5 - Installing calntegrator v.1.4 or 1.4.2 Application and Services

Directions are given on this page for installing v.1.4 or 1.4.x application and services. This page includes the following topics:

- Installing caIntegrator v.1.4 or 1.4.x Application and Services
 - Downloading caIntegrator v.1.4 Files
 - Downloading caIntegrator v.1.4.2 Files
 - Installing a New calntegrator v.1.4
 - GUI Installer Method of Installation for v.1.4
 - Command-Line Method of Installation
 - About Properties
 - Command-line Installation Steps
 - o Installing a New caIntegrator v.1.4.2
 - GUI Installer Method of Installation for v.1.4.2
 - Command-Line Method of Installation
 - About Properties
 - Command-line Installation Steps



calntegrator versions 1.4 and 1.4.x

All content on this page applies to both versions of calntegrator.

Installing calntegrator v.1.4 or 1.4.x Application and Services

To newly install the calntegrator v.1.4 or 1.4.x application and services, follow the steps in these sections:

- Downloading calntegrator v.1.4 Files
- Installing a New calntegrator v.1.4
 - GUI Installer Method of Installation
 - Command-Line Method of Installation
- Configuring JBoss
 - Configuring JBoss Servers and MySQL Server to Run as Services
- Post-Installation Tasks
 - Using UPT to Administer caIntegrator Users



BEFORE YOU BEGIN

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.1.4 Files

To download the calntegrator v.1.4 files, follow this step:

The various installation files for calntegrator v.1.4 are between 150-200MB in size. All of the files can be downloaded from the calntegrator GForge files archive.

- For a new command-line installer or command-line upgrade installer, download the caintegrator2-install-1.4.zip file (around 165MB).
- For a GUI installer that you can use to do a fresh calintegrator installation, download the caintegrator2_gui_distribution_1.4.jar-201207171753.jar file (about 190 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.1.4

These server components are installed and configured as part of the calntegrator v.1.4 or 1.4.x installation. You do not need to do anything further to download or install these components.

• JBoss 5.1.0 (hosts the calntegrator application)

Downloading calntegrator v.1.4.2 Files

To download the calntegrator v.1.4.2 files, follow this step:

Download the files from the calntegrator distribution folder.

- To install calntegrator using the command-line installer, download the caintegrator-install-1.4.2.zip file.
 - To upgrade caIntegrator using the command-line installer, download the caintegrator-upgrade-1.4.2.zip file. For more
 information about upgrading caIntegrator, see 6 Upgrading caIntegrator..
- To install calntegrator using the GUI installer, download the caintegrator_gui_distribution_1.4.2.jar file.



Remember the directory location where you downloaded the file, as you will be using this file to run the installation in the steps that follow.

Installing a New calntegrator v.1.4

You can perform a new installation of calntegrator v.1.4 using either of these two methods:

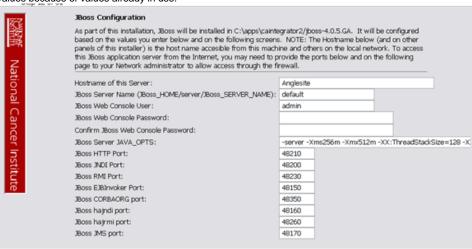
- · A GUI Installation wizard. Instructions for this method start in the following section.
- A command-line installation. For instructions, see Command-Line Method of Installation.

GUI Installer Method of Installation for v.1.4

For detailed information on all of the GUI installer fields, refer to the BDA Properties page.

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

- 1. Open a command prompt in the directory where you downloaded the .jar file. caintegrator2_gui_distribution_1.4.jar-201207171753.jar. Enter this command to invoke the GUI installer: java --jar caintegrator2_gui_distribution_1.4.jar-201207171753.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 the **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 perform. You can install everything, or just specific components (JBoss or Database only). The remaining sections in this guide assumes you chose to install everything.
- 8. Continue walking through the pages of the installer. Configure the calntegrator JBoss server on the next two pages of the installation wizard. The screen shots show example values. The port values which are specified are the defaults and can be used unless you want to reconfigure the values because of values already in use.



9. JBoss Installation Options

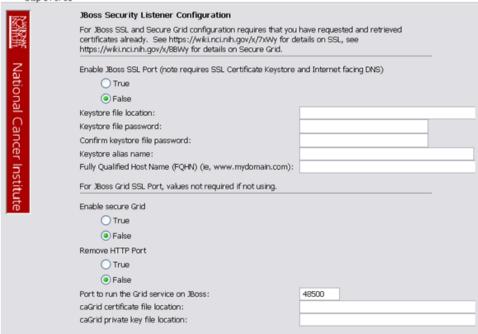


JBoss Configuration continued		
JBoss jmx-rmi port:	48290	
JBoss messaging port:	48330	
JBoss pooledha port:	48270	
JBossremotingport:	48320	
JBoss bind port:	48190	
JBoss rmiobject port:	48240	
JBoss snmp-trapd port:	48300	
JBoss SNMP port:	48310	
JBoss web service port:	48250	
JBoss Unified Invoker Port	48360	
JBoss hajndi Auto Discovery Port	48370	
JBoss SSL	48380	
JBoss Messaging 2.x HTTP port	48390	
JBoss Messaging 2.x HTTP port	48390	
JBoss Messaging 2.x SSL port	48400	
JBoss Transaction Recovery port	48410	
JBoss Transaction Status port	48420	
JBoss Transaction Process ID port	48430	

10. JBoss SSL requires that you have requested and retrieved certificates already. If this does not apply to your installation, leave the values as false and continue.

Installation Options

Step 14 of 31



- 11. If your JBoss is externally accessible then fill out the JBoss External Hostname Configuration page. Otherwise, leave it blank and continue.
- 12. For a standard installation of calntegrator, do not use SSO.
- 13. Specify the authentication type that calntegrator should use. Database is the most likely choice if you aren't sure what to select here.
- 14. If you selected LDAP in the previous step (authentication type), enter the appropriate configuration information for LDAP: the LDAP URL and the LDAP Search Back DN.
- 15. If the authentication type is database, specify the following data base configuration information:
 - The Database Host Name
 - The Database Port Example: 3306
 - Database name of the **pre-existing** database where the calntegrator schema will be installed
 - The pre-existing Database Application User to be used by calntegrator to connect to its database.
 Error messages inform you if the following occurs:
 - o If the specified database host cannot be reached, or the field is blank.
 - $^{\circ}\,$ If the specified database does not already exist, or the calntegrator DB user's credentials are wrong.

- 16. Specify SMTP mail server connection information so that calntegrator can send emails from users with new account requests. You must provide the following
 - Mail Server Host Example: localhost
 - Mail Server Port Number Example: 25
 - Mail Server Authentication: default is false.
 - Mail Server starttls: default is false.
- 17. If jar signing is necessary for the installation, then enable it on the Jar Signing Configuration page. This step is optional and can be skipped.
- 18. Review the summary of the information you entered.
- 19. Review the selected installation type and the installation destination.
 - After you click **Next** from reviewing the installation destination, the installer runs. The installation wizard displays the installation progress and completion.
- 20. When you are informed that the process is finished, click **Done** in the lower right corner of the wizard to close the installer.
- 21. To verify calntegrator installation:
 - a. Open your web browser to installed instance. The URL follows this format: http://<jboss.server.hostname>:<jboss.server.port>/caintegrator/workspace.action.
 - b. Enter *ncimanager* as the user and *changeme* as the password. Refer to the <user home>/.installer-caintegrator/caintegrator_installer/install.properties file for the correct values.
- 22. After successfully installing calntegrator, make a backup of the <user home>/.installer-caintegrator/caintegrator_installer /install.properties file in a different directory for future reference.

Command-Line Method of Installation

About Properties

An important component of command-line installation is configuring properties.



Overview of command-line installer properties files

- When you do a command-line installation of calntegrator for the first time, you will work with install.properties file included in the caIntegrator_install_1_4.zip.
- If you are upgrading by command-line from a previous version of calntegrator, you will work with the install.properties file included in the caIntegrator_install_1_4.zip as well as the existing install.properties file.

See also Working with Properties Files .



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

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:

- 1. From the directory where you downloaded the caintegrator2-install-1.4.zip files described in Downloading calntegrator v.1.4 Files, 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 caintegrator2-install-1.4.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:\caIntegrator_installer



About setting property values

Setting the property values is an important step in the installation process. Before you complete steps 2 & 3, review Working with Properties Files .

- 2. 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 the BDA Properties wiki page.
- 3. Record the property values you have set.



Other default values

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:\caIntegrator_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 caIntegrator schema in the specified pre-existing database on your MySQL server, and installs, configures, and starts the JBoss server for the caIntegrator application.
- 5. To verify calntegrator installation, open your web browser to the installed instance. The URL follows this format: http://<jboss.server.hostname>: <jboss.server.port>/caintegrator/workspace.action.
 - Refer to the <installer_directory>/install.properties file for the correct values. Enter *manager* as the user and *manager* as the password.
- 6. After successfully installing calntegrator, make a backup of the <installer_directory>/install.properties file in a different directory for future reference.

Installing a New calntegrator v.1.4.2

You can perform a new installation of calntegrator v.1.4.2 using either of these two methods:

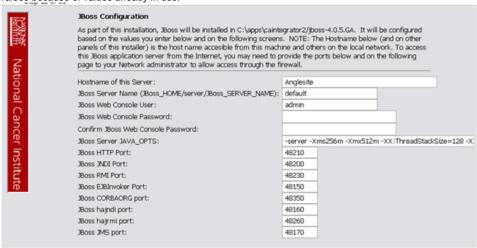
- A GUI Installation wizard. Instructions for this method start in the following section.
- A command-line installation. For instructions, see Command-Line Method of Installation.

GUI Installer Method of Installation for v.1.4.2

For detailed information on all of the GUI installer fields, refer to the BDA Properties page.

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

- 1. Open a command prompt in the directory where you downloaded the .jar file. caintegrator_gui_distribution_1.4.2.jar. Enter this command to invoke the GUI installer: java --jar caintegrator_gui_distribution_1.4.2.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 the 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 perform. You can install everything, or just specific components (JBoss or Database only). The remaining sections in this guide assumes you chose to install everything.
- 8. Continue walking through the pages of the installer. Configure the calniegrator JBoss server on the next two pages of the installation wizard. The screen shots show example values. The port values which are specified are the defaults and can be used unless you want to reconfigure the values because of values already in use.



9. JBoss Installation Options

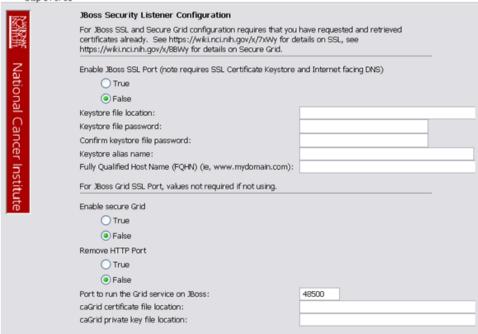


JBoss Configuration continued		
JBoss jmx-rmi port:	48290	
JBoss messaging port:	48330	
JBoss pooledha port:	48270	
JBossremotingport:	48320	
JBoss bind port:	48190	
JBoss rmiobject port:	48240	
JBoss snmp-trapd port:	48300	
JBoss SNMP port:	48310	
JBoss web service port:	48250	
JBoss Unified Invoker Port	48360	
JBoss hajndi Auto Discovery Port	48370	
JBoss SSL	48380	
JBoss Messaging 2.x HTTP port	48390	
JBoss Messaging 2.x HTTP port	48390	
JBoss Messaging 2.x SSL port	48400	
JBoss Transaction Recovery port	48410	
JBoss Transaction Status port	48420	
JBoss Transaction Process ID port	48430	

10. JBoss SSL requires that you have requested and retrieved certificates already. If this does not apply to your installation, leave the values as false and continue.

Installation Options

Step 14 of 31



- 11. If your JBoss is externally accessible then fill out the JBoss External Hostname Configuration page. Otherwise, leave it blank and continue.
- 12. For a standard installation of calntegrator, do not use SSO.
- 13. Specify the authentication type that calntegrator should use. Database is the most likely choice if you aren't sure what to select here.
- 14. If you selected LDAP in the previous step (authentication type), enter the appropriate configuration information for LDAP: the LDAP URL and the LDAP Search Back DN.
- 15. If the authentication type is database, specify the following data base configuration information:
 - The Database Host Name
 - The Database Port Example: 3306
 - Database name of the **pre-existing** database where the calntegrator schema will be installed
 - The pre-existing Database Application User to be used by calntegrator to connect to its database.
 Error messages inform you if the following occurs:
 - o If the specified database host cannot be reached, or the field is blank.
 - $^{\circ}\,$ If the specified database does not already exist, or the calntegrator DB user's credentials are wrong.

- 16. Specify SMTP mail server connection information so that calntegrator can send emails from users with new account requests. You must provide the following
 - Mail Server Host Example: localhost
 - Mail Server Port Number Example: 25
 - Mail Server Authentication: default is false.
 - Mail Server starttls: default is false.
- 17. If jar signing is necessary for the installation, then enable it on the Jar Signing Configuration page. This step is optional and can be skipped.
- 18. Review the summary of the information you entered.
- 19. Review the selected installation type and the installation destination.
 - After you click **Next** from reviewing the installation destination, the installer runs. The installation wizard displays the installation progress and completion.
- 20. When you are informed that the process is finished, click Done in the lower right corner of the wizard to close the installer.
- 21. To verify calntegrator installation:
 - a. Open your web browser to installed instance. The URL follows this format: http://<jboss.server.hostname>:<jboss.server.port>/caintegrator/workspace.action.
 - b. Enter *ncimanager* as the user and *changeme* as the password. Refer to the <user home>/.installer-caintegrator/caintegrator_installer/install.properties file for the correct values.
- 22. After successfully installing calntegrator, make a backup of the <user home>/.installer-caintegrator/caintegrator_installer /install.properties file in a different directory for future reference.

Command-Line Method of Installation

About Properties

An important component of command-line installation is configuring properties.



Overview of command-line installer properties files

- When you do a command-line installation of calntegrator for the first time, you will work with install.properties file included in the caintegrator-install-1.4.2.zip for
- If you are upgrading by command-line from a previous version of calntegrator, you will work with the upgrade.properties file included in the caintegrator-upgrade-1.4.2.zip as well as the existing upgrade.properties file.

See also Working with Properties Files .



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

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:

- 1. From the directory where you downloaded the caintegrator-install-1.4.2.zip files described in Downloading calntegrator v.1.4 Files, 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-install-1.4.2.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:\caIntegrator_installer



About setting property values

Setting the property values is an important step in the installation process. Before you complete steps 2 & 3, review Working with Properties Files .

- 2. 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 the BDA Properties wiki page.
- 3. Record the property values you have set.



Other default values

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:\caintegrator-install-1.4.2), 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.
- 5. To verify calntegrator installation, open your web browser to the installed instance. The URL follows this format: http://<jboss.server.hostname>: <jboss.server.port>/caintegrator/workspace.action.
 Refer to the <installer_directory>/install.properties file for the correct values. Enter manager as the user and manager as the
 - Refer to the <installer_directory>/install.properties file for the correct values. Enter **manager** as the user and **manager** as the password.
- **6.** After successfully installing calntegrator, make a backup of the <installer_directory>/install.properties file in a different directory for future reference.