CAINTEGRATOR V.1.3

Local Installation Guide



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Introduction

This *caIntegrator v.1.3 Installation Guide* provides you with the instructions to install and configure a fresh caIntegrator v.1.3 application. The caIntegrator installation installs and configures a JBoss application server and creates a caIntegrator-specific schema within a pre-existing database on a preinstalled MySQL server.

Directions are given in this document for both Linux and Windows operating systems.

NOTE



Published caIntegrator v.1.3 development documentation can be found on the caIntegrator page of the NCI wiki: https://wiki.nci.nih.gov/x/9YMOAQ

Overview of calntegrator Installation

The process for installing calntegrator v.1.3 includes the following tasks described in this document:

- 1. Downloading and installing required software
- 2. Setting environment variables
- 3. Downloading calntegrator v.1.3 distribution files
- 4. Installing
 - a. GUI Installer Method
 - b. Command-Line Method
 - -- Editing install.properties file
- 5. Configuring JBoss servers and MySQLserver to run as a service
- 6. Post-Installation Tasks
 - a. Using UPT to Add calntegrator Users

NOTE



For the system userid which will be used to start the calntegrator application, you should specify permission to open at least 2048 file descriptors.

calntegrator v.1.3 Software and Technology Requirements

Tested Environment

The caIntegrator v.1.3 installation has been tested on Linux Red Hat Enterprise Linux AS 4 64/32-bit (for AMD chipset) and the Windows XP/2003 environments. While the installation may work in other Linux and Windows environments, it has only been tested in these environments.

NOTE



For the system userid which will be used to start the calntegrator application, you should specify permission to open at least 2048 file descriptors.

Required Software—Not Included in calntegrator

Many of the servers and services that make up calntegrator are automatically installed as part of this installation. However, certain tools that you must manually install and configure are listed in Table 1. The software name, version, description, and URL hyperlinks (for download) are indicated in the table.

Prior to the calntegrator v.1.3 installation, you must download and install the following tools and recommended versions in the order they are listed in Table 1. Complete the directions for installing each, as directed on the corresponding website.

Required Software Name Version	Description
Java 2 Platform Standard Edition 6.0 Update 18 (J2SE 6.0) http://java.sun.com/products/archive/j2se/6u18/index.htmlBe sure to download the correct Java SDK for your operating environment. For example, for Linux AMD 64, you would download jdklinux-amd64-rpm.bin. For Windows, you might download jdkwindows-i586-p.exe.	The J2SE Development Kit (JDK) supports creating J2SE applications.
Apache Ant, 1.7.0 https://gforge.nci.nih.gov/svnroot/lsd/trunk/tools/apache-ant-1.7.0-bin.zip	Apache Ant is a Java-based build tool.
MySQL, 5.0.45 http://downloads.mysql.com/archives.php?p=mysql-5.0&v=5.0.45	MySQL is an open-source database software application.

Table 1 Required Software

IMPORTANT



As you install each application, record the installation directory path, and the hostname of your MySQL DB server, and the DB admin username/password, if you are going to install UPT.

Java SDK Installation

When you install the Java SDK, you will be prompted to select the installation directory. Record the path, as this directory will be used when you set the environment variables.

Apache Ant Installation

- Unzip the Apache Ant distribution files using a command line unzip tool or a zip utility, such as WinZip.
- After extracting the zip, you must set the environment variables, described in the following section, so that Ant is available in the system PATH.

Apache Ant Environment Variables

NOTE



The purpose of setting operating system environment variables is so that the Java SDK and Ant build tool are available to run from anywhere in the system.

Linux

To set the environmental variables in Linux, follow these steps:

NOTE



The JAVA_HOME, ANT_HOME and PATH environment variables are set in /etc/profile. You may need to create the variables, or modify them if they already exist.

Step	Action
1	As the root user, enter the following in the /etc/profile file. A PATH variable should already be created in this file, so be sure to define the JAVA_HOME and ANT_HOME export before the PATH export. Replace <some_path> with the correct path fragment for Java and Ant installations.</some_path>
	export JAVA_HOME= <some_path>/jdk1.6.0_18</some_path>
	export ANT_HOME= <some_path>/apache-ant-1.7.0</some_path>
	export PATH=\$JAVA_HOME/bin:\$ANT_HOME/bin:\$PATH
2	Log out and log back in so that the system recognizes your changes.

Verifying the Environment Variables in Linux

To verify that environment variables have been set correctly, follow these steps:

Step	Action
	From the command line, enter:
1	echo \$JAVA_HOME echo \$ANT_HOME
	Both of these commands should return the location where you installed these tools.
2	To verify your Java SDK installation, enter <code>java -version</code> from a command prompt. You should see <code>java version "1.6.0_18"</code> .
3	To verify your Ant installation, enter: ant -version from a command prompt. You should see: Apache Ant version 1.7.0 compiled on December 13 2006.

Windows

To set the environmental variables in Windows, follow these steps:



The JAVA_HOME, ANT_HOME and PATH environment variables are set in the System Properties.

Step	Action
1	In Windows, select Control Panel , then select the System application. In the System Properties window, select the Advanced tab.
2	On the Advanced tab, click the Environment Variables button. To add a new system variable, select the New button. a. In the Variable <u>name</u> text box, enter <u>JAVA_HOME</u> . b. In the Variable <u>value</u> text box, enter the location of your Java installation.
3	Click the New button again. a. In the Variable name text box, enter ANT_HOME . b. In the Variable value text box, enter the location of your Ant installation.
4	Select the PATH system environment variable, and select the Edit button. This opens the Edit System Variable dialog box, displayed here as an example. Edit System Variable Variable name: PATH Variable value: OK Cancel
5	In the Variable value text box, prepend the following text in front of the text that already exists in the Variable Value field. %JAVA_HOME%\bin;%ANT_HOME%\bin; Click OK .

Verifying the Environment Variables in Windows

To verify the environment variables have been set correctly, follow these steps:

Step	Action
	From the command line, enter:
1	echo %JAVA_HOME%
	echo %ANT_HOME%
	Both of these commands should return the location where you installed these tools.

Step	Action
2	To verify your Java SDK installation, enter <code>java -version</code> from a command prompt. You should see <code>java version "1.6.0_18"</code> .
3	To verify your Ant installation, enter ant -version from a command prompt. You should see: Apache Ant version 1.7.0 compiled on December 13 2006.

NOTE



Environment variables for calntegrator and, optionally, UPT are modified and set in those sections of this document: Installing a New calntegrator v.1.3 on page 9 and Downloading and Installing UPT (Optional) on page 8.

MySQL Installation and Configuration

A MySQL 5.0.45 server must be downloaded, installed and running in order for the calntegrator installation to work successfully.

To download and install MySQL, follow the steps outlined on the MySQL website: http://downloads.mysql.com/archives.php?p=mysql-5.0&v=5.0.45.

TIP



You should consult the following three links to successfully set up secure and well-performing MySQL servers, in preparation for installing calntegrator:

- MySQL Security Guide -http://dev.mysql.com/doc/refman/5.0/en/security-guidelines.html
- Performance -
 - General performance tuning http://dev.mysql.com/books/hpmysql-excerpts/ch06.html
 - InnoDB engine performance tuning http://dev.mysql.com/doc/refman/5.0/en/innodb-tuning.html

MORE TIPS



- Record the MySQL root username/password chosen during the MySQL installation process, as you will need to use this as your database.system.user/database.system.password later in the UPT installation process, should you choose to install UPT.
- Note the MySQL port chosen during the MySQL installation process, as you will need to use this as your database.port later in both the calntegrator and UPT (if installing UPT) installation processes.

Working with Properties Files

About Properties

An important component of command-line installation of either calntegrator or UPT is configuring properties files. Prior to initiating a command-line installation, property variables must be modified. Note the following points about changing or entering variables.

Paths in Properties Files

NOTE



The paths in the .properties files should use *forward* slashes. For example, you would use

application.base.path=C:/apps/caIntegrator-app, not application.base.path=C:\apps\caIntegrator-app. If you use backslashes, you will experience undesirable results.

Spaces in Path Property Values

NOTE



You should not specify paths with spaces included as property values. In Windows, note that the C:\Documents and Settings\<username> path contains spaces and should not be used, or anything similar. If you are using Windows, use a path such as C:/apps/caIntegrator.

Spaces are fine for property values which do not represent a path.

More About Property Values

NOTES



- In each *.properties file, any property value marked with uppercase REPLACE_* must be manually updated with the appropriate value.
- In each *.properties file, any property value marked with lowercase replace_* may be optionally updated with the appropriate value.
- If there is reference to a database.system.user for your MySQL server, you can determine which users have full privileges to create and manage other databases, by executing **show grants** from a MySQL prompt to determine the correct level of privileges.

Downloading and Installing UPT (Optional)

If you do not already have a User Provisioning Tool (UPT) installed, and you wish to manage user accounts for your calntegrator application, you **must** install UPT.

Overview of UPT

UPT is used to provision users in the calntegrator application. Each CBIIT application installs with its own Common Security Module (CSM) schema that has sample/default users and a role/permissions structure. To add additional users you must provision the calntegrator application in the UPT. Then you can assign users to calntegrator.

You can download UPT 4.2 through the following link:

https://gforge.nci.nih.gov/frs/download.php/7298/CSM UPT 42 Release.zip

For instructions on how to install UPT 4.2, refer to the chapter, UPT Installation and Deployment, in the following document:

https://gforge.nci.nih.gov/docman/view.php/12/18945/caCORE CSM v42 ProgrammersGuide.pdf

NOTE



UPT 4.2 is backwards compatible to previous versions of CSM. When you provision the application in UPT 4.2, you will be asked to specify the CSM version calntegrator is using. You should enter version **4.2**.

Installing calntegrator v.1.3 Application and Services

To newly install the calntegrator v.1.3 application and services, follow the steps in this section:

- <u>Downloading caIntegrator v.1.3 Files</u> on page 9
- Installing a New calntegrator v.1.3 on page 9
 - GUI Installer Method of Installation on page 10
 - o Command-Line Method of Installation on page 15
- Configuring JBoss on page 21
 - Configuring JBoss Servers and MySQL Server to Run as Services on page 21
- Post-Installation Tasks on page 23
 - o <u>Using UPT to Administer caIntegrator Users</u> on page 23

BEFORE YOU BEGIN



 Important: There must already be a pre-existing MySQL DB and connection username/password for calntegrator to install into; calntegrator does not create its own DB.

Downloading calntegrator v.1.3 Files

To download the calntegrator v.1.3 files, follow this step:

Step	Action
1	The various installation files for calntegrator v.1.3 are between 150-250MB in size. All of the files can be downloaded from the calntegrator distribution folder here: https://gforge.nci.nih.gov/frs/?group_id=507 .
	For a new command-line installer, download the caIntegrator_install_1_3.zip file (around 175MB).
	For a command-line upgrade installer, download the caIntegrator_upgrade_1_3.zip file (about 175 MB).
	For a GUI installer that you can use to do a fresh calntegrator installation, download the caIntegrator_gui_distribution_1_3.jar file (about 207 MB).
	Remember the download location, as you will be using this file to run the installation in the steps that follow.

Server Components in calntegrator v.1.3

These server components are installed and configured as part of the calntegrator v.1.3 installation. You do not need to do anything further to download or install these components.

• JBoss 4.0.5 (hosts the calntegrator application)

Installing a New calntegrator v.1.3

You can perform a new installation of calntegrator v.1.3 using either of these two methods:

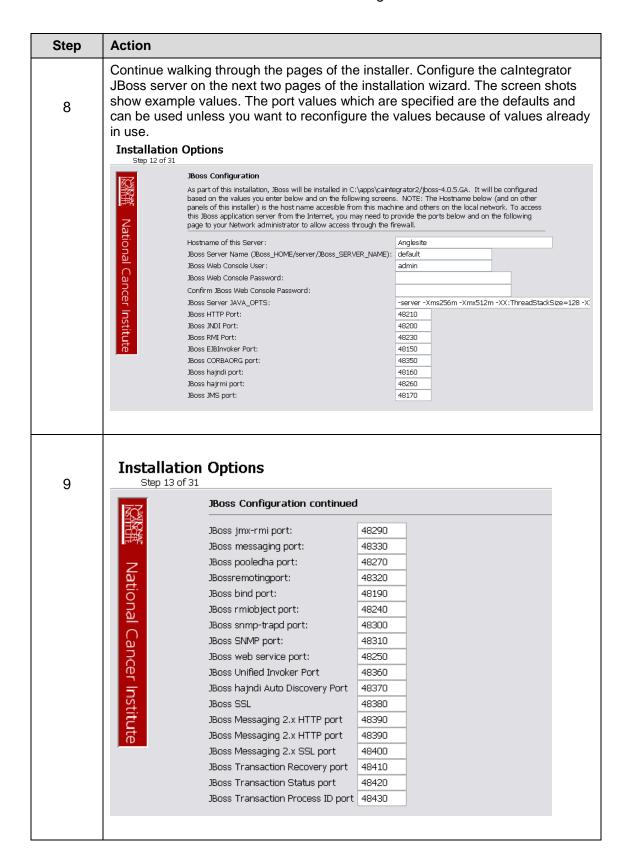
- A GUI Installation wizard. Instructions for this method start in the following section.
- A command-line installation. For instructions, see page 15.

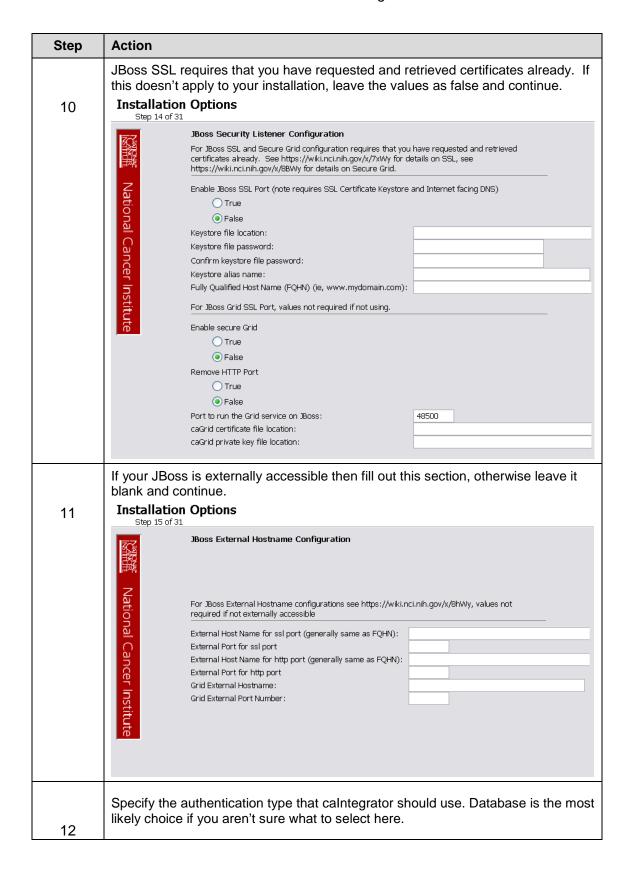
GUI Installer Method of Installation

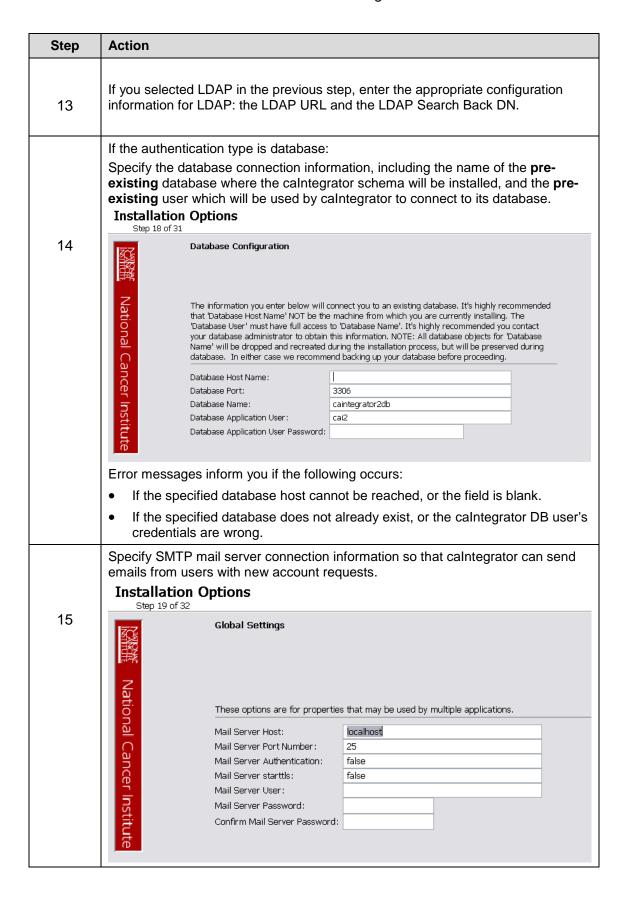
For detailed information on all of the GUI installer fields, refer to the documentation at this location: https://wiki.nci.nih.gov/x/NAUuAQ.

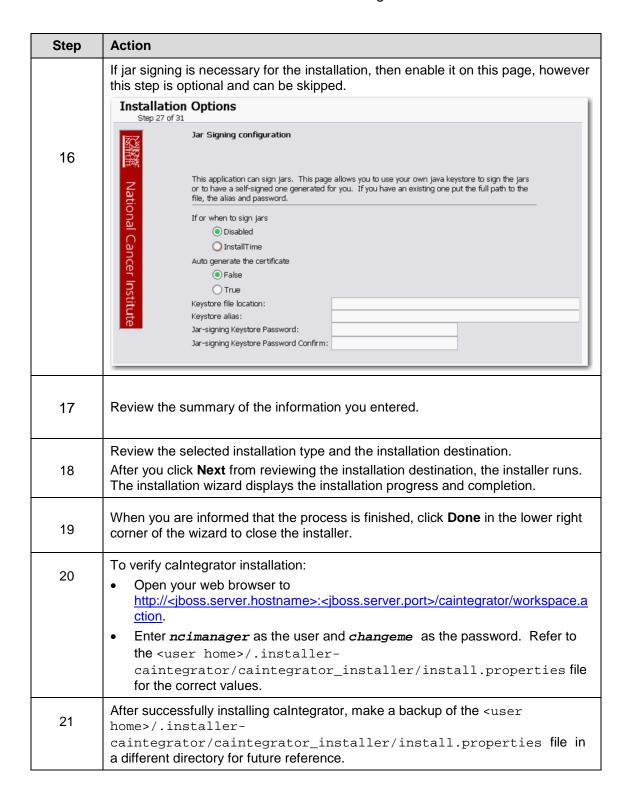
For performing an installation using the GUI Installer, follow these steps:

Step	Action
1	Open a command prompt in the directory where you downloaded the caIntegrator_gui_distribution_1_3.jar. Enter this command to Invoke the GUI installer: java -jar caIntegrator_gui_distribution_1_3.jar.
2	The Installation Wizard opens to facilitate the installation process. Click Next to proceed through the pages of the wizard, beginning with progressing past the Welcome page.
3	Review the release notes.
4	You must accept the license agreement.
5	Select Install installation type. For a new installation, select Install .
6	Select Browse to navigate to the directory where you would like to install calntegrator. The directory then displays in the text box. If the folder does not yet exist, click OK in the dialog box to indicate that you want the folder to be created.
7	Select the type of installation you would like to do, you can install everything, or just specific components (JBoss or Database only). The remaining sections in this guide will assume you chose to install everything.









Command-Line Method of Installation

Overview of calntegrator Command-Line Installer Properties Files

When you do a command-line installation of calntegrator for the first time, you will work with the properties file included in the

caIntegrator_distribution_1_3.zip. The file is:

install.properties.

If you are command-line upgrading from a previous version of calntegrator, you will work with the upgrade.properties file included in the caIntegrator_upgrade_1_3.zip.

calntegrator Port Usage





Verify that default port values defined in install.properties files are not in use on your system by running netstat —a from the command line. If the ports are in use prior to installation, you will likely experience problems with your installation.

JBoss Errors During Installation

NOTE



You may receive an error such as Exception in thread "main" java.lang.NoClassDefFoundError: org/jboss/Shutdown. This should not be a problem, as the installer attempts to stop previously installed servers to prevent problems during the installation. If this is your first time installing calntegrator, you may receive and disregard this error message.

Command-line Installation Steps

To install a new instance of calntegrator using the command-line, follow these steps:

Step	Action
1	From the directory where you downloaded the caIntegrator_distribution_1_3.zip from Downloading caIntegrator v.1.3 files on page 9, unzip the files, using one of these two methods: a. Open a command prompt and use it to extract this file to a temporary location. For example, you may enter a command such as unzip -q caIntegrator_distribution_1_3.zip (you must have a ZIP tool installed). This location will be referred to as the <installer_directory> henceforth. b. Use WinZip or a similar utility to unzip the files to a temporary location. This location will be referred to as the <installer_directory> henceforth. Example: <installer_directory> = C:\calcaller_director_installer</installer_directory></installer_directory></installer_directory>
2	Note: Setting the property values is an important step in the installation process. Before you complete steps 2 & 3, review Working with Properties Files_on page_7. Open the <installer_directory>/install.properties file, modify the values for your environment and save the file. For the latest details about configuring the properties for your environment, refer to this wiki page: https://wiki.nci.nih.gov/x/NAUuAQ.</installer_directory>
3	Record the property values you have set. Note: You should not need to modify the other default values as we have chosen unique ports to reduce the risk of other applications using the same values. However, be sure to verify that the ports in this file are not being used by other applications.
4	From the command line, navigate to <installer_directory>/(Example:cd C:\calntegrator_2_0_installer), and type ant. This initiates the installation process. The anticipated duration is anywhere from 1-15 minutes, depending on your system's speed, power and memory. The installer installs the calntegrator schema in the specified pre-existing database on your MySQL server, and installs, configures, and starts the JBoss server for the calntegrator application.</installer_directory>
5	To verify calntegrator installation, open your web browser to <a href="http://<jboss.server.hostname>:<jboss.server.port>/caintegrator/workspace.action">http://<jboss.server.hostname>:<jboss.server.port>/caintegrator/workspace.action</jboss.server.port></jboss.server.hostname> . Refer to the <installer_directory>/install.properties file for the correct values. Enter manager as the user and manager as the password.</installer_directory>
6	After successfully installing calntegrator, make a backup of the <pre><installer_directory>/install.properties file in a different directory for future reference.</installer_directory></pre>

Upgrading calntegrator 1.1.x to 1.3

This section describes how to upgrade your product from calntegrator 1.1 to calntegrator 1.3. The instructions in this section apply only if you have already installed a calntegrator version 1.1

You can perform an upgrade installation of calntegrator v.1.3 using either of these two methods:

- A GUI Installation wizard. Instructions for this method begin on page 18.
- A command-line installation. For instructions, see page 19.

Before You Begin



- **Important:** Backup the 1.1 database. You need to create a reliable copy of your entire calntegrator database.
- **Important:** Backup the current installation of calntegrator and artifacts from the original installation, such as properties files.

If you are performing a new installation, go directly to the installation of version 1.3, Installing calntegrator v.1.3 Application and Serviceson page 8.



calntegrator
1.1 Users
Upgrading to
calntegrator
1.3

The directions in this section presume that you have a valid and functioning calntegrator 1.1 or 1.2. It also assumes that Java SDK, Apache Ant and MySQL have all been successfully uploaded and installed, as described on pages 2 in this document.

Overview of Properties Files

When you installed the previous version of calntegrator 1.1, you configured the install.properties file. To complete the upgrade to calntegrator 1.3, you must use some of the values from the original install.properties to configure values in the upgrade installer wizard GUI, or the upgrade.properties file if you are doing a command-line method of upgrade.

See steps 3 & 4 in "Upgrade Using Command Line Installer" on Page 22 for more information.

Upgrade Using the GUI Installer

For detailed information on all of the GUI installer fields, refer to the documentation at this location: https://wiki.nci.nih.gov/x/NAUuAQ.

To perform an upgrade to calntegrator 1.3 using the GUI Installation Wizard, follow these steps:

Step	Action
1	Because of the application name change in v.1.3, in the JBOSS home directory, locate the war file containing the previous release of calntegrator2 and delete it. For example, find this file: JBOSS_HOME/server/deploy/caintegrator2.war and delete the file named caintegrator2.war.
	NOTE: In this same directory, there is a different file named caintegrator.war (without the number 2 in the name) which you should not delete.
2	Open a command prompt in the directory where you downloaded the caIntegrator_gui_distribution_1_3.jar and invoke the GUI installer using this: java -jar caIntegrator_gui_distribution_1_3.jar.
3	The Installation Wizard opens to facilitate the installation process. Click Next to proceed through the pages of the wizard, beginning with progressing past the Welcome page.
4	Review the release notes.
5	You must accept the license agreement to continue.
6	Select the Upgrade installation type.
7	Configure the JBoss Server-related upgrade settings. If the path pointing to the caIntegrator installation to be upgraded is incorrect, an error message appears.
8	Specify the authentication type that calntegrator is using. If you choose LDAP, configure the LDAP information: the LDAP Host Name, the LDAP Search Base, and the LDAP Search Prefix. An example of the Host Name is Idaps://myldaphost.mydomain.com:636.
9	Review the summary of gathered information.
10	Click Next to proceed through the next two pages. Review the selected upgrade installation type and the upgrade destination.

Step	Action
11	After you click Next from reviewing the installation destination, the installer runs. The installation wizard displays the installation progress and completion. When you are informed that the process is finished, click Done in the lower right corner to close the installation wizard.
12	To verify calntegrator installation, open your web browser to http:// <jboss.server.hostname>:<jboss.server.port>/caintegra tor/workspace.action (example: http://hostname:47210/caintegrator/workspace.action) and enter <i>ncimanager</i> as the user and <i>changeme</i> as the password. Refer to the original install.properties for the correct jboss.server.hostname and jboss.server.port values.</jboss.server.port></jboss.server.hostname>
13	Restart your JBoss 4.0.5 server for the changes to take effect. The method of doing this may depend on the start/stop/restart scripts you created after the installation. Most commonly, you can execute shutdown.bat and then run.bat under \$JBOSS_HOME/bin. Refer to the publicly available JBoss user's guide at www.jboss.org for more information.

Upgrade Using Command-Line Installer

To perform an upgrade to calntegrator 1.3 using the command-line, follow these steps:

Step	Action
1	Because of the application name change in v.1.3, in the JBOSS home directory, locate the war file containing the previous release of calntegrator2 and delete it. For example, find this file: JBOSS_HOME/server/deploy/caintegrator2.war and delete the file named caintegrator2.war. NOTE: In this same directory, there is a different file named caintegrator.war (without the number 2 in the name) which you should not delete.
2	From the directory where you downloaded the upgrade zip file, extract the files, using one of these two methods: a. Open a command prompt and use it to extract this file to a temporary location. For example, you may enter a command such as unzip -q
	caIntegrator_upgrade_1_3.zip. (You must have a ZIP tool installed).
	Note: It is recommended that you use a new directory for the unzipped files, rather than the one you used to unzip the installer for the previous version(s) of caIntegrator. This location will be referred to as the <upgrade_installer_directory> henceforth.</upgrade_installer_directory>
	b. Use WinZip or a similar utility to unzip the files to a temporary location. This location will be referred to as the <upgrade_installer directory=""> henceforth</upgrade_installer>
	<pre>Example: <upgrade_installer directory=""> = C:\caintegrator2_1_2_upgrade_installer</upgrade_installer></pre>

Step	Action
3	Edit the default properties in the <upgrade_installer_directory>/upgrade.properties file. Before doing so, review the Working with Properties Working with Properties Files section on page 7. To do so, open both properties files, the one you configured originally when you installed the previous version of calntegrator. (<install file="" properties="">) and the <upgrade_installer_directory>/upgrade.properties file. For the latest details about configuring the properties for your updated environment, refer to this wiki page: https://wiki.nci.nih.gov/x/MBKy</upgrade_installer_directory></install></upgrade_installer_directory>
	Note: The upgrade.properties file does not have as many attributes, so you will not need to transfer all values you set in the previous installation file.
4	Record these property values. Note: You shouldn't need to modify the other default values as we have chosen unique ports to reduce the risk of other applications using the same values. However, be sure to check the *.properties to verify that the ports in this file are not being used by other applications.
5	From the command line, navigate to <upgrade_installer_directory>/ (Example:cd C:\caIntegrator_upgrade_installer), and type ant. This initiates the upgrade process. The anticipated duration is anywhere 1-15 minutes depending on your system's speed, power and memory. The installer upgrades your existing caIntegrator database on your MySQL server, and starts your existing JBoss server.</upgrade_installer_directory>
	Notes regarding upgrade: When the installer detects that a database exists, it warns you to back it up, which you were instructed to do earlier in this process. Press Y to proceed.
6	To verify calntegrator installation, open your web browser to http:// <jboss.server.hostname>:<jboss.server.port>/caintegra tor/workspace.action (example: http://hostname:47210/caintegrator/workspace.action) and enter ncimanager as the user and changeme as the password. Refer to the original install.properties for the correct jboss.server.hostname and jboss.server.port values.</jboss.server.port></jboss.server.hostname>
7	Restart your JBoss 4.0.5 server for the changes to take effect. The method of doing this may depend on the start/stop/restart scripts you created after the installation. Most commonly, you can execute shutdown.bat and then run.bat under \$JBOSS_HOME/bin. Refer to the publicly available JBoss user's guide at www.jboss.org for more information.

Configuring JBoss

NOTE



For optimal performance, you must modify your JBoss 4.0.5 configuration to increase the amount of available memory for the caIntegrator application. Directions for doing this in Windows are in the following step 1.

To configure JBoss in Windows, follow these steps.

Step	Action
1	Modify the following entry to the JBoss run.bat file which is located at <application_root_directory>/jboss-4.0.5.GA/bin/run.bat. Find the line that begins with "set JAVA_OPTS= -Dbda=bda - Dprogram.name=%PROGNAME% -server", modify the "-Xms256m -Xmx512m" to read "-Xms4096m -Xmx4096m". Note: If 4096m is higher than the physical memory on the machine, then performance could be severely impacted with performance degradation and errors. 4096m of physical memory is recommended.</application_root_directory>
	Warning : Be careful when copying and pasting from this document, whether PDF or MS Word. No spaces must come before and after the columns. A safe way to ensure that the text has no unwanted space and unwanted characters is to copy the text into a blank text editor such as NotePad first. Then you can correct the spacing and copy-paste back into the run.bat file.
2	Restart your JBoss 4.0.5 server for the changes to take effect. The method of doing this may depend on the start/stop/restart scripts you created after the installation. Most commonly, you can execute <code>shutdown.bat</code> and then <code>run.bat</code> under <code>\$JBOSS_HOME/bin</code> . Refer to the publicly available JBoss user's guide at www.jboss.org for more information.

Configuring JBoss Servers and MySQL Server to Run as Services

NOIF



MySQL and the JBoss server that make up calntegrator, and the JBoss server optionally installed for UPT, must run continually as services. The instructions in this section cover all of these scenarios. For a calntegrator deployment, there are at least three servers, and if UPT is installed, four servers:

- JBoss 4.0.4 for UPT (optional)
- JBoss 4.0.5 (for caIntegratorapplication)
- MySQL 5.0.45

Running JBoss as a Service

BEFORE RUNNING JBOSS



Before starting the calntegrator JBOSS server, change the default location for user data. User data consists of various files that are saved by calntegrator during the deployment and querying of studies. The default location for user data should be changed via the Djava.io.tmpdir jvm parameter in the jboss run.conf file.

Example jvm parameter: -

Djava.io.tmpdir=/local/content/caintegrator/jvmtmp





The default calntegrator installation runs JBoss as a command line process using the user currently logged on. Therefore, when you log out as this user, JBoss will no longer be available for calntegrator. For that reason, it is recommended that you configure your JBoss servers to run as a Linux or Windows service. The instructions are contained in this section.

To run JBoss as a service, follow these steps:

Step	Action
1	Linux
	See http://wiki.jboss.org/wiki/Wiki.jsp?page=StartJBossOnBootWithLinux .
	Windows
2	To run an existing JBoss command line installation as a service, follow the directions for creating a user-defined service at http://support.microsoft.com/kb/137890/EN-US/
	Note: You need to have access to the Windows Resource Kit.

Running MySQL as a Service

NOTE



It is assumed that your MySQL server was installed as a service. If it was not, follow these recommendations for installing this server as a service.

To run MySQL as a service, follow these steps:

Step	Action
	Linux
1	
	See http://www.redhat.com/docs/manuals/enterprise/RHEL-AS-2.1-
	Manual/cluster-manager/s1-service-mysql.html.
	Windows
2	
	When installing MySQL server on Windows, choose the option to run MySQL as a Windows service.

Post-Installation Tasks

Using UPT to Administer caIntegrator Users

To add and administer calntegrator users in the UPT, refer to Chapter 6 in the calntegrator version 1.3 User's Guide, located here:

https://gforge.nci.nih.gov/frs/download.php/8600/caIntegrator2UsersGuide.pdf

Appendix I: Default Users

The following users are provided by default by the calntegrator installer.

- ncimanager / changeme
- nciinvestigator / changeme
- cai2admin / changeme This is the UPT user who will have access to provision caIntegrator users.

Contacting Application Support

NCICB http://ncicb.nci.nih.gov/NCICB/support

Application Telephone: 301-451-4384 Support Toll free: 888-478-4423