CORE - caDSR : caDSR Form Builder Tool 4.0 Installation

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Introduction

The purpose of this document is to detail the Installation Steps and Site Configuration Options for the caDSR Form Builder Tool Version 4.0.0.0. The Form Builder Tool source and all related documentation can be accessed at http://gforge.nci.nih.gov/projects/formbuilder. All caCORE companion projects can be referenced from http://gforge.nci.nih.gov.

Pre-requisites

The caDSR Form Builder Tool project conforms to the NCICB Auto Deploy Project Template (Wiki, PDF). All such projects are installed by identical steps as detailed in the NCICB Auto Deploy Project Installation (Wiki, PDF). Exceptions will be noted below.

Installation Steps

1. Download the project package from the NCICB Download Site.
2. Extract all project files into the desired location. For the purpose of this document, / formbuilder-4000/ is assumed to be the project root folder. File references beginning with "./" can be found in the project path from this root.
3. Create an Ant properties file, named **build.properties**, using the ./template.build.properties and the Auto Deploy Project Installation (noted above).

   ⚠ Always start with the template.build.properties as it describes the specific properties used for this project. The Auto Deploy document lists all property descriptions used across all Auto Deploy projects, not all properties are required in all projects. The properties in the template.build.properies must be cross referenced back to the supporting documentation.
4. Review the ./conf/template.load_tool_options.sql file. This file contains defaults for the dynamic runtime values used during specific tasks in the Form Builder Tool. The Runtime Options section below provides more specifics about each.
5. Execute ant -DPROP.FILE=build.properties -f build.xml build-all deploy
   The project will be built and deployed per the property settings in the build.properties file.
6. Start JBoss if not started, restart JBoss if already started. An issue was found in the JBoss hot-deploy that will exhaust executable memory if it is not restarted after a new WAR/EAR is deployed.
7. Open a browser and enter http://<server>/FormBuilder/ to start the Form Builder Tool.

   ⚠ When deployed to a secure server enter https://<server>/FormBuilder/.

   ⚠ The user must have access to the server and in some environments this may require running a Virtual Private Network (VPN) connection.

   ⚠ Form Builder Tool 4.0.0.0 has only been certified with IE 7 and above. Firefox and other browsers may be used but may not behave properly and may encounter Javascript issues.

ℹ Optionally the software may be installed on a secure server as "https". When this is done it may be necessary to install trusted security certificates on multiple servers to allow for programmatic access between applications.

Runtime Options

Some of the Form Builder Tool logic are controlled by configuration options stored in a table within the caDSR database. These options are set via the script load_tool_options.sql located at 'formbuilder/conf/<tier_name>, where <tier_name> can be stage, prod etc. The options contained in this script allow for dynamic changes without the need to build or deploy a formbuilder.ear file.
The options are identified by the tool name and a property. For the Form Builder Tool the tool name in the script is always 'FormBuilder'. Details of the property and values of the configuration options follow. Each is identified by the property name followed by a description of its use. In addition to the information provided here there are extensive comments in the load_tool_options.sql file concerning valid values for each property.

1. URL
   The URL to access the Form Builder Tool Login page, should be stored in the format - "http//<Form Builder Tool Alias>". E.g. NCICB production is http://formbuilder.nci.nih.gov. If <Form Builder Tool Alias> does not exist it should follow this format - "http//<server_name>:<port>/FormBuilder"
2. XML_DOWNLOAD_DIR
   The directory for file cache to download the forms to excel. E.g /local/content/formbuilder/output/. This directory must exist in the application server.
3. XML_PAGINATION_FLAG
   A flag for the pagination for download action.
4. XML_FILE_MAX_RECORDS
   A Value set for maximum file records created for form download.

Required Technology

The product versions which follow were used during the development and system testing of the caDSR Form Builder Tool. Although new versions of the products have been released they have not yet been certified with the Form Builder Tool Version 4.0.

⚠ Deviating in any way from the products and versions listed below may cause errors. When attempting to deploy the Form Builder Tool to a different technology stack, please first deploy as documented in this Installation Guide and then begin the migration.

Product	Version	Web Site & Notes
JBoss	4.0.5	http://www.jboss.org/downloads/index
JDK	1.5.0_10	http://java.sun.com/j2se/1.5.0/ Recommend downloading the J2EE 1.5 SDK.
ANT	1.6.5	http://ant.apache.org/
Eclipse	Current	http://www.eclipse.org/platform/ This is a development environment only and provides no runtime or build components.
IE	7.0+	http://www.microsoft.com/windows/ie/downloads This is the latest Internet Explorer from Microsoft.

Troubleshooting

Following is a list of known errors and resolutions that may occur during the build and deployment process. If you have a question or situation not covered in this document please contact the NCICB Help Desk via email at ncicb@pop.nci.nih.gov.

1. The Form Builder Login screen appears and a valid user name and password is not accepted.
   - Verify the login credentials entered are valid.
   - Verify the username and password entered in the build.properties (above) are valid.
   - Recommend using an independent database application, e.g. SQL Plus, TOAD, etc, to verify the connection credentials.
   - After the third attempt to login, user may have been locked out.
2. Using Firefox, Mozilla and other web browsers.
   - The Form Builder Tool has only been certified with Microsoft Internet Explorer version 7.0 and higher.
3. java.net.bind.exception JVM_8080 port not available.
   - Correct the JBoss installation.
4. Error in CDE Cart Display.
   - Make sure that objectcart url is stored in tool options table and secure certificate for object cart is installed.
5. Data Element public id links display page cannot be found or display error.
   - Make sure that CDE Browser is working and URL in the tool options is valid.