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BIRT iHub

Installing Multiple Modules on Windows Platforms

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A b o u t I n s t a l l i n g M u l t i p l e M o d u l e s o n W i n d o w s P l a t f o r m s

Installing Multiple Modules on Windows Platforms includes the following chapters:

- *About Installing Multiple Modules on Windows Platforms.* Provides an overview of this guide and Actuate BIRT iHub documentation.
- *Chapter 1. Installing BIRT iHub overview.* Describes the BIRT iHub modules and environment.
- *Chapter 2. Installing multiple BIRT iHub modules.* Describes how to install BIRT iHub in a Windows environment.
- *Chapter 3. Setting up BIRT iHub.* Describes how to access System Console and Visualization Platform.

Accessing Actuate BIRT iHub information

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

Table 1-1 BIRT iHub documentation





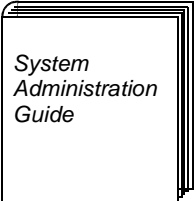
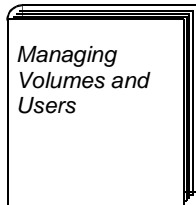


For information about this topic	See the following resource
Installing BIRT iHub modules on Linux	 <i>Installing and Upgrading BIRT iHub on Linux</i>
Installing BIRT iHub modules on Windows	 <i>Installing Multiple Modules on Windows</i>
Installing multiple BIRT iHub modules on Linux	 <i>Installing Multiple Modules on Linux Platforms</i>
Installing multiple BIRT iHub modules on Windows	 <i>Installing Multiple Modules on Windows Platforms</i>
Architecture overview Using the default PostgreSQL RDBMS Using an alternative RDBMS Setting up a cluster Backing up the metadata RDBMS	 <i>System Administration Guide</i>

Table 1-1 BIRT iHub documentation

For information about this topic	See the following resource
Managing volume-level operations Setting up users and groups Advanced job schedules Using HTTPS to access Visualization Platform	 <p><i>Managing Volumes and Users</i></p>
Installing a stand-alone Visualization Platform Configuring Visualization Platform Configuring BIRT Viewers and Report Studio	 <p><i>Installing Visualization Platform</i></p>
Actuate web services and SOAP messaging overview Actuate Information Delivery API operations and data types reference Using Actuate JavaScript API to customize access to reports and report components Reference for configuring BIRT Viewer and Report Studio Reference for BIRT Viewer and Report Studio URIs Using Java Report Server Security Extension (RSSE) APIs Using logging, performance monitoring, and archiving features Customizing the Actuate software installation process	 <p><i>Integrating Applications into BIRT iHub</i></p>
Late-breaking information and documentation updates	Release notes and updated localization files posted on Actuate Support

Obtaining documentation

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

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.

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Installing BIRT iHub overview

This chapter contains the following topics:

- Understanding BIRT iHub installation
- Understanding the BIRT iHub installation environment

Understanding BIRT iHub installation

This chapter describes the modules and components of BIRT iHub Release 3.1. The system administrator uses the BIRT iHub installation package to install the Actuate modules described in Table 1-1.

Table 1-1 Actuate BIRT iHub modules

Module	Description
System Console	A web-based tool for configuring, licensing, managing, and monitoring one or more BIRT iHub Systems.
BIRT iHub Visualization Platform	A web application, server, and metadata database that provide access to dashboards, files, folders, and jobs in a volume. Supports viewing BIRT reports and using Report Studio.

To reduce network traffic, install BIRT iHub on the same host machine as the BIRT iHub system database. Alternatively, install BIRT iHub and the metadata database on different machines to distribute processing across multiple machines.

The installation procedure installs BIRT iHub using an evaluation license. After installation, the administrator specifies a purchased product license using System Console. For a complete understanding of configuring BIRT iHub licenses, including binding the BIRT iHub processes to particular processors in a multi-core machine, see *BIRT iHub System Administration Guide*.

Overview of installation operations

To install BIRT iHub, the system administrator performs the following operations:

- Downloads the installation program for System Console and BIRT iHub Visualization Platform from the download site
- Runs the installation program

After performing the installation, the system administrator loads a license for purchased options.

About installation components

BIRT iHub Visualization Platform provides common services such as user management, activity logging, and the PostgreSQL RDBMS containing system metadata.

The BIRT iHub Visualization Platform module includes the following components:

- BIRT iHub System with a PostgreSQL relational database management system (RDBMS), including a default volume with sample BIRT designs and other documents
- Information Console, which provides an integrated user interface for viewing and editing BIRT dashboards and reports, and iHub Administration

The System Console module includes one component, System Console, which is the graphical user interface (GUI) for administering the BIRT iHub System.

Storing cluster and volume metadata

BIRT iHub stores metadata containing system, cluster, and volume configuration information in a database. In a default installation, BIRT iHub uses the open-source PostgreSQL RDBMS. iHub also supports using Oracle or a pre-existing PostgreSQL instance.

After installation of the default system, the system administrator can switch to an alternative RDBMS by running the database switcher batch file.

The database that contains BIRT iHub system, cluster, and volume metadata is a critical component of BIRT iHub System. To guard against data loss, the database administrator must back up the schema using the tools and resources of the third-party RDBMS.

For information about how to switch databases and how to back up BIRT iHub cluster and volume schemas, refer to *System Administration Guide*.

Support for the metadata database

If you encounter a problem with the operation of the metadata database, Actuate will work with you to resolve it. For example, Actuate may take any or all of the following actions:

- Propose a change in your environment that avoids the problem.
- Make a change in Actuate's code to work around the problem.
- In the case of PostgreSQL, engage with the development community to obtain a patch.
- In the case of Oracle, help you to isolate the problem and report it to the vendor.

Downloading the installation package

Download the BIRT iHub installation package from an Actuate download site using the URL provided by e-mail.

Understanding the BIRT iHub installation environment

The following sections provide supplementary information about the BIRT iHub installation environment.

Running different releases on the same machine

A BIRT iHub 3 installation cannot coexist on the same machine with an earlier release of BIRT iHub or iServer.

Understanding the Java Runtime Environment

The BIRT iHub installation program installs Java Runtime Environment 1.8. By default, BIRT iHub uses this JRE. If you want to use a different JRE, you must set the appropriate environment variables in the configuration files used by BIRT iHub Visualization Platform and System Console.

Modifying BIRT iHub Visualization Platform configuration files

This section assumes the BIRT iHub installation directory is C:\Actuate3\iHub3.

For BIRT iHub Visualization Platform, you must modify two files:

- `ihub.properties`, located in C:\Actuate3\iHub3\modules\BIRTiHub
- `acpmdconfig.xml`, located in C:\Actuate3\iHub3\modules\BIRTiHub\iHub\etc\

In `ihub.properties`, modify the following lines so that the paths point to the JRE you want to use.

```
#AC_JRE_HOME=C:/Actuate3/iHub3/java
#AC_JAVA_HOME=C:/Actuate3/iHub3/java
```

In `acpmdconfig.xml`, modify the following lines so that the paths point to the JRE you want to use.

```
<EnvironmentVariable Name="JAVA_HOME"
  Value="C:/Actuate3/iHub3/java" />
<EnvironmentVariable Name="AC_JAVA_HOME"
  Value="C:/Actuate3/iHub3/java" />
<EnvironmentVariable Name="AC_JRE_HOME"
  Value="C:/Actuate3/iHub3/java" />
```

Modifying System Console configuration files

This section assumes the System Console installation directory is C:\Actuate3\SystemConsole.

For System Console, you must modify two files:

- `systemconsole.properties`, located in `C:\Actuate3\SystemConsole\modules\SystemConsole`
- `wrapper.properties`, located in `C:\Actuate3\SystemConsole\modules\SystemConsole\tomcat\conf\jk\`

In `systemconsole.properties`, comment out the following entries and create new ones that point to the JRE you want to use.

```
#AC_JRE_HOME=C:/Actuate3/iHub3/java  
#AC_JAVA_HOME=C:/Actuate3/iHub3/java
```

In `wrapper.properties`, modify the following line so that the path points to the JRE you want to use.

```
wrapper.java_home=C:\Actuate3\iHub3\java
```

Accessing JAR files for document generation

To generate some documents, iHub requires access to jar files in the Jar directory of the iHub installation, so you must include the location of the jar file in the CLASSPATH. If the BIRT iHub installation directory is `C:\Actuate3\iHub3`, the Jar directory is in `C:\Actuate3\iHub3\modules\BIRTiHub\iHub`.

Following best practices

Before deploying BIRT iHub in a production environment, Actuate recommends testing the installation in a separate staging area. The following sections provide some guidelines for setting up a test environment and staging area.

Using a test environment

Set up a test environment and then move to iHub on the production system when testing is complete. You cannot mix Actuate products from different release levels. For example, you cannot use BIRT iServer Release 11 design tools with BIRT iHub Release 3.

Complete the following general tasks in this order to determine how to upgrade your site to BIRT iHub:

- Create a test environment for BIRT iHub. The test environment cannot be on the same machine that hosts an earlier Actuate installation.
- Install the software in the test environment. Create any applications you need using BIRT iHub Integration Technology in the test environment.
- Ask application developers and a few users to perform some typical tasks in the test environment.
- Create a production staging area.

- Install the remaining BIRT iHub desktop products, if required, in production environments on the user workstations. Verify that the desktop products function properly.
- Schedule a low-impact time to switch to the production system.

Setting up a production staging area

A production staging area is one that you can use for testing and also configure as the live production system. The production staging area can be a separate configuration on the live production machine or a separate machine. You can install all BIRT iHub products or the BIRT iHub server products and a subset of the desktop products.

If you plan to test BIRT iHub desktop products, identify which users to include in the final testing. Developers and users can then confirm that applications perform as expected in the BIRT iHub production staging environment.

Complete the following general tasks to test BIRT iHub:

- Install BIRT iHub software in a production staging area.
- Install BIRT iHub desktop software on the test user machines.
- Verify that the BIRT iHub production staging environment works correctly.
- Install the remaining BIRT iHub desktop products, if you installed a subset earlier.
- Verify that all the BIRT iHub desktop products work correctly.
- Begin setting up a production environment as described in the following section.

Setting up a production environment

When testing is complete, confirm that your applications work as expected in the BIRT iHub environment. Set up the production environment and schedule a date and time to activate BIRT iHub.

When you switch to BIRT iHub, use the following procedure list as a general guideline:

- Install design and document files.
- Start BIRT iHub.
- Inform users that they can start using BIRT iHub design tool products.

Installing multiple BIRT iHub modules

This chapter contains the following topics:

- Prerequisites for installing BIRT iHub
- Installing multiple BIRT iHub modules on Windows
- Reviewing the BIRT iHub installation
- Starting and stopping BIRT iHub modules
- Uninstalling BIRT iHub modules
- Changing default port numbers

Prerequisites for installing BIRT iHub

For optimum performance, use a system that has a minimum of 8GB RAM.

Checking for ports used by BIRT iHub

BIRT iHub processes use network ports to communicate. Before installation, ensure that the ports used by BIRT iHub are available on the system. The ports used by BIRT iHub modules are listed in Table 2-1.

Table 2-1 BIRT iHub ports

BIRT iHub module	Ports used
All	Required during and after installation: 8000, 8100, 8433, 8500, 8700, 9432 Required after installation: 8010, 8011, 11100, 11101, 12100, 13500, 14000, 14100, 14200, 15200, 18500, 21000, 21500

You can change some of the port numbers that BIRT iHub uses after installing BIRT iHub. For more information, see “Changing default port numbers,” later in this chapter.

Requirements to install and run BIRT iHub

Actuate recommends creating a dedicated user account at the operating system level for installing and running BIRT iHub. Having a dedicated user account isolates iHub-specific issues and events on a machine, making it easier to administer the environment. For optimum appearance of BIRT iHub pages, ensure that ClearType is set on the Windows system used to access BIRT iHub.

Configuring a user account for BIRT iHub

The user account must meet the following requirements:

- Be a member of the Windows Administrators group or, at a minimum, have all data and network permissions required to run BIRT iHub applications
The account must have privileges to access the required software and hardware, such as database servers, printers, and BIRT iHub files and folders.
- To run the BIRT iHub processes as services, have log on as a service privilege
If the account does not meet this requirement, the BIRT iHub installation program prompts you to configure the privilege to run the Windows Actuate BIRT iHub service.

If you plan to install BIRT iHub on a machine controlled by a domain server, install BIRT iHub while logged in to a user account controlled by the local machine, not by the domain server. When you create a BIRT iHub cluster, all BIRT iHub nodes in the cluster must be installed and the processes run under the same user account.

How to configure a user account with administrator privileges

To configure a user account with administrator privileges for installing and running iHub, perform the following steps.

- 1 In Windows, open the Command Prompt and type:

```
lusrmgr.msc
```
- 2 In Local Users and Groups, choose Users to display the list of users.
- 3 Double-click the user to display the properties.
- 4 In Properties—General, deselect Account is disabled, if necessary.
- 5 In Properties—Member Of, choose Add and perform the following tasks:
 - 1 In Select Groups, in Enter the object names, type:

```
Administrators
```
 - 2 Choose Check Names. Choose OK.
- 6 Exit Local Users and Groups.

How to configure the log on as a service privilege

To configure the log on as a service privilege manually, perform the following steps.

- 1 Choose Windows Control Panel→Administrative Tools→Local Security Policy.
- 2 In Local Security Policy, navigate to Security Settings—Local Policies—User Rights Assignment.
- 3 Choose Log on as a service from the Policy list.
- 4 In Log on as a service Properties, perform the following tasks:
 - 1 Choose Add User or Group.
 - 2 In Select Users or Groups, add the user name. Choose Check Names to check for any issue concerning the name.
 - 3 On Select Users and Groups, choose OK.
 - 4 On Log on as a service Properties, choose OK.
- 5 Exit Local Security Settings.

Setting ClearType text properties

Using ClearType text on a Windows system provides the optimal appearance for BIRT iHub pages. All BIRT iHub users require this configuration setting.

How to configure ClearType text

To configure ClearType text, perform the following steps.

- 1 Open Windows Control Panel.
- 2 If Control Pane view is set to Category:
 - 1 Choose Appearance and Personalization.
 - 2 Choose Fonts.
 - 3 Choose Adjust ClearType text.
- 3 If Control Panel view is set to Large or Small icons:
 - 1 Choose Fonts.
 - 2 Choose Adjust ClearType text.
- 4 On ClearType Text Tuner, select Turn on ClearType. Choose Next.
- 5 For each of the pages in ClearType Text Tuner, select the sample that looks best to you and then choose Next.
- 6 In You have finished tuning the text on your monitor, choose Finish.

Running BIRT iHub as a service or from a batch file

The BIRT iHub installation tools support running BIRT iHub processes as Windows services. If you choose this option, the services start whenever the system starts. If you choose not to run the BIRT iHub processes as Windows services, you must run batch files to start the processes.

Installing multiple BIRT iHub modules on Windows

This section describes how to use the command-line installer to install BIRT iHub with Visualization Platform and System Console on a Windows machine at the same time. To install a single BIRT iHub module, see Chapter 2, “Installing BIRT iHub,” in *Installing and Upgrading BIRT iHub on Windows*.

Perform the procedures in this section only if you do not have BIRT iHub already installed on your system. If you purchased BIRT iHub Release 3 or a fix release and installed the files that you downloaded, you can upgrade to BIRT iHub Release 3.1 by following the instructions in Chapter 4, “Upgrading to Visualization Platform 3.1” and Chapter 5, “Upgrading to System Console 3.1,” in *Installing and Upgrading BIRT iHub on Windows*.

System Console creates a default cluster automatically. If you install System Console and BIRT iHub on the same machine at the same time using the procedure described in this section, System Console automatically adds the machine on which you installed these modules as a node and adds the default volume to the default cluster. If you install System Console individually either on the same machine as BIRT iHub or on a separate machine, you must add a node and a volume to the default cluster after installing System Console. For information on installing System Console and BIRT iHub individually, see Chapter 2, “Installing BIRT iHub,” in *Installing and Upgrading BIRT iHub on Windows*. For more information on clustering, see Chapter 5 “Managing Clusters,” in the *System Administration Guide*.

When installing more than one BIRT iHub module at the same time, the administrator performs the following tasks:

- Downloads the BIRT iHub installation package, iHub3.zip, from the software download site.
- Downloads the zip and zip.MD5 file pair or pairs for each module the administrator is installing from the download site. By default, the install script installs System Console and BIRT iHub with Visualization Platform. Installing these modules requires that the administrator download the following file pairs from the download site:
 - SystemConsole.zip and SystemConsole.zip.MD5
 - ActuateBIRTiHub.zip and ActuateBIRTiHub.zip.MD5
- Creates a new folder and unzips the iHub3.zip file into the folder.
- Reviews the software license agreement.
- Updates the installation properties file.
- Runs the install script, install.bat.

How to install multiple BIRT iHub modules on Windows

- 1 Download the iHub3.zip file from the software distribution site.
- 2 Download the zip and zip.MD5 file pair for each BIRT module you are installing from the modules folder at the software distribution site to one folder.
- 3 Create a new folder into which to extract the files that iHub3.zip contains. This folder must be outside C:\Program Files or C:\Program Files (x86), for example, C:\Actuate3.
- 4 Extract the contents of iHub3.zip to C:\Actuate3. Unzipping iHub3.zip creates the installation folder, C:\Actuate3\iHub3.
- 5 Navigate to C:\Actuate3\iHub3\License.

- 6 Open and read the file, `license.txt`. You must agree to the license terms to install BIRT iHub modules. In step 8.6, you indicate whether you accept the license terms or whether you want the install program to prompt you for whether you accept the terms.
- 7 Navigate to `C:\Actuate3\iHub3`.
- 8 Using a text editor, open the `acinstall.properties` file. Using the example shown in Listing 2-1, perform the following tasks:
 - 1 For `ac.login`, specify the machine and account name for the machine onto which you are installing the BIRT iHub modules. For `ac.password`, specify the account name password.

For `ac.package`, accept the default value of `a,b` to install System Console and BIRT iHub with Visualization Platform.
 - 2 Modify the `ac.homedir` property to specify the absolute installation folder path if you do not run the install script, `install.bat`, from the installation folder.
 - 3 Leave `ac.downloadonly` set to `false`.
 - 4 For `ac.source`, specify the absolute path to the folder containing the zip and zip.MD5 file pairs that you downloaded in step 2. For example, if you downloaded these file pairs to `C:\BIRT_component_archive_files`, specify `C:/BIRT_component_archive_files` for `ac.source`, using a forward slash in the pathname. The delimiting character in a pathname in `acinstall.properties` must be a forward slash.
 - 5 To run BIRT iHub processes as Windows services, set `ac.runasservice` to `true`. Then, set `ac.runasservice_username` to the user name and `ac.runasservice_password` to the user password for the account that runs the services. If these two properties are blank, BIRT iHub services run as the local system account. Set `ac.runasservice` to `false` to see open command prompts for iHub server and PostgreSQL services after installation is complete.
 - 6 For `ac.acceptlicense`, accept the default value of prompt for the install script to prompt you for whether you accept the software license terms when you run the script. Alternatively, specify `y` for yes, to accept the software license terms.
 - 7 Uncomment `ac.iHub_cluster_schema_name` and `ac.iHub_postgres_port`, setting these two properties to the cluster schema name and PostgreSQL RDBMS port, if necessary.
 - 8 Save and close the file.

Listing 2-1 `acinstall.properties`

```
#Tue, 11 Jun 2013 16w:19:16 -0700
```

```

ac.login=URUP/Administrator
ac.password=password
ac.package=a,b

# Please use forward slashes for the home fully qualified path
# on Windows OS, for example ac.homedir=D:/iHub/distribution
ac.homedir=.
ac.downloadonly=false

# Please use forward slashes for the source network path on
# Windows OS, for example 'source'="//fs/installDir/iHub
# /distribution
ac.source=C:/BIRT_component_archive_files
ac.runasservice=true
ac.runasservice_username=
ac.runasservice_password=

# The license agreement (license.txt) file is located in the
# ./License directory
# The default value of the ac.acceptlicense parameter is set to
# 'prompt', which requires the user to read the license
# agreement before accepting it
# Before starting a network/silent install, read the
# license.txt file and change the value of the ac.acceptlicense
# parameter to 'y' to confirm that you agree to the terms of
# the license agreement
# ac.acceptlicense=prompt
ac.acceptlicense=y

#Advanced Settings
#ac.iHub_cluster_schema_name=
#ac.iHub_postgres_port=

```

- 9** Open a command prompt having administrator privileges by performing the following tasks:
 - 1** In Windows, choose Start.
 - 2** In Search programs and files, type cmd. Press Ctrl+Shift+Enter.
- 10** Navigate to the installation folder, for example, C:\Actuate3\iHub3.
- 11** Type install, and press Enter to execute the installation script. Alternatively, you can navigate to the installation folder using Windows Explorer and double click the install.bat file to execute the script.

The command prompt displays the message “Unable to locate tools.jar.” You can safely ignore this message.

If you specified 'prompt' for the ac.acserverlicense property in acinstall.properties, the install script displays the contents of

<installation directory>/License/license.txt. Read the licensing terms. Then, type y for yes to accept the licensing terms and continue the install.

The install script displays a series of status messages regarding the progress of the installation process, as shown in Listing 2-2:

- Detects and confirms administrative permissions
- Extracts and installs System Console
- Extracts and installs BIRT iHub with Visualization Platform
- Displays BUILD SUCCESSFUL message indicating installation is complete.

If a Windows Security Alert appears indicating that the firewall is blocking access to Actuate BIRT iHub programs, as shown in Figure 2-1, perform the following tasks:

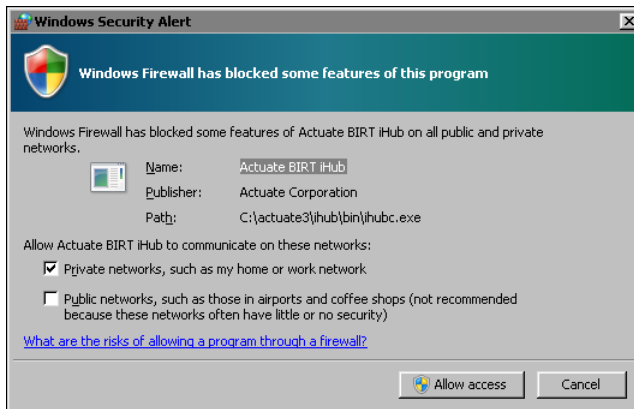


Figure 2-1 Allowing firewall access to Actuate BIRT iHub

- 1 In Allow Actuate BIRT iHub to communicate on these networks, for example, select Private networks, such as my home or work network, then choose Allow access.
- 2 Repeat this step for other Windows Security Alerts, such as Java Platform SE binary.

When the script finishes running, press any key to exit the script, as shown in Listing 2-2.

Listing 2-2 Command prompt messages

```
Administrative permissions required. Detecting permissions...
Success: Administrative permissions confirmed.
Install will start now...
Unable to locate tools.jar. Expected to find it in C:\Actuate3\
iHub3\java\lib\tools.jar
[echo] Downloading from given file system location
```

```

[echo] Verifying Checksum...
[echo] Completed verification
[echo] Extracting package System Console
[echo] Installing System Console. This may take a few
minutes...
[echo] To access System Console, use URL:
      http://localhost:8500/sysconsole
[echo] Downloading from given file system location
[echo] Verifying Checksum...
[echo] Completed verification
[echo] Extracting package Actuate BIRT iHub
[echo] Installing Actuate BIRT iHub. This may take a few
minutes...
[echo] Using default PostgreSQL database port number 8433
[echo] Using default schema name
[echo] To access Information Console, use URL:
      http://localhost:8700/iportal
[echo] Setup Completed
INSTALL SUCCEEDED
Total time: 12 minutes 54 seconds
Press any key to close this window

```

A new browser window opens and the System Console Login appears. For information about accessing System Console, See Chapter 3, “Setting up BIRT iHub.”

Reviewing the BIRT iHub installation

The BIRT iHub installation programs create log files containing information about the tasks completed during the installation process. Table 2-2 lists the installation log files for each BIRT iHub module.

Table 2-2 Installation log files for BIRT iHub modules on Windows

Module	Windows log files
All modules	In the installation folder: installer.log
System Console	In <installation folder>\modules\SystemConsole: setup.log setupSystemConsole.log In <installation folder>\modules\SystemConsole\ setup: setup.log

Table 2-2 Installation log files for BIRT iHub modules on Windows

Module	Windows log files
Visualization Platform	In <installation folder>\modules\BIRTiHub: setup.log setupiHub.log startiHub.log uploadsamplecontent.log In <installation folder>\modules\BIRTiHub\iHub \bin: setup.log

Starting and stopping BIRT iHub modules

Some administrative actions require a restart of BIRT iHub cluster before they take effect. Use System Console to stop and start BIRT iHub to perform these actions. The System Console processes are still running while BIRT iHub is stopped. To stop BIRT iHub and System Console completely, you must stop these processes.

If you selected to run the BIRT iHub modules as a service, use the Services administration tool to start and stop BIRT iHub services. If the BIRT iHub modules are not running as services, use the batch files provided to start and stop the modules. Table 2-3 lists the services and batch files for each BIRT iHub module.

Table 2-3 Services and batch files to run BIRT iHub modules

Module	Windows services	Windows batch files
System Console	Actuate Apache Tomcat 7 for System Console Actuate PostgreSQL for System Console	In <installation folder>\modules\SystemConsole: startupSystemConsole.bat stopSystemConsole.bat In <installation folder>\modules\SystemConsole \setup: startpostgresql.bat stoppostgresql.bat

Table 2-3 Services and batch files to run BIRT iHub modules

Module	Windows services	Windows batch files
BIRT iHub	Actuate iHub 3.1 Service Actuate PostgreSQL for iHub 3.1 Service	In <installation folder> \modules\BIRTiHub: startiHub.bat stopiHub.bat In <installation folder> \modules\BIRTiHub \iHub\bin: startpostgresql.bat stoppostgresql.bat

Uninstalling BIRT iHub modules

Uninstalling BIRT iHub deletes the iHub metadata including dashboards, reports, and jobs in a volume. To transfer a volume to a different iHub installation or to switch to a different metadata database, see *System Administration Guide*.

The procedures for uninstalling BIRT iHub Visualization Platform and System Console differ, depending on whether the modules run as Windows services. This section describes the procedures for uninstalling the modules when they run as Windows services and when they do not.

Uninstalling modules if they run as Windows services

Perform the tasks in this section if BIRT iHub Visualization Platform and System Console run as Windows services.

How to uninstall BIRT iHub Visualization Platform when it runs as Windows services

- 1 Open Windows Services by choosing Windows Start→Control Panel→Administrative Tools→Services
- 2 Stop the Actuate iHub 3.1 Service.
- 3 Stop the Actuate PostgreSQL for iHub 3.1 Service.
- 4 Open a command prompt having administrator privileges, and navigate to the installation folder, for example:

```
C:\Actuate3\iHub3
```

- 5 Execute the uninstall.bat script, using the following command line syntax:

```
uninstall b
```

The script displays messages similar to those shown in Listing 2-3.

Listing 2-3 Uninstalling BIRT iHub

```
C:\Actuate3\iHub3>uninstall b
Uninstall Modules...
Uninstall Module: BIRT iHub
Unregistering Services..
No Installation path was specified
Set up will try to unregister from current directory
Check unregister.log for more details
Module b: BIRT iHub is unregistered from system successfully.
    Now you can now delete the module from the system safely.
Press any key to close this window
```

Exit the command prompt.

- 6** Delete <installation folder>\modules\BIRTiHub. If you have also uninstalled System Console, you can delete the installation folder.

How to uninstall System Console when it runs as Windows services

- 1** Open Windows Services by choosing Windows Start→Control Panel→Administrative Tools→Services
- 2** Stop the Actuate Apache Tomcat 7 for System Console service.
- 3** Stop the Actuate PostgreSQL for System Console service.
- 4** Open a command prompt having administrator privileges, and navigate to the installation folder, for example:

```
C:\Actuate3\iHub3
```

- 5** Execute the uninstall.bat script, using the following command line syntax:

```
uninstall a
```

The script displays messages similar to those shown in Listing 2-4.

Listing 2-4 Uninstalling BIRT iHub

```
C:\Actuate3\iHub3>uninstall a
Uninstall Modules...
Uninstall Module: System Console
Unregistering Services..
No Installation path was specified
Set up will try to unregister from current directory
Check unregister.log for more details
Module a: System Console is unregistered from system
    successfully. Now you can now delete the module from the
    system safely.
Press any key to close this window
```

Exit the command prompt.

- 6 Delete <installation folder>\modules\SystemConsole. If you have also uninstalled BIRT iHub, you can delete the installation folder.

Uninstalling modules if they do not run as Windows services

Perform the tasks in this section if BIRT iHub Visualization Platform and System Console do not run as Windows services.

How to uninstall BIRT iHub Visualization Platform when it does not run as Windows services

- 1 Open a command prompt having administrator privileges, and navigate to <installation folder>\modules\BIRTiHub, for example:

```
C:\Actuate3\iHub3\modules\BIRTiHub
```

- 2 Execute stopiHub.bat.
- 3 Navigate to <installation folder>\modules\BIRTiHub\iHub\bin.
- 4 Execute stoppostgresql.bat.
- 5 Navigate to the installation folder.
- 6 Execute the uninstall.bat script, using the following command line syntax:

```
uninstall b
```

The script displays messages similar to those shown in Listing 2-3.

Listing 2-5 Uninstalling BIRT iHub

```
C:\Actuate3\iHub3>uninstall b
Uninstall Modules...
Uninstall Module: BIRT iHub
Unregistering Services..
No Installation path was specified
Set up will try to unregister from current directory
Check unregister.log for more details
Module b: BIRT iHub is unregistered from system successfully.
  Now you can now delete the module from the system safely.
Press any key to close this window
```

Exit the command prompt.

- 7 Delete <installation folder>\modules\BIRTiHub. If you have also uninstalled System Console, you can delete the installation folder.

How to uninstall System Console when it does not run as Windows services

- 1 Open a command prompt having administrator privileges, and navigate to <installation folder>\modules\SystemConsole, for example:

```
C:\Actuate3\iHub3\modules\SystemConsole
```

- 2 Execute stopSystemConsole.bat.
- 3 Navigate to <installation folder>\modules\SystemConsole\setup.
- 4 Execute stoppostgresql.bat.
- 5 Navigate to the installation folder.
- 6 Execute the uninstall.bat script, using the following command line syntax:

```
uninstall a
```

The script displays messages similar to those shown in Listing 2-4.

Listing 2-6 Uninstalling BIRT iHub

```
C:\Actuate3\iHub3>uninstall a
Uninstall Modules...
Uninstall Module: System Console
Unregistering Services..
No Installation path was specified
Set up will try to unregister from current directory
Check unregister.log for more details
Module a: System Console is unregistered from system
  successfully. Now you can now delete the module from the
  system safely.
Press any key to close this window
```

Exit the command prompt.

- 7 Delete <installation folder>\modules\SystemConsole. If you have also uninstalled BIRT iHub, you can delete the installation folder.

Changing default port numbers

Table 2-4 lists the ports for which you can change the value, if necessary, after installing BIRT iHub Visualization Platform. These port numbers are defined in

acserverconfig.xml, the configuration file that all nodes in a BIRT iHub cluster share.

Table 2-4 iHub ports appearing in acserverconfig.xml

Name	Description	Default	Range
AppContainerPort	Application container process listen port	8700	1 - 65535
CustomEventServicePort	Custom Event Service Port	8700	1 - 65535
ProvisioningSOAPPport	Provisioning service port	8010	1 - 65535
ProvisioningSOAPSSL Port	Provisioning service SSL port	8011	1 - 65535
SOAPDispatchSOAPPport	Message Distribution service port	8000	1 - 65535
SOAPDispatchSOAPSSL Port	Message distribution service SSL port	8001	1 - 65535

Changing a port number in acserverconfig.xml

This section makes reference to a variable named AC_SERVER_HOME. If you installed Visualization Platform as a single module, using the BIRTiHubVisualization.exe executable, into a folder having the path C:\Actuate3, AC_SERVER_HOME represents the following path:

```
C:\Actuate3\BIRTiHubVisualization\modules\BIRTiHub\iHub
```

If you installed Visualization Platform and another module, such as System Console, at the same time, using the iHub3.zip installation package, into a folder having the path C:\Actuate3, AC_SERVER_HOME represents the following path:

```
C:\Actuate3\iHub3\modules\BIRTiHub\iHub
```

How to change a port number when BIRT iHub Visualization Platform runs as Windows services

- 1 Choose Windows Start → Control Panel → Administrative Tools → Services.
- 2 On Services, right-click the Actuate iHub 3.1 Service and choose Stop.
- 3 Using Windows Explorer, navigate to AC_SERVER_HOME\shared\config, the directory containing acserverconfig.xml.
- 4 As a best practice, create a copy of acserverconfig.xml. Then, edit acserverconfig.xml and change any port number appearing in Table 2-4 as necessary. Save and exit.
- 5 On Services, right-click the Actuate iHub 3.1 Service and choose Start.

How to change a port number when BIRT iHub Visualization Platform does not run as Windows services

- 1** Open a command prompt. Stop the BIRT iHub service by typing the following command:

```
net stop "Actuate iHub 3.1 Service"
```

- 2** Using Windows Explorer, navigate to AC_SERVER_HOME\shared\config, the folder containing acserverconfig.xml.

- 3** As a best practice, create a copy of acserverconfig.xml. Then, edit acserverconfig.xml and change any port number appearing in Table 2-4 as necessary. Save and exit.

- 4** In the command prompt, start the BIRT iHub service by typing the following command:

```
net start "Actuate iHub 3.1 Service"
```

Setting up BIRT iHub

This chapter contains information on Setting up BIRT iHub and accessing modules.

Setting up BIRT iHub and accessing modules

After installing System Console and one or more BIRT iHub modules, use System Console to create a cluster containing a single node. The cluster enables the system administrator to license the modules and monitor the iHub usage. For information about configuring BIRT iHub applications and databases, see *BIRT iHub System Administration Guide*.

Accessing System Console

To open System Console, double-click the System Console icon on a Windows desktop or open a browser manually and enter the following URL:

```
http://localhost:8500/sysconsole
```

To provide access to System Console from another system, use the Windows Firewall advanced settings to open the port 8500 to TCP inbound traffic.

To access System Console from another system, open a browser manually and enter a URL similar to the following one, where servername is the name of the machine where you installed System Console:

```
http://servername:8500/sysconsole
```

Log in to System Console using the following default system administrator credentials:

- Username: sysadmin
- Password: system11

You can change the default system administrator login name and password in System Console—Settings—System Admin Users. System Console initially displays the 7-day monitoring overview, as shown in Figure 3-1.

The login password for the postgres user in the default PostgreSQL RDBMS is postgres.

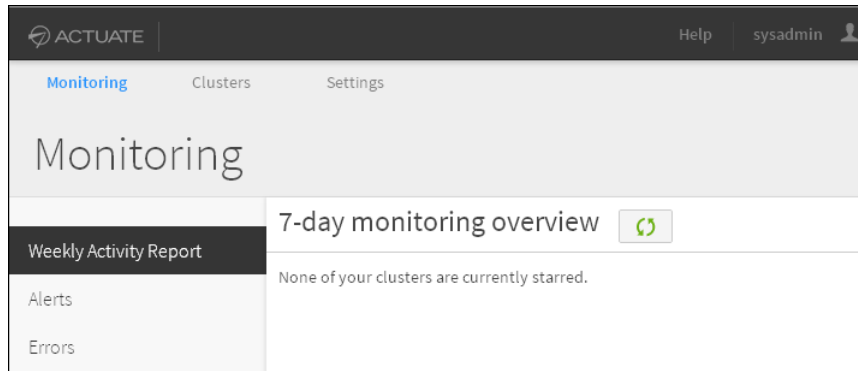


Figure 3-1 Viewing System Console

A system administrator uses System Console to configure BIRT iHub System, including specifying the settings for the following items:

- Create and configure a cluster
- Connect to a database
- Add a volume
- Tune services and processes
- Specify ports
- Manage resources
- View Logging and Monitoring System (LMS)
- Configure alerts
- Review and update license options

For more information about using System Console, see *BIRT iHub System Administration Guide*. For more information about administering the PostgreSQL RDBMS, see the vendor documentation at:

<http://www.postgresql.org/docs>

Accessing Information Console

To access Information Console, double-click the icon on a Windows desktop or open a browser and enter the following URL:

<http://localhost:8700/iportal>

To provide access to Information Console from another system, use the Windows Firewall advanced settings to open the port 8700 to TCP inbound traffic.

To access Information Console from another system, open a browser manually and enter a URL similar to the following one, where servername is the name of the machine where you installed Information Console:

http://servername:8700/iportal

Log in to Information Console using the following default volume administrator credentials:

- Username: Administrator
- Leave the password blank

Then, choose Log In.

To log in to Information Console using a volume other than the default volume, type <volume name>\username. For example, type sales_volume\Administrator to log in as Administrator to a volume named sales_volume.

Information Console appears, as shown in Figure 3-2.

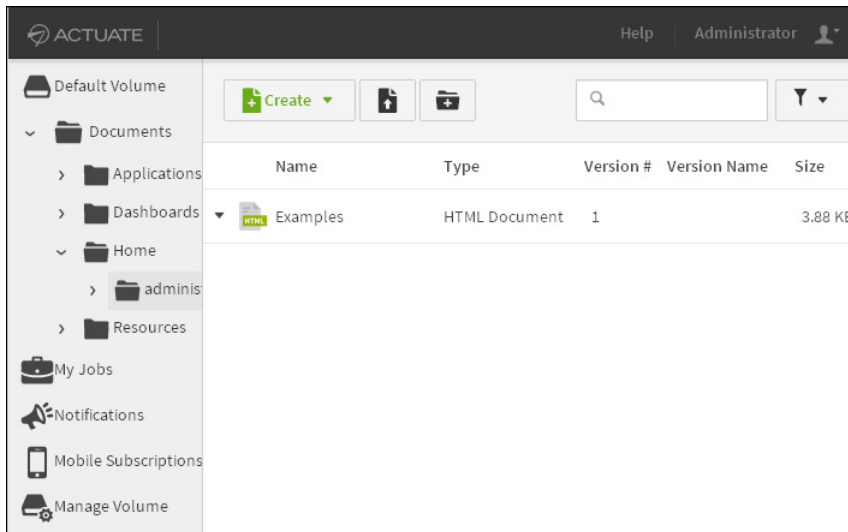


Figure 3-2 Viewing Information Console

About Information Console functionality

Information Console provides end-user access to dashboards, files, folders, and gadgets. This access includes sharing items that the user owns, and submitting jobs. For more information about this functionality, see *Using Information Console*.

The system administrator uses iHub Administration to add users and user groups, and to configure access to BIRT iHub shared application services and volume items such as dashboards, files, folders, and gadgets.

Accessing user administration

To administer Information Console users and user groups, choose Administrator—iHub Administration, as shown in Figure 3-3. This choice appears if the user has the requisite privileges.

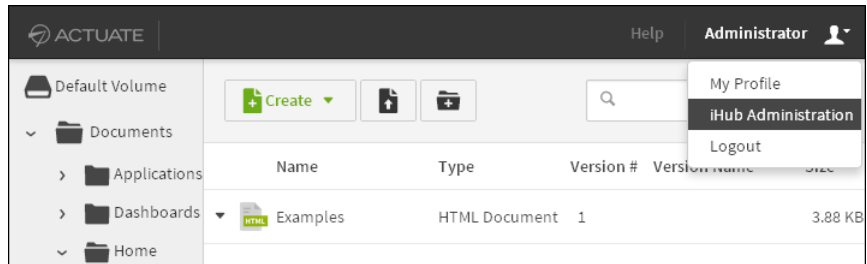


Figure 3-3 Accessing iHub Administration

iHub Administration appears, as shown in Figure 3-4.

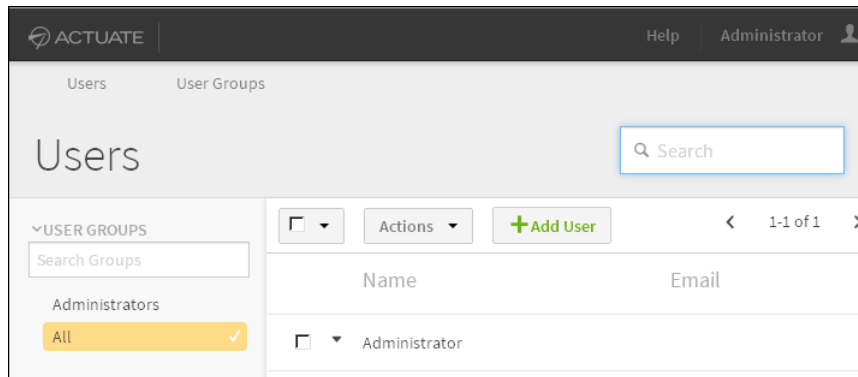


Figure 3-4 Viewing iHub Administration

How to disable user administration

To disable user administration functionality completely in this web application for security reasons, perform the following tasks:

- 1 Delete the following folder from the installation environment:
~\Actuate\iHub3\modules\BIRTiHub\iHub\web\portal\admin
- 2 Comment out or delete the context path setting in the web.xml file in the following location, shown in Listing 3-1:

```
~\Actuate\iHub3\modules\BIRTiHub\iHub\web\portal\WEB-INF\
web.xml
```

Listing 3-1 Administration context path in Information Console web.xml

```
<context-param>
  <param-name>MC_CONTEXT</param-name>
  <param-value>/acadmin</param-value>
</context-param>
```

For more information about BIRT iHub Visualization Platform user administration tools, see *Managing Volumes and Users*.

Managing a volume

A user who has administrative privileges has access to the Manage Volume tools in Information Console. For more information about the volume management tools, see *Managing Volumes and Users*.

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