#### CaAERS\_Installation\_Guide

caAERS can be installed three different ways:

- Part of the CCTS Suite
- Stand-alone Application
- Manual Installation

Troubleshooting information is the same across the different methods of installation and can be located in the Troubleshooting section of each respective document above.

After caAERS is installed, additional configuration must occur before you can start using it. Please see <u>Configuring caAERS</u> for additional information.

**IMPORTANT!** When two instances of caAERS are running on two separate tomcats in the same machine, please see the <u>checklist</u> of items that need to be taken care of.

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### **Preliminary Considerations**

# **BEFORE**

caAERS has been tested with the operating systems and hardware specified in the Minimal Requirement YOU BEGIN Installation guide. Although we have made an effort to develop caAERS as a platform-independent ap guarantee that it will work if you are using variations of these operating systems and/or hardware.

> Installing caAERS on a system already setup with the proper versions of the JDK, database, and Tomo minutes. Installation from scratch could take several hours. For installation on Windows, an account w privileges must be used.

Important: Before installing caAERS you will need to install JDK and Tomcat and then create your database. Please follow the steps outlined in the sections below.

# **Installing JDK**

Step	Action
1	Download Java Standard Edition 5.0 or higher from <a href="http://java.sun.com/javase/downloads/index.jsp">http://java.sun.com/javase/downloads/index.jsp</a> .
	Install Java. Make sure neither the directory where you install java or the parent directories contain a white space in between any characters in the name of the directory.
	Note: Throughout this guide the java installation directory will be referred as \${java.dir}.
3	Add the \${java.dir}\bin to your system PATH.
4	Set a new environment variable named <b>JAVA_HOME</b> , whose value equals <b>\${java.dir}</b> .

# **Installing Tomcat**

Step	Action
1	Download Apache Tomcat version 5.5.23 or higher from
	http://tomcat.apache.org/download-55.cgi. Add a new environment variable CATALINA_HOME, whose value must be set to \${tomcat.dir}
2	Install the Tomcat application in a convenient location.
	Note: Throughout this guide the Tomcat installation directory will be referred as \${tomcat.dir}.
3	Configure server.xml in the <b>\${tomcat.dir}</b> /conf to enable https connections on port
	8443 or 443.
4	Generate an SSL certificate using the instructions at <a href="http://tomcat.apache.org/tomcat-5.5-doc/ssl-howto.html">http://tomcat.apache.org/tomcat-5.5-doc/ssl-howto.html</a> . Save the generated
	certificate in your c:\ directory.

# **Installing the Database**

**Note:** caAERS supports two databases, Oracle and PostgreSQL. To successfully deploy caAERS, you need to have one of these databases installed on your system. The instructions for installing an Oracle or Postgres database product are beyond the scope of this document. Refer to the installation documents that accompany these databases for step-by-step instructions.

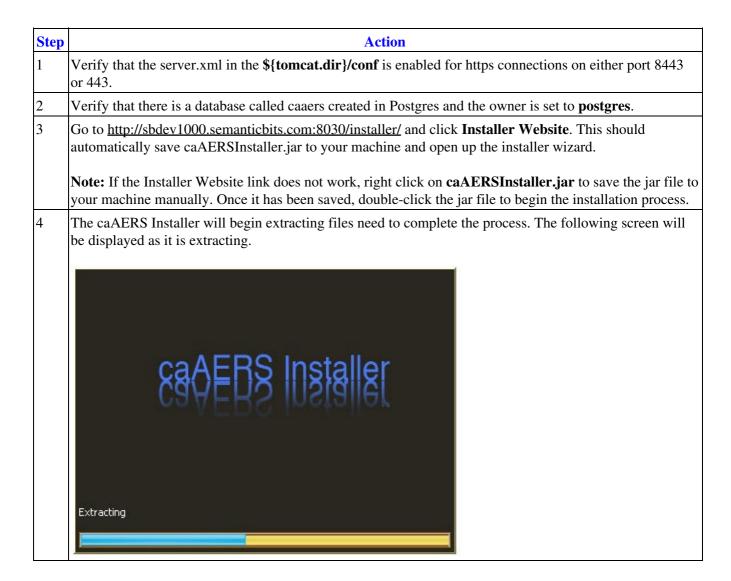
In your database management system, create a new database named caaers. To do so, follow the steps outlined here.

Installing the Database 2

### Installing caAERS

Step	Action
1	Install the preferred database product (PostgreSQL 8.1.9 or Oracle 10g)
	Create an empty database for caAERS to use. You may give your database any valid name, but this guide will use "caaers" as the name in each example

SUGGESTION: To best understand the installation procedures for the caAERS, it is recommended that you follow the proce-dures described in this section with minimal deviation.

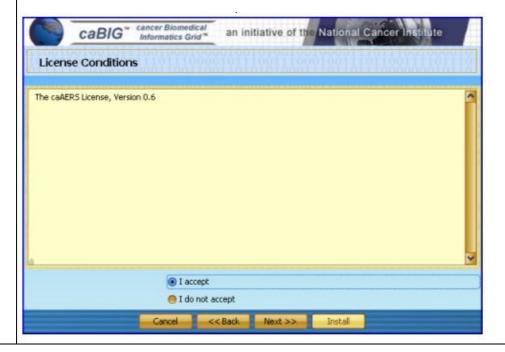


5 Once the installer has finished extracting, this page will be displayed:



Click the **Next** >> button to move forward in the process. The << **Back** and **Install** buttons will be grayed out.

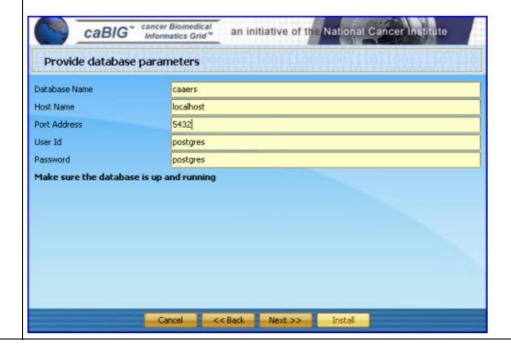
6 Select the radio button next to "I Accept." And then click **Next >>**.



7 Select the database to be used with caAERS and then **click Next >>**.



To install caAERS successfully, you need to have the database's parameters, including name, host name, port address, and a valid user id and password. Enter the appropriate information in all of the fields and then click **Next** >>.



Enter {a folder location} for the Rules Repository for caAERS to use. Either type in the location, or browse to it clicking **Select Folder** and navigating to it. After entering the folder, click **Next >>**.(If the folder does not exist, the installer will prompt the user & create one)

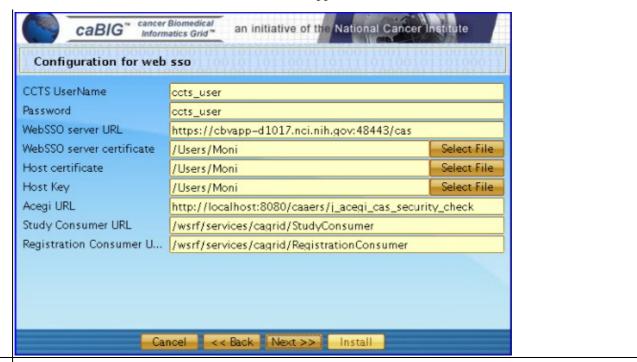


- Select the authentication mode and then make any necessary changes. Additional information on what should be entered is included below:
  - WebSSO server URL: Modified to define the server name/port that is hosting WebSSO
  - *The WebSSO server certificate:* This is the path/filename of the certificate that was created for WebSSO during the installation of the WebSSO software.

**Note:** It may be necessary to make a local copy of this certificate on the caAERS server if file permissions prohibit reading this file directly from where it resides within the WebSSO server.

- The Host Certificate and Host Key: Enter the certificate and key files (normally ending in a .pem filename extension) created for caAERS using the GAARDS UI program on the Dorian Server\_. (Refer to the CCTS 1.0 Installation Guide for information on generating certificate and key files for each CCTS application component)\_
- Acegi URL:\_Update the server/port assignment to define the server name/port where caAERS will be running. The remainder of the path details, /caAERS/j\_acegi\_cas\_security\_check, should not be modified.
- *Study Consumer URL:* If using a standard configuration, this default path should be correct. You can update it directly in the config file at a later point if changes are required.
- Registration Consumer URL: If using a standard configuration, this default path should be correct. You can update it directly in the config file at a later point if changes are required.

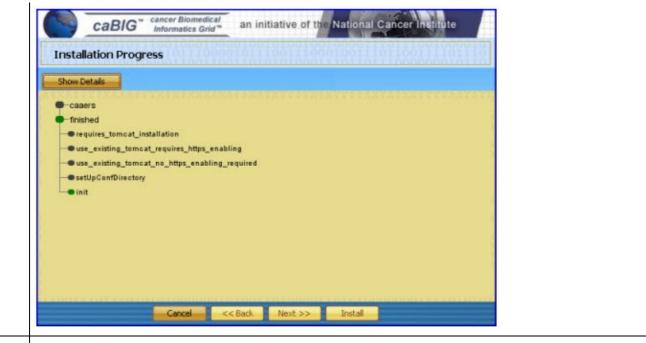
#### Stand-alone\_Application



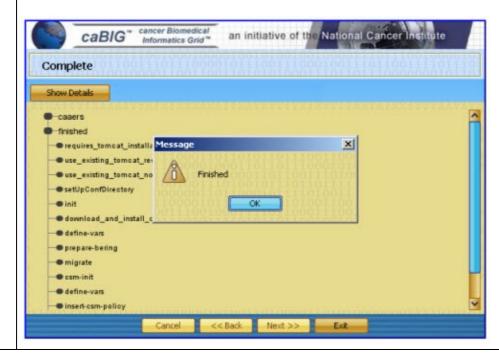
11 Verify the components that are to be installed, and then click **Next >>**.



Click **Install** to start the installation process. This will initiate the installation and display the installation's status. The status screen will be displayed as shown for some time while the install continues. It is not complete until you receive the **Finished** pop-up window as shown in step 13. Be patient and do not hit the **Cancel** button.



When the process has completed, click **OK** and then click **Exit**.



### Installing caAERS Services and ESB

Regardless of the type of installation (stand-alone, part of CCTS, or manual), complete the following steps before testing and running caAERS.

#### Install the Globus Toolkit

To use any of the grid service, the globus toolkit must be available on tomcat. The following instructions pertain to installation of globus on tomcat.

**Note:** If you've installed caAERS as part of CCTS, globus will already be installed, so move directly to Setting up the Secure Data Grid Service.

Step	Action
1	Download the following toolkit: http://www-unix.globus.org/toolkit/survey/index.php?download=ws-core-4.0.3-bin.zip
2	Unzip the compressed folder in to an appropriate directory
3	Open the command prompt and navigate to the unzipped directory (it should be ws-core-4.0.3)
4	On the command line type
	ant -f share\globus_wsrf_common\tomcat\tomcat.xml deployTomcat -Dtomcat.dir = tomcat_home where tomcat home would be the directory where tomcat is installed
5	If the build is successful, navigate to the webapps folder of tomcat and make sure the <b>wsrf</b> folder has been created

#### Install the caAERS Data Grid Service

Step	Action
1	Assumptions:
	A) It is assumed that the target machine has JDK 5.0 or higher installed on it. B) The environment variable CATALINA_HOME is pointing to the targeted tomcat in the machine. C) The environment variable GLOBUS_LOCATION is set and pointing to globus installation location. Download the zip file (CaaersDataService.zip) from the following location <<< <url>&gt;&gt;&gt; and unzip to any location, which creates a folder named "CaaersDataService"</url>
2	Edit CaaersDataService/service.properties file to replace the following properties with appropriate values.
	cqlQueryProcessorConfig_gridGrouperUrl= <url grid="" grouper="" to=""> cqlQueryProcessorConfig_gridGrouperGroup= <group name=""></group></url>
3	Edit CaaersDataService/etc/serviceMetadata.xml file to enter the research center information as shown below
	<ns1:hostingresearchcenter></ns1:hostingresearchcenter>

Install the Globus Toolkit

#### Stand-alone\_Application

```
<ns9:ResearchCenter displayName="" shortName=""
     xmlns:ns9="gme://caGrid.caBIG/1.0/gov.nih.nci.cagrid.metadata.common">
     <ns9:Address country="" locality="" postalCode="" stateProvince="" street1="" street2=""/>
     <ns9:pointOfContactCollection>
     <ns9:PointOfContact affiliation="" email="" firstName="" lastName="" phoneNumber="" role=""/>
     </ns9:pointOfContactCollection>
     </ns9:ResearchCenter>
     </ns1:hostingResearchCenter>
     Open the command prompt and navigate to CaaersDataService folder and type "ant all"Once the above
     step is completed, execute "ant deployTomcat" If you don't see any error message/s then it indicates that
     service has been successfully deployed in targeted tomcat.
     If you have already configured datasource properties in $CATALINA_HOME/conf/caaers leave it like that
     . If not then
           • download datasource.properties from
             https://gforge.nci.nih.gov/plugins/scmsvn/viewcvs.php/deliverables/Phase%202/1.1.2/?root=caaersappd
           • edit with right values
           • and copy it to $CATALINA_HOME/conf/caaers. Start tomcat
6
     To check if the caAERS data service is up and running, type the following URL in the web
     browserhttps://<<HOST NAME>>:8443/wsrf/services/cagrid/Caaers?wsdl
     This should show the wsdl for the caAERS data service (it is just an xml) in the web browser.
```

### Preparation for using grid client

The grid client is used to access the caAERS Data Service. This requires that the grid service is correctly configured. See Figure 2 below for an overview of a grid service configuration.

### Configuration

The following requirements are assumed to be true in order for configuration to be performed:

- 1. The grid security infrastructure is in place [Dorian, syncGTS, IDP].
- 2. For an existing infrastructure, the following information needs to be known\extracted:

- The URL for Dorian
- The root certificate [CA] of Dorian

Step	Action
1	Copy the root certificate of Dorian on the client machine under the following directory: \$user_home/.globus/certificates. Make sure the extension of the certificate is ".0" ("dot zero").
2	Copy the root certificate into the userhome where the caaers data grid service is running.
	<b>Note:</b> It is important that the certificate should be applied in the userhome of the user account under which tomcat is running.
3	Modify the following properties in run-tools.xml. The screenshot shows a sample of the file with the changes made.
	• service.url: The URL where the service is located
	Example: <a href="https://localhost:8443/wsrf-ds/services/cagrid/Caaers">https://localhost:8443/wsrf-ds/services/cagrid/Caaers</a>
	• dorian.url: The URL where Dorian is located
	Example: <a href="https://localhost:8443/wsrf-ds/services/cagrid/Caaers">https://localhost:8443/wsrf-ds/services/cagrid/Caaers</a>
	• uid and pwd: The user id and password for an existing user account in Dorian IDP
	<pre><pre><pre><pre><pre><pre><pre><pre></pre></pre></pre></pre></pre></pre></pre></pre>
	<target depends="checkGlobus, defineClasspaths" description="Run the sample Client" name="runClient"></target>
	<pre><pre><pre><pre><pre><pre><pre><pre></pre></pre></pre></pre></pre></pre></pre></pre>
	<pre><pre><pre><pre>cproperty name="dorian.url" value="dorian url" /&gt;</pre></pre></pre></pre>
	<pre><pre><pre><pre>property name="uid" value="userid" /&gt;</pre></pre></pre></pre>
	<pre><pre><pre><pre>property name="pwd" value="password" /&gt;</pre></pre></pre></pre>
	<pre><echo message="Connecting to service: \${service.url}"></echo></pre>
	<pre><java classname="gov.nih.nci.cagrid.caaers.client.ClientTest" classpathref="run.classpath" fork="no"></java></pre>
	<pre><jvmarg value="-DGLOBUS_LOCATION=\${ext.globus.dir}"></jvmarg></pre>
	<arg value="\${service.url}"></arg>
	<arg value="\${dorian.url}"></arg>
	<arg value="\${uid}"></arg>

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#### Stand-alone\_Application

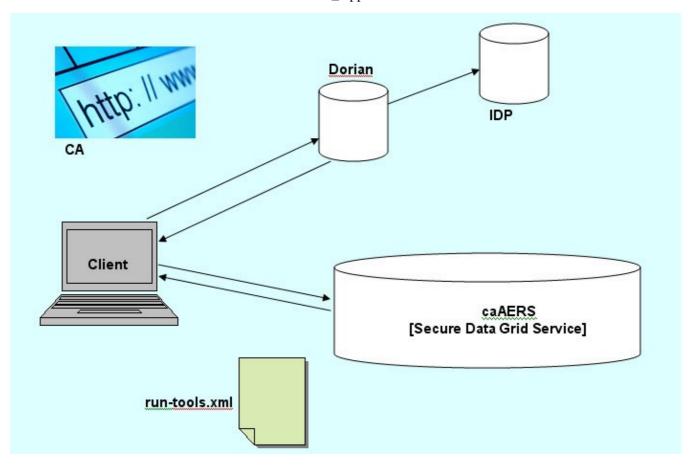
<arg value="\${pwd}"></arg>

# **Running the grid client**

After suitable setup of the run-tools.xml, the caAERS data service can be accessed. Use the following steps to access the grid client:

Step	Action
1	From the command prompt, navigate to the folder where caAERSDataService.zip was unzipped
2	Type:
	ant runClient  The client should run and be able to successfully connect to the caAERS data service

Running the grid client 12



### Install the caAERS Adverse Event Consumer Grid Service

Step	Action
1	Locate AdverseEventConsumerService.zip in the caaers-1-0 folder.
2	Unzip AdverseEventConsumerService.zip to a local drive. This will create a folder named "AdverseEventConsumerService"
3	If you have Maven and Ant available in your machine, type
	mvn install -Dmaven.test.skip=true
	If you only have ant available in your machine, type ant deployTomcat
	Note: Make sure CATALINA_HOME is pointing to the appropriate tomcat
4	If the deployment was successful, start tomcat
5	To check if the caAERS Adverse Event Consumer service is up and running, access <a href="https://chost">https://chost</a> name>:8443/wsrf/ services/cagridAdverseEventConsumer?wsdl. This should show the wsdl (it is just an xml) in the browser.

# Install the caAERS Registration Consumer Grid Service Implementation

**Note:** The Registration Consumer Grid Service globus skeleton webservice must be available in \$CATALINA\_HOME/webapps/\$wsrf.

Step	Action
1	Go to the <b>caaers-1-0</b> folder. Locate the <b>required-jars</b> subfolder. Open this folder and select all the files.
	Move or copy the files to \$CATALINA_HOME/webapps/\$wsrf/WEB-INF/lib
	Note: Override existing files
	Enable auditing by editing the \$CATALINA_HOME/webapps/caaers-wsrf/WEB-INF/etc/cagrid_RegistrationConsumer/server-config.w to include the highlight lines, as shown in Figure 3 below
	no include the nightight lines, as shown in Figure 5 below

```
<?xml version="1.0" encoding="UTF-8"?>
<deployment xmlns="http://xml.apache.org/axis/wsdd/"</pre>
xmlns:aggr="http://mds.globus.org/aggregator/types"
   xmlns:java="http://xml.apache.org/axis/wsdd/providers/java"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
   name="defaultServerConfig">
   <handler name="auditInfoRequestHandler"</pre>
      type="java:gov.nih.nci.cabig.caaers.grid.AuditInfoRequestHandler"/>
   <handler name="auditInfoResponseHandler"</pre>
       type="java:gov.nih.nci.cabig.caaers.grid.AuditInfoResponseHandler"/>
   <service name="cagrid/RegistrationConsumer" provider="Handler" use="literal"</pre>
style="document">
       <parameter ...../>
       <parameter ...../>
       <parameter ...../>
       <parameter ...../>
        <requestFlow>
           <handler type="auditInfoRequestHandler"/>
       </requestFlow>
       <responseFlow>
           <handler type="auditInfoResponseHandler"/>
       </responseFlow>
       </service>
   <!--ccts addition-->
```

# Install the caAERS Study Consumer Grid Service Implementation

**Note:** The Study Consumer Grid Service globus skeleton webservice must be available in \$CATALINA\_HOME/webapps/\$wsrf.

Step	Action
1	Go to the <b>caaers-1-0</b> folder. Locate the <b>required-jars</b> subfolder. Open this folder and select all the files.
	<b>Note:</b> If you just completed this step above as part of installing the caAERS Registration Consumer Grid Service you can skip directly to step 3 below.
2	Move or copy the files to \$CATALINA_HOME/webapps/\$wsrf/WEB-INF/lib
	Note: Override existing files
	Enable auditing by editing the \$CATALINA_HOME/webapps/caaers-wsrf/WEB-INF/etc/cagrid_RegistrationConsumer/server-config.w to include the highlight lines, as shown in Figure 4 below

```
<?xml version="1.0" encoding="UTF-8"?>
<deployment xmlns="http://xml.apache.org/axis/wsdd/"</pre>
xmlns:aggr="http://mds.globus.org/aggregator/types"
xmlns:java="http://xml.apache.org/axis/wsdd/providers/java"
xmlns:xsd="http://www.w3.org/2001/XMLSchema" name="defaultServerConfig">
  <handler name="auditInfoRequestHandler"</p>
      type="java:gov.nih.nci.cabig.caaers.grid.AuditInfoRequestHandler"/>
   <handler name="auditInfoResponseHandler"</pre>
      type="java:gov.nih.nci.cabig.caaers.grid.AuditInfoResponseHandler"/>
   <service name="cagrid/StudyConsumer" provider="Handler" use="literal"</pre>
style="document">
      <parameter ...../>
       <parameter ...../>
       <parameter ...../>
       <parameter ...../>
       ......
      <requestFlow>
           <handler type="auditInfoRequestHandler"/>
       </requestFlow>
       <responseFlow>
           <handler type="auditInfoResponseHandler"/>
       </responseFlow>
   </service>
      <!--ccts addition-->
</deployment>
```

### Install ESB for caAERS-AdEERS Integration

Note: Only complete this section if there will be caAERS-AdEERS integration. If not, continue to Test.

### Step-A) Installing ServiceMix ESB

 $IMPORTANT!\ This is a one time installation.\ If service mix is already installed\ , skip\ this\ step\ and\ go\ to\ Step-B$ 

Step	Action
1	Download the following file from
	https://gforge.nci.nih.gov/plugins/scmcvs/cvsweb.php/ccts/releases/1.0rc2/caaers-1-0/?cvsroot=ccts
	1. apache-servicemix-3.1.2-windows-service.zip
2	
2	Uzip apache-servicemix-3.1.2-windows-service.zip file onto the server.
	Example: c:/apache-servicemix-3.1.2
3	Create the environment variable SERVICEMIX_HOME and point it to the directory you used in step 2
4	WINDOWS BASED SERVERS ONLY.
	• modify %SERVICEMIX_HOME%/conf/wrapper.conf file.
	♦ Open wrapper.conf file and edit line number 6. Replace with the location of your java command: wrapper.java.command=C:/jdk1.5.0_10/bin/java
	• Install ServiceMix as Windows Service
	<ul> <li>◆Execute %SERVICEMIX_HOME%/Install-ServiceMix-As-Service.bat</li> <li>◆Please check windows services for newly installed service "Servicemix Service Bus".</li> <li>◆Check the properties of this service and make it to start "Auto", so that service will be started with server.</li> </ul>
	◆ We need to know the User who own this windows service. If needed to you can make changes to "Log On" tab in service properties.
	◆Test the the service by starting and stopping it.
	NIX based SERVERS ONLY
	<ul> <li>Service can be started using unix executable %SERVICEMIX_HOME%/bin/servicemix.</li> <li>Try starting and stopping the service (Run service in back ground)</li> </ul>

### Step-B) Deploying caAERS-AdEERS service assembly to ESB.

Step	Action
1	Download the following files from
	https://gforge.nci.nih.gov/plugins/scmsvn/viewcvs.php/deliverables/Phase%202/1.1.3/?root=caaersappdev

#### Stand-alone\_Application

	1. caaers-adeers-sa-3.1.2-incubating.zip	
	2. caAERs-AdEERS	
2	Copy caaers-adeers-sa-3.1.2-incubating.zip	
	to	
	SERVICEMIX_HOME/deploy and	
	SERVICEMIX_HOME/bin/deploy	
	Copy caAERs-AdEERS to User home (**User who owns the ServiceMix service/process)	
3	nix based Servers: Start service mix ESB from \$SERVICEMIX_HOME/bin/servicemix.sh	
4	Windows based servers start "Servicemix Service Bus" windows service.	

#### **Test**

Step	Action	
1	Go to <a href="https://localhost:8443/caaers/">https://localhost:8443/caaers/</a> . This should bring up the log in page.	
	Note: Replace <i>localhost</i> with the server name where caAERS has been installed	
2	Login with the following information	
	<ul><li>Username = SYSTEM_ADMIN</li><li>Password = system_admin</li></ul>	

If the steps above do not work, there may be some additional configuring you need to complete before caAERS can be accessed. See Troubleshooting for more information.

**NOTE:** Refer to the caAERS Administration Guide or the caAERS QuickStart Guide to set up the required information to use the application.

# **Troubleshooting**

These troubleshooting steps may resolve your issues. If they do not please Contact Technical Support.

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### caAERS doesn't work after the installation is complete

#### **Problem with rules.repository= file**

It's possible the installation was complete but the datasource.properties file in \${tomcat.dir}/conf/caaers is not configured correctly. The rules.repository= file may need to be modified to work correctly in a Windows environment. It must be modified to only contain 1 include and 2 backslashes instead of forward slashes if it is a Windows operating system.

Step	Action		
1	Go to /usr/local/\${tomcat.dir}/conf/caAERS		
2	Ensure the rules.repository line is updated to only include one / at the beginning of the file=path location:		
	Example: rules.repository=file:/local/home/tomcat-app/caAers/rules		
3	Go to <a href="https://localhost:8443/caaers/">https://localhost:8443/caaers/</a> . This should bring up the log in page.		
	Note: Replace <i>localhost</i> with the server name where caAERS has been installed		
4	Login with the following information		
	• Username = SYSTEM_ADMIN		
	<ul><li>Password = system_admin</li></ul>		

# The secure tomcat container is missing files

The procedure to build the secure tomcat container may not have copied the two .jar files into the lib folder. caAERS requires these 2 .jar files in order to function.

Step	Action			
1	Go to the Dorian server and download the cog-jglobus.jar and log4j-1.2.8.jar files			
	%> cd \$CATALINA_HOME/common/lib			
2	Upload these files to the \$CATALINA_HOME/common/lib folder on the caAERS server			
	Example: path on the caAERS server: /usr/local/jakarta-tomcat-5.0.28-8080/common/lib)			
3	Go to <a href="https://localhost:8443/caaers/">https://localhost:8443/caaers/</a> . This should bring up the log in page.			
	<b>Note:</b> Make sure to replace localhost with the server name where caAERS has been installed.			
4	Go to <a href="https://localhost:8443/caaers/">https://localhost:8443/caaers/</a> . This should bring up the log in page.			

**Note:** Replace localhost with the server name where caAERS has been installed

# **Contacting Technical Support**

caAERS Please e-mail the Project Manager of the caAERS Development team Edmond Mu	
Application	edmond.mulaire@semanticbits.com or the caAERS Technical Listserv
Support	caaersappdev-technical@gforge.nci.nih.gov.

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  - ♦ 3.4 Installing caAERS
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  - ♦ 3.6 Troubleshooting
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- 4 Contacting Technical Support

#### Introduction

This installation guide outlines the supported configurations and installing, setting up, and configuring the Cancer Adverse Event Reporting System (caAERS) application.

We use linux for CCTS, not Windows

All of the examples and screenshots included in this chapter are Windows specific. If you are using a different platform, then modify the information as appropriate for your system.

### caAERS Minimal System Requirements

Please make sure these are incorporated into the main CCTS hardware requirements document and then remove this section

Minimal System Requirements	
	• Internet connection
	<ul> <li>Firefox 1.5 or higher or Internet Explorer 7.0</li> </ul>

caAERS has been tested on the platforms shown below:

	Solaris	Windows
Model	Xserve G4	Dell Dimension 8200

#### Part\_of\_the\_CCTS\_Suite

CPU	2 x 1 GHz PowerPC G4	1 x Intel® Pentium? Processor 1.80GHz
Memory	2 GB	1 GB
Local Disk	System 2 x 180 GB	System 1 x 36GB
os	OSX 10.4	Windows XP

# caAERS Software and Technology Requirements

# **Software Requirements**

Please make sure these are incorporated into the main CCTS hardware requirements document and then remove this section

Required SoftwareNot		You must download and install a set of required software that is not included v
	Included in the carriers	application software bundle. The software name, version, description, and UR
		download) are listed in Table 3.

<b>Software Name</b>	Version	Description	
1		The Java SE development kit with JRE, compilers and debuggers	http://java.sun.com/j
	2		http://tomcat.apache

The caAERS application requires access to a properly-configured database. JDBC drivers for HSQLD been included. If your site is using an Oracle database, you will need to obtain the necessary Oracle drivers do the db/lib directory. caAERS is built with database-independence in mind and has been tested on the database.
below.

Database Name	Version	Description	URL
PostgreSQL		PostgreSQL is a powerful, open source relational database system.	http://www.postgresql.org/download/
Oracle	_	Industry-leading, commercial database product.	http://www.oracle.com/technology/software/pr

### **Preliminary Considerations**

.This disclaimer is probably fine, though I would remove "page 2"

BEFORE
YOU
<b>BEGIN</b>

caAERS has been tested with the operating systems and hardware specified on page 2 of this guide. Although we have made an effort to develop caAERS as a platform-independent application, we cannot guarantee that it will work if you are using variations of these operating systems and/or hardware.

Installing caAERS on a system already setup with the proper versions of the JDK, database, and Tomcat should require only about 30 minutes; installation from scratch could take several hours. For installation on Windows, an account with administrator privileges must be used.

**Note:** The instructions here assume the CCTS 1.0 Distribution Package, caaers-1-0 folder. Unless otherwise this folder contains the files needed application and the grid services regard the CCTS 1.0 system.

In addition, it is assumed that you have already reviewed the CCTS 1.0 Installation Guide and completed all the required, preliminary CCTS integrated installation steps. The CCTS Installation Guide will walk you through the process of setting up JDK and Tomcat, which are needed by caAERS.

Before you begin the installation of the caAERS application, you need to create a database for caAERS. The instructions for creating the database are found below.

### Installing the Database

Databases already installed previously, please remove or heavily change this section

**NOTE:** caAERS supports two databases, Oracle and PostgreSQL. To successfully deploy caAERS, you need to have one of these databases installed on your system. The instructions for installing an Oracle or Postgres database product are beyond the scope of this document. Refer to the installation documents that accompany these databases for step-by-step instructions.

In your database management system, create a new database. To do so, follow the steps outlined here.

Step	Action
1	Install the preferred database product (PostgreSQL 8.1.9 or Oracle 10g)
2	Create an empty database for caAERS to use. You may give your database any valid name, but this guide will us
	each example

### Installing caAERS

You will need to change the "download" instructions to point to the location in the CCTS package

Put in example fields and paths for caGrid-related items (e.g. certificate location). You can find these in the main CCTS section of the main install doc.

Database field screenshot needs to be updated with CCTS examples

Rules screenshot needs to be updated with CCTS paths

WebSSO screenshot needs to be updated with CCTS paths/values

**SUGGESTION:** To best understand the installation procedures for the caAERS, it is recommended that you follow the proce–dures described in this section with minimal deviation.

Step	Action
1	Verify that there is a database called caaers created in Postgres and the owner is set to postgres.
2	Download the installer jar caAERSInstaller.jar from

#### Part\_of\_the\_CCTS\_Suite



To install caAERS successfully, you need to have the database's parameters, including name, host name, port ad password.

Enter the database details for the caAER postgres database and click Next



8 Create a rules repository directory accessible by tomcat Eg: /usr/local/ccts/caaers-rules and select the folder by c Then click Next

#### Part\_of\_the\_CCTS\_Suite



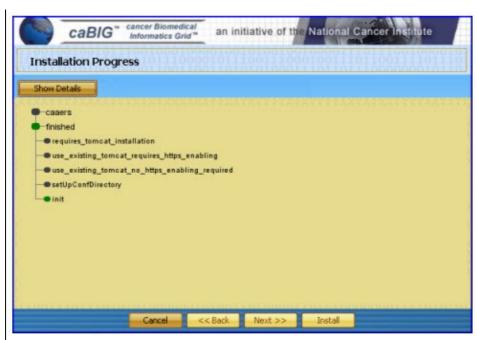
- 9 Select the authentication mode WebSSO and then make any necessary changes. Additional information on what below:
  - WebSSO server URL: Modified to define the server name/port that is hosting WebSSO
  - *The WebSSO server certificate:* This is the path/filename of the certificate that was created for WebSSO WebSSO software. **Note:** It may be necessary to make a local copy of this certificate on the caAERS ser prohibit reading this file directly from where it resides within the WebSSO server.
  - The Host Certificate and Host Key: Enter the certificate and key files (normally ending in a .pem filenar caAERS using the GAARDS UI program on the Dorian Server\_. (Refer to the CCTS 1.0 Installation Gu generating certificate and key files for each CCTS application component)\_
  - Acegi URL:\_Update the server/port assignment to define the server name/port where caAERS will be ru path details, /caaers/j\_acegi\_cas\_security\_check, should not be modified.
  - Study Consumer URL: If using a standard configuration, this default path should be correct. You can up file at a later point if changes are required.
  - Registration Consumer URL: If using a standard configuration, this default path should be correct. You config file at a later point if changes are required.



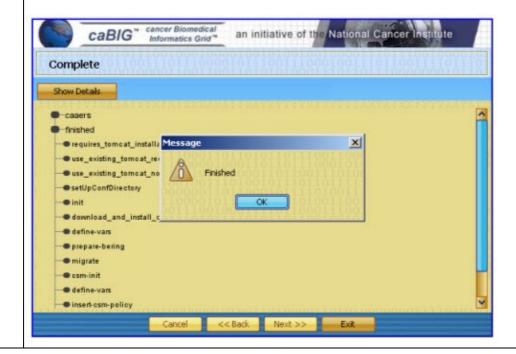
10 Verify the components that are to be installed, and then **click Next >>.** 



Click **Install** to start the installation process. This will initiate the installation and display the installation's status displayed as shown for some time while the install continues. It is not complete until you receive the **Finished** p step 13. Be patient and do not hit the **Cancel** button.



When the process has completed, click **OK** and then click **Exit**.



#### **Test**

Need to include happy.jsp smoke test

Test 8

#### Part\_of\_the\_CCTS\_Suite

Step	Action
1	Go to <a href="https://example.com/services">host-name&gt;:8443/caaers/</a> . This should bring up the list of services.
	Note: Replace host-name with the server name where caAERS has been installed
2	Go to <a href="mailto:should-bring-up-the-log-in-page">host-name&gt;:8443/caaers/</a> . This should bring up the log in page.
	Note: Replace host-name with the server name where caAERS has been installed
3	Login with the following information
	<ul><li> Username = cctsdemo1@nci.nih.gov</li><li> Password = !Ccts1</li></ul>

If the steps above do not work, there may be some additional configuring you need to complete before caAERS can be accessed. See Troubleshooting for more information.

**NOTE:** Refer to the caAERS Administration Guide or the caAERS QuickStart Guide to set up the required information to use the application.

### **Troubleshooting**

These troubleshooting steps may resolve your issues. If they do not please Contact Technical Support.

### caAERS doesn't work after the installation is complete

**Problem with rules.repository= file** 

#### Need path to correspond to CCTS install path

It's possible the installation was complete but the datasource.properties file in \${tomcat.dir}/conf/caaers is not configured correctly. The rules.repository= file may need to be modified to work correctly in a Windows environment. It must be modified to only contain 1 include and 2 backslashes instead of forward slashes if it is a Windows operating system.

Step	Action
1	Go to /usr/local/\${tomcat.dir}/conf/caAERS
2	Ensure the rules.repository line is updated to only include one / at the beginning of the file=path le

Troubleshooting 9

#### Part\_of\_the\_CCTS\_Suite

	Example: rules.repository=file:/local/home/tomcat-app/caAers/rules
3	Go to <a href="https://localhost:8443/caaers/">https://localhost:8443/caaers/</a> . This should bring up the log in page.
	Note: Replace localhost with the server name where caAERS has been installed
4	Login with the following information
	<ul><li> Username = SYSTEM_ADMIN</li><li> Password = system_admin</li></ul>

### The secure tomcat container is missing files

The procedure to build the secure tomcat container may not have copied the two .jar files into the lib folder. caAERS requires these 2 .jar files in order to function.

Step	Action
1	Go to the Dorian server and download the cog-jglobus.jar and log4j-1.2.8.jar files
	%> cd \$CATALINA_HOME/common/lib
2	Upload these files to the \$CATALINA_HOME/common/lib folder on the caAERS server
	Example: path on the caAERS server: /usr/local/jakarta-tomcat-5.0.28-8080/common/lib)
3	Go to <a href="https://localhost:8443/caaers/">https://localhost:8443/caaers/</a> . This should bring up the log in page.
	Note: Make sure to replace localhost with the server name where caAERS has been installed
4	Go to <a href="https://localhost:8443/caaers/">https://localhost:8443/caaers/</a> . This should bring up the log in page.
	Note: Replace localhost with the server name where caAERS has been installed

# **Contacting Technical Support**

Need to update this contact info

caAERS Application	Please e-mail the Project Manager of the caAERS Development team Edmond Mulaire,
Support	edmond.mulaire@semanticbits.com or the caAERS Technical Listserv caaersappdev-technical

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Contents 1

# **Preliminary Considerations**

BEFORE	caAERS has been tested with the operating systems and hardware specified in the Minimal Requirement
	Installation guide. Although we have made an effort to develop caAERS as a platform-independent ap
	guarantee that it will work if you are using variations of these operating systems and/or hardware.
	Installing caAERS on a system already setup with the proper versions of the JDK, database, and Tomo
	minutes. Installation from scratch could take several hours. For installation on Windows, an account w
	privileges must be used.

**Important:** Before installing caAERS you will need to install JDK and Tomcat and then create your database. Please follow the steps outlined in the sections below.

# **Installing JDK**

Step	Action
1	Download Java Standard Edition 5.0 or higher from <a href="http://java.sun.com/javase/downloads/index.jsp">http://java.sun.com/javase/downloads/index.jsp</a> .
	Install Java. Make sure neither the directory where you install java or the parent directories contain a white space in between any characters in the name of the directory.
	<b>Note:</b> Throughout this guide the java installation directory will be referred as <b>\${java.dir}</b> .
3	Add the \${java.dir}\bin to your system PATH.
4	Set a new environment variable named <b>JAVA_HOME</b> , whose value equals <b>\${java.dir}</b> .

# **Installing Tomcat**

Step	Action
1	Download Apache Tomcat version 5.5.23 or higher from
	http://tomcat.apache.org/download-55.cgi. Add a new environment variable CATALINA_HOME, whose value must be set to \${tomcat.dir}
2	Install the Tomcat application in a convenient location.
	<b>Note:</b> Throughout this guide the Tomcat installation directory will be referred as <b>\${tomcat.dir}</b> }.
3	Configure server.xml in the <b>\${tomcat.dir}</b> /conf to enable https connections on port
	8443 or 443.
4	Generate an SSL certificate using the instructions at <a href="http://tomcat.apache.org/tomcat-5.5-doc/ssl-howto.html">http://tomcat.apache.org/tomcat-5.5-doc/ssl-howto.html</a> . Save the generated

Installing Tomcat 2

# **Installing an SVN Client**

To checkout the latest code, you need to have a Subversion (SVN) client installed on your system. Download and install the Subversion client provided below.

- Windows stand alone: <a href="http://tortoisesvn.tigris.org/">http://tortoisesvn.tigris.org/</a>
- Mac stand alone: <a href="http://www.apple.com/downloads/macosx/development">http://www.apple.com/downloads/macosx/development</a> tools/svnx.html

#### **Download the Latest Source Code**

Step	Action
	Once the SVN client is installed, create a directory in a convenient location to checkout the caAERS source code.
	<b>Note:</b> Throughout this guide the source code directory will be referred as <b>\${workspace}</b> .
	Right-click <b>\${workspace}</b> , select <b>SVN Checkout</b> and enter the following repository URL: <a href="https://gforge.nci.nih.gov/svnroot/caaersappdev/trunk/">https://gforge.nci.nih.gov/svnroot/caaersappdev/trunk/</a>

### **Download the Latest Compiled .war file**

Step	Action
1	Go to the caAERS Subversion repository, located at <a href="http://gforge.nci.nih.gov/frs/?group_id=249">http://gforge.nci.nih.gov/frs/?group_id=249</a>
2	From here, download the latest compiled .war file, caaers-20070412.zip, from the caAERS project site.
3	Unzip the file contents into a convenient location.
	Note: this directory will be referred as \${caAERS}

### **Installing and Configuring the Database**

caAERS supports two databases, Oracle and PostgreSQL. To successfully deploy caAERS, you need to have one of these databases installed on your system.

**Note:** The instructions for installing an Oracle or Postgres database are beyond the scope of this document. Refer to the installation documents that accompany these databases for step-by-step instructions.

#### **Installing the Database**

Complete the following steps to prepare the database for caAERS:

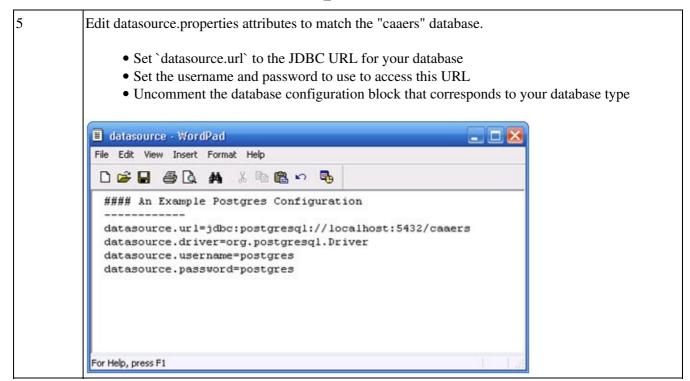
Step	Action
1	Install the preferred database product (PostgreSQL 8.1.9 or Oracle 10g)
2	Create an empty database for caAERS to use. You may give your database any valid name, but this guide will use "caaers" as the name in each example
3	Create a schema named "caaers" in the database
4	Create a superuser with privileges to access the database created in step 2

**Note:** There is a readme.database in \caaers\projects\core that provides more details on how to do the configuration with Postgres and Oracle databases.

### Configuring the Database for Use with caARES

The following steps explain how to set up an etc/caaers directory, for the Postgres database.

Step	Action
1	Create the directory: c:*etc*
2	Create a subfolder: caaers
3	Go to \${workspace}\caaers\projects\rules\db
4	Copy caaers.properties.sample into c:\etc\caaers* and rename it *datasource.properties



# **Configuring Tomcat**

Please follow the steps below to configure Tomcat:

Step	Action
1	Add the following lines in \${tomcat.dir}/conf/catalina.properties
	<b>Note:</b> Every file referenced below will be contained in the \${tomcat.dir}/conf/cabig/ folder
	gov.nih.nci.security.configFile=
	\${tomcat.dir}/conf/cabig/ApplicationSecurityConfig.xml
	java.security.auth.login.config=
	\${tomcat.dir}/conf/cabig/csm_jaas.config
2	Create a new folder: \${tomcat.dir}/conf/cabig
3	Copy all the files in \${workspace}/projects/core/tools/csm/conf/cabig to \${tomcat.dir}/conf/cabig
	4 From the cabig folder, open ApplicationSecurityConfig.xml and caaers.hibernate.cfg.xml in a text editor and make the following changes:

- Replace @csm.context.name@ with caaers
- Replace @tomcat.security.dir@ with \${tomcat.dir}/conf/cabig
- From the cabig folder, open the csm\_jaas.config and change the following fields (as highlighted in the screenshot):
  - driver
  - url
  - user
  - psswd

**Note:** This is the csm\_jaas.config file for Postgres. If you are using Oracle, make the appropriate changes.

```
Fig. Edt. View Insert Format Help

Camers (
    gov.nih.nci.security.authentication.loginmodules.RDBMSLoginModule required driver="org.postgresql.Driver"
    url="jdbc:postgresql://localhost:5432/camers-k"
    user="clinica"
    passwd="clinica"
    encryption-enabled="YES"
    query="SELECT * FROM CSM_USER WHERE LOGIN_NAME=? and PASSWORD=?"
    ;
};

For Help, press F1
```

- From the cabig folder, open caaers.hibernate.cfg.xml and change the following datasource related properties (as shown in the screenshot)
  - username
  - password
  - url
  - driver\_class
  - dialect

**Note:** This is for Postgres. If you are using Oracle, make the appropriate changes

```
<?xml version='1.0' encoding='utf-8'?>
<!DOCTYPE hibernate-configuration PUBLIC
  "-//Hibernate/Hibernate Configuration DTD//EN"
  "http://hibernate.sourceforge.net/hibernate-configuration-3.0.dtd">
<hibernate-configuration>
  <session-factory>
     property name="connection.username">postgres
     cproperty name="connection.driver_class">@datasource.driver@
     property name="hibernate.show_sql">true</property>
     <mapping resource="gov/nih/nci/security/authorization/domainobjects/Privilege.hbm.xml"/>
     <mapping resource="gov/nih/nci/security/authorization/domainobjects/Application.hbm.xml"/>
     <mapping resource="gov/nih/nci/security/authorization/domainobjects/Role.hbm.xml"/>
```

Configuring Tomcat 6

# **Enabling SSL**

#### **Generate a Certificate**

Step	Action
1	From the command prompt, switch to \${tomcat.dir}/conf/cabig
2	Run the following command:
	keytool -genkey -alias tomcat -keyalg RSA -keystore caaers_keystore
	This will generate a file, caaers_keystore, in the active directory
3	The keytool command will request the following information: Store password
	<ul> <li>Firstname</li> <li>Last name</li> <li>Dns</li> <li>Key password</li> </ul>
	Complete each field

Please refer to the detailed instructions available in <a href="http://tomcat.apache.org/tomcat-5.0-doc/ssl-howto.html">http://tomcat.apache.org/tomcat-5.0-doc/ssl-howto.html</a>, to enable SSL.

# **Updating the server.xml**

Step	Action
1	Switch to \${tomcat.dir}/conf, open the server.xml in a text editor
2	Search for '
3	Update the <connector> element by un-commenting it and specifying the relative directory of the keystore (as shown in the sample file)</connector>
	<pre><!-- Define a SSL Coyote HTTP/1.1 Connector on port 8443--></pre>
	<pre>clientAuth="false" sslProtocol="TLS" keystoreFile="conf/cabig/caaers_keystore"/&gt;</pre>

Enabling SSL 7

## Loading the Database with the Schema/Deploying the caAERS.war

Step	Action
1	Copy the caaers.war file from the directory \${caAEERS}
2	Start Tomcat, by executing the startup.bat or startup.sh file located in <b>\${tomcat.dir}</b> /bin
	<b>Note:</b> Starting Tomcat will automatically deploy the caaers.war file, this will create a /caeers directory within \${tomcat.dir}/webapps and load the schema into the caaers database
3	Go to <a href="https://localhost:8443/caaers/">https://localhost:8443/caaers/</a> . This should bring up the log in page.
	<b>Note:</b> Replace <i>localhost</i> with the server name where caAERS has been installed
4	Login with the following information
	<ul><li>Username = SYSTEM_ADMIN</li><li>Password = system_admin</li></ul>

## Installing caAERS Services and ESB

Regardless of the type of installation (stand-alone, part of CCTS, or manual), complete the following steps before testing and running caAERS.

#### Install the Globus Toolkit

To use any of the grid service, the globus toolkit must be available on tomcat. The following instructions pertain to installation of globus on tomcat.

**Note:** If you've installed caAERS as part of CCTS, globus will already be installed, so move directly to Setting up the Secure Data Grid Service.

Step	Action
1	Download the following toolkit:
	http://www-unix.globus.org/toolkit/survey/index.php?download=ws-core-4.0.3-bin.zip
2	Unzip the compressed folder in to an appropriate directory
3	Open the command prompt and navigate to the unzipped directory (it should be ws-core-4.0.3)

4	On the command line type
	ant -f share\globus_wsrf_common\tomcat\tomcat.xml deployTomcat -Dtomcat.dir = tomcat_home
	where tomcat home would be the directory where tomcat is installed
5	If the build is successful, navigate to the webapps folder of tomcat and make sure the <b>wsrf</b> folder has been created

## Install the caAERS Data Grid Service

Step	Action
1	Assumptions:
	A) It is assumed that the target machine has JDK 5.0 or higher installed on it. B) The environment variable CATALINA_HOME is pointing to the targeted tomcat in the machine. C) The environment variable GLOBUS_LOCATION is set and pointing to globus installation location. Download the zip file (CaaersDataService.zip) from the following location <<< <url>&gt;&gt;&gt;&gt; and unzip to any location, which creates a folder named "CaaersDataService"</url>
2	Edit CaaersDataService/service.properties file to replace the following properties with appropriate values.
	cqlQueryProcessorConfig_gridGrouperUrl= <url grid="" grouper="" to=""> cqlQueryProcessorConfig_gridGrouperGroup= <group name=""></group></url>
3	Edit CaaersDataService/etc/serviceMetadata.xml file to enter the research center information as shown below
	<ns1:hostingresearchcenter></ns1:hostingresearchcenter>
	<ns9:researchcenter <="" displayname="" shortname="" td=""></ns9:researchcenter>
	xmlns:ns9="gme://caGrid.caBIG/1.0/gov.nih.nci.cagrid.metadata.common">
	<ns9:address country="" locality="" postalcode="" stateprovince="" street1="" street2=""></ns9:address>
	<ns9:pointofcontactcollection></ns9:pointofcontactcollection>
	<ns9:pointofcontact affiliation="" email="" firstname="" lastname="" phonenumber="" role=""></ns9:pointofcontact>
4	Open the command prompt and navigate to CaaersDataService folder and type "ant all"Once the above step is completed, execute "ant deployTomcat"If you don't see any error message/s then it indicates that service has been successfully deployed in targeted tomcat.

Install the Globus Toolkit 9

#### Manual\_Installation

5	If you have already configured datasource.properties in \$CATALINA_HOME/conf/caaers leave it like that . If not then	
	<ul> <li>download datasource.properties from https://gforge.nci.nih.gov/plugins/scmsvn/viewcvs.php/deliverables/Phase%202/1.1.2/?root=caaersa</li> <li>edit with right values</li> <li>and copy it to \$CATALINA_HOME/conf/caaers. Start tomcat</li> </ul>	ърр
6	To check if the caAERS data service is up and running, type the following URL in the web browserhttps://< <host_name>&gt;:8443/wsrf/services/cagrid/Caaers?wsdl  This should show the wsdl for the caAERS data service (it is just an xml) in the web browser.</host_name>	

### Preparation for using grid client

The grid client is used to access the caAERS Data Service. This requires that the grid service is correctly configured. See the <u>figure</u> below for an overview of a grid service configuration.

#### Configuration

The following requirements are assumed to be true in order for configuration to be performed:

- 1. The grid security infrastructure is in place [Dorian, syncGTS, IDP].
- 2. For an existing infrastructure, the following information needs to be known\extracted:
- The URL for Dorian
- The root certificate [CA] of Dorian

Step	Action
1	Copy the root certificate of Dorian on the client machine under the following directory: \$user_home/.globus/certificates. Make sure the extension of the certificate is ".0" ("dot zero").
2	Copy the root certificate into the userhome where the caaers data grid service is running.  Note: It is important that the certificate should be applied in the userhome of the user account under which tomcat is running.
3	Modify the following properties in run-tools.xml. The screenshot shows a sample of the file with the changes made.  • service.url: The URL where the service is located

```
Example: <a href="https://localhost:8443/wsrf-ds/services/cagrid/Caaers">https://localhost:8443/wsrf-ds/services/cagrid/Caaers</a>
      • dorian.url: The URL where Dorian is located
Example: https://localhost:8443/wsrf-ds/services/cagrid/Caaers
      • uid and pwd: The user id and password for an existing user account in Dorian IDP
<target name="runClient" depends="checkGlobus, defineClasspaths" description="Run the sample
Client">
property name="service.url" value="data service url " />
cproperty name="dorian.url" value="dorian url" />
cproperty name="uid" value="userid" />
cproperty name="pwd" value="password" />
<echo message="Connecting to service: ${service.url}"/>
<java classname="gov.nih.nci.cagrid.caaers.client.ClientTest" classpathref="run.classpath" fork="no">
<jvmarg value="-DGLOBUS_LOCATION=${ext.globus.dir}"/>
<arg value="${service.url}" />
<arg value="${dorian.url}" />
<arg value="${uid}" />
<arg value="${pwd}" />
</java>
</target>
</project>
```

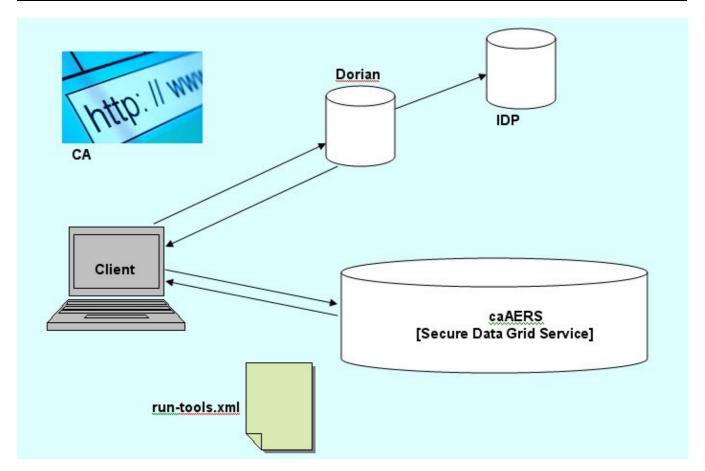
#### Running the grid client

After suitable setup of the run-tools.xml, the caAERS data service can be accessed. Use the following steps to access the grid client:

Configuration 11

#### $Manual\_Installation$

Step	Action
1	From the command prompt, navigate to the folder where caAERSDataService.zip was unzipped
2	Type:
	ant runClient  The client should run and be able to successfully connect to the caAERS data service



#### Install the caAERS Adverse Event Consumer Grid Service

Step	Action
1	Locate AdverseEventConsumerService.zip in the caaers-1-0 folder.
2	Unzip AdverseEventConsumerService.zip to a local drive. This will create a folder named "AdverseEventConsumerService"
3	If you have Maven and Ant available in your machine, type
	mvn install -Dmaven.test.skip=true

Running the grid client 12

#### $Manual\_Installation$

	If you only have ant available in your machine, type ant deployTomcat	
	Note: Make sure CATALINA_HOME is pointing to the appropriate tomcat	
4	If the deployment was successful, start tomcat	
5	To check if the caAERS Adverse Event Consumer service is up and running, access <a href="https://chost">https://chost</a> name>:8443/wsrf/ services/cagridAdverseEventConsumer?wsdl. This should show the wsdl (it is just an xml) in the browser.	

# **Install the caAERS Registration Consumer Grid Service Implementation**

**Note:** The Registration Consumer Grid Service globus skeleton webservice must be available in \$CATALINA\_HOME/webapps/\$wsrf.

Step	Action
1	Go to the <b>caaers-1-0</b> folder. Locate the <b>required-jars</b> subfolder. Open this folder and select all the files.
2	Move or copy the files to \$CATALINA_HOME/webapps/\$wsrf/WEB-INF/lib
	Note: Override existing files
	Enable auditing by editing the \$CATALINA_HOME/webapps/caaers-wsrf/WEB-INF/etc/cagrid_RegistrationConsumer/server-config.w to include the highlight lines, as shown in the figure below.

```
<?xml version="1.0" encoding="UTF-8"?>
<deployment xmlns="http://xml.apache.org/axis/wsdd/"</pre>
xmlns:aggr="http://mds.globus.org/aggregator/types"
   xmlns:java="http://xml.apache.org/axis/wsdd/providers/java"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
   name="defaultServerConfig">
   <handler name="auditInfoRequestHandler"</pre>
       type="java:gov.nih.nci.cabig.caaers.grid.AuditInfoRequestHandler"/>
   <handler name="auditInfoResponseHandler"</pre>
       type="java:gov.nih.nci.cabig.caaers.grid.AuditInfoResponseHandler"/>
   <service name="cagrid/RegistrationConsumer" provider="Handler" use="literal"</pre>
style="document">
       <parameter ...../>
       <parameter ...../>
       <parameter ...../>
       <parameter ...../>
       <requestFlow>
           <handler type="auditInfoRequestHandler"/>
       </requestFlow>
       <responseFlow>
           <handler type="auditInfoResponseHandler"/>
       </responseFlow>
       </service>
   <!--ccts addition-->
       ......
        ......
```

## Install the caAERS Study Consumer Grid Service Implementation

**Note:** The Study Consumer Grid Service globus skeleton webservice must be available in \$CATALINA\_HOME/webapps/\$wsrf.

Step	Action
1	Go to the <b>caaers-1-0</b> folder. Locate the <b>required-jars</b> subfolder. Open this folder and select all the files.
	<b>Note:</b> If you just completed this step above as part of installing the caAERS Registration Consumer Grid Service you can skip directly to step 3 below.
2	Move or copy the files to \$CATALINA_HOME/webapps/\$wsrf/WEB-INF/lib
	Note: Override existing files
3	Enable auditing by editing the

\$CATALINA\_HOME/webapps/caaers-wsrf/WEB-INF/etc/cagrid\_RegistrationConsumer/server-config.w

to include the highlight lines, as shown in the figure below.

```
<?xml version="1.0" encoding="UTF-8"?>
<deployment xmlns="http://xml.apache.org/axis/wsdd/"</pre>
xmlns:aggr="http://mds.globus.org/aggregator/types"
xmlns:java="http://xml.apache.org/axis/wsdd/providers/java"
xmlns:xsd="http://www.w3.org/2001/XMLSchema" name="defaultServerConfig">
   <handler name="auditInfoRequestHandler"</pre>
      type="java:gov.nih.nci.cabig.caaers.grid.AuditInfoRequestHandler"/>
   <handler name="auditInfoResponseHandler"</pre>
       type="java:gov.nih.nci.cabig.caaers.grid.AuditInfoResponseHandler"/>
   <service name="cagrid/StudyConsumer" provider="Handler" use="literal"</pre>
style="document">
      <parameter ...../>
       <parameter ...../>
       <parameter ...../>
       <parameter ...../>
       ......
       .....
       <requestFlow>
           <handler type="auditInfoRequestHandler"/>
       </requestFlow>
       <responseFlow>
           <handler type="auditInfoResponseHandler"/>
       </responseFlow>
   </service>
      <!--ccts addition-->
</deployment>
```

### Install ESB for caAERS-AdEERS Integration

**Note:** Only complete this section if there will be caAERS-AdEERS integration. If not, continue to Test.

#### Step-A) Installing ServiceMix ESB

IMPORTANT! This is a one time installation. If servicemix is already installed , skip this step and go to Step-B

Step	Action				
1	Download the following file from <a href="https://gforge.nci.nih.gov/plugins/scmcvs/cvsweb.php/ccts/releases/1.0rc2/caaers-1-0/?cvsroot=ccts">https://gforge.nci.nih.gov/plugins/scmcvs/cvsweb.php/ccts/releases/1.0rc2/caaers-1-0/?cvsroot=ccts</a>				
	1. apache-servicemix-3.1.2-windows-service.zip				
2	Uzip <b>apache-servicemix-3.1.2-windows-service.zip</b> file onto the server.				
	Example: c:/apache-servicemix-3.1.2				
3	Create the environment variable SERVICEMIX_HOME and point it to the directory you used in step 2				
4	WINDOWS BASED SERVERS ONLY.				
	• modify %SERVICEMIX_HOME%/conf/wrapper.conf file.				
	◆Open wrapper.conf file and edit line number 6. Replace with the location of your java command: wrapper.java.command=C:/jdk1.5.0_10/bin/java				
	• Install ServiceMix as Windows Service				
	◆Execute %SERVICEMIX_HOME%/Install-ServiceMix-As-Service.bat				
	♦ Please check windows services for newly installed service "Servicemix Service Bus".				
	◆ Check the properties of this service and make it to start "Auto", so that service will be started with server.				
	◆ We need to know the User who own this windows service. If needed to you can make changes to "Log On" tab in service properties.				
	◆Test the service by starting and stopping it.				
	NIX based SERVERS ONLY				

- Service can be started using unix executable %SERVICEMIX\_HOME%/bin/servicemix.
- Try starting and stopping the service (Run service in back ground)

## Step-B) Deploying caAERS-AdEERS service assembly to ESB.

Step	Action				
l l	Download the following files from				
	https://gforge.nci.nih.gov/plugins/scmsvn/viewcvs.php/deliverables/Phase%202/1.1.3/?root=caaersappdev				
	. caaers-adeers-sa-3.1.2-incubating.zip				
	2. caAERs-AdEERS				
2	Copy caaers-adeers-sa-3.1.2-incubating.zip				

	to
	SERVICEMIX_HOME/deploy and
	SERVICEMIX_HOME/bin/deploy
	Copy caAERs-AdEERS to User home (**User who owns the ServiceMix service/process)
3	nix based Servers: Start service mix ESB from \$SERVICEMIX_HOME/bin/servicemix.sh
4	Windows based servers start "Servicemix Service Bus" windows service.

#### **Test**

Step	Action		
1	Go to <a href="https://localhost:8443/caaers/">https://localhost:8443/caaers/</a> . This should bring up the log in page.		
	Note: Replace <i>localhost</i> with the server name where caAERS has been installed		
2	Login with the following information		
	<ul><li> Username = SYSTEM_ADMIN</li><li> Password = system_admin</li></ul>		

If the steps above do not work, there may be some additional configuring you need to complete before caAERS can be accessed. See Troubleshooting for more information.

**NOTE:** Refer to the caAERS Administration Guide or the caAERS QuickStart Guide to set up the required information to use the application.

## **Troubleshooting**

These troubleshooting steps may resolve your issues. If they do not please Contact Technical Support.

### caAERS doesn't work after the installation is complete

#### **Problem with rules.repository= file**

It's possible the installation was complete but the datasource.properties file in \${tomcat.dir}/conf/caaers is not configured correctly. The rules.repository= file may need to be modified to work correctly in a Windows environment. It must be modified to only contain 1 include and 2 backslashes instead of forward

Troubleshooting 17

slashes if it is a Windows operating system.

Step	Action				
1	Go to /usr/local/\${tomcat.dir}/conf/caAERS				
2	Ensure the rules.repository line is updated to only include one / at the beginning of the file=path location:				
	Example: rules.repository=file:/local/home/tomcat-app/caAers/rules				
3	Go to <a href="https://localhost:8443/caaers/">https://localhost:8443/caaers/</a> . This should bring up the log in page.				
	<b>Note:</b> Replace <i>localhost</i> with the server name where caAERS has been installed				
4	Login with the following information				
	• Username = SYSTEM_ADMIN				
	• Password = system_admin				

## The secure tomcat container is missing files

The procedure to build the secure tomcat container may not have copied the two .jar files into the lib folder. caAERS requires these 2 .jar files in order to function.

Step	Action			
1	Go to the Dorian server and download the cog-jglobus.jar and log4j-1.2.8.jar files			
	%> cd \$CATALINA_HOME/common/lib			
2	Upload these files to the \$CATALINA_HOME/common/lib folder on the caAERS server			
	Example: path on the caAERS server: /usr/local/jakarta-tomcat-5.0.28-8080/common/lib)			
3	Go to <a href="https://localhost:8443/caaers/">https://localhost:8443/caaers/</a> . This should bring up the log in page.			
	Note: Make sure to replace localhost with the server name where caAERS has been installed.			
4	Go to <a href="https://localhost:8443/caaers/">https://localhost:8443/caaers/</a> . This should bring up the log in page.			
	Note: Replace localhost with the server name where caAERS has been installed			

# **Contacting Technical Support**

caAERS	Please e-mail the Project Manager of the caAERS Development team Edmond Mulaire,
Application	edmond.mulaire@semanticbits.com or the caAERS Technical Listserv
Support	caaersappdev-technical@gforge.nci.nih.gov.

## Configuring caAERS

After the installation is complete, you can start configuring it. All of these steps need to be completed before you can start using caAERS. The configuration should be completed in the order listed since many steps are prerequisites for steps that follow.

Task	Method 1	Method 2
Configure the Application	Manual Configuration	
Verify Organization List	Manual Verification	
Verify IND list	Manual Verification	
Set up Report Definitions	Enter Manually	
Set up Rules	Import	Enter Manually
Set up Vocabulary (MedDRA)	Import	
Set up Investigators	Import	Enter Manually
Set up Research Staff	Import	Enter Manually
Set up IND #	Enter Manually	
Set up Studies	Import	Enter Manually
Set up Patients	Import	Enter Manually
Assign Patients to Studies	Import	Enter Manually
Import Routine AEs	Import	

## **Configure caAERS Reporting Definitions**

When you first install caAERS and add the Rules files we provide, caAERS will create skeleton Reporting Definitions for CTEP and DCP reports. If the rules state that a report is required, a skeleton Report Definition will be created. These skeleton reporting definitions do not include all the necessary information. For example, it won't have

- Information to electronically submit reports to AdEERS
- Notifications that are sent o interested parties
- Defined mandatory fields to assist the users with creating expedited reports.

The <u>attached spreadsheet</u> provides a matrix on how to configure the Reporting Definitions. Some note about the spreadsheet:

• The first tab of the spreadsheet includes information from the first three tabs of the setup process.

Page Section SubSection	Field	CTEP 5 calendar day SAE Report	CTEP 10 calendar day SAE Report
Basic Details			
	Organization	Cancer Therapy Evaluation Program (CTEP)	Cancer Therapy Evaluation Program (CTEP)
	Name Description - can be modified Amendable? Attribution Required? Time Scale UOM Time until report due	CTEP 5 Calendar Day SAE Report Five Calendar Day SAE Report Yes Yes Day 5	CTEP 10 Calendar Day SAE Report Yes Yes Day 10
Delivery Details Email recipients - can be modified			
	name role/EmailAddress	reporter Reporter	PI Principal Investigator
	name role/EmailAddress		AE Adverse Event Coordinator
system recipients - do not modify if sending to AdEERS			
	name username password url	AdEERS ADEERSBETA testadeers1# https://capps- ctep.nci.nih.gov/adeersw s10gbeta/services/AERe portXMLService	AdEERS Staging System ADEERSBETA testadeers1# https://capps- ctep.nci.nih.gov/adeersws 10gbeta/services/AERepo rtXMLService
Mandatory Fields do not modify Course and agent			
	treatment assignment code description of treatment assignment or dose level Start date of first course		

		ı	
Page Section SubSection	Field	CTEP 5 calendar day SAE Report	CTEP 10 calendar day SAE Report
	Start date of course associated with expedited report Course number on which event occurred Total number of courses to date Study Agent Total Dose administered this course Unit of measure Date last administered Administration Delay amount	> > >	> > >
	adminstration delay units comments modified dose amount modified dose units		
Reporter			
Reporter details	First name	<b>✓</b>	<b>&gt;</b>
	Middle name Last name E-mail address Phone Fax	> > > > >	> > > >
Physicians details			
	First name Middle name Last name E-mail address Phone Fax	<b>&gt;</b>	<b>&gt;</b>
Describe event			
	Description Present status  Date of recovery or death Has the participant been re-treated?	<b>&gt;</b>	<b>&gt;</b>
	Was blind broken due to event?		

Page Section SubSection	Field	CTEP 5 calendar day SAE Report	day SAE Report
	Was Study Drug stopped/interrupted/reduc ed in response to event If reduced, specify: New dose		
	Date of recovery or death  If interrupted, specify total number of days not given Did event abate after study drug was stopped or dose reduced?  Did event reappear after study drug was reintroduced?		
Patient details	Tell li Oddced:		
r dieni detans	Baseline performance Disease name Primary site of disease Date of initial diagnosis Weight Quantity Weight Units Height Quantity	>	>
	Height Units	,	Ž
Metastatic disease information	Site Name	•	
Pre-existing			
conditions	Pre-existing condition	<b>~</b>	<b>-</b>
Drior Thorony	. 15 Oxioting Condition		
Prior Therapy	Priory Therapy Comments Therapy start date Therapy end Date	~	~
Concomitant Medications			
	Medication	<b>✓</b>	<b>✓</b>
Other contributing causes			
oauses -	Cause	<b>✓</b>	<b>✓</b>
Intervention information			

Page Section SubSection	Field	CTEP 5 calendar day SAE Report	CTEP 10 calendar day SAE Report
Radiation intervention			
	Type of radiation administration Dosage Dosage unit Last treatment date	<b>&gt;</b>	<b>&gt;</b>
	Schedule number of		
	fractions	<b>~</b>	<b>→</b>
	Elapsed days	<b>~</b>	<b>→</b>
	Adjustment	✓	<b>✓</b>
Surgery intervention			
	Intervention site	<b>~</b>	<b>→</b>
	Intervention date	<b>~</b>	<b>~</b>
Medical devices			
	Brand name Common name Device type Manufacturer name Manufacturer city Manufacturer state Model number Lot number Catalog number Expiration date Serial number Other number Other number I implanted, enter a date If explanted, enter a date Device reprocessed Reprocessor name Reprocessor address Evaluation availability Return Date		
Labs	Lab test name Units Site date Infectious agent Baseline value Baseline date	•	~

Page Section SubSection	Field	CTEP 5 calendar day SAE Report	CTEP 10 calendar day SAE Report	
	Worst value Worst date Recovery value Recovery date			

		T	
Page Section SubSection	Field	CTEP 24 Hour SAE Notification	48 Hour SAE Report to NCI Medical Monitor & CCSA
Basic Details			
	Organization  Name Description - can be	Cancer Therapy Evaluation Program (CTEP)  CTEP 24 Hour SAE Notification	Division of Cancer Prevention (DCP) 48-Hour SAE Report to NCI Medical Monitor and CCSA
	modified Amendable? Attribution Required? Time Scale UOM Time until report due	No No Hour 24	Yes Yes Hour 48
Delivery Details Email recipients - can be modified			
	name role/EmailAddress name	reporter reporter	
	role/EmailAddress		
system recipients - do not modify if sending to AdEERS			
	name username password	AdEERS ADEERSBETA testadeers1# https://capps- ctep.nci.nih.gov/adeersws 10gbeta/services/AERep ortXMLService	
Mandatory Fields do not modify Course and agent	url	OITAMEService	
	treatment assignment code description of treatment assigment or dose level Start date of first course		~

Page Section SubSection	Field	CTEP 24 Hour SAE Notification	48 Hour SAE Report to NCI Medical Monitor & CCSA
	Start date of course		
	associated with expedited report		<b>~</b>
	Course number on which		
	event occurred		<b>✓</b>
	Total number of courses to date		
	Study Agent		<b>&gt;</b>
	Total Dose administered	•	•
	this course	<b>✓</b>	<b>✓</b>
	Unit of measure	<b>✓</b>	<b>✓</b>
	Date last administered		
	Administration Delay amount		
	adminstration delay units comments modified dose amount		
	modified dose units		
Reporter			
Reporter details	First name	<b>✓</b>	<b>✓</b>
	Middle name		
	Last name	<b>✓</b>	<b>✓</b>
	E-mail address	<b>✓</b>	<b>✓</b>
	Phone	<b>✓</b>	<b>→</b>
DI '-' 1-1-'1-	Fax	<b>✓</b>	
Physicians details	First name		<b>~</b>
	Middle name		
	Last name		<b>✓</b>
	E-mail address		<b>✓</b>
	Phone		<b>✓</b>
2 "	Fax		
Describe event	Description		<b>-</b>
	Present status		*
	Date of recovery or death Has the participant been re-treated?		
	Was blind broken due to event?		

Page Section SubSection	Field	CTEP 24 Hour SAE Notification	48 Hour SAE Report to NCI Medical Monitor & CCSA
	Was Study Drug stopped/interrupted/reduc ed in response to event If reduced, specify: New dose		
	Date of recovery or death		
	If interrupted, specify total number of days not given Did event abate after study drug was stopped or dose reduced? Did event reappear after study drug was reintroduced?		
Patient details			
	Baseline performance Disease name Primary site of disease	<b>&gt;</b> >	
	Date of initial diagnosis Weight Quantity Weight Units Height Quantity Height Units	> > >	
Metastatic disease information	Site Name		
Pre-existing conditions			
	Pre-existing condition		
Prior Therapy	Priory Therapy Comments Therapy start date Therapy end Date		
Concomitant Medications	Medication		
Other contributing causes			
	Cause		
Intervention information			

Page Section SubSection	Field	CTEP 24 Hour SAE Notification	48 Hour SAE Report to NCI Medical Monitor & CCSA
Radiation intervention	Type of radiation administration Dosage Dosage unit Last treatment date Schedule number of fractions Elapsed days Adjustment		
Surgery intervention			
	Intervention site Intervention date		
Medical devices			
Laho	Brand name Common name Device type Manufacturer name Manufacturer city Manufacturer state Model number Lot number Catalog number Expiration date Serial number Other number Device operator Other device operator If implanted, enter a date If explanted, enter a date Device reprocessed Reprocessor name Reprocessor address Evaluation availability Return Date		
Labs	Lab test name Units Site date Infectious agent Baseline value Baseline date		

Page Section SubSection	Field	CTEP 24 Hour SAE Notification	48 Hour SAE Report to NCI Medical Monitor & CCSA
	Worst value Worst date Recovery value Recovery date		

_		
Page Section SubSection	Field	10 Day Report Submission to AdEERS
Basic Details		
	Organization  Name Description - can be	Division of Cancer Prevention (DCP) 10-day Report Submission to AdEERS
	modified Amendable? Attribution Required? Time Scale UOM Time until report due	Yes Yes Day 2
Delivery Details Email recipients - can be modified		
	name role/EmailAddress	reporter Reporter
	role/EmailAddress	
system recipients - do not modify if sending to AdEERS		
	name username password	AdEERS ADEERSBETA testadeers1# https://capps- ctep.nci.nih.gov/adee rsws10gbeta/services /AEReportXMLServic
Mandatory Fields do not modify Course and agent	url	е
	treatment assignment code description of treatment assigment or dose level Start date of first course	<b>~</b>

Page Section SubSection	Field	10 Day Report Submission to AdEERS
	Start date of course associated with expedited	
	report	<b>✓</b>
	Course number on which	
	event occurred	<b>~</b>
	Total number of courses to date	<b>~</b>
	Study Agent	<b>✓</b>
	Total Dose administered	
	this course	
	Unit of measure  Date last administered	•
	Administration Delay	
	amount	
	adminstration delay units comments modified dose amount modified dose units	
Reporter	modified dose drifts	
Reporter details	First name	
	Middle name	*
	Last name	<b>✓</b>
	E-mail address	<b>✓</b>
	Phone	<b>~</b>
Dhysisiana dataila	Fax	<b>~</b>
Physicians details	First name	<b>✓</b>
	Middle name	
	Last name E-mail address	<b>V</b>
	Phone	<b>V</b>
	Fax	
Describe event		
	Description	<b>~</b>
	Present status	~
	Date of recovery or death Has the participant been re-treated?	<b>~</b>
	Was blind broken due to event?	
	CVGIIL:	

Page Section SubSection	Field	10 Day Report Submission to AdEERS
Cabocollon	Was Study Drug	T 0) 4
	stopped/interrupted/reduc ed in response to event If reduced, specify: New dose	
	Date of recovery or death	
	If interrupted, specify total number of days not given Did event abate after study drug was stopped or dose reduced? Did event reappear after study drug was reintroduced?	
Patient details		
	Baseline performance Disease name Primary site of disease Date of initial diagnosis	<b>&gt;</b>
	Weight Quantity Weight Units Height Quantity Height Units	· · · ·
Metastatic disease information	Ü	
Pre-existing conditions	Site Name	•
	Pre-existing condition	<b>✓</b>
Prior Therapy		
	Priory Therapy Comments Therapy start date Therapy end Date	•
Concomitant Medications	Madiantia	
	Medication	<b>✓</b>
Other contributing causes	Cause	
le to man the re	Cause	<b>&gt;</b>
Intervention information		

Page Section SubSection	Field	10 Day Report Submission to AdEERS
Daylatian interpretar		
Radiation intervention	Type of radiation administration Dosage Dosage unit Last treatment date Schedule number of fractions	> > > >
	Elapsed days	<b>→</b>
	Adjustment	<b>✓</b>
Surgery intervention	Intervention site Intervention date	>
Medical devices	Due and a same	
	Brand name Common name Device type Manufacturer name Manufacturer city Manufacturer state Model number Lot number Catalog number Expiration date Serial number Other number Device operator Other device operator If implanted, enter a date If explanted, enter a date Device reprocessed Reprocessor name Reprocessor address Evaluation availability Return Date	
Labs	Lab toot name	
	Lab test name Units Site date Infectious agent Baseline value Baseline date	*

Page Section SubSection	Field	10 Day Report Submission to AdEERS
	Worst value Worst date	
	Recovery value Recovery date	

CTEP 5 calendar day SAE Report

**Day** 0

Recipients

email

role Reporter

Subject line 5 Calendar Day Report for \${patientId} on \${study.primaryIdentifier.value} initiated in caAERS

This is a system generated email. Please do not respond to this email.

A 5 Calendar report has been initiated in caAERS.

The 5 Calendar Day report must be completed and sent to CTEP, NCI within 5 Calendar Days of knowledge of the AE. This report is accessible in caAERS via the 'Manage Reports' pathway.

To retrieve the report enter the exact combination of the Study and Subject. It is very important to save this information for every report created. Print this page and keep it as a reference.

Subject Id: \${patientId}

Study Short Title: \${study.shortTitle}

Study primary Identifier: \${study.primaryIdentifier.value}

To access caAERS, see https://sbdev1000.semanticbits.com:8031/caaers/public/login.

Thank you,

Message caAERS Notification System

CTEP 10 calendar day SAE Report

Dav 0

Recipients

email role

role Reporter

Subject line 10 Calendar Day Report for \${patientId} on \${study.primaryIdentifier.value} initiated in caAERS

\*

This is a system generated email. Please do not respond to this email.

A 10 Calendar report has been initiated in caAERS.

The 10 Calendar Day report must be completed and sent to CTEP, NCI within 10 Calendar Days of knowledge of the AE. This report is accessible in caAERS via the 'Manage Reports' pathway.

To retrieve the report enter the exact combination of the Study and Subject. It is very important to save this information for every report created. Print this page and keep it as a reference.

Subject Id: \${patientId}

Study Short Title: \${study.shortTitle}

Study Primary Identifier: \${study.primaryIdentifier.value}

 $To\ access\ ca AERS,\ see\ https://sbdev1000.semanticbits.com: 8031/caaers/public/login.$ 

Thank you,

Message caAERS Notification System

CTEP 24 Hour SAE Notification

Hour 0

Recipients

email

Reporter role

Subject line CTEP 24 Hour SAE Notification has been created in sb demo

patientld: \${patientld} reportURL: \${reportURL}

study.shortTitle: \${study.shortTitle}

study.primaryldentifier.value: \${study.primaryldentifier.value} Message

10 Day Report Submission to AdEERS

Day

Recipients

email

Reporter role

10 Calendar Day Report for \${patientId} on \${study.primaryIdentifier.value} (DCP study) initiated in

Subject line caAERS

This is a system generated email. Please do not respond to this email.

A 10 Calendar report has been initiated in caAERS.

The 10 Calendar Day report must be completed and sent to DCP, NCI within 10 Calendar Days of knowledge of the AE. This report is accessible in caAERS via the 'Manage Reports' pathway.

To retrieve the report enter the exact combination of the Study and Subject. It is very important to save this information for every report created. Print this page and keep it as a reference.

Subject Id: \${patientId}

Study Short Title: \${study.shortTitle}

Study Primary Identifier: \${study.primaryIdentifier.value}

To access caAERS, see https://sbdev1000.semanticbits.com:8031/caaers/public/login.

Thank you,

caAERS Notification System Message

Report to NCI N	ledical Monitor & CCSA
•	0
	Departure
roie Subject line	Reporter Notification: Expedited AE Report Due for \${patientId} on \${study.primaryIdentifier.value}
	MESSAGE FROM CAAERS REGARDING \${study.primaryIdentifier.value}
	An AE requiring expedited reporting to NCI DCP has been entered into the caAERS system.
	Actions You Must Take:
	WITHIN 24 HOURS, notify by Phone or Fax the Medical Monitor and/or CCSA. Call 1-800-555-5555 to report the event or Fax a report to 1-555-555-5599 WITHIN 48 HOURS, submit the NCI DCP SAE form to Medical Monitor and CCSA.
	Information about the Trial and Subject:
	Study Title: \${study.shortTitle} Study ID: \${study.primaryIdentifier.value} Patient ID: \${patientId}
	For assistance, please contact the Medical Monitor or CCSA representative at DCPreportHelp@testemail.com or 1-555-555-5555.
Message	Thank you, The caAERS Notification System
	24
email	
role Subject line	Reporter 48 Hour SAE Report is Due for \${patientId} on \${study.primaryIdentifier.value}
	MESSAGE FROM CAAERS REGARDING \${study.primaryIdentifier.value}
	An AE requiring expedited reporting to NCI DCP was entered into the caAERS system 24 hours ago.
	Actions You Must Take:
	If you have not done so already, immediately notify by Phone or Fax the Medical Monitor and/or CCSA.  Call 1-800-555-5555 to report the event or Fax a report to 1-555-555-5599
	By this time tomorrow, submit the NCI DCP SAE form to Medical Monitor and CCSA.  Information about the Trial and Subject:
	mornation about the mar and oubject.
	Study Title: \${study.shortTitle} Study ID: \${study.primaryIdentifier.value} Patient ID: \${patientId}
	For assistance, please contact the Medical Monitor or CCSA representative at DCPreportHelp@testemail.com or 1-555-555-5555.
Message	Thank you, The caAERS Notification System
-	email role Subject line  Message  email role Subject line

#### Configuring\_caAERS

- The second tab provides the notifications we've set up for the reports.
- The file displays the information for the AdEERS staging system. To submit an expedited report to this site, the study must already be entered in the staging system. To have this done, contact?
- Some of the information listed in the spreadsheet is suggested data while other sections are 100% define. View the page/section column to determine what can be modified (Delivery Details for example) and what must be entered as displayed (Mandatory Fields for example).

In addition, if your organization has other reporting requirements, you can use the spreadsheet as a reference sheet to help configure the report definitions.

To configure reporting definitions:

- 1. Log in to caAERS using an account with access to the Administration area
- 2. Go to rules
- 3. Select List Reporting Definitions
- 4. Select a Report and modify the information

#### CaAERS\_Checklist

The following is the checklist of items that need to be taken care of when you have two instances of caaers running on two seperate tomcats in the same machine:

1. Make sure the DB schema names are distinct. For example:

```
*caaers_demo" for demo
*caaers_dev" for dev
```

- 2. Make sure you restore the from the correct version of DB to pre-populate the DB.
- 3. Change datasource.properties to reflect the DB name. For example:

```
*datasource.url=jdbc:postgresql://10.10.10.220:5432/caaers_demo for demo a *datasource.url=jdbc:postgresql://10.10.10.220:5432/caaers_dev for dev
```

4. Change csm\_jaas.config to reflect the DB name. For example:

```
*url="jdbc:postgresql://10.10.10.220:5432/caaers_demo" for demo and *url="jdbc:postgresql://10.10.10.220:5432/caaers_dewo" for dev.
```

5. Set the correct folder name for tomcat. For example:

```
*C:\QA\tomcats\caaers\postgres-caaers-tomcat-demo for demo and, 
*C:\QA\tomcats\caaers\postgres-caaers-tomcat-dev for dev.
```

6. Change/add the following line in catalina.bat:

```
*set CATALINA_HOME=C:\QA\tomcats\caaers\postgres-caaers-tomcat-demo for de *set CATALINA HOME=C:\QA\tomcats\caaers\postgres-caaers-tomcat-dev for dev
```

7. change/add the following line in startup.bat:

```
*title caAERS-Tomcat-Postgres-demo for demo and, 
*title caAERS-Tomcat-Postgres-dev for dev.
```

- 8. Change/ add the following lines in refresh script:
  - for demo:

```
set TOMCAT_HOME=C:\QA\tomcats\caaers\postgres-caaers-tomcat-demo
taskkill /F /FI "WINDOWTITLE eq caAERS-Tomcat-Postgres-demo" /T
```

• for dev:

```
set TOMCAT_HOME=C:\QA\tomcats\caaers\postgres-caaers-tomcat-dev
taskkill /F /FI "WINDOWTITLE eq caAERS-Tomcat-Postgres-dev" /T
```

In addition, depending on the version of caAERS, you may need to call maven [caAERSv1.1.3] or ant [caAERSv1.3] to build caaers.

#### CaAERS\_Checklist

- 9. Change the port numbers in server.xml. For demo and dev: [the bolded text should be different for each version of caaers]
  - \* <Server port="8005" shutdown="SHUTDOWN">
  - \* <Connector acceptCount="100" connectionTimeout="20000" disableUploadTime
    enableLookups="false" maxHttpHeaderSize="8192" maxSpareThreads="75" maxThr
    port="8080" redirectPort="8443"/>
  - \* <Connector port="8443" maxHttpHeaderSize="8192" maxThreads="150" minSpar maxSpareThreads="75" enableLookups="false" disableUploadTimeout="true" acc secure="true" clientAuth="false" sslProtocol="TLS" />
- 10. Change debug port in catalina.bat:

```
set DEBUG OPTS=-Xdebug -Xrunjdwp:transport=dt socket,address=9999,server=y
```

11. Set up distinct rules folders in datasource.properties file. For example:

```
*rules.repository=file://C:/rules_repo/postgres/demo for demo and, 
*rules.repository=file://C:/rules_repo/postgres/dev for dev
```