Using the Java CAPS 6 Installation GUI

Sun

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Contents

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This topic provides instructions that lead you through the procedures to successfully install the Java™ Composite Application Platform Suite (Java CAPS) using a graphical user interface (GUI). If you have any questions or problems, see the Java CAPS Support web site at `http://goldstar.stc.com/support`.

To access all the Java CAPS documentation in HTML format on the Sun Developer Network (SDN) web site, go to `http://developers.sun.com/docs/javacaps/` or click the HELP tab in Enterprise Manager.

The HELP tab in the Java CAPS Uploader opens the "Installing Java CAPS Components Using the Java CAPS Uploader" topic.

Before beginning the installation, read:

- *Planning for Java CAPS Installation*

What You Need to Know

- "Overview of Installation" on page 6

What You Need to Do

- "Installing the JDK Software and Setting `JAVA_HOME`" on page 8
- "Installing Java CAPS Using the Java CAPS Installer" on page 10
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Overview of Installation

Before beginning the installation, read *Planning for Java CAPS Installation*, which contains information such as supported platforms, operating system limitations, parameter definitions, and the like. This information is necessary for you to complete a successful installation of Java CAPS.

Complete Graphical User Interface Installation

The following software is installed:

- Sun Java System Application Server (SJSAS) 9.1 UR2
- NetBeans™ IDE 6.1 ML

Note – IDE is an acronym for an integrated development environment. It consists of a number of components, such as a compiler, source code editor, build tools, debugger, browser, object inspector, class hierarchy diagram, and so on. These components can be used when performing object-oriented software development. The integrated tools can also be used to build a graphical user interface (GUI).

- Java CAPS Repository v. 6
- Java CAPS Enterprise Manager v. 6
- Sun JMS IQ™ Manager v. 6
- UDDI Server

Note – Businesses use Universal Description, Discovery, and Integration (UDDI), an XML-based registry, to list themselves on the Internet. Similar in function to a telephone book, this registry enables companies to engage in e-commerce on the web.

- Java CAPS core products
  - Sun Enterprise Service Bus
  - Sun Business Process Manager
  - Sun Composite Page Designer
  - Sun Data Integrator
- Additional Java CAPS components
  - Sun Adapter for Batch/FTP
  - Sun Adapter for DB2 Connect
  - Sun Adapter for e-Mail
  - Sun Adapter for File
  - Sun Adapter for HTTPS

- Sun Adapter for JDBC/ODBC
- Sun Adapter for Oracle
- Sun Adapter for SQL Server
- Sun Adapter for Sybase

Note – Certain adapters require additional installation procedures. For details, see *Installing Third-Party JAR Files*.

- Java Business Integration (JBI) components
- Eviware, a partner product

The GUI installation is divided into four installation segments:

- Java CAPS Installer installs the Sun Java System Application Server 9.1, NetBeans IDE 6.1 ML (which installs Java CAPS plugins), five Java CAPS core products, nine Java CAPS Adapters, Java CAPS Repository version 6, Enterprise Manager version 6, Sun JMS IQ Manager version 6, and the UDDI Server.
- Java CAPS EE Update Center in NetBeans IDE downloads modules from the Java CAPS Repository.

Note – If you install NetBeans IDE during the initial installation, you do not need to download modules until updates become available.

- Java CAPS Uploader (formerly known as the Suite Installer) uploads and installs additional Java CAPS components that require a Repository. These components include all SAR files that were not installed using the Java CAPS Installer or the NetBeans IDE Update Center. The Uploader also enables you to download and extract ZIP files.
- Java CAPS Enterprise Manager Web Applications Manager installs Java CAPS component plugins. These plugins are listed under the Downloads tab in the Java CAPS Uploader, and include adapter plugins, as well as plugins for other product components, such as the Web Services, Composite Page Designer, and Business Process Manager.

You do not have to install all of the software and components at the same time. You can install additional Java CAPS products and components at any time after completing the initial installation using the NetBeans IDE Update Center and Java CAPS Uploader and selecting the items from a list.

Caution – Java CAPS Release 6 does not support spaces in the installation directory path.

The process also installs the Sun Uninstallation software.

> **Note –** You must have the JDK™ (Java Development Kit) software installed and `JAVA_HOME` set prior to installing Java CAPS or the Installer will halt the installation. See "Installing the JDK Software and Setting `JAVA_HOME`" on page 8 for details.

Installing the JDK Software and Setting `JAVA_HOME`

If you do not already have the JDK software installed or if `JAVA_HOME` is not set, the Java CAPS installation will not be successful. The following tasks provide the information you need to install the JDK software and set `JAVA_HOME` on UNIX or Windows systems.

The following list provides the Java CAPS JDK requirements by platform.

Solaris	JDK5: At least release 1.5.0_14
	JDK6: At least release 1.6.0_03
IBM AIX	JDK5: The latest 1.5 release supported by IBM AIX
Linux (Red Hat and SUSE)	JDK5: At least release 1.5.0_14
	JDK6: At least release 1.6.0_03
Macintosh	JDK5: The latest 1.5 release supported by Apple
Microsoft Windows	JDK5: At least release 1.5.0_14
	JDK6: At least release 1.6.0_03

> ⚠️ **Caution –** It is not receommended to use JDK 1.6.0_13 or 1.6.0_14 with Java CAPS due to issues with several of the wizards used to develop applications. In addition, the installation failes on Windows when using JDK 1.6.0_13 or 1.6.0_14. The Java CAPS Installer does not support JDK release 1.6.0_04 in the 64–bit version on the Solaris SPARC or AMD 64–bit environments. The installer also does not support JDK 1.6.0 or later on AIX 5.3.

▼ To Install the JDK Software and Set `JAVA_HOME` on a UNIX System

1 Install the JDK software.

a. Go to `http://java.sun.com/javase/downloads/index.jsp`**.**

    b. Select the appropriate JDK version and click Download.

       The JDK software is installed on your computer, for example, at /usr/jdk/jdk1.6.0_02.
You can change this location.

2   Set JAVA_HOME.

- **Korn and bash shells:**

  export JAVA_HOME=*jdk-install-dir*

  export PATH=$**JAVA_HOME**/bin:$PATH

- **Bourne shell:**

  JAVA_HOME=*jdk-install-dir*

  export JAVA_HOME

  PATH=$**JAVA_HOME**/bin:$PATH

  export PATH

- **C shell:**

  setenv JAVA_HOME *jdk-install-dir*

  setenv PATH $**JAVA_HOME**/bin:$PATH

  export PATH=$**JAVA_HOME**/bin:$PATH

3   **Change the permissions to enable you to run the Java CAPS Installer.**

    chmod 755 JavaCAPS.bin

▼ To Install the JDK Software and Set JAVA_HOME **on a Windows System**

1   **Install the JDK software.**

    a. Go to http://java.sun.com/javase/downloads/index.jsp**.**

    b. Select the appropriate JDK software and click Download.

       The JDK software is installed on your computer, for example, at C:\Program
Files\Java\jdk1.6.0_02. You can move the JDK software to another location if desired.

2 **To set** `JAVA_HOME`**:**

a. **Right click My Computer and select Properties.**

b. **On the Advanced tab, select Environment Variables, and then edit** `JAVA_HOME` **to point to where the JDK software is located, for example,** `C:\Program Files\Java\jdk1.6.0_02.`

Installing Java CAPS Using the Java CAPS Installer

This procedure installs the Sun Java System Application Server 9.1 (SJSAS), NetBeans IDE 6.1 ML, Java CAPS core products such as the Sun Enterprise Service Bus, and Java CAPS add-on components such as adapters, Sun Java Repository version 6, Sun Java Enterprise Manager version 6, Sun JMS IQ Manager version 6, and the UDDI Server using Java CAPS Installer. The Sun Uninstallation software is also installed.

Although you can change the defaults, accepting most of them is a good practice, especially the port numbers.

Caution – Java CAPS Release 6 does not support spaces in the installation directory path.

Note – Certain adapters require additional installation procedures. For details, see *Installing Third-Party JAR Files*.

▼ To Install Java CAPS Components Using Java CAPS Installer

Before You Begin   When installing Java CAPS on UNIX systems, such as Solaris machines, you need to set the `DISPLAY` variable to install in GUI mode. How you do this is dependent upon how you connect to your system.

- If you receive the error message "No X11 DISPLAY variable was set, but this program performed an operation which requires it" and you use the SSH command to connect to your system from another UNIX machine, you need to set the `DISPLAY` variable.

  - C shell with `localhost` as the host name

    `setenv DISPLAY localhost:0.0`

  - Korn shell with `localhost` as the host name

    `DISPLAY localhost:0.0`

```
export DISPLAY
```

- If you use X Windows software, such as Exceed, the DISPLAY variable is set for you automatically.

Do not use telnet if you install on a Windows system.

1 **Download the installation executable file from the delivery media to the installation directory.**

You can download the file from the following media:

- The Sun Download Center (SDLC) URL supplied by Sun Support
- The DVDs that come with the Java Composite Application Platform Suite Media Kit

2 **Extract the JavaCAPS.zip file to a temporary directory.**

Note – If a /tmp directory is not accessible, the Java CAPS Installer asks for a new directory.

3 **Exit from all programs prior to beginning the installation.**

You can cancel the installation at any time during the process.

4 **To start the installation, initiate the appropriate executable file:**

- Solaris, AIX, or Linux: sh JavaCAPS.bin
- Macintosh: JavaCAPS.app or sh ./JavaCAPS.app
- Windows: JavaCAPS.exe

5 **When the Java CAPS Installer wizard appears, click Next on the Introduction page to begin the installation.**

Tip – Use the Next and Previous buttons to navigate forward and backward in the installation.

6 **On the License Agreement page select "I accept the terms of the License Agreement" and then click Next.**

7 **On the Choose Install Directory page, accept the default or click Choose to browse to another directory.**

Note – If you select the default directory and it does not exist, the Installer creates it for you. If you select another directory and want to return to the default directory, click Restore Default Folder.

8 **On the Choose Install Set page, select the type of installation you want to perform (Complete or Custom) and click Next.**

9   If you selected Custom, on Choose Components deselect any of the components you do not want to install.

Note – You should install all the components. Sun JMS IQ Manager is required if you have Projects from any product releases between version 5.0.5 and version 5.1.3. The JMS IQ Manager is not an option on Macintosh installations.

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10   On the Choose Java Developer Kit (JDK) page, click Choose to navigate to the directory where your JDK software is located, and then select it.

The Sun Java System Application Server requires the JDK software for installation. For more information, see "Installing the JDK Software and Setting JAVA_HOME" on page 8.

Caution – If you select a Java Runtime Environment (JRE™), you cannot install or configure the Sun Java System Application Server.

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11   On the Java CAPS Repository Input page, accept the default port number.

The default value is 12000. This port assignment requires ten consecutive available ports. Therefore, during installation, the system selects nine additional port numbers that sequentially follow the initial port number (12001–12009 for the default). Because port checking performed at installation only detects ports in use at that time, the installation will not detect ports that are configured to be used by other applications that are not running at that time. Consequently, be careful if you choose to change the default port value.

Note – If a security alert appears on your system, you must unblock the tagged program to continue the installation.

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12   Determine whether to install predefined Java CAPS components (non-JBI based Java CAPS components) from the Repository into NetBeans.

The Sun Java System Application Server Input page appears. This server is the Java EE and JBI server on which you create and deploy Java CAPS applications.

13   Determine the settings for the Sun Java System Application Server.

Setting	Description	Default
Admin user name	The name you use when you log in as administrator.	admin
Admin password	The password you use when you log in as administrator.	adminadmin

Setting	Description	Default
Master password for the SSL certificate for AS Admin operations	The key used to protect data in the Sun Java System Application Server, that is, the password of the secure keystore. The password must be at least 8 characters long.	changeit
Admin port number	The port on which the Sun Java System Application Server listens for administrative HTTP requests.	4848
HTTP port number	The port on which the Sun Java System Application Server listens for HTTP requests for web applications that you deploy.	8080
Secure HTTPS port number	The port on which the Sun Java System Application Server listens for HTTPS requests for web applications that you deploy.	8181
JMS port number	The port on which the Sun Java System Application Server listens for JMS IQ Manager requests.	7676
JMX admin port number	The port on which the Sun Java System Application Server listens for JMX administration requests.	8686
IIOP port number	The port on which the Sun Java System Application Server listens for CORBA requests.	3100
Secure IIOP port number for the initial server instance	The port on which the Sun Java System Application Server listens for secure CORBA requests.	3820
Mutual Authentication IIOP port number for the initial server instance		3920

Tip – Record the administrator name, password, and master password, as well as the port numbers, for later use. The Sun Java System Application Server asks for the administrator name, password, and master password when you start it using the start_appserver_domain1 script. When you start the server from AS Admin or NetBeans IDE the administrator name, password, and master password are not required.

14   On the Sun JMS IQ Manager Input page, choose how you want to install JMS IQ Manager.

Use the JMS IQ Manager for Java CAPS projects that require the same messaging behavior found in releases 5.0.5 through 5.1.3. It can be installed in addition to JMQ, the JMS server that ships with the Sun Java System Application Server.

Note – The JMS IQ Manager is not an option on Macintosh systems.

a.   The JMS IQ Manager binary defaults to the operating system on which you are installing Java CAPS, but you can change it by using the drop-down list.

The Sun JMS IQ Manager uses native binaries for different operating systems and processor architectures. Choose the binary that matches the platform on which you want to install JMS IQ Manager.

Note – You must install the Sun Java System Application Server if you install the Sun JMS IQ Manager. You can also install JMS IQ Manager manually to a different Sun Java System Application Server after this installation completes.

b.   Accept the Port number that JMS IQ Manager will listen on or change the default of 18007.

c.   Accept the Secure SSL port number that JMS IQ Manager will listen on or change the default of 18008.

d.   If you want to migrate the JMS IQ Manager from a previous version of Java CAPS, type the root directory of the previous installation in the Migration From Directory field.

15   On the Java CAPS Enterprise Manager Input page, accept the Host Name and Admin Port defaults or change them.

Note – Enterprise Manager is the management server that you use to manage deployed Java CAPS applications and alerts.

- The Host Name is the name of the computer on which you are installing. Other components, such as the Sun Java System Application Server, use this name to access Enterprise Manager. Enterprise Manager relays this name to other components. Although this is usually the name of the computer Enterprise Manager is running on, you can specify the name of a proxy server.

- The Admin Port is the port on which Enterprise Manager listens to HTTP requests.

  The default value is 15000. This port assignment requires five consecutive available ports. Therefore, during installation, the system selects four additional port numbers that sequentially follow the initial port number (15001–15004 for the default). Because port checking performed at installation only detects ports in use at that time, the installation will

not detect ports that are configured to be used by other applications that are not running at that time. Consequently, be careful if you choose to change the default port value.

Record the port number for later use.

16   **When the Pre-Installation Summary page appears, if you are satisfied with your selections click Install. Otherwise, use the Previous button to change your selections.**

Note – If a firewall blocks any of the components from installing, remove the block and continue installing the component.

The Installing Java CAPS page displays. While the suite is installed on your system, you will see a number of pages that supply information about what you are installing, for example, the Sun Java Enterprise Service Bus Suite and the Sun Java System Application Server. Also listed are links to pertinent Open Source web sites.

17   **When the Installation Complete page appears, read the comments before you click Done to exit the Installer.**

Java CAPS is configured for your system. For additional details about the installation, see the installation logs.

The Java CAPS Installer closes and a "Register Now!" page opens on your browser. When you register Java CAPS with the Sun Developer Network, the following benefits become available to you:

- Notification of new versions, patches, and updates
- Special offers on Sun developer products, services, and training
- Access to early releases and documentation
- Ability to track and manage your registered products on the Sun Inventory site

18   **Register Java CAPS.**

   a.   **(Optional) If you do not already have a Sun account, under Create An Account click Sign Up Now to Register for a Sun Online Account.**

   The Registration form appears. It asks for general information, such as name, email address, and so on. It requires that you set up a password for your account. Once you have filled out the form to your satisfaction, click Submit.

Note – You must have a Sun account set up before you can register Java CAPS and receive the benefits of registration.

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   b.   **To register, under Use My Account, enter your User Name and Password, select "I accept the terms of use for registering Sun programs," and click Register Now.**

> **Note** – You can register at a later time. To do this, navigate to the base directory where you installed Java CAPS and initiate register.html. When a Sun Product Registration screen appears, click Register to access the "Register Now!" page.

19 Start the Java CAPS Repository and run the Java CAPS EE Update Center in NetBeans IDE to download modules from the Repository into NetBeans.

> **Note** – See "Installing Java CAPS Components Using the NetBeans IDE Update Center" on page 16 for details.

However, if you chose to install NetBeans IDE as part of the initial Java CAPS installation, all the modules have already been downloaded from the Repository to the NetBeans IDE.

Installing Java CAPS Components Using the NetBeans IDE Update Center

This procedure installs Java CAPS Java EE components using the NetBeans IDE Update Center. These JBI-based Java CAPS components do not require a Repository.

> **Note** – Certain adapters require additional installation procedures. For details, see *Installing Third-Party JAR Files*.

▼ To Install Java CAPS Components Using the NetBeans IDE Update Center

Before You Begin This task assumes that you have installed the NetBeans IDE and a Java CAPS Repository.

1 To start Repository and NetBeans IDE, navigate to the base directory where you installed Java CAPS and start the appropriate executable files.

2 From the NetBeans IDE menu bar choose Tools and then Plugins.

3 On the Plugins page, choose the Settings tab.

4 From the Configuration of Update Centers pane, select the type of components you want to install, for example, NetBeans, Plugin Portal, and 3rd Party Plugins.

    a. Choose the Available Plugins tab.

b. Right-click any of the entries, and select Check All or individually select the components to install.

   Note – You do not need to select the CAPS Repository Update Center at this time as all these components were installed during the Java CAPS installation, as was the third party product Eviware.

5   To begin the installation, click Install.

6   When the NetBeans IDE Installer appears, click Next, accept the license, and click Install.
This page lists the Java CAPS 6 plugins you are installing.

   Note – Ignore any validation or unsigned warnings and continue with the installation.

7   When the installation completes, click Finish.

8   (Optional) If an additional wizard appears before NetBeans IDE refreshes, follow the onscreen steps to install the plugin.

9   Connect to the Repository and log on to the Java CAPS Uploader.
The Repository is required for non-JBI based projects created for releases 5.0.5 through 5.1.3. See for details.

Installing Java CAPS Components Using the Java CAPS Uploader

Use the Java CAPS Uploader to install additional Java CAPS components that require a Repository. These components include all SAR files that were not installed using the Java CAPS Installer or the NetBeans IDE Update Center. The Uploader also enables you to download and extract ZIP files.

The Enterprise Manager SVG Plugin for win32 is required when you use Internet Explorer and you want to have the Connectivity Map capable of zooming in and zooming out. If you use Internet Explorer and do not install the SVG plugin, Enterprise Manager uses the JavaScript™ language to display the Connectivity Map instead of SVG. When this happens, you will not have zoom-in and zoom-out capabilities. The Enterprise Manager SVG Plugin for win32 is located under Auxiliary in the Java CAPS Uploader. Firefox has a built-in SVG and does not require the plugin.

Note – Certain adapters require additional installation procedures. For details, see *Installing Third-Party JAR Files*.

▼ To Install Java CAPS Components Using the Java CAPS Uploader

Before You Begin   This task assumes that you have installed the Repository using the Java CAPS Installer and that the Java CAPS Uploader is running. The Java CAPS Uploader installs non-JBI based Java CAPS components that require a Repository.

Tip – Once the Java CAPS Uploader is running, the HELP tab opens the "Installing Java CAPS Components Using the Java CAPS Uploader" topic and the Documentation tab opens the Sun Java CAPS Documentation tab on the SDN web site.

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1   **To start the Repository, navigate to the base directory where you installed Java CAPS, and start the appropriate executable file.**

2   **In a browser window, go to `http://`*host-name*`:`*port-number***, where:**

- *hos-nname* is the TCP/IP host name of the server where you installed the Repository and not the name of the Repository itself.

- *port-number* is the port number that you specified during the installation of the Repository.

3   **To log in to the Java CAPS Uploader, type your username and password.**

Note – The defaults are "admin" for username and "adminadmin" for password.

The Java CAPS Uploader starts, listing components you have already installed.

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4   **To install additional Java CAPS components, select Click to Install Additional Products.**

5   **Under Select Java Composite Application Platform Suite Products to Install, open a Product Name category such as Core Product or OTD.**

6   **Make your selections by selecting the box to the left of the component, and, when ready, click Next.**

Note – "eGate" and "eWay" are pre-Release 6 terms. To see their current equivalents, refer to *Planning for Java CAPS Installation*.

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7   In the Selecting Files to Install dialog box, navigate to the appropriate SAR file, select it, and click Next.

For information about the location of the SAR files, see *Planning for Java CAPS Installation*.

Note – If you decide you do not want to upload a particular component, click Skip to move on to the next component. However, sometimes you cannot skip an upload due to dependencies.

Repeat this step until you have selected all the SAR files.

The Java CAPS Uploader uploads the selected components to the Repository.

▼ To Download and Expand ZIP Files Using the Java CAPS Uploader

Some Java CAPS components are delivered as ZIP files. When you copy the Java CAPS executable file to your installation directory, these ZIP files become available under the Downloads tab in the Java CAPS Uploader.

Note – See "Installing Plugins Using Enterprise Manager Web Applications Manager" on page 20 for information about how to install adapter plugins and some of the other plugins listed under the Downloads tab.

Before You Begin   This task assumes that the Repository is running and that you have started the Java CAPS Uploader.

1   From the Java CAPS Uploader, click the Downloads tab.

A list of components that are available to download from the Repository appear.

Note – This example downloads the Command Line Codegen.

2   In the list of components to download, select a component to download and extract, such as CommandLineCodegen.

3   On the File Download page, select Open to extract commandlinecodegen.zip**.**

The ZIP file opens in an extraction program, such as WinZip.

4   Extract all the files to the target directory.

In this example, you might extract the files to *InstallDirectory*\repository, where the *InstallDirectory* is the directory where you installed Java CAPS.

Installing Plugins Using Enterprise Manager Web Applications Manager

This procedure installs Java CAPS component plugins using the Java CAPS Enterprise Manager Web Applications Manager. These plugins are listed under the Downloads tab in the Java CAPS Uploader, and include adapter plugins as well as plugins for other product components, such as Web Services, Composite Page Designer, and Business Process Manager.

Note – Certain adapters require additional installation procedures. For details, see *Installing Third-Party JAR Files*.

▼ To Install Java CAPS Plugins Using the Enterprise Manager Web Applications Manager

Before You Begin   This task assumes that you have started Enterprise Manager.

1   In the left pane, known as the Explorer pane, click the Configuration icon.

The Web Applications Manager tab appears in the right pane.

2   In the right pane, click the Web Applications Manager tab.

The Specify Repository Connection Properties dialog box appears.

3   In the Specify Repository Connection Properties dialog box, provide custom values.

- Host Address – For example, `http://host-name:port-number`, where *host-name* is the name of the computer where the Repository is installed, and *port-number* is the port number the Repository uses.
- User Name – Your Java CAPS administrator user name.
- Password – Your Java CAPS administrator password.

4   When ready, in the Specify Repository Connection Properties dialog box, click Connect to connect to the Repository.

The dialog box expands to include the adapter and other plugins that are available to install.

5   Select the application plugins you want to install and then click Install.

The results are listed at the bottom of the Specify Repository Connection Properties dialog box.

Starting and Stopping Java CAPS

To start or stop Java CAPS, after the initial installation, navigate to the Java CAPS install directory or to the directory where the component is installed that you want to start or stop. Run the appropriate command.

Component	From Java CAPS Installation Directory	From Component Installation Directory
Sun Java System Application Server	UNIX – sh start_appserver_domain1.sh	
	UNIX – sh stop_appserver_domain1.sh	
	Windows GUI – start_appserver_domain1	
	Windows GUI – stop_appserver_domain1	
	Windows CLI – start start_appserver_domain1	
	Windows CLI – start stop_appserver_domain1	
Repository	UNIX – sh start_repository.sh	**UNIX directory** – *install-directory*/repository/repository
	UNIX – sh stop_repository.sh	CLI – sh startserver.sh
	Windows GUI – start_repository	CLI – sh stopserver.sh
	Windows GUI – stop_repository	**Windows directory** – *install-directory*\repository\repository
	Windows CLI – start start_repository	GUI – startserver.bat
	Windows CLI – start stop_repository	GUI – stopserver.bat
		CLI – start startserver
		CLI – start stopserver

Component	From Java CAPS Installation Directory	From Component Installation Directory
Enterprise Manager	UNIX – sh start_emanager.sh	**UNIX directory** – *install-directory*/emanager
	UNIX – sh stop_emanager.sh	CLI – sh startserver.sh
	Windows GUI – start_emanager	CLI – sh stopserver.sh
	Windows GUI – stop_emanager	**Windows directory** – *install-directory*\emanager
	Windows CLI – start start_emanager	GUI – startserver.bat
	Windows CLI – start stop_emanager	GUI – stopserver.bat
		CLI – start startserver
		CLI – start stopserver
NetBeans IDE	Windows GUI – start_netbeans	**Windows directory** – *install-directory*\netbeans\bin
	Windows CLI – start start_netbeans	GUI – netbeans.exe
	To stop NetBeans click "X" in title bar	CLI – start netbeans

Note – Windows provides a Repository Service Manager. To open it, navigate to *install-directory*\repository\repository and invoke servicemanager.bat to open the Sun Java CAPS Repository Server Service Manager dialog box. Use the dialog box options to install and uninstall services, and to start and stop the Repository Server.

Connecting to Java CAPS Repository From the NetBeans IDE

If desired, you can connect to the Java CAPS Repository from within the NetBeans IDE.

▼ To Connect to Java CAPS Repository from the NetBeans IDE

Before You Begin   This procedure assumes that the NetBeans IDE is running and that the Java CAPS Repository has been installed and is running.

1   **To connect to the Repository from the NetBeans IDE tool bar, choose Tools, CAPS Repository, and then Connect.**

Note – If you do not have any non-JBI based Java CAPS projects from versions 5.0.5 through 5.1.3, you do not need to connect to the Repository. However, you need the Java CAPS Uploader to upload additional Java CAPS component SAR files that were not included with the initial installation.

2   **On the Connect to Java CAPS Repository page, ensure that the information in the Repository URL field matches the Repository configuration you set during the installation and then click Connect.**

Note – Deselect the Remember Password box if you want to provide the password each time you log on to the Repository.

You are now ready to start the Sun Java System Application Server.

Note – If you have a security system, unblock any programs that are blocked, such as Sun JMS IQ Manager.

You are now ready to start the Java CAPS Uploader, which enables you to upload and install the remaining Java CAPS components.

Importing Non-JBI Based Java CAPS Sample Projects

Sample projects are available for implementation and product training. You can import the sample project files from the Sun Java Caps Documentation tab on the Sun Developers Network (SDN) web site at `http://developers.sun.com/docs/javacaps/`.

▼ To Import a Non-JBI Based Sample Project

Before You Begin   Make sure that the Java CAPS Repository is running and that all necessary SAR files and components have been loaded. Save all unsaved work before proceeding.

1   **In a browser window, go to the Sun Java CAPS Documentation tab on the SDN web site.**

2   **Under Check Out Java CAPS Docs, click the Tutorials and Sample Projects link.**

3   **Under Java CAPS Tutorials and Sample Projects, expand a tutorial list to expose the Sample Project Zip File link.**

4   **Select the Sample Project Zip File link and save the archive file on your local machine.**
     Remember where you saved the file.

5   Start the NetBeans IDE and connect to the running repository:

    a.   Select Tools →CAPS Repository→Connect.

    b.   Supply or accept values for login name, password, and so on.

    c.   Click Connect.

6   In the NetBeans IDE, select Tools→CAPS Repository→Import Project.

7   (Optional) If desired, in Import Manager under Destination Project, set the project As Top-Level.

8   In Import Manager "From ZIP file," browse to the location of the sample project archive file.

9   Select the sample project archive file, for example,
`prjBatch_Inbound_LocalFileIn_FTPOut.zip`**, and then click Import.**

10   When the sample project has successfully imported, click Close.

11   Repeat step 6 for other project files you want to import.