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BIRT iHub Visualization Platform



Installing an Actuate BIRT Java Component

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About *Installing an Actuate BIRT Java Component*



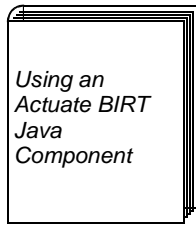

Installing an Actuate BIRT Java Component includes the following chapters:

- *About Installing an Actuate BIRT Java Component.* Provides an overview of this guide and a summary of Actuate Java Components documentation.
- *Chapter 1. Before you begin.* Explains Java Components capabilities, installation prerequisites, and licensing.
- *Chapter 2. Deploying a Java Component.* Covers editing parameters for using Java Components and deploying the Java Components war file.
- *Chapter 3. Using a Java Component.* Describes testing, using, and licensing a Java Component.

Accessing Actuate BIRT Java Components information

The online documentation includes the materials described in Table I-1. You can obtain HTML and PDF files from the Actuate web site. These documentation files are updated in response to customer requirements.

Table I-1 Product documentation

For information about this topic	See the following resource
Installing and configuring Actuate BIRT Java Components	 <p><i>Installing an Actuate BIRT Java Component</i></p>
Overview of Report Studio concepts Designing, editing, and formatting reports Organizing and filtering data, presenting data in a chart; inserting calculated data; functions and operators reference Creating and publishing report templates; configuring and customizing Report Studio pages	 <p><i>Using Report Studio - Java Component Edition</i></p>
Introduction to the Deployment Kit and Viewers, including concepts and online reporting Accessing files and folders; running reports Introduction to report viewers Navigating, printing and exporting to other formats Organizing and formatting a cross tab BIRT Interactive Viewer: Formatting reports, organizing data, working with charts, and hiding and filtering data	 <p><i>Using an Actuate BIRT Java Component</i></p>
Overview of Java Component concepts and the web applications Using, customizing, and configuring Java Components Using the code components for JSPs, URL parameters, JavaScript files, Java servlets, Java Beans, and security facilities Overview of concepts for programming with Actuate JavaScript Creating custom pages using Actuate JavaScript Reference of Actuate JavaScript classes and methods	 <p><i>Actuate Java Components Developer Guide</i></p>

Obtaining documentation

Actuate provides technical documentation in PDF and HTML formats. You can download PDF or view HTML versions of the documentation from developer.actuate.com/resources/documentation/ihub/ihub3/.

Obtaining late-breaking information and documentation updates

The release notes contain late-breaking news about Actuate products and features. The release notes are available on the Actuate Support site at the following URL:

<http://support.actuate.com/documentation/releasenotes>

If you are a new user, you must first register on the site and log in to view the release notes. actuate.com also provides product update information.

Obtaining technical support

You can contact Customer Support by e-mail or telephone. For contact information, go to the following URL:

<http://www.actuate.com/services/support/contact-support.asp>

Supported and obsolete products

The Actuate Support Lifecycle Policy and Supported Products Matrix are available on the Actuate Support web site at the following URL:

<http://support.actuate.com/documentation/spm>

1

Before you begin

This chapter discusses the following topics:

- About deployment formats
- Checking installation prerequisites
- About the license key file

About Actuate Java Components

Actuate Java Components provide a complete reporting technology consisting of a report designer, report distribution in files and folders, and viewing or interactive viewing of reports. The following list describes each component:

- **BIRT Deployment Kit**
A file and folder browser that optimizes performance and viewing of BIRT reports
- **BIRT Interactive Viewer**
A viewer that you can use to customize and personalize a BIRT report to answer ad hoc business questions
- **BIRT Viewer**
A viewer for BIRT reports that extends the capabilities of BIRT to deliver rich dynamic content and display aggregate data in cross tabs
- **Report Studio**
A web-based BIRT report designer for creating reports that can include charts and graphs

About deployment formats

You can install Java Components on Windows or Linux. Actuate provides Java Components in WAR and EAR formats. These formats are suitable for deployment on application servers shown in Table 1-1.

Table 1-1 Java Component deployment formats

File	Application server
WL_TOMCAT_ ActuateBIRTJavaComponent.war	Apache Tomcat BEA WebLogic
JBOSS_ActuateBIRTJavaComponent.ear	JBoss
WAS_ActuateBIRTJavaComponent.ear	IBM WebSphere

Apache Tomcat web server does not support EAR deployment. Only the JBoss and WebSphere application servers support EAR deployment. The specific versions of each server that Actuate supports are listed in the Supported Product Matrix (SPM) available on the Actuate Support website:

<http://support.actuate.com/documentation/spm>

Checking installation prerequisites

Before you deploy a Java Component, ensure that your system meets the following requirements:

- Java Development Kit 7 (JDK)
You need to use the JAR utility included in the JDK to decompress and compress the Java Components archive. Java Components also require the Java Runtime Environment (JRE) 7 included in the JDK. The Deployment Kits require the use of the local JVM and cannot differentiate multiple JVMs on the same machine. Therefore, you must install Deployment Kit with only one JVM.
- An application server
Java Components run as a web application in the application server, such as Apache Tomcat or JBoss.
- Administrators group privileges on Windows, or root privileges on Linux
- Permission to start and stop the application server
- A Java Virtual Machine and Web Server configured for the same application platform, either 32-bit or 64-bit

About the license key file

You can download Actuate BIRT Java Components from an electronic download site. Included in the download is an evaluation license for using each of the components for a limited time.

If you install products using the evaluation license, you do not need to reinstall before you activate the permanent license. To arrange for a permanent license key file, contact Actuate Customer Care at customer care@actuate.com. If you are an international customer, your request routes to a team in international distribution. If you are not a direct Actuate customer, the partner or distributor who provides the product arranges for your license key file. The name for an Actuate Java Component license key file uses the following format:

```
Actuate_AJC_key_<ID>.xml
```

<ID> is a unique number generated by Actuate Licensing when it creates the license key file. You receive an e-mail that contains the permanent license key file information when Actuate processes your order.

If the license file does not exist, is invalid, or has expired, an error appears in the reportService log file, described later. When the license is invalid or expired, Java Components load, but any attempt to access an Actuate application, including the

login page, results in an error. If you have a problem with a license key file, contact Actuate Customer Care at customer care@actuate.com.

2

Deploying a Java Component

This chapter discusses the following topics:

- Setting web application parameters
- Compressing files and renaming the WAR file
- Deploying the WAR file

Setting web application parameters

The first step in deploying the Java Component WAR file is editing the web.xml file. Extract web.xml from the WAR file, then edit web.xml to set configuration parameters for one or more components that you purchased or are evaluating. The tables in this section describe these parameters and actions you take. Perform these actions as you edit web.xml.

How to edit web.xml

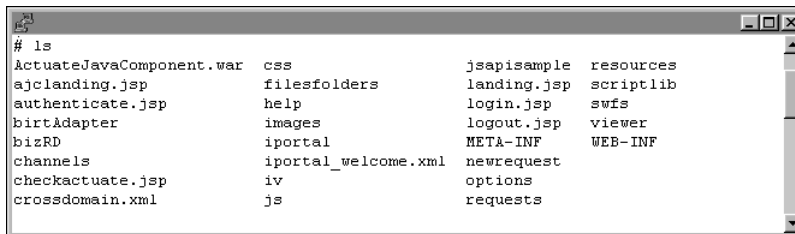
To access web.xml for editing, first decompress the WAR file that contains web.xml. Next, configure parameters for the Java Components that you want to use.

- 1 Create a directory named /temp. Java Components writes temporary files to this directory after deployment.
- 2 Decompress the ActuateJavaComponent.war file in a subdirectory of /temp. Type the following command:

```
jar -xf ActuateJavaComponent.war
```

Use this command on Windows or Linux. The BIRT Java Component files appear in the subdirectory of /temp.

Figure 2-1 shows these files on Linux.



```
# ls
ActuateJavaComponent.war  css                jsapisample       resources
ajclanding.jsp           filesfolders       landing.jsp        scriptlib
authenticate.jsp          help               login.jsp          swfs
birtAdapter              images             logout.jsp         viewer
bizRD                     iportal            META-INF          WEB-INF
channels                  iportal_welcome.xml newrequest
checkactuate.jsp         iv                 options
crossdomain.xml          js                 requests
```

Figure 2-1 Files extracted from ActuateJavaComponent.war

Keep all downloaded files together in their original relative locations.

- 3 Using a text editor that accepts UTF-8 encoding, edit web.xml in /WEB-INF to configure the parameters for the BIRT Java Components you purchased or are evaluating.
- 4 Save and close web.xml.
- 5 Perform this step only if you are deploying BIRT Java Component using one of the following WAR files:
 - WAS_ActuateBIRTJavaComponent.war

For deploying Information Console to the IBM WebSphere application server. WAS_ActuateBIRTJavaComponent.ear contains WAS_ActuateBIRTJavaComponent.war.

- WL_ActuateBIRTJavaComponent.war
For deploying Information Console to the Oracle WebLogic application server.

Remove the WEB-INF/lib/el-api.jar file from the WAR file if the /lib directory for your application server also contains el-api.jar. The presence of el-api.jar in both the Information Console WEB-INF/lib directory and the application server /lib directory may cause errors.

Configuring locale parameters

The locale parameters, described in Table 2-1, are applicable to all Java Components.

Table 2-1 Locale parameters

Parameter name	Description	Action
DEFAULT_LOCALE	The value of this parameter determines the default locale. The default locale is en_US. Users can select a locale when they log in.	Use the default locale or a value from Localemap.xml in the WEB-INF directory.
DEFAULT_TIMEZONE	The value of this parameter determines the default time zone. The default time zone is Pacific Standard Time (PST).	Use the default time zone or a value from Timezonemap.xml in the WEB-INF directory.

For example, changing the DEFAULT_LOCALE parameter value to es_ES changes the locale to Spain, and the interface changes to Spanish, as shown in Figure 2-3.



Figure 2-2 Using the Actuate Java Components interface localized to Spain

Configuring parameters for Deployment Kit

The components for BIRT Deployment Kit have additional core configuration parameters in `web.xml`. Table 2-2 describes these parameters. Update these parameters before deployment.

For BIRT Deployment Kit, also review the parameters described in Table 2-3.

Table 2-2 Deployment Kit parameters

Parameter name	Description	Action
LOG_FILE_LOCATION	The location of the files that log Deployment Kit activities.	You must create this physical location on the file system. The default value is <code>/logs</code> .
TEMP_FOLDER_LOCATION	The location where Deployment Kit creates temporary files.	You must create this physical location on the file system. There is no default value.
TRANSIENT_STORE_PATH	Another location where Deployment Kit creates temporary files.	You must create this physical location on the file system. The default value is <code>/temp</code> .

Configuring parameters for BIRT Viewer and BIRT Interactive Viewer

The BIRT Viewer and BIRT Interactive Viewer components also have core configuration parameters in web.xml. Table 2-3 describes these configuration parameters. Consider changing these parameters to optimize performance.

Table 2-3 BIRT Viewer parameters

Parameter name	Description	Action
BIRT_ARCHIVE_MEMORY_TOTALSIZE	Total memory available for BIRT report document files in kilobytes. The default value is 50 MB.	None required
REPOSITORY_CACHE_TIMEOUT_SEC	Specifies, in seconds, how long to retain temporary files that BIRT Viewer creates when a user modifies the appearance of a report. The default value is 900, which is 15 minutes.	None required

Configuring parameters for Report Studio

Report Studio component has one configuration parameter, shown in Table 2-4. Edit the parameter to change the path to BIRT resources. BIRT resources include libraries and templates for Actuate BIRT report designs and Actuate Report Studio.

Table 2-4 Report Studio parameter

Parameter name	Description	Action
BIRT_RESOURCE_PATH	Path to Actuate BIRT shared resources. The default value is the following directory: <code><Tomcat install directory> /webapps/newJavaComponent /resources</code>	None required

Compressing files and renaming the WAR file

After editing the web.xml file, compress and rename the archive. For example, rename the archive newJavaComponent.war. Compress the files into a WAR file of a different name to preserve your original WAR file.

How to compress files and rename the WAR file

- 1 After editing web.xml in the WEB-INF directory, move up one directory.
- 2 Check that files shown in Figure 2-1 are present in your current directory.
- 3 Compress the files and specify a new name for the WAR file. Type the following command:

```
jar -cf newJavaComponent.war *
```

Use this command on Windows or Linux. The WAR file containing the modified configuration values in web.xml appears.

Deploying the WAR file

This section discusses deploying a BIRT Java Component WAR file. For example purposes, deployment on Tomcat 6 is shown.

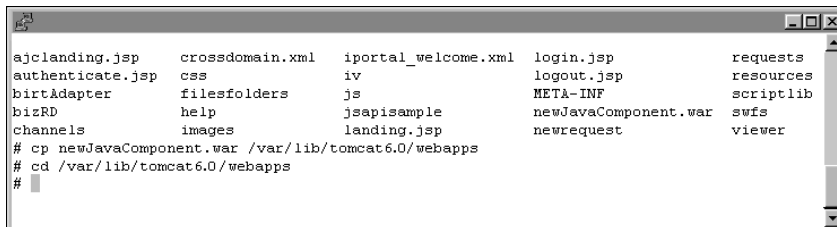
To deploy the WAR file on an application server other than Tomcat 6, use your application server's deployment tools. If your application server does not have deployment tools, add the Java Components context root to your application server. Typically, you modify the application server's configuration file.

Deploying the WAR file on Apache Tomcat

Perform the steps in the following procedure to deploy the WAR file by putting it in the /webapps directory.

How to deploy the WAR file on Apache Tomcat

- 1 Stop the Apache Tomcat service.
- 2 Copy the renamed BIRT Java Component WAR file from the working directory to the /webapps directory of your Tomcat installation files, as shown in Figure 2-3.



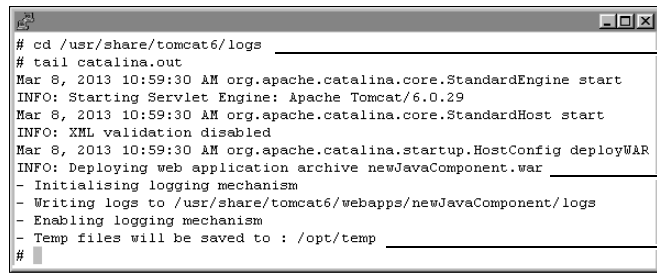
A terminal window showing a directory listing of files and folders. The files listed include ajclanding.jsp, authenticate.jsp, birtAdapter, bizRD, channels, crossdomain.xml, css, filesfolders, help, images, iportal_welcome.xml, iv, js, jsapisample, landing.jsp, login.jsp, logout.jsp, META-INF, newJavaComponent.war, newrequest, requests, resources, scriptlib, swfs, and viewer. Below the listing, the following commands are entered: # cp newJavaComponent.war /var/lib/tomcat6.0/webapps, # cd /var/lib/tomcat6.0/webapps, and #.

Figure 2-3 Copying the WAR file to /webapps on Linux

- 3 Start Tomcat.

The Tomcat log confirms the deployment of the WAR file and the location of the /temp directory that you created earlier.

Figure 2-4 shows an example of a Tomcat log file on Linux.



```
# cd /usr/share/tomcat6/logs
# tail catalina.out
Mar 8, 2013 10:59:30 AM org.apache.catalina.core.StandardEngine start
INFO: Starting Servlet Engine: Apache Tomcat/6.0.29
Mar 8, 2013 10:59:30 AM org.apache.catalina.core.StandardHost start
INFO: XML validation disabled
Mar 8, 2013 10:59:30 AM org.apache.catalina.startup.HostConfig deployWAR
INFO: Deploying web application archive newJavaComponent.war
- Initialising logging mechanism
- Writing logs to /usr/share/tomcat6/webapps/newJavaComponent/logs
- Enabling logging mechanism
- Temp files will be saved to : /opt/temp
#
```

Default Linux path to log

Deployment confirmation

Your temp directory

Figure 2-4 Tomcat log file confirms deployment

Deploying Actuate Java Components EARs to JBoss 6

To deploy Actuate BIRT Java Component EARs to JBoss 6, you must remove the commons-logging.jar library from the EAR file before deploying it. Leaving this file in the EAR causes JBoss 6 to throw an exception during deployment.

The commons-logging.jar file is still necessary for deployments to JBoss 5 and JBoss 7.

To deploy Java Components to JBoss 6, perform the following steps:

- 1 In a separate directory, extract the contents of JBOSS_ActuateBIRTJavaComponent.ear by typing the following command into a command prompt:

```
jar -xf JBOSS_ActuateBIRTJavaComponent.ear
```

Keep all extracted files together in their original relative locations.

- 2 Copy JBOSS_ActuateBIRTJavaComponent.war into a separate directory and extract the contents of JBOSS_ActuateBIRTJavaComponent.war by typing the following command into a command prompt:

```
jar -xf JBOSS_ActuateBIRTJavaComponent.war
```

- 3 Delete <warFile>/WEB-INF/lib/commons-logging.jar.
- 4 Compress the all files in the directory into a war file by typing the following command:

```
jar -cf JBOSS_ActuateBIRTJavaComponent.war *
```

- 5 Copy `JBOSS_ActuateBIRTJavaComponent.war` into the separate directory containing the extracted files from `JBOSS_ActuateBIRTJavaComponent.ear`. Compress these files into a ear file by typing the following command:

```
jar -cf JBOSS_ActuateBIRTJavaComponent.ear *
```

- 6 Deploy `JBOSS_ActuateBIRTJavaComponent.ear` to the JBoss 6 server.

Using a Java Component

This chapter discusses the following topics:

- Testing the installation
- Using Java Components
- Licensing a Java Component in a WAR file
- Setting JVM properties

Testing the installation

To test the BIRT Java Component install, open the Java Components landing page. Go to the following URL to access the landing page shown in Figure 3-1:

`http://host:8080/newJavaComponent/`

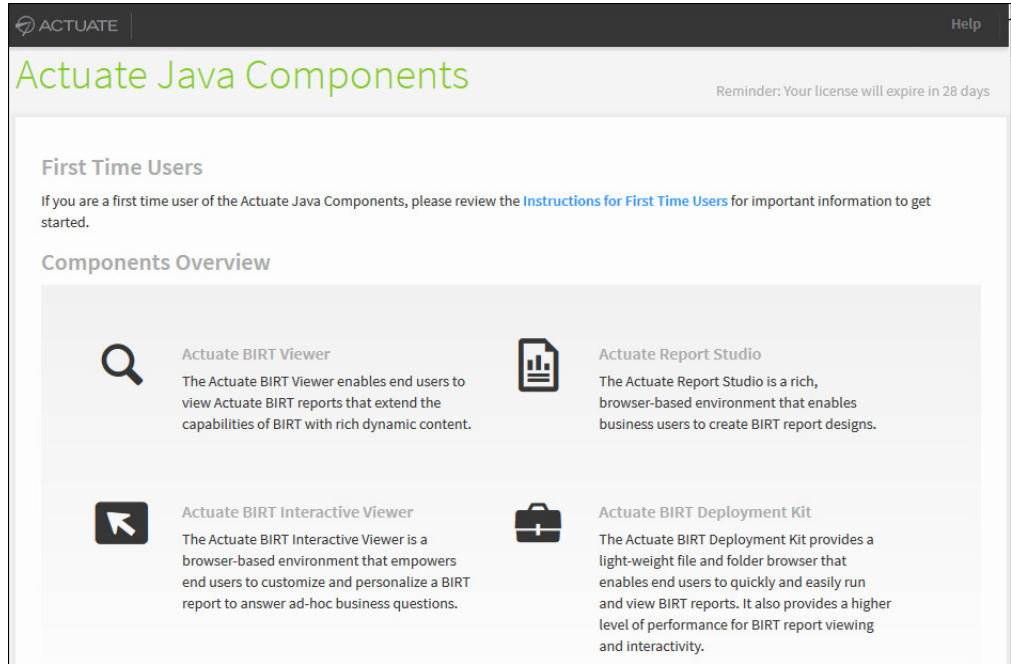


Figure 3-1 Actuate Java Components landing page

Using Java Components

If you are evaluating Java Components, use all products for the evaluation period. If you purchased particular Java Components, you can use only those products.

Using BIRT Viewer and BIRT Interactive Viewer

BIRT Viewer is the default viewer that BIRT uses when you open a report. To use BIRT Interactive Viewer, open a report, and choose Enable Interactivity.

Figure 3-2 shows Enable Interactivity.

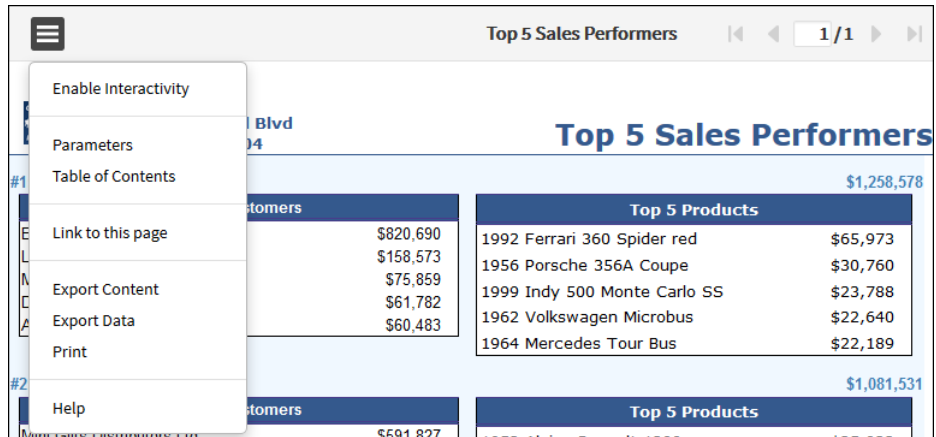


Figure 3-2 Choosing Enable Interactivity

Using Report Studio

Launch Report Studio by going to the following URL:

<http://host:8080/newJavaComponent/wr?&iportal>

Figure 3-3 shows the Report Studio opening page.

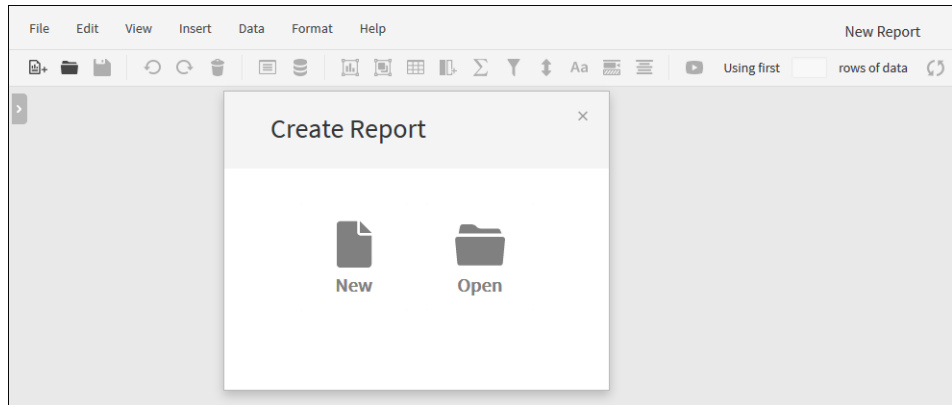


Figure 3-3 Launching the Report Studio Component

Using the Deployment Kit

Launch BIRT Deployment Kit from the Actuate Java Components landing page.

How to launch BIRT Deployment Kit

- 1 On the landing page, choose Actuate BIRT Deployment Kit, as shown in Figure 3-4.

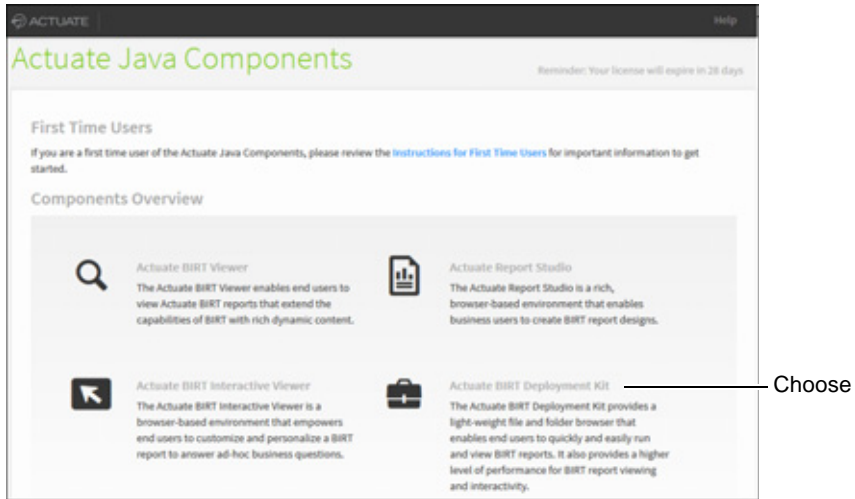


Figure 3-4 Actuate Java Components landing page

The Actuate BIRT Deployment Kit appears, as shown in Figure 3-5.

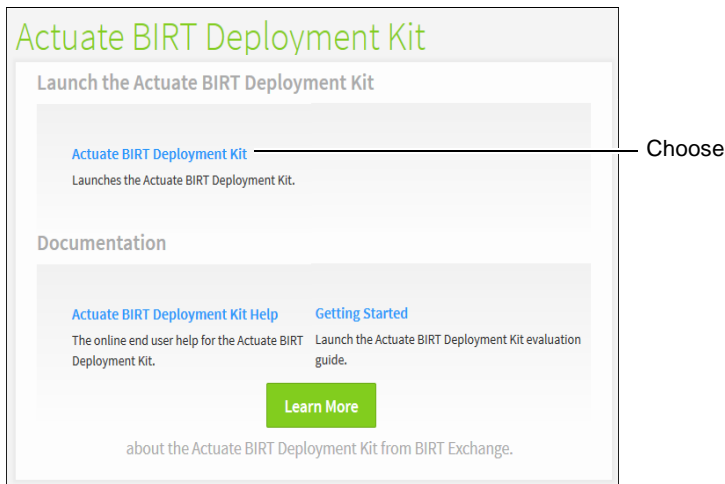


Figure 3-5 Launching the Actuate BIRT Deployment

- 2 Launch the Actuate BIRT Deployment Kit. Figure 3-6 shows the folders of report documents that you can browse.

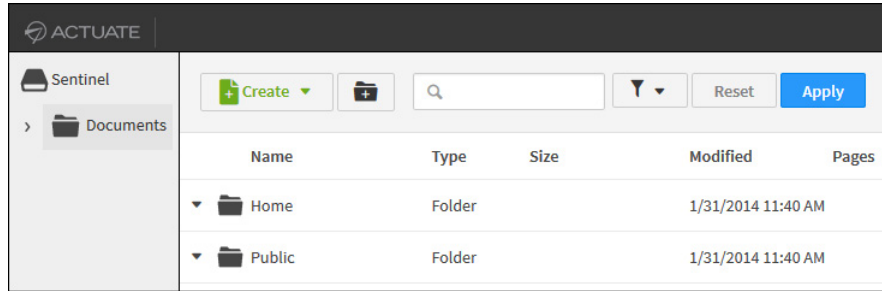


Figure 3-6 Accessing folders of report documents

Licensing a Java Component in a WAR file

The installation files include an evaluation license for using each of the components for a limited time. After installation, check the evaluation license expiration date by opening the reportService log in the following directory:

<Tomcat install directory>/webapps/newJavaComponent/logs

Figure 3-7 shows the reportService log on Windows.

```

Jan 31, 2014 12:34:08 PM com.actuate.iportal.license.LicenseManager initialize
WARNING: ***** Actuate Java Component License Information *****
License Type: CPUBased
Usage Type: Evaluation
License ID: 3
IsDevelopment: true
IsNodeLocked: false
CPU Limit: 6%
Major Release: 23
ServicePack: 0
Mode: Workgroup
Expiration Date: Sat Mar 01 00:00:00 PST 2014

Supported Options: BIRTReport BIRTInteractiveViewer ReportStudio DeploymentKit Int
Non-Supported Options: Spread
Jan 31, 2014 12:34:08 PM com.actuate.reportcast.servlets.StartupServlet startJREM

```

Figure 3-7 Checking the license expiration date and supported options

When you complete the evaluation, replace the evaluation license with a permanent license. After obtaining a new license key file, as explained earlier, perform the steps in the following procedure:

How to license a BIRT Java Component

- 1 Rename the BIRT Java Component license file that Actuate sent you to `ajcllicense.xml`.
- 2 Decompress the BIRT Java Component WAR file.

```
jar -xf ActuateJavaComponent.war
```

The BIRT Java Component files appear.

- 3 Copy the `ajcllicense.xml` file into the extracted `<context root>\WEB-INF` directory. For example, assuming you named the file `newJavaComponent.war`, the path to access the `WEB-INF` directory is:

```
<Tomcat install directory>/webapps/newJavaComponent/WEB-INF
```

- 4 Assuming `WEB-INF` is your current directory, move up one directory and type the following command on Windows or Linux:

```
jar -cf MyJavaComponent.war *
```

This command creates `MyJavaComponent.war`. This WAR file contains the license. The WAR file now has the context root `MyJavaComponent`.

- 5 Deploy `MyJavaComponent.war` to the application server or servlet engine as an application, as described earlier.
- 6 Restart the application server or servlet engine.

Setting JVM properties

Deploying Actuate Java Components within some application server environments requires Java configuration to avoid Java Virtual Machine (JVM) errors. Set the following JVM properties:

- Initial heap size
Include `-Xms512m` as a Java option.
- Maximum heap size
Include `-Xmx1536m` as a Java option.
- Maximum size for the permanent generation heap
Include `-XX:MaxPermSize=256m` as an option.

How to configure JVM properties for Tomcat 6.x and 7.x on Windows

- 1 From the Windows Start menu, choose `All Programs`→`Apache Tomcat 6.x`→`Configure Tomcat`.
- 2 On `Apache Tomcat 6.x Properties`, choose `Java`.
- 3 Change the value of the Initial memory pool to `512`.
- 4 Change the value of the Maximum memory pool to `1536`.
- 5 Add `-XX:MaxPermSize=256m` to `Java Options` on separate lines, as shown in Figure 3-8.

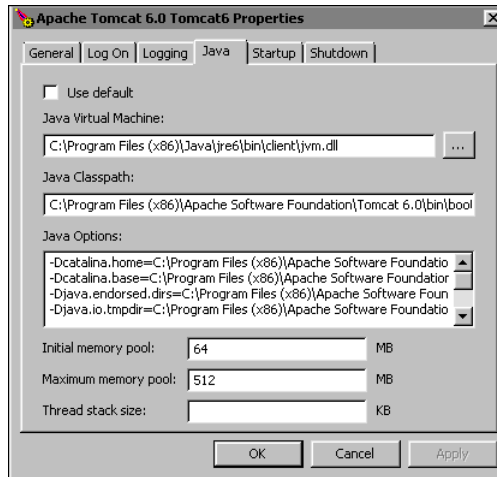


Figure 3-8 Apache Tomcat 6 Java configuration

- 6 Choose OK.
- 7 Restart Tomcat.

How to configure JVM properties for JBoss on Windows

- 1 Navigate to the following directory:

```
<JBoss install directory>\bin
```
- 2 Open run.bat.
- 3 Add `-Xms512m -Xmx1536m` and `-XX:MaxPermSize=256m` to the `JAVA_OPTS` variable specification.
- 4 Save and close run.bat.
- 5 Restart Tomcat.

How to configure JVM properties for Tomcat on Linux

- 1 Navigate to the following directory:

```
/etc/tomcat#
```

where # is the Tomcat release number, either 6 or 7
- 2 Open tomcat#.conf.
- 3 Add `-Xms512m -Xmx1536m` and `-XX:MaxPermSize=256m` to the `JAVA_OPTS` variable specification.
- 4 Save and close tomcat#.conf.
- 5 Restart Tomcat.

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