TIBCO ActiveMatrix® BPM Integration with Content Management Systems

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TIBCO Documentation and Support Services

Documentation for this and other TIBCO products is available on the TIBCO Documentation site. This site is updated more frequently than any documentation that might be included with the product. To ensure that you are accessing the latest available help topics, visit:

https://docs.tibco.com

Product-Specific Documentation

Documentation for TIBCO products is not bundled with the software. Instead, it is available on the TIBCO Documentation site. To directly access documentation for this product, double-click the following file:

TIBCO_HOME/release_notes/TIB_amx-bpm_version_docinfo.html

where *TIBCO_HOME* is the top-level directory in which TIBCO products are installed. On Windows, the default *TIBCO_HOME* is C:\tibco. On UNIX systems, the default *TIBCO_HOME* is /opt/tibco.

The following documents for this product can be found on the TIBCO Documentation site:

- TIBCO ActiveMatrix BPM SOA Concepts
- TIBCO ActiveMatrix BPM Concepts
- TIBCO ActiveMatrix BPM Developer's Guide
- TIBCO ActiveMatrix BPM Web Client Developer's Guide
- TIBCO ActiveMatrix BPM Tutorials
- TIBCO ActiveMatrix BPM Business Data Services Developer Guide
- TIBCO ActiveMatrix BPM Case Data User Guide
- TIBCO ActiveMatrix BPM Event Collector Schema Reference
- TIBCO ActiveMatrix BPM Integration with Content Management Systems
- TIBCO ActiveMatrix BPM SOA Composite Development
- TIBCO ActiveMatrix BPM Java Component Development
- TIBCO ActiveMatrix BPM Mediation Component Development
- TIBCO ActiveMatrix BPM Mediation API Reference
- TIBCO ActiveMatrix BPM WebApp Component Development
- TIBCO ActiveMatrix BPM Administration
- TIBCO ActiveMatrix BPM Performance Tuning Guide
- TIBCO ActiveMatrix BPM SOA Administration
- TIBCO ActiveMatrix BPM SOA Administration Tutorials
- TIBCO ActiveMatrix BPM SOA Development Tutorials
- TIBCO ActiveMatrix BPM Client Application Management Guide
- TIBCO ActiveMatrix BPM Client Application Developer's Guide
- TIBCO Openspace User's Guide
- TIBCO Openspace Customization Guide
- TIBCO ActiveMatrix BPM Organization Browser User's Guide (Openspace)
- TIBCO ActiveMatrix BPM Organization Browser User's Guide (Workspace)

- TIBCO ActiveMatrix BPM Spotfire Visualizations
- TIBCO Workspace User's Guide
- TIBCO Workspace Configuration and Customization
- TIBCO Workspace Components Developer Guide
- TIBCO ActiveMatrix BPM Troubleshooting Guide
- TIBCO ActiveMatrix BPM Deployment
- TIBCO ActiveMatrix BPM Hawk Plug-in User's Guide
- TIBCO ActiveMatrix BPM Installation: Developer Server
- TIBCO ActiveMatrix BPM Installation and Configuration
- TIBCO ActiveMatrix BPM Log Viewer
- TIBCO ActiveMatrix BPM Single Sign-On
- Using TIBCO JasperReports for ActiveMatrix BPM

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- For an overview of TIBCO Support, and information about getting started with TIBCO Support, visit this site:
 - http://www.tibco.com/services/support
- If you already have a valid maintenance or support contract, visit this site:
 - https://support.tibco.com

Entry to this site requires a user name and password. If you do not have a user name, you can request one.

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https://community.tibco.com

Content Management Interoperability Services

TIBCO ActiveMatrix BPM supports integration with a CMIS (Content Management Interoperability Services)-compliant ECM (Enterprise Content Management) system.

ECM means the systems used to manage, store, and deliver access to content and documents related to business processes.

CMIS is a standard that defines a domain model and a set of bindings that can be used by applications to work with one or more Content Management repositories or systems. BPM supports the published CMIS 1.0 specification, and in this release supports only the CMIS REST interface (Atom/Pub binding).

In this document, product-specific details will be given that support the use of BPM together with two CMIS-compliant ECM systems. These are:

- Alfresco see http://cmis.alfresco.com/.
- Microsoft SharePoint see http://sharepoint.microsoft.com

TIBCO ActiveMatrix BPM has been validated against these two products. TIBCO ActiveMatrix BPM can also work with other CMIS-compliant ECM systems, but this document does not cover the specific values or parameters that might be needed to connect with any other such products.

BPM Sample CMIS Application

TIBCO ActiveMatrix BPM includes a sample CMIS application. You can set up the sample application provided in TIBCO Business Studio and configure it. You can then either run the sample in Preview, or use it to connect to a content management system at runtime.

This sample is provided as a zip file containing a TIBCO Business Studio project, CMISSample. The project contains forms which you can run either using the Preview facility or by deploying to your BPM server.

The CMIS sample includes a web proxy. The web proxy acts as a gateway for TIBCO ActiveMatrix BPM to the ECM systems that expose their services defined by CMIS version 1.0 as REST services, using the Atom/Pub binding. A properties file is used to configure the web proxy; see The cmisproxyconfig.properties File for further details of the settings in this file.



If your TIBCO Business Studio connects with TIBCO ActiveMatrix BPM using HTTPS, you cannot use the Preview functionality to preview the sample form. This is a result of the way that TIBCO Business Studio handles the connection.

As provided, the sample application can connect to both Alfresco and Microsoft SharePoint services, and display lists of documents provided by those services on the same form. You can then select a document from that list and, assuming you have the appropriate viewer installed, display the document in a browser window.

Using the information in this guide, you can customize the sample application provided to connect with other CMIS-compatible content management services.

Prerequisites

The project has certain prerequisites.

Before you use it, ensure that:

- You have installed the sample project to Studio as described in Installing the BPM Sample CMIS Application.
- The properties file for the sample, **cmisproxyconfig.properties**, is installed along with the other BPM properties files in the folder <code>BPM_CONFIG_FOLDER/bpm/configuration/</code> on the BPM server, and has been configured according to the instructions in The <code>cmisproxyconfig.properties File</code>.
 - (On Windows platforms, the default value for <code>BPM_CONFIG_FOLDER</code> is <code>C:\ProgramData\amx-bpm \tibco\data.)</code>
- Once you have deployed the project to your TIBCO ActiveMatrix BPM runtime, you must have a user set up and mapped in the Organization Browser to the role of Document Reviewer before you can run an instance of the process.

Installing the BPM Sample CMIS Application

The sample CMIS application is supplied in a .zip file that you can import into TIBCO Business Studio. Once you have installed the sample application, you can then either run the sample in Preview, or use it to connect to a content management system at runtime.

Procedure

- Go to the location where you installed TIBCO ActiveMatrix BPM.
 For example, C:\Program Files\tibco\amx-bpm\bpm\n.n\samples\amxbpm-cmis-sample.zip where n.n is the version of BPM that you have installed.
- 2. Unzip amxbpm-cmis-sample.zip to a temporary folder.

- 3. In that temporary folder, locate the file \com.tibco.bpm.samples.cmis\src\CMISSample.zip
- 4. Start TIBCO Business Studio.
- Right-click in the Project Explorer and from the popup menu select Import Existing Studio Projects into Workspace.
- 6. In the **Select Archive File** field, browse to the location of the zipped amxbpm-cmis-sample.zip file.
- 7. The project **CMISSample** is listed in the **Projects**: field. Press **Finish**.
- 8. Ignore any **Warning** symbols that are displayed.

 See "Importing Existing Studio Projects into Workspace" in the *TIBCO Business Studio*™ *Modeling User's Guide* for more information about importing projects.

What to do next

- Ensure that the properties file for the sample, cmisproxyconfig.properties, is installed along with the other BPM properties files in the BPM configuration folder. For example, on Windows platforms, C:\ProgramData\amx-bpm\tibco\data\bpm\configuration.
- Configure the cmisproxyconfig.properties file according to the instructions in The cmisproxyconfig.properties File.
- Once you have deployed the project to your TIBCO ActiveMatrix BPM runtime, you must have a user set up and mapped in the Organization Browser to the role of Document Reviewer before you can run an instance of the process.

Components of the BPM Sample CMIS Project

The CMIS sample contains the files you need to create a project.

These are:

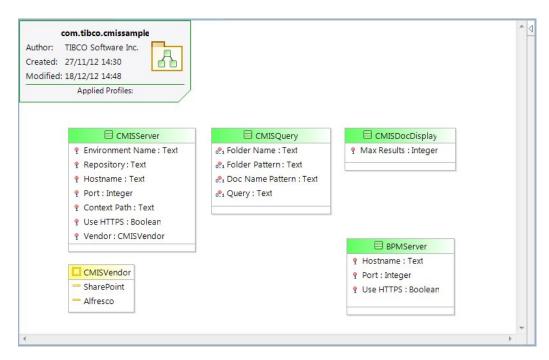
- Forms from which you can access either or both of the ECM systems supported by the sample, and the necessary supporting data for the forms.
- Two Business Object Models (CMISObjects.bom and CMISSample.bom), containing business objects that model the data for the forms.
- An organization model.
- A business process.

BPM CMIS Sample BOM Objects

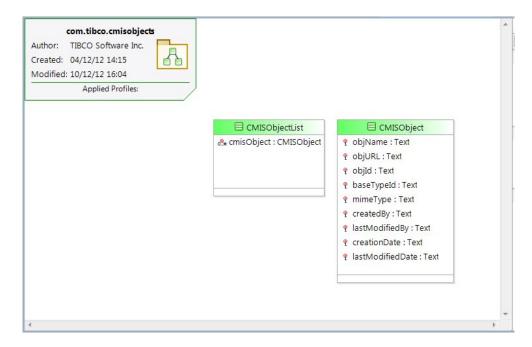
The sample project contains two Business Object Models that contain the business objects that are required to run the CMIS sample application.

The business object models are:

• CMISSample.bom - This object model contains the following objects:



- Four classes. These are mutually exclusive, so only one of the four can be set at any one time:
 - The CMISServer class contains information required for the connection to the ECM system.
 For example, one instance of this class can contain the values for Alfresco and another for SharePoint.
 - The CMISQuery class is used for a query to the ECM system.
 - The CMISDocDisplay class controls how many documents to display in the form.
 - The BPMServer class contains the information for the connectivity to ActiveMatrix BPM.
- The CMISVendor enumeration lists the available ECM system vendors. In the sample, these are Alfresco and SharePoint.
- CMISObjects.bom This object model contains the following objects:

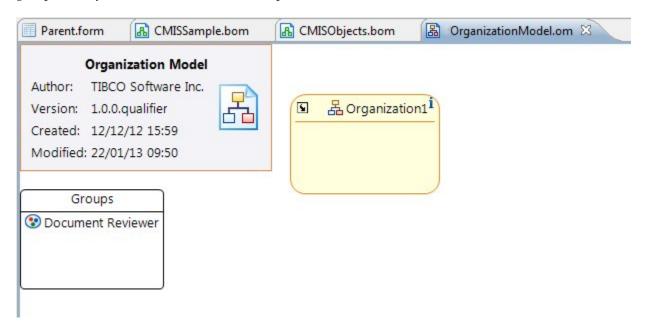


- The CMISObject class contains parameters that provide information about the documents that will be listed in the form. For example, the document name, creator, and ID.
- The CMISObjectList class contains a list of CMISObjects.

BPM CMIS Sample Organization Model

The sample project includes an organization model. The Organization model enables you to run an instance of the process in the CMIS sample application.

This organization model contains a Group called Document Reviewer. Once you have deployed the sample application on your BPM runtime, you must assign at least one user to the Document Reviewer group before you can run an instance of the process.



BPM CMIS Sample Forms

The sample contains two forms, used to display the information handled by the appropriate ECM system.

CMIS. form is an embeddable form (a template) that is used to display the list of documents handled
by the appropriate ECM system. When you display the form in preview mode — or indeed when it
is run — it takes a set of parameters that identity the ECM system to which it is intended to connect.



Multiple instances of CMIS.form could thus be used to connect to multiple ECM systems. However, you would need to modify the CallToCmis JavaScript to permit multiple instances of the same ECM system in a single parent form.

The form uses standard TIBCO controls and functionality. See the TIBCO Business Studio TM Forms User's Guide for more information on these.

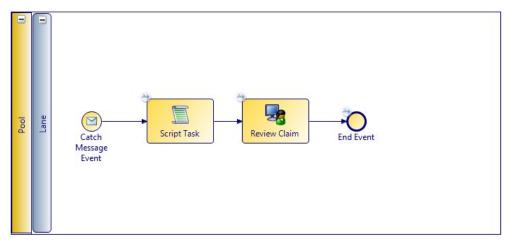
• Parent.form is a form in which two copies of CMIS.form are embedded, one for each of the two validated ECM providers.



BPM CMIS Sample Business Process

The sample includes a business process and business service. It represents a typical process for accessing documents from ECM systems.

This is called CMISSample-Process, with a corresponding business service.



The process contains two tasks:

- Script Task: This task runs a script which configures the settings for the sample application.
- Review Claim: This is a typical user task which might use documents accessed from the ECM systems.

Configuring the BPM CMIS Sample Application

A sample CMIS application is provided as part of TIBCO ActiveMatrix BPM installation. Before you run the CMIS sample application, you need to configure it with details including the location of the BPM server.

You can configure the sample application in either, or both, of the following ways:

- If you want to view the form using the TIBCO Business Studio Preview facilities, you need to specify settings in the JSON files that are generated when you select to preview a form.
- If you want to deploy the sample application, you need to specify the settings in the script task in the CMIS sample process.

In either case, you need to specify values for the following items:

Data	Meaning and example value
Repository details	Details needed to connect to the CMIS repository. There must be one set of these parameters for each repository that is used: for example, in the sample as delivered, these details are duplicated for Alfresco and for SharePoint. For example:
	<pre>SharePointCMISServer = com_tibco_cmissample_Factory.createCMISServer(); SharePointCMISServer.environmentName = "SharePoint"; SharePointCMISServer.hostname = "uk-spoint"; SharePointCMISServer.port = 80; SharePointCMISServer.repository = "b3d47494-1cba-4cba-9a4f-754aab8d0a03"; SharePointCMISServer.contextPath = "sites/cmisrepo/_vti_bin/cmis/rest"; SharePointCMISServer.useHTTPS = false; SharePointCMISServer.vendor = CMISVendor.SHAREPOINT;</pre>
Query details	Details needed for a query to the CMIS system. There must be one set of these parameters for each repository that is used: for example, in the sample as delivered, these details are duplicated for Alfresco and for SharePoint. For example:
	<pre>SharePointCMISQuery = com_tibco_cmissample_Factory.createCMISQuery(); SharePointCMISQuery.folderName = "Userspace";</pre>
Document display	This parameter records how many records should be displayed at once on the form. For example:
	<pre>CMISDocDisplay = com_tibco_cmissample_Factory.createCMISDocDisplay(); CMISDocDisplay.maxResults = 20;</pre>
The following ite	em is only entered in the JSON files
BPM server details	The details of the BPM server to connect with when using the Preview function. This includes:
	• The host name or IP address. This defaults to localhost.
	The port number for the BPM server.
	 Whether the HTTPS protocol is used for the connection. This defaults to false, meaning that HTTP would be used for the connection.
	For example: "hostname": "10.100.87.112", "port": "8080 ", "useHTTPS": " outputclass="ID-000000d9">false"}
	If your TIBCO Business Studio connects with TIBCO ActiveMatrix BPM using HTTPS, you cannot use the Preview functionality to preview the sample form. This is a result of the way that TIBCO Business Studio handles the connection.

Data	Meaning and example value
The following items are only entered in your copy of CMIS.data.json	
Username	The name of the user under which BPM is accessed when using the Preview function. For example: "username", "\$value": "Clint Hill"
Password	The BPM password for the above username. For example: "password", "\$value": "easyAs2013"

The exact way that you set out these details varies between the JSON files for the forms and the script task in the business process. For example, the following line from a JSON file:

```
{ "$param": "AlfrescoCMISQuery", "$value":
{"$type": "com.tibco.cmissample.CMISQuery", folderName":
"Userspace", "folderPattern": " ", "docNamePattern": " ", "query": " "}},

corresponds to the following line in the script task:
AlfrescoCMISQuery = com_tibco_cmissample_Factory.createCMISQuery();
AlfrescoCMISQuery.folderName = "Userspace";
```

Running the BPM CMIS Sample in Preview

You can use the sample project without needing to deploy it to TIBCO ActiveMatrix BPM, using the Preview facilities of TIBCO Business Studio.

Procedure

- 1. Ensure that TIBCO ActiveMatrix BPM is installed and running.
- 2. Select Forms > Parent > Parent.form.
- 3. Click the **GWT Preview** tab.

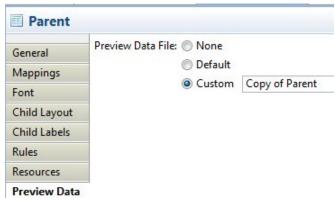
Two JSON forms are created:

- Parent.data.json is created in the same directory as parent.form.
- CMIS.data.json is created in the same directory as the embedded cmis.form.
- Make a copy of each of these .JSON files, in the same folder as the original.



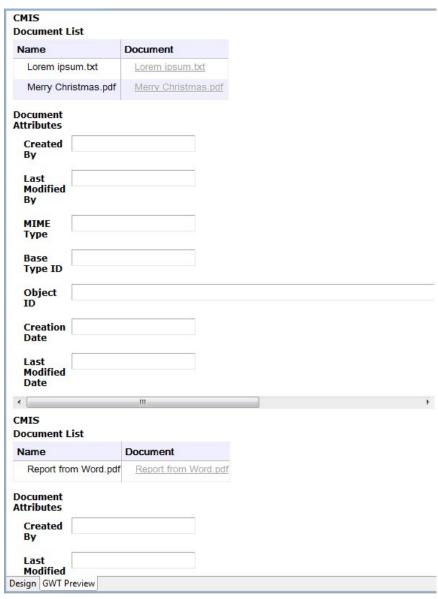
A warning dialog is displayed if you try to edit an original generated JSON file. You should always copy the generated file and edit that instead.

- 5. Configure the application as described in Configuring the BPM CMIS Sample Application on page 11 by changing the default values in your copies of both Parent.data.json and CMIS.data.json to the correct values for your BPM installation and the CMIS repository (or repositories) you are connecting to.
- 6. Select Forms Parent Parent.form to open it.
- 7. On the **Preview Data** tab of the Properties view, for **Preview Data File:**, select the **Custom** radio button
- 8. From the drop-down list, select your copy of the Parent.data.json file in this example, called Copy of Parent.



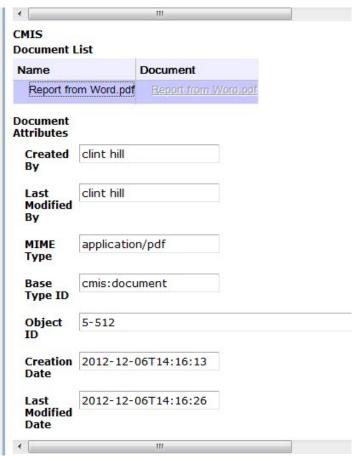
9. Select the **GWT Preview** pane on the form.

The form is populated with the list of documents provided by the ECM system. In this sample, that means that the sample documents provided for both Sharepoint and Alfresco are displayed.



10. Select a document.

The **Document Attributes** fields are populated with that document's properties.



11. Double-click on the link to a sample document in the **Document** field. (In some environments you need to right-click the link and select **Open**.)

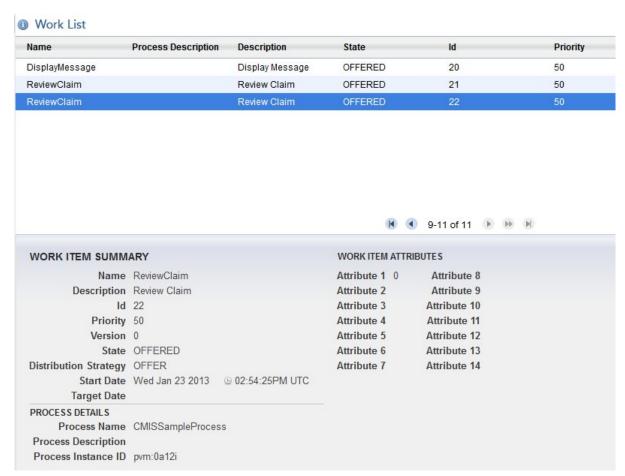
The document is downloaded to your computer.

Deploying and Running the BPM CMIS Sample

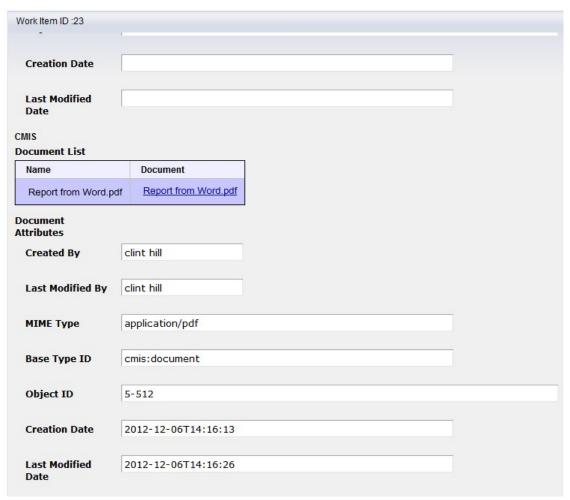
As an alternative to using Preview, you can deploy and run the sample in BPM.

Procedure

- 1. Deploy the CMISSample project to your BPM server.
 - If this is the first time that you have deployed CMISSample, the deployment adds the **Document Reviewer** group to the deployed organization model. If so, you should:
 - a) Log in to Openspace as a user who has authority to use the Organization Browser.
 - b) Use the Organization Browser to assign at least one user to the **Document Reviewer** group.
 - c) Log out.
- 2. Log in to Openspace as the user who has been assigned as Document Reviewer.
- 3. Select **Business Services** and start a new instance of CMISSample.
 - Press **OK** on the "Invoked Business Service with no User Tasks" warning.
- 4. Switch to Work Views.
 - A work item produced by CMISSampleProcess is displayed.



5. Double-click to start the item. The **Parent** form displays.



- 6. Select a document in the list.
 - The **Document Attributes** fields are populated with that document's properties.
- Double-click on the link to a sample document in the **Document** field. (In some environments you need to right-click the link and select **Open**.)
 The document is downloaded to your computer.

The cmisproxyconfig.properties File

The properties file cmisproxyconfig.properties is supplied with the CMIS sample application. The properties file is used to configure the web proxy that acts as a gateway for TIBCO ActiveMatrix BPM to the ECM systems.

This properties file is located together with other ActiveMatrix BPM properties files, in the BPM configuration folder. For example, on Windows platforms, the default value is C:\ProgramData\amx-bpm\tibco\data\bpm\configuration\.

This file is created during a new installation of TIBCO ActiveMatrix BPM, but not when you upgrade TIBCO ActiveMatrix BPM from a version earlier than 2.1.



If you are using an upgraded system, obtain the cmisproxyconfig.properties file from TIBCO Support, and copy it to the BPM configuration folder. For example, C:\ProgramData\amx-bpm\tibco\data\bpm\configuration\ folder.

The file is used to obfuscate the user name for the CMIS sample, and to act as a gateway to the content management systems.

The first entry in the file is the monitor.enable property which is standard in BPM properties files. See "Configuring TIBCO ActiveMatrix BPM Components" in *TIBCO ActiveMatrix BPM Administration* for this property and for general information on using properties files.

The remaining entries in the file cover:

- Repositories and User Identification
- Whitelist Addresses

Repositories and User Identification

The username and password used to log in to a content management system can be supplied from the cmisproxyconfig.properties file.

You can define a series of repository locations with the username and password for each, each set separated by commas. Enter values in the form:

<repolocation; encodedcredentials>

where *encodedcredentials* is *username:password* encoded as Base64. You must encode the *username:password* combination as one string, including the colon. Several tools that you can use to perform the Base64 encoding are publicly available.

Whitelist Addresses

The web proxy component of the CMIS sample can connect only to those destinations that are specified in the <code>cmisproxyconfig.properties</code> file. These permitted addresses are referred to as "whitelist" addresses.

In the file you can specify both whitelist URLs and whitelist domains. Either may be HTTP or HTTPS addresses. A destination address must match a whitelist URL exactly, including any query string or other parameters that form part of it, in order to be accepted. If it does not match, the destination is then compared to the defined whitelist domains to see if it matches any of those.

For example, if the configuration file contains the following:

whiteListUrls=http://targetdomain:80/docsite/repo1/report2012?id=B2734, http://
targetdomain:80/docsite/repo1/report2012?id=D19

whiteListDomains=http://anotherdomain:80/docsite

then:

- A call to http://targetdomain:80/docsite/repo1/report2012?id=D19 succeeds.
- A call to http://targetdomain:80/docsite/repo1/report2012 fails, because it does not exactly match any defined whiteListUrl. It is then checked against the whiteListDomains list, and fails there as well.
- A call to http://anotherdomain:8080/docsite/repo1/report2012?id=D19 is checked against whiteListUrls and fails. It is then checked against whiteListDomains, and accepted.