorer and Share [13]

Related concepts

Developing Share Extensions [4]

## Share configuration files

Share can be configured through configuration files. This topic looks at the key configuration files available.

The main Share configuration file is share-config.xml. This can be found in a default installation at tomcat/webapps/share/WEB-INF/classes/alfresco/share-config.xml. While it is possible to change configuration through direct changes to this file this is not recommended as any customizations will be lost if the Share WAR is re-exploded, or you install a new version of Alfresco. To get around this issue it is advisable to make configuration changes to a file outside of the Share WAR. This can be done through the file share-config-custom.xml, which can be found at tomcat/shared/classes/alfresco/web-extension/share-config-custom.xml in the default Alfresco installation. Any changes made here will be applied, and can be saved between reinstalls and the Share WAR exploding.

It should also be noted that it is possible to package a share-config-custom.xml file in a JAR or AMP. In this way you can have multiple share-config-custom.xml files packaged in JARs or AMPs if necessary. JARs will be loaded from the classpath, for example ./tomcat/shared/lib. AMPs will be applied to the Share WAR file.

#### CAUTION

The order in which multiple share-config-custom.xml files are applied is not guaranteed in the case where multiple files override the same section of configuration.

Another key Share configuration file is slingshot-application-context.xml which can be found at tomcat/webapps/share/WEB-INF/classes/alfresco/slingshot-application-context.xml in the default Alfresco installation. This loads a number of other configuration files:

```
<!-- Spring Web Scripts -->
<value>classpath:org/springframework/extensions/webscripts/spring-webscripts-config.xml</value>
<value>classpath:META-INF/spring-webscripts-config-custom.xml</value>
<value>jar:*!/META-INF/spring-webscripts-config-custom.xml</value>
<!-- Spring Surf -->
<value>classpath:org/springframework/extensions/surf/spring-surf-config.xml</value>
<value>classpath:org/springframework/extensions/surf/spring-surf-config-remote.xml</value>
<value>classpath:META-INF/spring-surf-config-custom.xml</value>
<value>jar:*!/META-INF/spring-surf-config-custom.xml</value>
<!-- Surf Autowire Support -->
<value>webapp:WEB-INF/surf.xml</value>
<!-- Common form config -->
<value>classpath:alfresco/form-config.xml</value>
<!-- Share default config -->
<value>classpath:alfresco/share-config.xml</value>
<!-- Share help url config -->
<value>classpath:alfresco/share-help-config.xml</value>
<!-- Share form config -->
<value>classpath:alfresco/share-form-config.xml</value>
<!-- Share Document Library config -->
<value>classpath:alfresco/share-documentlibrary-config.xml</value>
<!-- Share Data List form config -->
<value>classpath:alfresco/share-datalist-form-config.xml</value>
<!-- Share workflow form config -->
<value>classpath:alfresco/share-workflow-form-config.xml</value>
<!-- Share CMIS config -->
<value>classpath:alfresco/share-cmis-config.xml</value>
<!-- Share Security config -->
<value>classpath:alfresco/share-security-config.xml</value>
<!-- Share custom config -->
<value>classpath:alfresco/web-extension/share-config-custom.xml</value>
<value>jar:*!/META-INF/share-config-custom.xml</value>
<value>classpath:alfresco/web-extension/share-config-custom-dev.xml</value>
<value>jar:*!/META-INF/share-config-custom-dev.xml</value>
```

Note that the custom configuration files are loaded last, so that they can override existing configuration. **Parent topic:** Customizing Alfresco Share [1]

# Customizing Share with the share-config-custom.xml file

This task describes how to modify the Share custom configuration file.

To configure the Share application, you can use the custom configuration file named share-config-custom.xml.

- 1. Open the following file:
- tomcat/shared/classes/alfresco/web-extension/share-config-custom.xml
- 2. Uncomment any <config> items that you want to enable.
- 3. Add any <config> items that you want to include.
- 4. Save the edited file.
- Restart Alfresco.

Parent topic: Customizing Alfresco Share [1]

## Configuring the Share default port

This section describes how to configure the default port configuration for Alfresco Share.

- 1. Open the <web-extension>/share-config-custom.xml file.
- 2. Change the port numbers in the following section to meet your needs (for example from 8080 to 8081):

```
<endpoint>
        <id>alfresco</id>
        <name>Alfresco - user access</name>
        <description>Access to Alfresco Repository WebScripts that require user authentication/description>
        <connector-id>alfresco</connector-id>
        <endpoint-url>http://localhost:8080/alfresco/s</endpoint-url>
        <identity>user</identity>
      </endpoint>
      <endpoint>
         <id>alfresco-feed</id>
         <name>Alfresco Feed</name>
         <description>Alfresco Feed - supports basic HTTP authentication via the EndPointProxyServlet</description>
         <connector-id>http</connector-id>
         <endpoint-url>http://localhost:8080/alfresco/s</endpoint-url>
        <basic-auth>true
         <identity>user</identity>
      </endpoint>
     <endpoint>
         <id>activiti-admin</id>
        <name>Activiti Admin UI - user access</name>
        <description>Access to Activiti Admin UI, that requires user authentication</description>
        <connector-id>activiti-admin-connector</connector-id>
        <endpoint-url>http://localhost:8080/alfresco/activiti-admin/endpoint-url>
        <identity>user</identity>
     </endpoint>
  </remote>
</config>
```

3. Uncomment the following section if you are using NTLM, Kerberos, or external SSO, or an HTTP load balancer:

```
<config evaluator="string-compare" condition="Remote">
  <remote>
     <keystore>
         <path>alfresco/web-extension/alfresco-system.pl2</path>
         <type>pkcs12</type>
         <password>alfresco-system</password>
     </keystore>
     <connector>
        <id>alfrescoCookie</id>
        <name>Alfresco Connector</name>
        <description>Connects to an Alfresco instance using cookie-based authentication/description>
        <class>org.alfresco.web.site.servlet.SlingshotAlfrescoConnector</class>
     <connector>
         <id>alfrescoHeader</id>
         <name>Alfresco Connector</name>
         <description>Connects to an Alfresco instance using header and cookie-based authentication/description>
         <class>org.alfresco.web.site.servlet.SlingshotAlfrescoConnector</class>
        <userHeader>SsoUserHeader
      </connector>
     <endpoint>
         <id>alfresco</id>
         <name>Alfresco - user access</name>
        <description>Access to Alfresco Repository WebScripts that require user authentication/description>
        <connector-id>alfrescoCookie</connector-id>
        <endpoint-url>http://localhost:8080/alfresco/wcs</endpoint-url>
        <identity>user</identity>
        <external-auth>true</external-auth>
     </endpoint>
  </remote>
</config>
```

- 4. Replace all instances of 8080 with the desired port number.
- 5. Save the file.

Parent topic: Customizing Alfresco Share [1]

## Security policies and filters in Alfresco Share

You can configure a number of policies and filters in Alfresco Share to mitigate security attacks.

- Cross-Site Request Forgery (CSRF) filters in Alfresco Share [14] You can configure CSRFPolicy in Alfresco Share to prevent CSRF attacks that allow malicious requests to be unknowingly loaded by a user.
- Iframes and phishing attack mitigation in Alfresco Share [15] You can configure IFramePolicy to protect users against a phishing attack, which attempts to acquire information such as user names or passwords by simulating a trustworthy entity.

• Security filters and clickjacking mitigation in Alfresco Share [16] You can configure a security filter, SecurityHeadersPolicy, that mitigates clickjacking attacks in Alfresco Share.

Parent topic: Customizing Alfresco Share [1]

# Cross-Site Request Forgery (CSRF) filters in Alfresco Share

You can configure CSRFPolicy in Alfresco Share to prevent CSRF attacks that allow malicious requests to be unknowingly loaded by a user.

You can configure the CSRF filter to run with third party plugins and to stop specific repository services from being accessible directly through the Share proxy.

The filter is implemented in the org.alfresco.web.site.servlet.CSRFFilter that reads the CSRFPolicy configuration section in share-security-config.xml.

CSRFPolicy describes how and when the filter mitigates CSRF attacks:

- · Each logged in user receives a secret CSRF token.
- The token is communicated to the browser using a Alfresco-CSRF-Token cookie.
- When a logged in user performs a POST, PUT or DELETE HTTP request against Alfresco Share the token must be passed in the request using one of the following methods:
  - As a custom HTTP request header called Alfresco-CSRF-Token
  - As a URL parameter called Alfresco-CSRF-Token
    Note: Usually the header is required, but in some circumstances a header cannot be used and in this case the token can be passed using a URL parameter. The default config only accepts the URL parameter when the Content-Type header starts with multipart/.
- Every time the logged in user visits a new Share page the token is renewed.
- The filter checks that the referrer and original HTTP request headers match the current domain (if this is present in the request).

### Do I need to alter my custom code?

Generally, you should not need to alter your custom code, for example, the following cases need no code alteration:

- You are reading data using GET requests only
- You are using the standard Alfresco.util.Ajax, alfresco/core/CoreXhr or Alfresco.forms.Form javascript classes when creating, updating or deleting data
- · You are writing a non-browser client (for example, a mobile application)

However, in these situations you will need to alter your code:

1. You are making an XMLHttpRequest with POST, PUT or DELETE methods without using the Alfresco.util.Ajax or alfresco/core/coreXhr classes. If you are using the native XMLHttpRequest object or a third party library such as jQuery, add code to pass the token, for example:

```
if (Alfresco.util.CSRFPolicy && Alfresco.util.CSRFPolicy.isFilterEnabled())
{
    xhrHeadersObject[Alfresco.util.CSRFPolicy.getHeader()] = Alfresco.util.CSRFPolicy.getToken();
}
```

If you are using YAHOO.util.DataSource to load data with POST requests, add code similar to this example:

```
if (Alfresco.util.CSRFPolicy && Alfresco.util.CSRFPolicy.isFilterEnabled())
{
   yuiDataSource.connMgr.initHeader(Alfresco.util.CSRFPolicy.getHeader(), Alfresco.util.CSRFPolicy.getToken(), false);
}
```

 $\textbf{2. You are making a form upload with enctype} \ \texttt{multipart/form-data} \ \textbf{without using} \ \texttt{Alfresco.forms.Form.}$ 

When you upload a file by submitting a form with enctype multipart/form-data it is not possible to set a header on the request because it is not possible to set a header on any form submission in the browser. Pass the token as a URL parameter instead. If you are using the Alfresco.forms.Form class, this is handled for you automatically, otherwise add the token as a URL parameter, for example:

```
if (Alfresco.util.CSRFPolicy && Alfresco.util.CSRFPolicy.isFilterEnabled())
{
   url += "?" + Alfresco.util.CSRFPolicy.getParameter() + "=" + encodeURIComponent(Alfresco.util.CSRFPolicy.getToken());
}
```

3. You are using a Flash movie inside Share to send HTTP requests with method POST.

If you are using a Flash movie to upload files, using the <code>flash.net.FileReference ActionScript</code> class to perform a multipart/form-data request, add the token as a URL parameter in your Javascript before passing in the URL to the Flash movie. If your Flash movie is performing application/json or other text based POST requests, using the <code>flash.net.URLRequest and/or flash.net.navigateToURL</code> ActionScript classes and methods, pass the token and the name of the header so that it can be set from the Flash movie.

### When else might I need to make code updates?

If servers from other domains are allowed to POST requests to your system, then you need to reconfigure CSRFPOlicy in your share-config-custom.xml file so that the token or header is not checked:

- 1. Copy the  ${\tt csrfPolicy}$  configuration in  ${\tt share-security-config.xml.}$
- 2. Paste the configuration into your share-config-custom.xml file, ensuring that it is replacing the old configuration section:

```
<config evaluator="string-compare"
    condition="CSRFPolicy" replace="true">
```

3. Copy the following code and add it as the first child of the <filter> element:

The CSRF filter compares the incoming request with the rule request elements to find one that matches and then invokes the defined actions for that rule before normal Share processing begins.

If you want to completely block certain services in the repository, you can add these URLs to the CSRF filter:

- 1. Copy the  ${\tt CSRFPolicy}$  configuration in  ${\tt share-security-config.xml.}$
- 2. Paste the configuration into your share-config-custom.xml file, ensuring that it is replacing the old configuration section:

```
<config evaluator="string-compare"
    condition="CSRFPolicy" replace="true">
```

3. Copy the following code and add it as the first child of the <filter> element:

```
<rule>
<request>
    <path>/proxy/alfresco/acme/special/services/.*</path>
</request>
<action name="throwError">
    <param name="message">It is not allowed to access this url from your browser</param>
</action>
cule>
```

Parent topic: Security policies and filters in Alfresco Share [8]

# Iframes and phishing attack mitigation in Alfresco Share

You can configure IFramePolicy to protect users against a phishing attack, which attempts to acquire information such as user names or passwords by simulating a trustworthy entity.

Alfresco allows you to control which domain pages or content are included in Share to create a whitelist of allowed domains. A whitelist is a list of email addresses or IP addresses that are considered to be safe for use within your organisation.

This  ${\tt IFramePolicy}$  is applied when Share includes an  ${\tt iframe}$  tag while constructing the Web View dashlet. The dashlet will allow only those URLs that have been added to the whitelist. Developers can use the  ${\tt Alfresco.util.IFramePolicy.isUrlAllowed}$ () method to check if a URL is allowed for custom implementations of a Web View or  ${\tt iframe}$  tag is included.

Note: If you have a previous installation which includes a URL from a third-party domain, you will get an error message in your production environment prompting you to configure your IFramePolicy configuration by adding the domain to the whitelist.

Note: URLs pointing to the same domain, such as documents or wiki pages inside Share, will continue to work as usual by default.

The whitelist of allowed domains is set in the <configRootShare>/classes/alfresco/share-security-config.xml configuration file:

To deny URLs from the current domain, override the existing code in the share-config-custom.xml file with the following code:

To allow all cross domain URLs, override the existing code in the share-config-custom.xml file with the following code:

```
<config evaluator="string-compare" condition="IFramePolicy" replace="true">
  <cross-domain>
        <url>*</url>
    </cross-domain>
```

To allow specific cross domain URLs, override the existing code in the share-config-custom.xml file with the following code:

```
<config evaluator="string-compare" condition="IFramePolicy" replace="true">
        <cross-domain>
```

```
<url>https://www.owasp.org/</url>
</cross-domain>
</confiq>
```

Parent topic: Security policies and filters in Alfresco Share [8]

# Security filters and clickjacking mitigation in Alfresco Share

You can configure a security filter, SecurityHeadersPolicy, that mitigates clickjacking attacks in Alfresco Share.

SecurityHeadersPolicy is a Java Servlet filter that applies HTTP response headers to incoming requests in Alfresco Share. The headers that are returned are defined in a configuration section called SecurityHeadersPolicy in alfresco-security-config.xml.

Three headers are added by default; X-Frame-Options, X-Content-Type-Options and X-XSS-Protection:

```
<config evaluator="string-compare" condition="SecurityHeadersPolicy">
  <headers>
    <header>
     <name>X-Frame-Options</name>
      <value>SAMEORIGIN</value>
    </header>
   <header>
     <name>X-Content-Type-Options</name>
      <value>nosniff</value>
    </header>
   <header>
     <name>X-XSS-Protection
      <value>1; mode=block</value>
   </header>
  </headers>
</config>
```

### X-Frame-Options header

Adding this header to an HTTP response tells the browser whether Share pages are permitted inside iframes. In our default configuration we have set this to SAMEORIGIN which means that Share pages are only permitted inside iFrames inside Share or in other web applications that live under the same domain. For example, it is possible to include http://www.acme.com/share inside an iframe on http://www.acme.com/portal.

You can override the configuration and set the header to return DENY instead, by placing the following configuration in your share-config-custom.xml file:

### X-Content-Type-Options

This header is valid for Internet Explorer (IE) only. Older versions of IE (8 and below) sniff the content of a returned resource and then execute the content as the content type that IE thinks the resource has, instead of the content type that the server returned. To stop IE from doing this, nosniff is returned in the header.

### X-XSS-Protection

This header is provided by Internet Explorer (IE) to rectify "sanitization" logic that can be used by an attacker to introduce an XSS flaw on your site.

By default Alfresco Share returns 1; mode=block for this header, which stops IE from executing sanitized code.

It is also possible to set the value to o which stops IE from inspecting the code for XSS attacks.

### Adding other headers

Alfresco supports adding other headers to the configuration, for example, the strict-Transport-Security header forces the browser to allow only https communication. This header is not provided by Alfresco Share, but can be added by using this code:

Parent topic: Security policies and filters in Alfresco Share [8]

# Configuring Share for mixed user name types

When there is a mix of user name types, for example, some using the @domain in their user name, this may have an impact on the use of Share.

For example, there may be users with both the @domain and without:

- · user2@domain.com
- user1

This configuration enables Share to function correctly when using mixed users types.

- 1. Open the <web-extension>/share-config-custom.xml file.
- 2. Add the following bean:

3. Save the file, and restart the Alfresco server.

Parent topic: Customizing Alfresco Share [1]

# **Share Document Library**

The Share repository document library is a feature that gives full access to the Alfresco repository.

The default content structure for Alfresco Share is based on sites, and this does not give full visibility of the content in the repository. By enabling the repository document library configuration setting, you have access to multiple navigation options, for example, folders and categories, tags, and filters. This feature also allows you to recreate and edit text files, for example, within the Data Dictionary.

It is possible to copy or move files to the Share document library without any repository permissions.

The document library is accessed in Share through the Repository, My Files, and Shared Files links in the header, and through the Document Library link in a site. These all kind different views of the complete content repository.

- Configuring the Repository link [17] It is possible to control the visibility of the Repository link in Share through configuration. Note the Repository link is always visible to Administrators.
- Hiding the Share repository link using legacy mode [18] If required, it is possible to use the Share header menu bar in legacy mode, and hide the Repository link. This means users will only be able to browse content in document libraries of sites that they own, or are a member of.
- Extending the Alfresco Share Document Library [19] Alfresco offers a number of extension points for the document library.

Parent topic: Customizing Alfresco Share [1]

## Configuring the Repository link

It is possible to control the visibility of the Repository link in Share through configuration. Note the Repository link is always visible to Administrators.

- Load the file tomcat/shared/classes/alfresco/web-extension/share-config-custom.xml into your favorite editor (assuming you are using the Tomcat application server).
- 2. Locate the Repository Library config section:

3. The configuration that can make the Repository link visible or invisible for non-administrators is the following:

<visible>false</visible>

Set to true to have the Repository link available to all users.

4. Restart the Alfresco server.

Parent topic: Share Document Library [10]

# Hiding the Share repository link using legacy mode

If required, it is possible to use the Share header menu bar in legacy mode, and hide the Repository link. This means users will only be able to browse content in document libraries of sites that they own, or are a member of.

- Open the <configRootShare>/classes/alfresco/share-config.xml file.
   For example, on Tomcat, the file path for this file will be <TOMCAT\_HOME>/webapps/share/WEB-INF/classes/alfresco/share-config.xml
- 2. Locate the <!-- Global config section --> section.
- 3. Copy the entire peader></
- 4. Open the <web-extension>/share-config-custom.xml file.
- 5. Locate <!-- Global config section -->.

If you do not see the global configuration section, copy the full example from the share-config.xml file.

- 6. Paste the full <neader></header> section into the <config replace="true"></config> section.
- 7. Set <legacy-mode-true> to true.
- 8. Locate and comment out the following line from within the <header></header>:

```
<item type="link" id="repository" condition="conditionRepositoryRootNode">/repository</item>
```

9. Save the share-config-custom.xml file, and then restart the Alfresco server.

The Repository link is now not visible in the Share header menu.

Parent topic: Share Document Library [10]

## **Extending the Alfresco Share Document Library**

Alfresco offers a number of extension points for the document library.

This includes:

- · Repository tier
- Web tier
- · Status indicators
- Metadata templates
- Actions
- · Client-side extension points

This documentation also includes a jsNode client-side help object reference and a list of out-of-the-box evaluators.

- Alfresco Share Document Library repository tier [20] In order to preserve existing customizations and third party add-ons, a parallel set of data web scripts has been developed for Alfresco 4.0 and later to coexist with the previous data web scripts. These new web scripts are located in the remoteapi project and have URLs starting with /slingshot/doclib2/.
- <u>Alfresco Share Document Library web tier</u> [21] In versions of Alfresco Share previous to 4.0, the client-side JavaScript requested JSON data from the repository directly via the proxy servlet. From 4.0 onwards, there is a new data web script (at /components/documentlibrary/data/) that requests data from the repository and processes the response based on a configurable set of evaluators before finally returning JSON data to the browser.
- Override and extension examples [22] You configure new evaluators via a web-extension/custom-slingshot-\*-context.xml file, taking the form of bean definitions.
- <u>Client-side template and action extensions</u> [23] Two global events are available to make it easier to add new metadata template renders and client-side action handlers.
- <u>Customizing document library views</u> [24] Within the document library it is possible to select from a number of views. It is also possible to add custom views to the document library through configuration in the share-documentlibrary-config.xml file.
- Reference [25] Reference material.

Parent topic: Share Document Library [10]

## Alfresco Share Document Library repository tier

In order to preserve existing customizations and third party add-ons, a parallel set of data web scripts has been developed for Alfresco 4.0 and later to coexist with the previous data web scripts. These new web scripts are located in the remote-api project and have URLs starting with /slingshot/doclib2/.

There are three extension points supported by the repository data web scripts.

### 1. Document Library custom response

A custom response appears within the metadata.custom section of the JSON response. An example of a cleanly installed service is the vtiserver configuration, defined within the slingshot-context.xml file.

The customResponses property defines a map of JSON key to custom response bean within the SlingshotDocLibCustomerResponse bean definition.

Default slingshotDocLibCustomResponse bean configuration:

The bean for returning the vtiServer configuration is defined as:

The VtiserverCustomResponse class (which implements CustomResponse) returns a Serializable object (for example a LinkedHashMap) that is serialized into the JSON response by the DocLib web scripts.

This extension point is designed to return useful information that is not specific to any node, for example, the presence of an optional module; whether a subsystem is active or not, etc.

### 2. Property decorators

The other place the data web scripts may be extended is via the property decorator extension mechanism. These are used by the org.alfresco.repo.jscript.ApplicationScriptUtils class and allow properties such as nodeRefs, usernames, and dates to be returned in a much more usable state to the web tier. For example, the Share interface displays usernames using First- and Last-name, rather than just the username. By decorating the properties returned in the initial web script request, further requests are not necessary to obtain the missing data.

Partial view of the applicationScriptUtils bean configuration:

The decoratedProperties property defines a map of short-format QName to decorator implementation bean. Each of these decorator beans implements the PropertyDecorator interface and returns a serializable map via the decorate() method. This map is then serialized into the JSON response for each node being returned by the web script request.

#### 3. Permissions list

The third place the data web script response may be extended is via the list of permissions that are returned for each node. These are defined via the userPermissions property on the applicationScriptUtils bean. For example:

The default set of permissions should not be reduced without fully understanding the impact on actions, indicators, and metadata evaluators already in use throughout Share.

Parent topic: Extending the Alfresco Share Document Library [19]

## Alfresco Share Document Library web tier

In versions of Alfresco Share previous to 4.0, the client-side JavaScript requested JSON data from the repository directly via the proxy servlet. From 4.0 onwards, there is a new data web script (at /components/documentlibrary/data/) that requests data from the repository and processes the response based on a configurable set of evaluators before finally returning JSON data to the browser.

All configuration for, and evaluation of, Document Library status indicators, metadata templates, and actions is now on the web tier instead of split between the repository and the browser.

### 1. Web tier configuration overview

The individual action configuration files (for example documentlist.get.config.xml, document-details.get.config.xml) have been removed and all actions are now defined within common configuration sections.

The new or altered areas of configuration in share-documentlibrary-config.xml are:

DocumentLibrary	Updated for version 4.0     New <indicators> section for configuring status indicators     New <metadata templates=""> for configuring the metadata displayed within the Document Library's "browse" view</metadata></indicators>
DocLibCustom	New to version 4.0 <pre></pre>
DocLibActions	New to version 4.0 <actions> section defining all available actions across the various Document Library view pages     <actiongroups> that define which (and in what order) actions are to appear on the Document Library pages</actiongroups></actions>

Also from version 4.0 onwards is the slingshot-documentlibrary-context.xml file containing all bean definitions for web tier evaluators.

#### 2. Status indicators



- Defined within the <code>DocumentLibrary</code> config section, status indicators are small icons typically used to indicate the presence of a marker aspect, or whether a document is in a particular state, for example checked out for editing.
- Indicator images by default are referenced by id: /res/components/documentlibrary/indicators/{id}-16.png unless the name is overridden
  by the "icon" attribute.
- Tooltip labels are also defaulted by id: status. {id} and can be overridden by the label attribute.

The status indicators are located in the <indicators> config container element with the following structure:

```
<indicator id (index) (icon) (label)>
    <evaluator />
     <labelParam index />
     <override />
</indicator>
```

#### where:

<indicator>

Status indicator element with the following attributes:

	id: Unique indicator id     index: Determines display order of this indicator     icon: Icon filename; if not specified, id is used     label: Tooltip i18 label; if not specified, id is used	
<evaluator></evaluator>	Bean id of evaluator that determines the visibility of the image. The Evaluator extends org.alfresco.web.evaluator.BaseEvaluator	
<labelparam></labelparam>	Allows placeholder values within i18n label to be replace at runtime with node properties. The value is the replacement string or dot notation path to a node property. The attribute is:  • index: Index of placeholder value with i18n message	
<pre><override></override></pre>	Allows this indicator to override (hide) other indicators that would otherwise be visible. The value is the id of another indicator to override.	

#### **Example config**

A note about the labelParam value: refactoring on the client-side (JavaScript code) means that a common helper object is available for each node within the Document Library during the rendering cycle, namely jsNode. A full reference for this new resource is in jsNode reference. [26]

### 3. Metadata templates

The metadata template refers to the section of the document "browse" page under the filename. Funtionality introduced in version 4.0 allows this area to be customized with node properties and/or by custom rendering functions.



In a clean install, there are two templates defined: the <code>default</code> (fallback) template and one used when rendering working copies. These are both defined within share-documentlibrary-config.xml and can be extended or overridden as required (via share-config-custom.xml).

The metadata templates are located in the <metadata-templates> config container element with the following structure:

```
<template id>
        <evaluator />
        ine id (index) (simpleView) (evaluator) />
        <override />
</template>
```

#### where:

<template></template>	Template element with the following attribute:	
	• id: Unique template id	
<evaluator></evaluator>	Bean id of evaluator that determines whether the template is to be used for this node or not. The Evaluator extends org.alfresco.web.evaluator.BaseEvaluator	
<li><li><li><li></li></li></li></li>	Allows placeholder values within i18n label to be replace at runtime with node properties. The value refers either to a node property (such as cm_description) or a customer JavaScript renderer. To add a label in front of the property, add the label's i18n messageld after the property value, separated by a space (such as {cm_description details.description}. The attributes are:	
	<ul> <li>id: Id of the line within the template. Must be unique within this template.</li> <li>index: Optional index for ordering the lines when rendering.</li> <li>view: If set to "simple" or "detailed", then this line will only be rendered when either the simple or detailed view is toggled on, respectively. Leave empty, or omit the attribute for both views.</li> <li>evaluator: Optional evaluator to determine whether this line will be rendered for a node when using the template.</li> </ul>	

### Example config

#### **Custom JavaScript renderers**

A renderer can either be a simple property value, or use a custom JavaScript renderer. To register a custom renderer, fire a Bubbling (global) event, passing-in the renderer id and the rendering function:

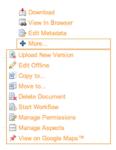
```
if (Alfresco.DocumentList)
{
    YAHOO.Bubbling.fire("registerRenderer",
    {
        propertyName: "renderer id",
        renderer: function(record, label)
        {
            return "...";
        }
    });
```

The rendering function should return property escaped HTML.

#### 4. Actions

In versions previous to 4.0, the actions configuration was spread throughout a number of web script XML config files. From 4.0, actions are all now defined globally in the share-documentlibrary-config.xml file, in the <code>DocLibActions</code> config section. This means they can be overridden and extended via a share-config-custom.xml file. These customizations can be via AMP, JAR or web-extension folder mechanism, or a mixture of all three.

Actions are also now grouped by view type instead of node "state".



The actions are located in the <actions> config container element with the following structure:

#### where:

<action></action>	Action config container element with the following attributes:
	id: Unique action id     type: Action type. Currently supported are: javascript, link, pagelink     icon: Optionally, override the icon name. If not set, the id is used     label: The action's i18n message id
<pre><param/> Action parameter elements with the following attribute:</pre>	
	name: Parameter name
<evaluator></evaluator>	Bean id of evaluator that determines whether the action is valid for this node or not. Evaluator extends org.alfresco.web.evaluator.BaseEvaluator and contains the following attribute:

	negate: If set to "true", the output of the evaluator is inverted	
<permissions></permissions>	Permission config container element	
<pre><permission></permission></pre>	List of permissions required for the actions, as defined in the applicationScriptUtils bean config with the following attributes:	
	<ul> <li>allow: If the permission specifies, the action is allowed</li> <li>deny: If the permission specifies, the action is hidden</li> </ul>	
	Only one of the "allow" or "deny" permissions can be specified	
<pre><override></override></pre>	If this action should override the visibility of other actions, they are specified using this element.	

#### Example config

```
<!-- Inline edit -->
<action id="document-inline-edit" type="pagelink" label="actions.document.inline-edit">
  <param name="page">inline-edit?nodeRef={node.nodeRef}</param>
  <permissions>
    <permission allow="true">Write</permission>
  </permissions>
  <evaluator>evaluator.doclib.action.inlineEdit
</action>
<!-- Checkin from Google Docs -->
<action id="document-checkin-from-googledocs" type="javascript" label="actions.document.checkin-google">
     <param name="function">onActionCheckinFromGoogleDocs</param>
    <evaluator>evaluator.doclib.action.googleDocsCheckIn</evaluator>
    <override>document-checkout-to-googledocs</override>
</action>
<!-- View in Explorer client -->
<action id="view-in-explorer" type="link" label="actions.folder.explorer-view">
 <param name="href">{explorerViewUrl}</param>
  <param name="target"> blank</param>
  <evaluator>evaluator.doclib.action.viewInExplorer
</action>
```

### 5. Action groups

Actions are grouped using the actionGroup elements. The type of node and also the view currently in use determines the actual group used. The group is calculated by the calculateActionGroupId() function in surf-doclist.lib.js and is designed to be overridden if many new and/or altered actions are required.

The action groups defined in a default installation are:

Action Group id	Default Usage
document-browse	Documents on the browse page
document-details	Document on the document details page
folder-browse	Folders on the browse page
folder-details	Folders on the folder details page
document-link-browse	Links to documents on the browse page
document-link-details	Links to folders on the document details page
folder-link-browse	Links to folders on the browse page
folder-link-details	Links to folders on the folder details page

The action groups are located in the <actiongroups> config container element with the following structure:

#### where:

<actiongroup></actiongroup>	Action group config container element with the following attribute:
	id: Unique action group id

Action element with the following mandatory attribute:

• id: Reference to action as defined in <actions> config section

Other actions properties are over-ridable here, although it is recommended from a maintenance view to only override "simple" properties like the icon and label. These make it possible to reuse an action with document-biased icon and label to be used for folders.

#### **Example config**

### 6. Custom client extensions

The <code>DocLibCustom</code> config section is where dependencies on custom client-side assets can be defined. These are defined in exactly the same way as for custom Forms dependencies.

The client-side dependencies are located in the <dependencies> config container element with the following structure:

```
<css src />
<js src />
```

#### where:

<c< th=""><th>:ss&gt;</th><th>Stylesheet dependencies element with the following attribute:</th></c<>	:ss>	Stylesheet dependencies element with the following attribute:
		src: Path to the css file, relative to the /res servlet
<j< th=""><th>s&gt;</th><th>JavaScript dependencies element with the following attribute:</th></j<>	s>	JavaScript dependencies element with the following attribute:
		src: Path to the js file, relative to the /res servlet

Other actions properties can be overridden here, although it is recommended from a maintenance point of view to only override "simple" properties like the icon and label. These make it possible to reuse an action with documen-biased icon and label to be used for folders.

#### **Example config**

Parent topic: Extending the Alfresco Share Document Library [19]

# Override and extension examples

You configure new evaluators via a web-extension/custom-slingshot-\*-context.xml file, taking the form of bean definitions.

You can use any of the out-of-the-box evaluators as parents to template from. For example:

Client-side dependencies are specified in the share-config-custom.xml file using the DocLibCustom config section.

Extra status indicators are configured in the following way via the share-config-custom.xml file.

Custom metadata templates are also specified in the share-config-custom.xml file, in the DocumentLibrary config section.

New actions can be specified within the share-config-custom.xml file as follows.

An action may be disabled across the whole application using the following configuration in a share-config-custom.xml file. For example the following configuration in a share-config-custom.xml file. For example the following configuration in a share-config-custom.xml file. For example the following configuration in a share-config-custom.xml file. For example the following configuration in a share-config-custom.xml file. For example the following configuration in a share-config-custom.xml file.

Add an evaluator, used on an out-of-the-box action:

Parent topic: Extending the Alfresco Share Document Library [19]

## Client-side template and action extensions

Two global events are available to make it easier to add new metadata template renders and client-side action handlers.

### Metadata template renderer

Custom client renderers are registered with the Document Library using the new registerRenderer Bubbling event.

Ensure the client-side assets are loaded onto the page using the DocLibCustom / dependencies configuration section.

Using the example to add a new EXIF metadata renderer to produce the output as follows.



Giving the renderer an id of "exposure" also extends the metadata templates using a custom line config:

```
<line index="20" id="exposure">{exposure exif.label.exposure}</line>
```

The JavaScript to register the custom renderer is then simply as follows. Note the event name, the event property names and where the custom renderer id is specified.

See EXIF renderer source code [27] for the complete source for this example.

### **Custom action handler**

In a very similar way to metadata renderers, new client-side actions are registered using the registerAction Bubbling event message.

```
YAHOO.Bubbling.fire("registerAction",
{
   actionName: "onActionPreviewWebAsset",
   fn: function WCMQS_onActionPreviewWebAsset(record)
   {
     ...
   }
});
```

A full example of this can be found in the modules/wcmquickstart/wcmquickstartsharemodule project within the main Alfresco SVN repository. **Parent topic:** Extending the Alfresco Share Document Library [19]

# **Customizing document library views**

Within the document library it is possible to select from a number of views. It is also possible to add custom views to the document library through configuration in the share-documentlibrary-config.xml file.

When browsing content in the document library it is possible to select from a variety of views including:

- Simple
- Detailed
- Gallery
- Filmstrip
- TableAudio
- Media

These views are selected from the Options button.

The share-documentlibrary-config.xml file controls what views will be available as options when browsing the DocumentLibrary, My Files, Shared Files, and Repository pages. It is also possible to use a module that provides evaluated configuration to have the options change based on criteria such as site name, site preset, user group, and so on.

It is possible to customize these views, and also add additional view types through configuration in the share-documentlibrary-config.xml file. These views are also present in the My Files, Shared Files and Repository pages.

The views are rendered by view renderers, which have various attributes and also a block of configuration (in JSON) associated with them. For example:

```
"indicators": {
            "show": "true"
         "selector": {
    "show": "true"
         "thumbnail": {
            "show": "false"
         "propertyColumns": [
               "property": "cm:originator",
               "label": "table.email.label.originator",
               "link": "true"
            },
               "property": "cm:subjectline",
               "label": "table.email.label.subjectline",
               "link": "true"
            },
               "property": "cm:sentdate",
               "label": "table.email.label.sentdate"
                "property": "cm:addressee",
               "label": "table.email.label.addressee"
                "property": "cm:addressees",
               "label": "table.email.label.addressees"
                "property": "cm:attachments",
               "label": "table.email.label.attachments"
        ]
   </json-config>
</view-renderer>
```

For example the following snippet shows a custom simplified view called "minimalist":

```
<view-renderer id="minimalist" iconClass="table" label="button.view.minimalist" index="60" widget="Alfresco.DocumentListTableViewRenc
  <dependencies>
    <js src="components/documentlibrary/documentlist-view-simple.js" />
    <js src="components/documentlibrary/documentlist-view-table.js" />
    <css src="components/documentlibrary/documentlist-view-table.css" />
  </dependencies>
  <json-config>
       "actions": {
          "show": "false"
       "indicators": {
          "show": "false"
       "selector": {
          "show": "true"
       "thumbnail": {
          "show": "false"
       "propertyColumns": [
             "property": "cm:name",
"label": "table.minimalist.label.name",
"link": "true"
       ]
  </json-config>
</view-renderer>
```

Note that the value of labels such as table.minimalist.label.name are set in properties files, so that multiple translations can be provided.

The minimalist custom view uses the Table View renderer.

There are four columns that are always present in the table, which can be hidden if required:

- · actions the drop-down menu of actions that can be peformed on the document
- · indicators the set of icons that visually communicate information about the document
- selector the checkbox to use when selecting multiple documents
- · thumbnail the thumbnail-sized preview of the document

All other columns must be defined in the propertyColumns array. The property attribute can be set to either a document property, such as cm:name or a metadata template renderer such as size, tags or date.

Parent topic: Extending the Alfresco Share Document Library [19]

### Reference

Reference material.

- jsNode reference parties and aspects via JavaScript on the browser.
- Predefined Evaluators [29] The following is a list of the evaluators defined within the core Alfresco Share code, as of the v4.0 release.
- EXIF renderer source code [30] The EXIF renderer source code is as follows.

Parent topic: Extending the Alfresco Share Document Library [19]

# jsNode reference

jsNode is the preferred object to access node properties and aspects via JavaScript on the browser.

When dealing with DataTable records, record.jsNode should be available.

Note: It is the responsibility of any code that updates DataTable records to also ensure the jsNode property is updated (usually within the AJAX success callback).

To create a jsNode instance, use:

jsNode = new Alfresco.util.Node(p\_node)

where p node can either be a JavaScript object or JSON string. In either case, it should be in the format returned by the doclist-v2 data web scripts.

#### Methods

The jsNode methods are:

getNode	Returns original node object. If a JSON string was passed in, this method returns a JavaScript object	
toJSON	Return the JSON string serialization of the node	
setNodeRef	Sets a new nodeRef - doesn't requery node properties however. Used solely when generating new page urls	
hasAspect	Returns true if this node has the given aspect	
hasTag	Returns true if this node has the given tag applied	

Also new to v4.0 is the slingshot-documentlibrary-context.xml file containing all bean definitions for web tier evaluators.

### **Properties**

The jsNode properties are:

Core node properties		
nodeRef	NodeRef	
type	The node's type in short QName format	
isContainer	Returns true if the node is a container type	
isLink	Returns true if the node is a file or folderlink type	
isLocked	Returns true if the node has been locked by any user	
linkedNode	If this node is a link, returns a jsNode instance of the linked node	
Content nod	Content nodes	
contentURL	Of the format /api/node/content/{nodeRef}/{filename}	
mimetype	Content mimetype	
size	Content size in bytes	
Properties	roperties	
properties	All properties are available either via:	
	properties["my:property"]	
	or	
	properties.my_property	
	Note that cm: properties are available without the prefix, i.e. "properties.description", "properties.title"	

Aspects		
aspects	Array of aspects present on this node. See also hasAspect()	
Permissions	Permissions	
permissions	The permissions the current user has on this node. The list of permissions is defined in the applicationscriptUtils bean configuration.	
Tags		
tags	Array of tags. See also hasTag()	
Categories		
categories	Returns an array of the format [categoryName, category path]	

Parent topic: Reference [25]

# **Predefined Evaluators**

The following is a list of the evaluators defined within the core Alfresco Share code, as of the v4.0 release.

They are all defined in slingshot-documentlibrary-context.xml and can be reused in customizations as required.

### **Evaluators**

These evaluators may need extra configuration before they can be used and form the basis of all metadata and action evaluators via the bean configuration parent attribute.

Evaluator	Properties
evaluator.doclib.action.hasAspect	aspects: List of aspects the node must have
evaluator.doclib.action.isMimetype	mimetypes: The node must match one of the mimetypes
evaluator.doclib.action.propertyNotNull	property: the node property must not be null for this evaluator to return true
evaluator.doclib.action.chainedMatchAll	evaluators: List of evaluators that are run in turn until one returns false or the end is reached
evaluator.doclib.action.chainedMatchOne	evaluators: List of evaluators that are run in turn until one returns true
evaluator.doclib.action.disableAction	Always returns false
evaluator.doclib.action.sitePreset	presets: current site must match one of the listed presets
evaluator.doclib.action.siteBased	Returns true if the current node is located within a Share site and the Site Document Library is being used
evaluator.doclib.action.containerType	types: Current documentLibrary container folder must match one of the listed types
evaluator.doclib.action.nodeType	allow Subtypes: Whether subtypes of the node are also allowed     types: Node must match one of the listed types
evaluator.doclib.action.value	This evaluator is described in further detail in the next topic.  • accessor: jsNode property to be tested • comparator: Bean definition of class implementing the Comparator interface
evaluator.doclib.action.metadataValue	This evaluator is described in further detail in the next topic.  • accessor: metadata property to be tested  • comparator: Bean definition of class implementing the Comparator interface

evaluator.doclib.action.isBrowser	regex: Regular expression to match against browser userAgent string	
evaluator.doclib.action.isPortlet	Returns true if the application is currently deployed within a portlet environment	
evaluator.doclib.action.notPortlet	Returns the inverse of isPortlet	

## **Comparators**

The evaluator.doclib.action.value and evaluator.doclib.action.metadataValue evaluators use comparator helper beans in order to test a value against certain conditions. The following comparators are available in a standard install.

Evaluator	Properties
org.alfresco.web.evaluator.StringEqualsComparator	aspects: Value to test string against     caseInsensitive: Defaults to true
org.alfresco.web.evaluator.NullValueComparator	value: Boolean to indicate if null should be the pass or fail case

### **Evaluator Instances**

The following lists describe each of the evaluators currently defined for the v4.0 release.

#### Status indicator evaluators

evaluator.doclib.indicator.editing	The current user is editing this node (working copy)
evaluator.doclib.indicator.lockOwner	The current user is the lock owner (original of a working copy pair)
evaluator.doclib.indicator.locked	The node is locked by another user
evaluator.doclib.indicator.googleDocsEditing	The node is being edited via Google Docs
evaluator.doclib.indicator.googleDocsOwner	The current user is editing the node is Google Docs
evaluator.doclib.indicator.googleDocsLocked	Another user is editing the node via Google Docs
evaluator.doclib.indicator.activeWorkflows	The node is involved in one or more active (advanced) workflows
evaluator.doclib.indicator.simpleWorkflow	The node is part of a simple workflow process
evaluator.doclib.indicator.rules	The node has rules applied
evaluator.doclib.indicator.exifMetadata	The node has the EXIF metadata aspect applied
evaluator.doclib.indicator.geographicMetadata	The node has the Geographic aspect applied

### Metadata template evaluators

evaluator.doclib.metadata.hasCategories	The node has the classifiable aspect applied
evaluator.doclib.metadata.isWorkingCopy	The node is a working copy

### **Action evaluators**

evaluator.doclib.action.simpleApprove	Uses simpleWorkflowAspect and simpleApproveProperty to check for the simple workflow "Approve" action validity
evaluator.doclib.action.simpleReject	Uses simpleWorkflowAspect and simpleRejectProperty to check for the simple workflow "Reject" action validity
evaluator.doclib.action.locateAction	Checks the current filter is "path"
evaluator.doclib.action.inlineEdit	Uses the inlineEditAspect and inlineEditMimetype evaluators to determine if a content node can be edited inline
evaluator.doclib.action.onlineEdit	Uses onlineEditVtiServer, onlineEditBrowser and onlineEditMimetype evaluators to determine if the "Edit Online" action is valid
evaluator.doclib.action.hasLockableAspect	Used in an inverted state for the "Edit Offline", "Copy", "Move" and "Publish" actions
evaluator.doclib.action.siteBased	Enables the site-based permissions dialog. Used in inverted state for the repository-based permissions page action
evaluator.doclib.action.isWorkingCopy	Tests whether a node is a working copy
evaluator.doclib.action.viewInExplorer	Reads the repository-url config value to determine the validity of the "View in Explorer" action

evaluator.doclib.action.googleDocsEditable	Enables "Check out to Google Docs" action
evaluator.doclib.action.googleDocsCheckIn	Tests for the validity of the "Check in from Google Docs" action
evaluator.doclib.action.googleDocsView	Tests whether a node has been checked out to Google Docs
evaluator.doclib.action.googleMaps	Checks for the cm:geographic aspect
evaluator.doclib.action.transferred	Tests for the trx:transferred action for the "View in Source Repository" action

Parent topic: Reference [25]

### **EXIF** renderer source code

The EXIF renderer source code is as follows.

```
EXIF
                                          EXTENSION
(function()
  * Alfresco Slingshot aliases
  var $html = Alfresco.util.encodeHTML,
  $isValueSet = Alfresco.util.isValueSet;
   if (Alfresco.DocumentList)
        YAHOO.Bubbling.fire("registerRenderer",
           propertyName: "exposure",
           renderer: function exif_renderer(record, label)
                 var jsNode = record.jsNode,
                properties = jsNode.properties,
              var expTime = properties["exif:exposureTime"] || 0,
                     exposureFraction: expTime > 0 ? "1/" + Math.ceil(1/expTime) : expTime,
                     fNumber: properties["exif:fNumber"] || 0,
                     isoSpeedRatings: properties["exif:isoSpeedRatings"] || 0
             html = '<span class="item">' + label + '<b>' +
YAHOO.lang.substitute(this.msg("exif.metadata.exposure"), exifObj) + '</b></span>';
             return html;
       });
})();
```

Parent topic: Reference [25]

## **Share themes**

When you run Alfresco Share, the look and feel is set by a default theme. This section describes how to select one of the alternative themes available in Share, and also how to create and use your own themes for corporate branding.

Share themes consist of a directory containing a CSS and images files, and they can be located in the theme directory (<TOMCAT\_HOME>/webapps/share/WEB-INF/classes/alfresco/site-data/themes). The default theme is called default.xml.

The following themes are available in Share:

- Blue theme (default)
- Yellow theme
- Green theme
- High contrast black
- · Google Docs theme

The default theme, which comprises the CSS and image assets used across all pages, displays in a new Alfresco installation.

- Selecting themes [31] Only an Administrator user can select the Share theme. Any change to the theme will affect all users of the Alfresco instance from
  the next time that they log in or from a browser refresh.
- <u>Creating a new theme [32]</u> Additional themes may be defined by creating a new theme directory containing the necessary files, as well as the corresponding XML file, whose name must match that of the theme's directory.
- Editing a theme [33]

Parent topic: Customizing Alfresco Share [1]

# **Selecting themes**

Only an Administrator user can select the Share theme. Any change to the theme will affect all users of the Alfresco instance from the next time that they log in or from a browser refresh.

The installation wizards install the default theme and the sample alternative themes. The available themes are installed in the <configRootShare>/classes/alfresco/site-data/themes directory.

- On the toolbar, expand the More menu and click Application in the Tools list. The Options page appears.
- 2. Select the required theme from the menu:
  - o Green Theme
  - · Yellow Theme
  - · High Contrast Theme
  - Default Theme
  - Google Docs Theme
- 3. Click Apply.

The new theme displays in Share. The new theme persists across sessions.

Parent topic: Share themes [11]

## Creating a new theme

Additional themes may be defined by creating a new theme directory containing the necessary files, as well as the corresponding XML file, whose name must match that of the theme's directory.

- 1. Make a new directory within the /themes directory.
  - Note: Do not include spaces in the directory name.
- 2. Copy the contents of an existing theme directory to the new theme directory.

For example, copy the greenTheme directory.

- 3. Open the following files:
  - a. base.css
  - b. ie6.css
  - c. ie7.css
  - d. presentation.css
  - e. yui/assets/skin.css
- 4. Specify the new theme by searching for .yui-skin-greenTheme and replacing with .yui-skin-xxx where xxx is the name of the new theme directory.
- 5. Save the files.

The new theme is then available in the list of themes on the Application tool.

Parent topic: Share themes [11]

## Editing a theme

A theme consists of some CSS files, an image directory, and a directory for assets for YUI. To create a new look, change the presentation.css file and, if required, replace or add images to the /images directory.

- 1. Open the presentation.css file.
- 2. Locate the properties at the end of the presentation.css file.
- 3. Edit the following four properties:
  - a. color
  - **b**. background
  - C. background-color
  - d. border

Any change to these properties will change the theme.

```
/ Theme colors /
.theme-color-1,
a.theme-color-1.
a.theme-color-1:visited,
a.theme-color-1:hover
  color: #6CA5CE;
.theme-color-2.
a.theme-color-2,
a.theme-color-2:visited,
a.theme-color-2:hover
   color: #038603;
.theme-color-3,
a.theme-color-3,
a.theme-color-3:visited,
a.theme-color-3:hover
   color: #C7DBEB;
```

```
.theme-color-4,
a.theme-color-4,
a.theme-color-4:visited,
a.theme-color-4:hover
   color: #0D3B57;
/ Theme background colors /
 .theme-bg-color-1,
div.theme-bg-color-1
  background-color: #6CA5CE;
 .theme-bg-color-2,
div.theme-bg-color-2
  background-color: #fffbdd;
 .theme-bg-color-3,
div.theme-ba-color-3
  background-color: #DEE8ED;
 .theme-bg-color-4,
div.theme-bg-color-4
  background-color: #EBEFF1;
.theme-bg-color-5,
div.theme-bg-color-5
  background-color: #2B6EB5;
   / background-image: url(images/navbar-bg.png); /
 .theme-bg-2
   / background-image: url(images/navbar-bg-2.png); /
 / Theme border type/colors /
 .theme-border-1
  border-color: #457f63:
  border-style: dotted;
 .theme-border-2
   border-color: #2B6EB5;
```

- 4. Locate the YUI Theme Changes section.
  - This section allows changes to the YUI components.
- 5. Edit the properties in this section to change the theme.

Parent topic: Share themes [11]

### **Forms**

Alfresco Share presents data view and entry forms throughout its user interface, which are built on the Surf framework. This framework provides a convention for implementing forms.

Both DM (Document Management) and WCM (Web Content Management) forms use the same services, meaning that Alfresco uses only one configuration syntax and one set of UI controls for forms.

- Use of forms in Share [34] Forms are used in the View Metadata and Edit Metadata pages within Share.
- Forms architecture [35] The forms engine consists of four major parts:
- Forms event sequence [36] When a request is made to a page containing the form component, the following sequence of events occurs.
- <u>Configuring forms [37]</u> The default forms configuration is specified in the <configRootShare>/classes/alfresco/share-form-config.xml file. This file contains all the default controls and constraint handlers for the Alfresco content model and the form configuration for the cm:content and cm:folder types. This file also contains an example of configuring the cm:content type.
- Customizing forms controls [38] One of the most common customization is to add new controls. A control is the label for a field and the interface that the user interacts with for setting the value of the field.
- Customizing the validation handler [39] A validation handler is a small JavaScript function that gets called by the forms runtime when a field value

needs to be validated.

- <u>Displaying type metadata</u> [40] The configuration to define the fields for the cm: content type exists in the system file called web-framework-config-commons.xml. You can configure the type metadata in the share-config-custom.xml file in <web-extension>. It is also possible to deploy custom configurations via JARs or AMPs.
- <u>Displaying aspect metadata</u> [41] Add the properties and associations defined on aspects by adding them to the list of fields to show for a type. The aspects that appear can be defined on a type by type basis, and you can control the ordering of the fields.
- Configuring a form control [42] Most of the built in controls have parameters, which allow some basic customization.
- Grouping fields [43] For longer forms, you can group fields together in logical grouped or nested sections.
- Changing the default set label [44] Fields that do not specify a set belong to the implicit default set. They are rendered together, by default, but without any visual grouping.
- Providing a custom form control [45] If none of the out-of-the-box controls are sufficient, you can add new controls and reference them. Controls are
  Freemarker template snippets, therefore, they contain only the HTML markup required to represent the control. The templates need to be stored in the
  site-webscripts directory, which will usually be in the application server shared classpath.
- Changing the field label position [46] By default, forms are rendered with the field labels positioned above the input control.
- <u>Providing a custom form template</u> [47] The default template that renders the form UI generates one column of fields. There are scenarios where more control may be required over the layout. To enable these scenarios, it is possible to replace the default template with a custom template. A different template can be provided for each form mode.

Parent topic: Customizing Alfresco Share [1]

## Use of forms in Share

Forms are used in the View Metadata and Edit Metadata pages within Share.

The following screen shot shows the form component on the Edit Metadata page.

#### Edit Metadata

Name: \*
plain-content.txt

Title:
The title

Description:
The description goes here....

Mimetype:
Plain Text

Author:
Gavin

The content of the form is completely driven from configuration custom types, custom aspects. Their properties and associations can be displayed within Share.

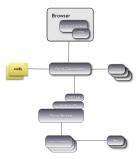
Parent topic: Forms [12]

## Forms architecture

The forms engine consists of four major parts:

- · Form service
- Form component
- Form configuration
- JavaScript formUI component, which includes the forms runtime

The following diagram shows a high-level architecture diagram of the forms engine.



The forms runtime is responsible for the execution of a form. It manages all input, validation (client or call-back), events, submission, and it consists of a small, lightweight JavaScript library. An unobtrusive JavaScript pattern is used, where behavior is added to the HTML form elements when the page loads. The forms runtime provides the following capabilities:

- · Mandatory property handling
- · Validation (enforceable at submission, as the user types or when a field loses focus), which includes:
  - Regular expression matching
  - · String length
  - Email address
  - o Is number
  - · Numeric range
  - Date range
  - List of values
- Repeating fields (for handling multi-valued properties)

Parent topic: Forms [12]

## Forms event sequence

When a request is made to a page containing the form component, the following sequence of events occurs.

- 1. The form component looks up the form configuration for the item being requested.
- 2. The form component retrieves the list of fields to display (if any) and requests a form definition for those fields and the item from the form service via its REST API.
- 3. The form service looks for a form processor that can process the kind of item.
- 4. The form processor is asked to generate a form definition.
- 5. The form processor executes any registered filters before and after the main processing.
- 6. The REST API takes the result from the form processor/form service and constructs the form definition JSON response.
- 7. The form component receives the result from the form service and combines it with the form configuration to produce the form UI model.
- 8. The form component Freemarker template iterates around the fields and includes the relevant controls.
- 9. The form component Freemarker template instantiates the FormUI JavaScript component.
- 10. The FormUI JavaScript instantiates the forms runtime and registers all validation handlers.

For a description of the available form controls, refer to Forms reference [48]

At this point, the form is ready for the user to interact. When the user interacts with the form, the forms runtime constantly checks the validation rules enabling and disabling the Submit button appropriately. When the user submits the form, the following sequence of events occurs.

- 1. The browser submits the form by calling the REST API.
- 2. The form service looks for a form processor that can process the kind of item.
- 3. The form processor is asked to persist the form data.
- 4. The form processor executes any registered filters before and after the main processing.
- 5. The REST API takes the result from the form processor/form service and constructs the JSON response.
- 6. The browser receives the response and processes it appropriately.

Parent topic: Forms [12]

# **Configuring forms**

The default forms configuration is specified in the <configRootShare>/classes/alfresco/share-form-config.xml file. This file contains all the default controls and constraint handlers for the Alfresco content model and the form configuration for the cm:content and cm:folder types. This file also contains an example of configuring the cm:content type.

You should apply all your forms customizations to a custom configuration file. To configure forms for the Share application, use the custom configuration file named share-config-custom.xml.

- 1. Open the <web-extension>/share-config-custom.xml file.
- 2. Modify the forms configuration settings using the XML configuration syntax.
- 3. Save the file without the .sample extension.

Parent topic: Forms [12]

# **Customizing forms controls**

One of the most common customization is to add new controls. A control is the label for a field and the interface that the user interacts with for setting the value of the field.

A control is a Freemarker template snippet that includes the markup to define the control. The model for the template includes the field and form being generated, represented by a field and form object, respectively. The following snippet shows the structure of the field object, using the cm:name property as an example:

```
kind: "field",
    id: "prop_cm_name",
    configName: "cm:name",
    name: "prop_cm_name",
    dataType: "d:text",
    type: "property",
    label: "Name",
    description: "Name",
    mandatory: true
    disabled: false,
    repeating: false,
    dataKeyName: "prop_cm_name",
    value: "plain-content.txt",
    control:
    {
        params: {},
        template: "controls/textfield.ftl"
    }
}
```

Although the id property provides a unique identifier for the field, it is only scoped to the current form. If there are multiple forms on the page containing the same field, this identifier will not be unique. The model property fieldHtmlId should be used as the identifier for the control, as this is guaranteed to be unique for the page.

The state of the disabled property must always be adhered to when implementing controls as this is driven from the field definition returned from the FormService and from the read-only attribute in the form configuration. If the disabled property is set to true, the control should never allow the value to be edited.

The control is also responsible for rendering an appropriate UI representation for the mode the form is currently in. The form mode can be retrieved from the form, mode property. A pattern used by most the out-of-the-box controls is shown below.

```
<#if form.mode == "view">
   // view representation goes here...
<#else>
   // edit and create representation goes here...
</#if>
```

The final rule for controls is that they must supply the field current value in a DOM element that has a value property and the id property set to the value of fieldHtmlId Freemarker variable.

For advanced controls, that is, association, date, period, and so on, this usually requires a hidden form field.

Parent topic: Forms [12]

## **Customizing the validation handler**

A validation handler is a small JavaScript function that gets called by the forms runtime when a field value needs to be validated. The interface for a validation handler is shown below.

```
/**
  * Validation handler for a field.
  *
  * @param field {object} The element representing the field the validation is for
  * @param args {object} Object containing arguments for the handler
  * @param event {object} The event that caused this handler to be called, maybe null
  * @param form {object} The forms runtime class instance the field is being managed by
  * @param silent {boolean} Determines whether the user should be informed upon failure
  * @param message {string} Message to display when validation fails, maybe null
  * @static
  */
function handler-name(field, args, event, form, silent, message)
```

The definition of the built in "mandatory" validation handler is shown below.

```
Alfresco.forms.validation.mandatory = function mandatory(field, args, event, form, silent, message)
```

The field parameter is usually the HTML DOM element representing the field's value, which is normally an HTML input DOM element, so that the value property can be accessed. The structure of the args parameter is dependent on the handler being implemented. By default, these will be the parameters of the constraint defined on the field.

The handler is responsible for taking the value from the field and uses the args parameter to calculate whether the current value is valid or not, returning true if it is valid and false if it is not.

Parent topic: Forms [12]

# Displaying type metadata

The configuration to define the fields for the cm:content type exists in the system file called web-framework-config-commons.xml. You can configure the type metadata in the share-config-custom.xml file in <web-extension>. It is also possible to deploy custom configurations via JARs or AMPs. The following snippet shows the forms definition in the share-config-custom.xml file.

```
<config evaluator="node-type" condition="cm:content">
  <forms>
         <field-visibility>
            <show id="cm:name"
            <show id="cm:title" force="true" />
            <show id="cm:description" force="true" />
            <show id="mimetype" />
            <show id="cm:author" force="true" />
            <show id="size" for-mode="view" />
            <show id="cm:creator" for-mode="view" />
            <show id="cm:created" for-mode="view" />
            <show id="cm:modifier" for-mode="view" />
            <show id="cm:modified" for-mode="view" />
         </field-visibility>
      </form>
  </forms>
</config>
```

The configuration defines that the cm:name property is visible in all modes, whereas the cm:creator, cm:created, cm:modifier, and cm:modified properties are visible in view mode only.

The mimetype and size properties are known as transient properties because they do not exist as properties in the model. These properties are formed from the cm:content property. The NodeFormProcessor knows about these properties and generates a field definition to represent them so that they will appear in the forms.

The force attribute ensures that the NodeFormProcessor searches the entire Alfresco content model for the property or association definition before returning anything.

- 1. Open the <web-extension>/share-config-custom.xml file.
- 2. Enter the configuration for custom types.

The following example configuration shows the my:text, my:dateTime and my:association properties being configured for the custom my:example type.

3. Add more fields to the default configuration.

The following example shows how to show the node's DBID property for all cm:content nodes.

Note: The full prefix version of the type is required in the condition attribute.

The force attribute forces the NodeFormProcessor to search the entire Alfresco content model for the property or association definition before returning anything.

Save your file.

Parent topic: Forms [12]

# Displaying aspect metadata

Add the properties and associations defined on aspects by adding them to the list of fields to show for a type. The aspects that appear can be defined on a type by type basis, and you can control the ordering of the fields.

- 1. Open the <web-extension>\share-config-custom.xml file.
  - Note: While you can configure the aspect metadata by directly editing the share-config-custom.xml file in <web-extension>. It is also possible to deploy custom configurations via JARs or AMPs.
- Enter the configuration for custom types.

The following example configuration shows the cm:from and cm:to properties for the cm:effectivity aspect.

```
<config evaluator="node-type" condition="cm:content">
   <forms>
      <form>
         <field-visibility>
            <show id="cm:name" />
            <show id="cm:title" force="true" />
            <show id="cm:description" force="true" />
            <show id="mimetype" />
            <show id="cm:author" force="true" />
            <show id="size" for-mode="view" />
            <show id="cm:creator" for-mode="view" />
<show id="cm:created" for-mode="view" />
            <show id="cm:modifier" for-mode="view" />
            <show id="cm:modified" for-mode="view" />
            <!-- cm:effectivity aspect -->
            <show id="cm:from"/>
            <show id="cm:to"/>
         </field-visibility>
   </forms>
</config>
```

3. Add custom aspects to the default configuration by overriding the configuration.

The following example shows how to add the fields of an example aspect to all forms for the cm:content type.

This will apply the aspects to all cm:content nodes.

- 4. Save the file
- 5. It is also possible to have the fields appear for any type of node to which the aspect is applied. For example, you may wish to display the my:aspectProperty and my:aspectAssociation fields for any type of node to which the my:customAspect is applied:

Parent topic: Forms [12]

# Configuring a form control

Most of the built in controls have parameters, which allow some basic customization.

- 1. Open the <web-extension>\share-config-custom.xml file.
- 2. Change the number of rows and columns used for the textarea control that the cm:description field uses by default.

3. If all textarea controls in the application need to have these settings, configure the control in the default-controls element. For example:

4. Save the file.

Parent topic: Forms [12]

# **Grouping fields**

For longer forms, you can group fields together in logical grouped or nested sections.

- 1. Open the <web-extension>\share-config-custom.xml file.
- 2. Enter the configuration for custom types.

The following example configuration shows how to group some fields from an imaginary custom my: example type.

```
<config evaluator="model-type" condition="my:example">
   <forms>
      <form>
          <field-visibility>
             <show id="cm:name" />
             <show id="my:text" />
             <show id="my:mltext" />
             <show id="my:boolean" />
             <show id="my:int" />
             <show id="my:long" />
             <show id="my:double" />
             <show id="my:float" />
             <show id="my:status" />
             <show id="my:restricted-string" />
             <show id="my:date" />
             <show id="my:dateTime" />
          </field-visibility>
          <appearance>
             <set id="text" appearance="fieldset" label="Text Fields" />
             <set id="number" appearance="panel" label="Number Fields" />
<set id="date" appearance="fieldset" label="Date Fields" />
             <field id="cm:name" set="text" />
<field id="my:text" set="text" />
             <field id="my:mltext" set="text" />
             <field id="my:boolean" set="text" />
             <field id="my:int" set="number" />
             <field id="my:long" set="number" />
             <field id="my:double" set="number" />
             <field id="my:float" set="number" />
             <field id="my:date" set="date" />
             <field id="my:dateTime" set="date" />
          </appearance>
      </form>
   </forms>
```

Nested sets are also supported. Use the parent attribute in the set element. The following example configuration shows the fields of the my:example type in a nested set.

3. Save the file.

Parent topic: Forms [12]

# Changing the default set label

Fields that do not specify a set belong to the implicit default set. They are rendered together, by default, but without any visual grouping.

- 1. Open the <web-extension>\share-config-custom.xml file.
- 2. Enter the configurations for the set label.

The appearance of the default set can be controlled in the same way as other sets, for example, using an identifier of an empty string.

```
<set id="" appearance="panel" />
```

This will render a panel around all the fields with a label of Default.

To specify a different label, add the label attribute. For example, the following label will be General.

```
<set id="" appearance="panel" label="General" />
You can also use a message bundle key.
<set id="" appearance="panel" label-id="form.set.general" />
```

3. Save the file.

Parent topic: Forms [12]

## Providing a custom form control

If none of the out-of-the-box controls are sufficient, you can add new controls and reference them. Controls are Freemarker template snippets, therefore, they contain only the HTML markup required to represent the control. The templates need to be stored in the site-webscripts directory, which will usually be in the application server shared classpath.

The following example configuration shows a very simple custom text field control that always displays with a green background, white text, and 700 pixels wide. For a production system, use a CSS class; however, this example shows a hard coded style.

• The following example configuration shows this control being used for the cm:name property, with a file name of my-textfield.ftl.

Parent topic: Forms [12]

# Changing the field label position

By default, forms are rendered with the field labels positioned above the input control.



To change this layout, provide a custom CSS to override the default style rules. Control dependencies can be provided via custom configuration.

- 1. Add the custom CSS in the custom-label-layout.css file, located in the /custom/forms directory within the web application.
- 2. Add the following configuration:

3. To move the labels to the left of the input control, the following CSS should be present in the custom-label-layout.css file:

```
.form-container label
{
    display: inline;
    float: left;
    text-align: right;
    width: 6em;
    margin-right: 1em;
    margin-top: 0.4em;
}
```

4. Save the file.



The result of this customization is shown as:

Parent topic: Forms [12]

## Providing a custom form template

The default template that renders the form UI generates one column of fields. There are scenarios where more control may be required over the layout. To enable these scenarios, it is possible to replace the default template with a custom template. A different template can be provided for each form mode.

Store the custom templates in the site-webscripts directory, which is usually be in the application server shared classpath.

1. The example below shows the Edit form for the standard cm:content type being configured to render with two columns of fields.

The example template 2-column-edit-form.ftl is available in the distribution in the samples folder.

The following example shows the contents of the 2-column-edit-form.ftl file. It uses some of the Freemarker macros available in form.lib.ftl but supplies its own renderSetWithColumns macro to render the HTML required to create the grid using the YUI grid CSS capabilities.

```
<div id="${formId}-container" class="form-container">
                        <#if form.showCaption?exists && form.showCaption>
                                     \label{lem:continuous} $$ \dim \mathbb{R}^* (\operatorname{div}) - \operatorname{div}^* (\operatorname{div}) 
                        <#if form.mode != "view">
                                    <form id="${form.d}" method="${form.method}" accept-charset="utf-8" enctype="${form.enctype}" action="${form.submissionUrl}
                         <div id="${formId}-fields" class="form-fields">
                                <#list form.items as item>
                                               <#if item.kind == "set">
                                                            <@renderSetWithColumns set=item />
                                                             <@formLib.renderField field=item />
                                                  </#if>
                                     </#list>
                        </div>
                        <#if form.mode != "view">
                                    <@formLib.renderFormButtons formId=formId />
                                     </form>
                         </#if>
            </div>
</#if>
<#macro renderSetWithColumns set>
             <#if set.appearance?exists>
                        <#if set.appearance == "fieldset">
                                    <fieldset><legend>${set.label}</legend>
                         <#elseif set.appearance == "panel">
                                     <div class="form-panel">
                                                 <div class="form-panel-heading">${set.label}</div>
                                                 <div class="form-panel-body">
                        </#if>
             </#if>
             <#list set.children as item>
                        <#if item.kind == "set">
                                     <@renderSetWithColumns set=item />
                                     <#if (item index % 2) == 0>
                                     <div class="yui-g"><div class="yui-u first">
                                     <#else>
                                     <div class="yui-u">
                                     </#if>
                                     <@formLib.renderField field=item />
                                     </div>
                                    <#if ((item index % 2) != 0) || !item has next></div></#if>
                        </#if>
             </#list>
             <#if set.appearance?exists>
                        <#if set.appearance == "fieldset">
                                  </fieldset>
                        <#elseif set.appearance == "panel">
                                               </div>
                                    </div>
                       </#if>
            </#if>
</#macro>
```

2. When the configuration and template is in place, the Edit Metadata page for a cm:content type in Share has the following appearance.



Parent topic: Forms [12]

# **Customizing Alfresco Explorer**

Alfresco Explorer provides a web-based user interface providing document management, collaboration, and administration capabilities.

There are a number of ways of customizing Alfresco Explorer using simple configuration or more programmatic extension.

- Customizing Alfresco Explorer configuration items [49] There are several different ways that you can customize the Explorer configuration items.
   The Explorer configuration file is called web-client-config-custom.xml.
- Alfresco Explorer configuration settings [50] This topic describes some of the configuration settings that can be used to modify the behavior of Alfresco Explorer.

Parent topic: Customizing Explorer and Share [13]

# **Customizing Alfresco Explorer configuration items**

There are several different ways that you can customize the Explorer configuration items. The Explorer configuration file is called web-client-configuration.xml.

- Modify the Explorer configuration file in the <extension> directory.
  - 1. Open the <extension>\web-client-config-custom.xml file.
  - 2. Uncomment any <config> items that you want to enable.
  - Save the file
- · Modify the Explorer configuration file in the repository.
  - 1. Browse to the following space: Company Home > Data Dictionary > Web Client Extensions.
  - 2. Open the web-client-config-custom.xml file.
  - 3. Uncomment any <config> items that you want to enable.
  - 4 Save the file

Use this method to edit a file directly in the repository and then to reload it using the Explorer. This means that you do not have to restart the server and applies versions to the configuration changes.

- · Modify the Explorer configurations within an AMP file.
  - 1. Open the module-context.xml file.
  - 2. Add the following bean definition:

3. Save the file.

Parent topic: Customizing Alfresco Explorer [2]

## Alfresco Explorer configuration settings

This topic describes some of the configuration settings that can be used to modify the behavior of Alfresco Explorer.

The default settings for Explorer are defined in the <configRoot>\classes\alfresco\web-client-config.xml file. To override the default settings and activate the Explorer configurations, add your settings to the <extension>\web-client-config-custom.xml file.

- 1. Open the <extension>\web-client-config-custom.xml.sample file.
- Add your preferred settings to configure Alfresco Explorer. For example, you can set the following:

Property Description < initial-password>admin</initial-password> Sets the initial password for the Alfresco Administrator user (admin) to a password of admin. <user-group-admin>true</user-group-admin> Specifies whether to allow user group administration by an admin user. You can set this to false if you only ever use external user and group control, such as synchronized LDAP. <allow-user-config>true</allow-user-config> Specifies whether to allow users to modify their personal settings in the user console. Set to false to prevent users from changing their passwords or configuring their person settings. <zero-byte-file-upload>false</zero-byte-file-upload> Set to false to prevent empty (zero byte) files from being uploaded. Set to true to be able to upload empty (zero byte) files. <br/>
Spreadcrumb-mode>path</br/>
/breadcrumb-mode> Sets the default path view or a location view. By default, the breadcrumbs in Explorer show the history based on where you have visited. This will show the full path to a space rather than a visit history. <edit-linktype>http</edit-link-type> Sets the edit link type to use for online editing. The default is inline editable. The options are http or webday. Due to heightened security in recent browser versions, it is not advised to use CIFS for online editing. CIFS is not a supported value in the <edit-link-type> setting. <tasks-completed-max-results>100</tasks-completed-max-results> Sets the limit for the number of completed tasks to display. <default-homespace-path>/app:company\_home/app:user\_homes</default-home-space-path> Specifies the path starting point when creating or finding home folders for new users. <nome-space-permission>Consumer</nome-space-permission> Specifies the default permissions to apply to a new users home space when it is first created. This permission is for other users attempting to access that home space. Set to Consumer or an empty value to indicate a private hidden space. For the allowed values, see org.alfresco.service.cmr.security.PermissionService. <initial-location>myalfresco</initial-location> Specifies the default location to display when the browse screen is first shown. This value can be myalfresco, userhome, companyhome, or guesthome. <allow-guest-config>false</allow-guest-config> Set to true allow the Guest user to configure the start location preferences. <cli>clipboard-statusvisible>true</clipboard-status-visible> Specified that a status message displays when an item is added to the clipboard. paste-all-andclear>true</paste-all-and-clear> Specified that the paste all action clears the clipboard. <cifs-url-suffix>.alfresco.org</cifs-url-suffix> Specifies the domain suffix that is appended to the CIFS URL host name. The default is .alfresco.org.

Property	Description
<pre><initial-password>admin</initial-password></pre>	Sets the initial password for the Alfresco Administrator user (admin) to a password of admin.
<user-group-admin>true</user-group-admin>	Specifies whether to allow user group administration by an admin user. You can set this to false if you only ever use external user and group control, such as synchronized LDAP.
<allow-user-config>true</allow-user-config>	Specifies whether to allow users to modify their personal settings in the user console. Set to false to prevent users from changing their passwords or configuring their person settings.
<zero-byte-file-upload>false</zero-byte-file-upload>	Set to false to prevent empty (zero byte) files from being uploaded. Set to true to be able to upload empty (zero byte) files.
<pre><breadcrumb-mode>path</breadcrumb-mode></pre>	Sets the default path view or a location view. By default, the breadcrumbs in Explorer show the history based on where you have visited. This will show the full path to a space rather than

status-visible>

suffix>

<cifs-url-suffix>.alfresco.org</cifs-url-

·	a visit history.
<edit-link-type>http</edit-link-type>	Sets the edit link type to use for online editing. The default is inline editable. The options are <a href="http:orwebdav">http:orwebdav</a> . Note: Due to heightened security in recent browser versions, it is not advised to use CIFS for online editing. CIFS is not a supported value in the <edit-link-type> setting.</edit-link-type>
<tasks-completed-max-results>100</tasks-completed-max-results>	Sets the limit for the number of completed tasks to display.
<pre><default-home-space- path="">/app:company_home/app:user_homes</default-home-space-></pre>	Specifies the path starting point when creating or finding home folders for new users.
<home-space-permission>Consumer</home-space-permission>	Specifies the default permissions to apply to a new users home space when it is first created. This permission is for other users attempting to access that home space. Set to <code>consumer</code> or an empty value to indicate a private hidden space. For the allowed values, see <code>org.alfresco.service.cmr.security.PermissionService.</code>
<pre><initial-location>myalfresco</initial-location></pre>	Specifies the default location to display when the browse screen is first shown. This value can be myalfresco, userhome, companyhome, Or guesthome.
<allow-guest-config>false</allow-guest-config>	Set to true allow the Guest user to configure the start location preferences.
<pre><clipboard-status-visible>true</clipboard-status-visible></pre>	Specified that a status message displays when an item is added to the clipboard.

Other settings that you can modify include the language selection, search controls, and the minimum length of user names, passwords, and group names. These settings are shown in the following tables.

.alfresco.org.

Specifies the domain suffix that is appended to the CIFS URL host name. The default is

<paste-all-and-clear>true</paste-all-and-clear> Specified that the paste all action clears the clipboard.

Language setting	Description
<language-select>true</language-select>	Sets the language selection from the login window. Set to false to select the language from the client browser locale and the language drop-down is not displayed.
<languages></languages>	Shows the list of available language files that are displayed in the login window. Add or remove language entries <language locale="XX_YY">LangName</language> . For example: <language locale="ja_JP">Japanese</language> .

Search settings	Description
<search-minimum>3</search-minimum>	Specifies the minimum number of characters required for a valid search string.
<search-and-terms>false</search-and-terms>	Set to true to enable AND text terms for simple/advanced search.
<search-max-results>500</search-max-results>	Specified the limit for search results. Set to -1 for unlimited results.
<selectors-search-max-results>500</selectors-search-max-results>	Specifies the limit for search results within selectors. Set to -1 for unlimited results.
<pre><invite-users-max-results>500</invite-users-max-results></pre>	Specifies the limit for search results within the invite users wizard. Set to -1 for unlimited results.

Minimum length settings	Description
<pre><username-min-length>2</username-min-length></pre>	Specifies the minimum length for username.
<pre><password-min-length>3</password-min-length></pre>	Specifies the minimum length for password.
<pre><group-name-min-length>3</group-name-min-length></pre>	Specifies the minimum length for group name.

3. Save the <extension>\web-client-config-custom.xml.sample file without the .sample extension.

Parent topic: Customizing Alfresco Explorer [2]

Source URL: http://docs.alfresco.com/4.2/concepts/ch-customize.html

Links:

- [1] http://docs.alfresco.com/../concepts/share-customizing-intro.html
- [2] http://docs.alfresco.com/../concepts/dev-explorer.html
- [3] http://docs.alfresco.com/../concepts/dev-for-developers.html
- [4] http://docs.alfresco.com/dev-extensions-share.html
- [5] http://docs.alfresco.com/../concepts/share-configuration-files.html
- [6] http://docs.alfresco.com/../tasks/share-customizing-custom-config-file.html
- [7] http://docs.alfresco.com/../tasks/share-change-port.html
- [8] http://docs.alfresco.com/../concepts/share-policies.html
- [9] http://docs.alfresco.com/../tasks/usernametypes-mix-config.html
- [10] http://docs.alfresco.com/../concepts/share-repodoclib.html
- [11] http://docs.alfresco.com/../concepts/themes-intro.html
- [12] http://docs.alfresco.com/../concepts/forms-intro.html
- [13] http://docs.alfresco.com/../concepts/ch-customize.html
- [14] http://docs.alfresco.com/../concepts/csfr-policy.html
- [15] http://docs.alfresco.com/../concepts/iframe-policy.html
- [16] http://docs.alfresco.com/../concepts/security-policy.html
- [17] http://docs.alfresco.com/../tasks/share-repodoclib-config.html
- [18] http://docs.alfresco.com/../tasks/share-repodoclib-hide.html
- [19] http://docs.alfresco.com/../concepts/Share-Doclib-Extend-Intro.html
- [20] http://docs.alfresco.com/../concepts/doclib-repository-tier.html
- [21] http://docs.alfresco.com/../concepts/doclib-web-tier.html
- [22] http://docs.alfresco.com/../concepts/doclib-override-extension-examples.html
- [23] http://docs.alfresco.com/../concepts/doclib-client-side-template-and-action-extensions.html [24] http://docs.alfresco.com/../concepts/share-customizing-document-library-views.html
- [25] http://docs.alfresco.com/../concepts/doclib-reference.html
- [26] http://docs.alfresco.com/doclib-jsNode-reference.html
- [27] http://docs.alfresco.com/EXIF-renderer-source-code.html%23Share-doclib-EXIF-renderer-source-code
- [28] http://docs.alfresco.com/../concepts/doclib-jsNode-reference.html
- [29] http://docs.alfresco.com/../concepts/doclib-predefined-evaluators-reference.html
- [30] http://docs.alfresco.com/../concepts/EXIF-renderer-source-code.html
- [31] http://docs.alfresco.com/../tasks/themes-select.html
- [32] http://docs.alfresco.com/../tasks/themes-create.html
- [33] http://docs.alfresco.com/../tasks/themes-edit.html
- [34] http://docs.alfresco.com/../concepts/forms-use.html
- [35] http://docs.alfresco.com/../concepts/forms-mechanism.html
- [36] http://docs.alfresco.com/../concepts/forms-evensequ.html
- [37] http://docs.alfresco.com/../tasks/forms-config.html
- [38] http://docs.alfresco.com/../tasks/forms-controls-custom.html
- [39] http://docs.alfresco.com/../tasks/forms-valhandler.html
- [40] http://docs.alfresco.com/../tasks/forms-type-display.html
- [41] http://docs.alfresco.com/../tasks/forms-aspect-display.html
- [42] http://docs.alfresco.com/../tasks/forms-formcontrol-config.html
- [43] http://docs.alfresco.com/../tasks/forms-grouping-fields.html
- [44] http://docs.alfresco.com/../tasks/forms-setlabel-change.html
- [45] http://docs.alfresco.com/../tasks/forms-custom-formcontrol.html
- [46] http://docs.alfresco.com/../tasks/forms-fieldlable-change.html
- [47] http://docs.alfresco.com/../tasks/forms-custom-formtemplate.html
- [48] http://docs.alfresco.com/forms-reference.html
- [49] http://docs.alfresco.com/../tasks/webclient-customize.html
- [50] http://docs.alfresco.com/../tasks/explorer-config-settings.html