

CAMEO --- TEAM SERVERTM

user guide
version 17.0.1

No Magic, Inc.
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1 GETTING STARTED

Cameo Team Server allows collaborative working on metamodels and models in Cameo Suite. Being a single repository for all Cameo clients, it delivers identical functionality and work principles to all of the clients using it. Cameo Team Server forms a base for integrating different models from different clients as all models reside in a single repository.

Each Cameo Team Server client has a built-in Cameo Team Server support. To be able to connect to the server, you need to install it from a separate installation file and configure it on a specific port. There are three types of software that can be distinguished in Cameo Suite: Cameo Team Server, Cameo Team Server Web Client, and Client.

Cameo Team Server

Cameo Team Server is a server designated to store and manage shared schemas (metamodels) and models, users, and locks.

Cameo Team Server Web Client

Cameo Team Server Web Client is a GUI part of the server designated to manage schemas, models, users, and locks.

Client

A Client, for example, MagicDraw, is an application for editing local and shared schemas and models.

The clients connect to Cameo Team Server to retrieve projects and update them. Cameo Team Server manages the server storage and acts as a lock database, thus allowing the clients to acquire and release locks. Locks enable the clients to edit a model and merge it into a central repository without conflicts. To edit a project, the clients can lock the parts of the project they want to change, modify them, and commit the changes to the server. Cameo Team Server also provides an authentication scheme for the clients using a username and a password to validate a client.

When working with Cameo Team Server you can perform the following operations:

- Add a new MagicDraw project into the server or convert a local project to a server project and vice versa.
- Get the newest MagicDraw project version from the server (update a local project with new changes from the server).
- Lock the part of a project that you want to edit on the server. Once it has been locked, the other currently logged in users will get read-only access to this part. The parts of a project that are being modified will be automatically locked. You can also manually acquire locks for project parts.
- Commit changes to the server. After locking and editing information, you may commit the changes to the server, thus making them visible to the whole team. You can unlock a project or parts of it after committing the changes in order to allow the other users to edit new information.
- View all of the acquired locks in Lock View, which shows all of the locked project elements in a tree structure. You can browse from this tree to the normal repository tree. You can also selectively release some of the acquired locks.

Chapter “Getting Started with Cameo Team Server” contains the following sections:

- [System Requirements for Installing Cameo Team Server](#)

- [Installing Cameo Team Server](#)
- [Licensing Information](#)
- [Starting Cameo Team Server](#)
- [Stopping Cameo Team Server](#)
- [Documentation and Support](#)

1.1 System Requirements for Installing Cameo Team Server

To run Cameo Team Server, your system must meet the following requirements:

	Minimum	Recommended
CPU	2 GHz	3 GHz
Memory	2 GB RAM	4 GB RAM
Disk space	400 MB	2 GB
Java Virtual Machine (JVM)	JDK 1.6	JDK 1.6.0_24

Operating System

The server is based on Java platform and is interoperable with most operating systems, where the supported Java is running.

NOTE

Most testing procedures and bugging were performed on the following operating systems:

- Windows 2003
- Windows 2008
- Red Hat Enterprise Linux 6
- Mac OS X Snow Leopard or higher

Software

- JBoss 5.0.1
- JDK/JRE 1.6

Database

- Derby
- MySQL

1.2 Installing Cameo Team Server

This section will guide you through the Cameo Team Server installation procedure.

GETTING STARTED

Installing Cameo Team Server

To install Cameo Team Server

1. Run the Cameo Team Server installation file. The Cameo Team Server installation wizard opens.

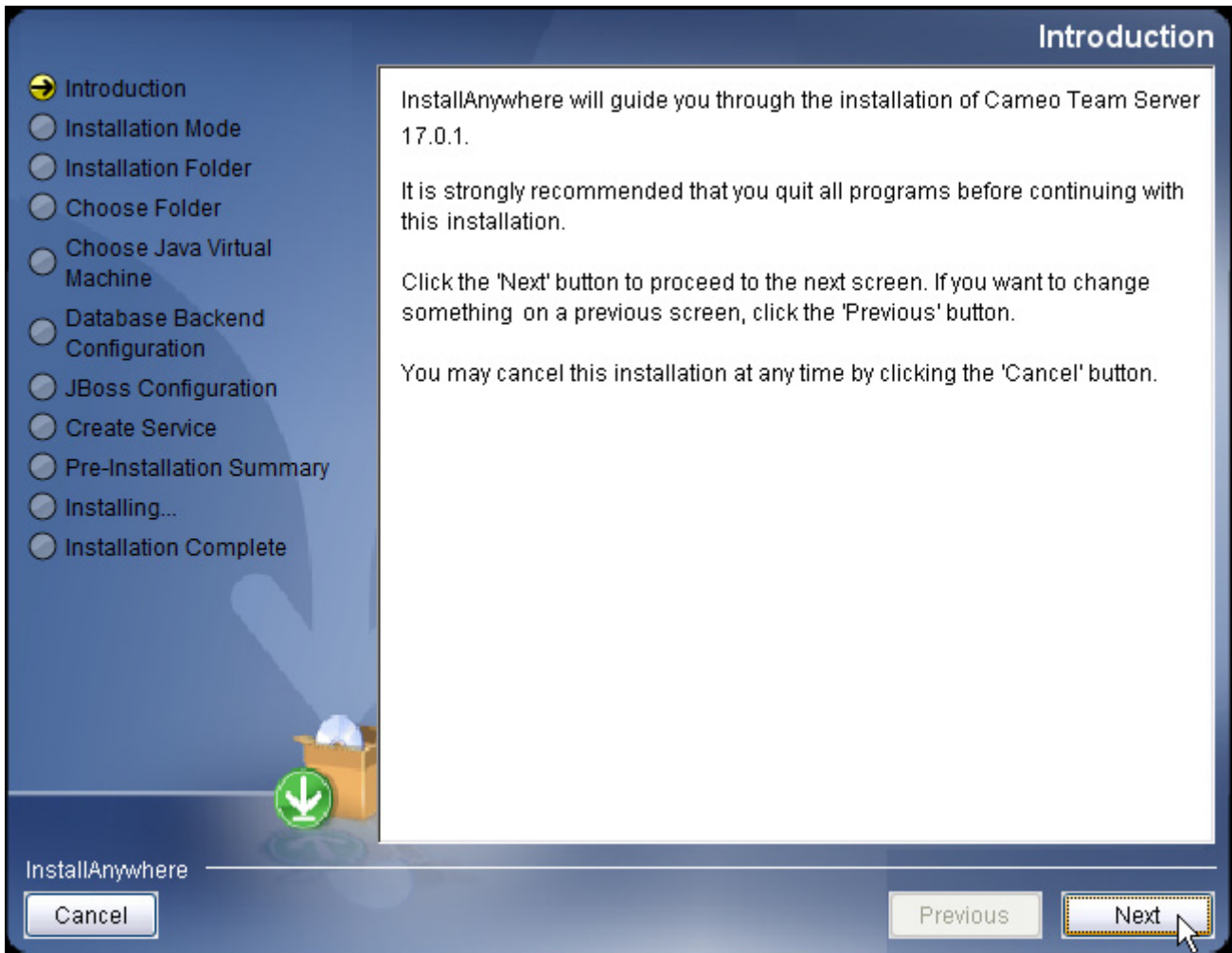


Figure 1 -- Cameo Team Server installation wizard. Introduction

2. Click **Next**. The **Installation Mode** page opens.

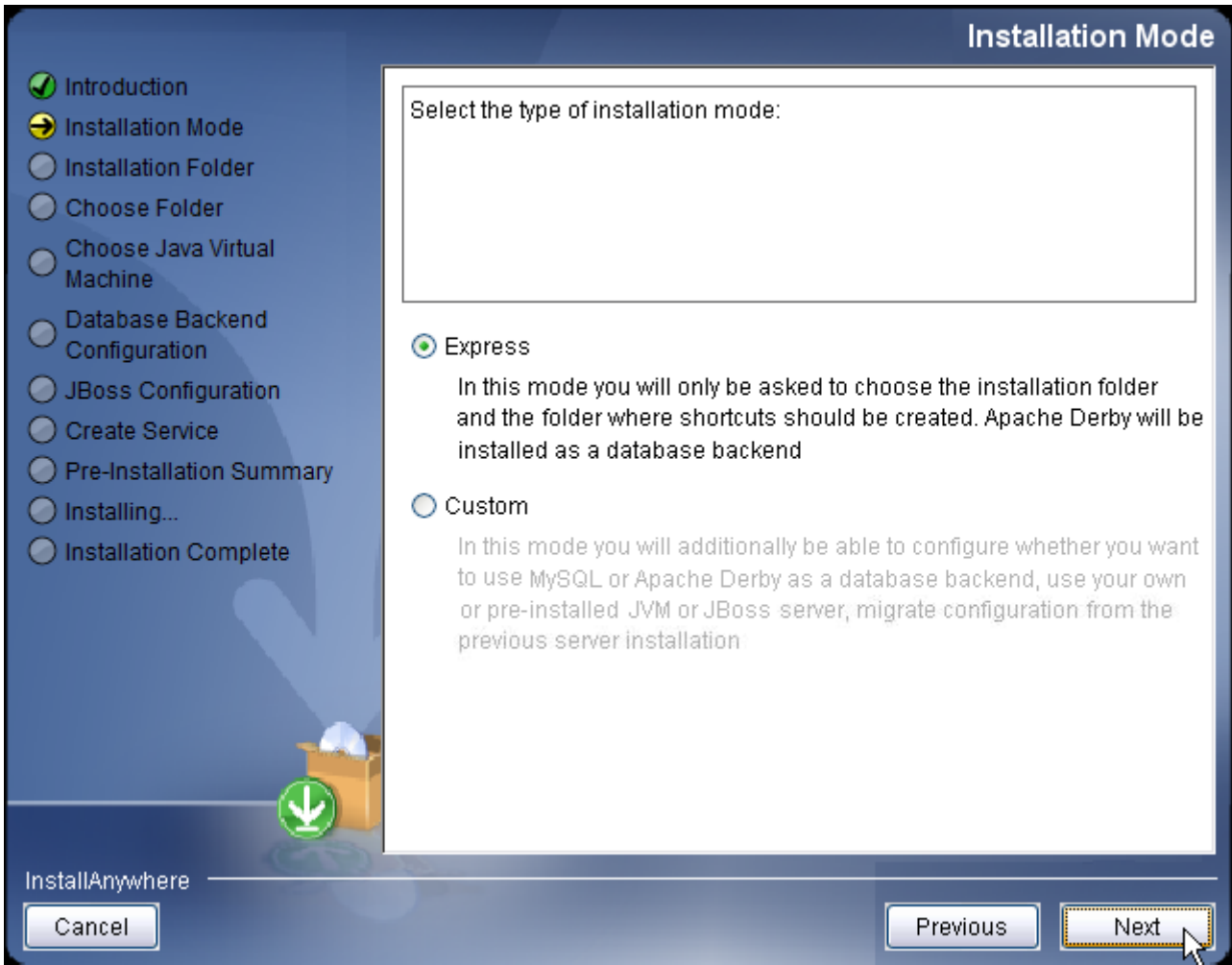


Figure 2 -- Cameo Team Server installation wizard. Choosing installation mode

3. Select the **Express** installation mode. This mode will ask you a few questions and will install the server with all the needed components. If you want to customize the installation or reuse the existing infrastructures, for example, select a different database backend or the preinstalled JVM or JBoss server, select the **Custom** installation mode.

NOTE

- The **Express** installation mode will automatically create a Windows service to run Cameo Team Server.
- If you do not want the Windows service to be created, choose the **Custom** installation mode and in the **Create Service** page, clear the **Create a Windows service for running Cameo Team Server** check box.

4. Click **Next**. The **Installation Folder** page opens.

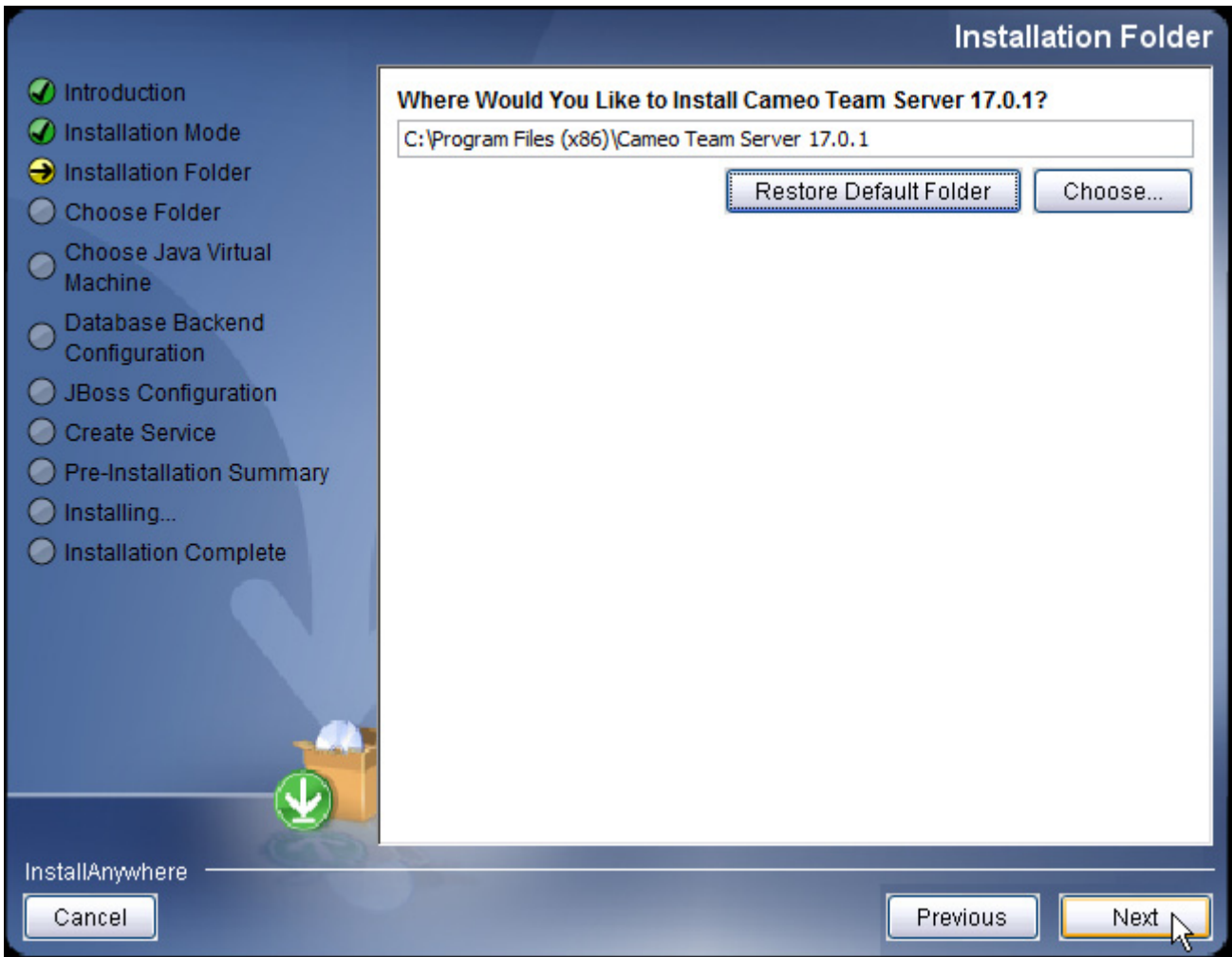


Figure 3 -- Cameo Team Server installation wizard. Choosing installation folder

5. Select a location to install Cameo Team Server.

6. Click **Next**. The **Choose Folder** page opens.

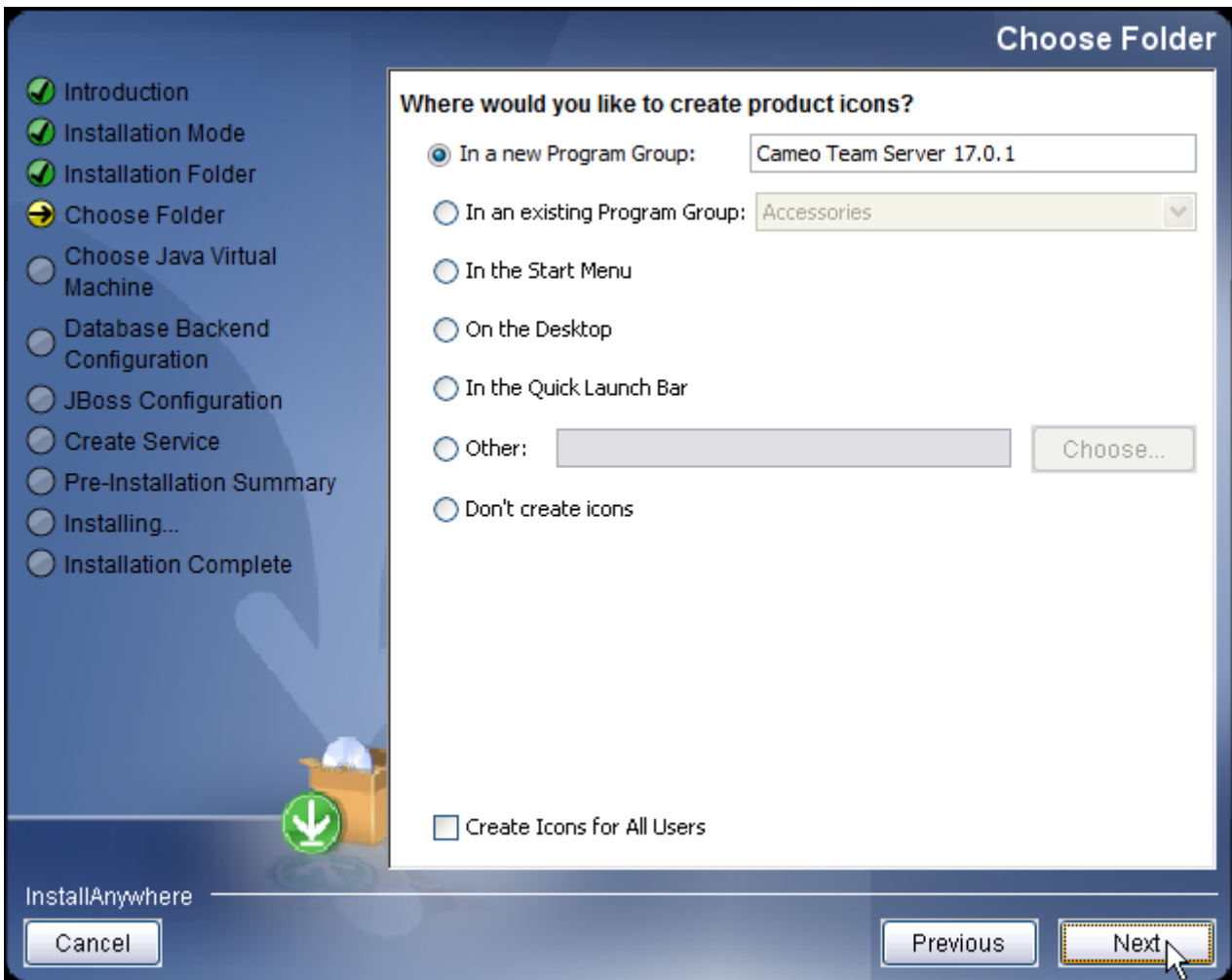


Figure 4 -- Cameo Team Server installation wizard. Choosing Cameo Team Server shortcut location

7. Select where you want to create the Cameo Team Server shortcut.

8. Click **Next** to proceed to the overview page. The **Pre-Installation Summary** page displays the installation details.

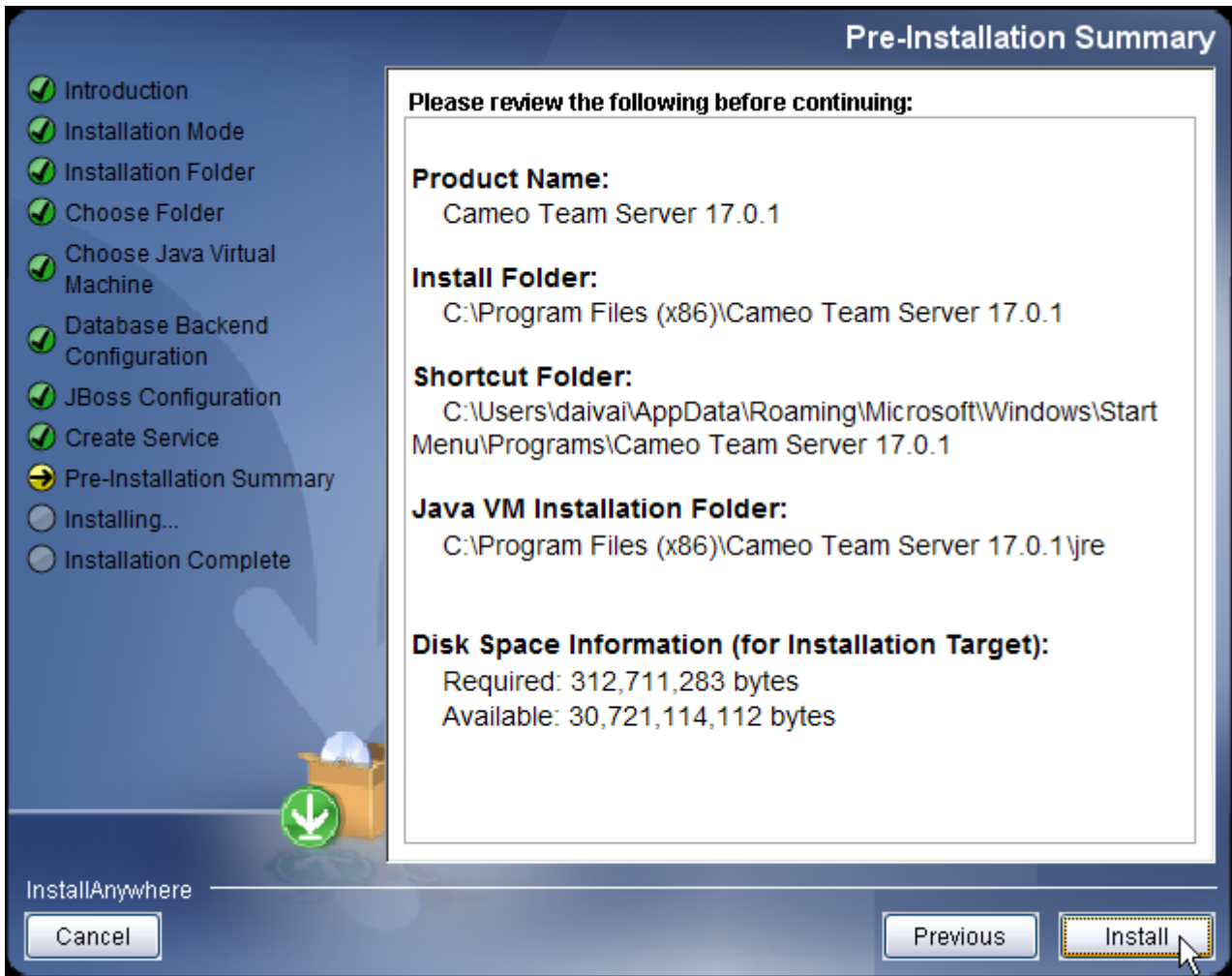


Figure 5 -- Cameo Team Server installation wizard. Pre-installation summary

9. Click **Install** to install Cameo Team Server.

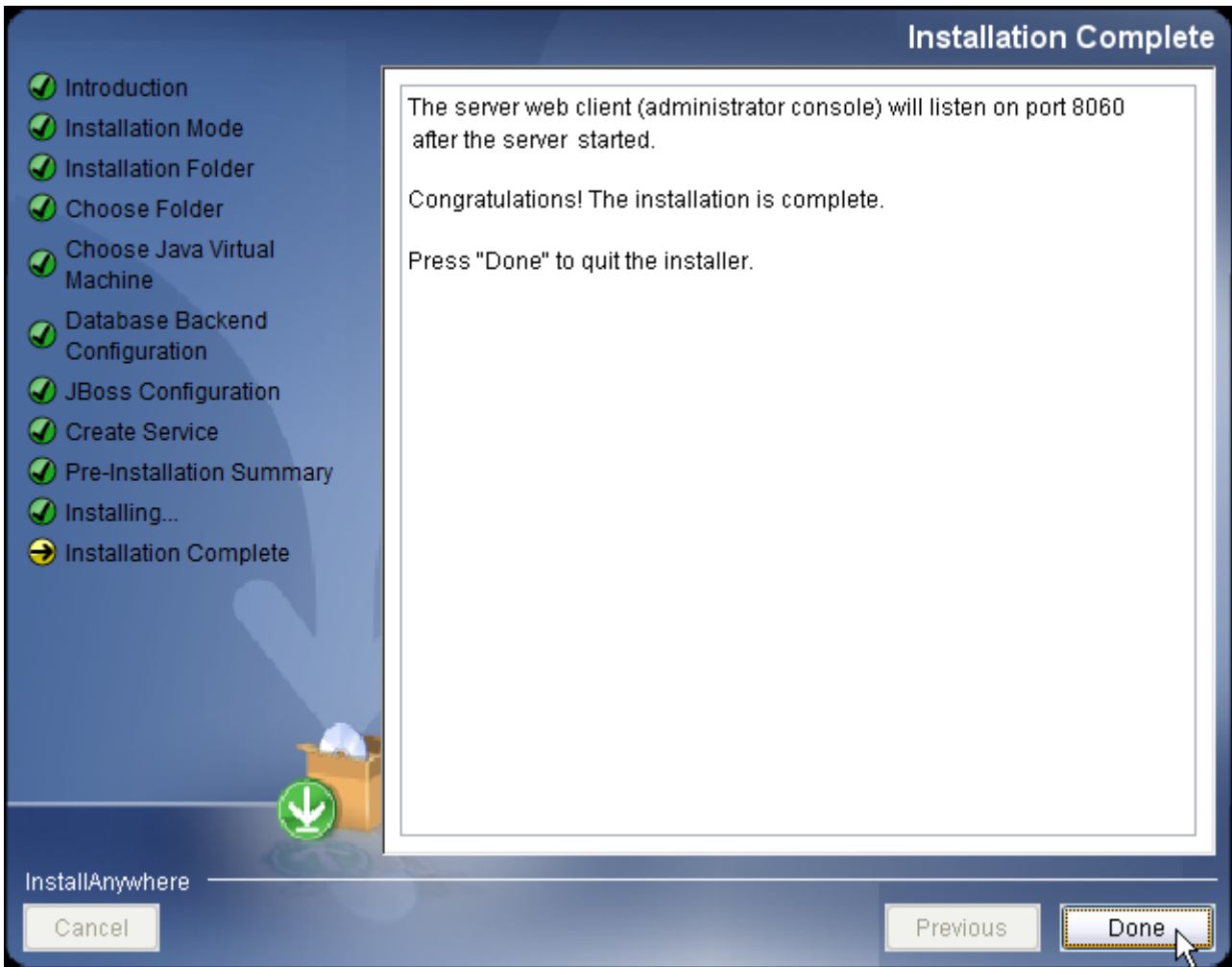


Figure 6 -- Cameo Team Server installation wizard. Installation has been completed

10. After the installation has been completed, click **Done**. The Cameo Team Server Installation wizard closes.

NOTE

- If you had selected the **Express** installation mode, a Windows service for running the server was created automatically.
- If you want to remove the service, perform the procedure [Removing service](#) described in Section [Running Server as Windows Service](#).

1.3 Licensing Information

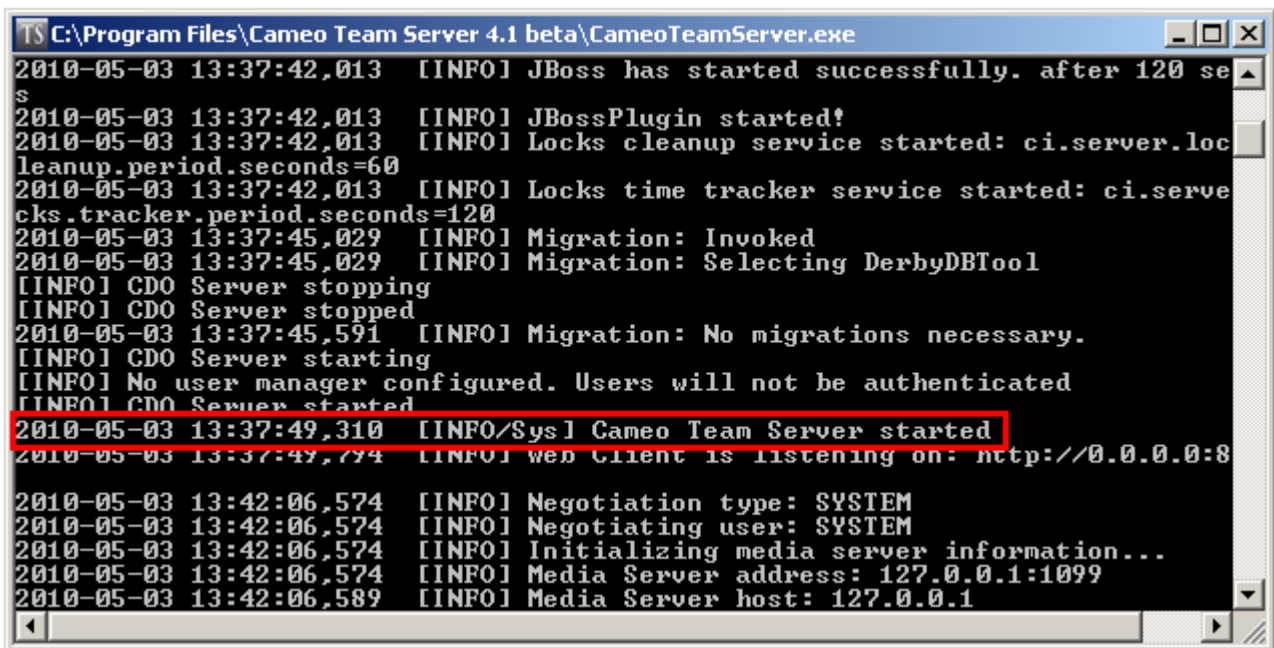
Cameo Team Server does not require any license to be installed and run. However, to be able to store meta-models and models in the server repository, a FLEXnet license for a specific client type must be supplied through the Web Client.

1.4 Starting Cameo Team Server

To start Cameo Team Server

1. Run the Cameo Team Server command-line interface.
Do one of the following:
 - On the **Start** menu, select **All Programs** > *<program_group>* > **Cameo Team Server <version_number>**.
 - On the **Start** menu, select **Cameo Team Server <version_number>**.
 - On the Quick Launch bar, click the **Cameo Team Server <version_number>** icon.
 - On the desktop, double-click the **Cameo Team Server <version_number>** icon.
 - On the other location that has been indicated on the Cameo Team Server installation, click the **Cameo Team Server <version_number>** icon.
2. Wait until the following message appears on the screen:
[INFO/Sys] Cameo Team Server started

NOTE The subsequent message on the screen shows upon which IP address and port the server's Web Client is listening. The default port is 8060.



```

TS C:\Program Files\Cameo Team Server 4.1 beta\CameoTeamServer.exe
2010-05-03 13:37:42,013 [INFO] JBoss has started successfully. after 120 se
s
2010-05-03 13:37:42,013 [INFO] JBossPlugin started!
2010-05-03 13:37:42,013 [INFO] Locks cleanup service started: ci.server.loc
leanup.period.seconds=60
2010-05-03 13:37:42,013 [INFO] Locks time tracker service started: ci.serv
cks.tracker.period.seconds=120
2010-05-03 13:37:45,029 [INFO] Migration: Invoked
2010-05-03 13:37:45,029 [INFO] Migration: Selecting DerbyDBTool
[INFO] CDO Server stopping
[INFO] CDO Server stopped
2010-05-03 13:37:45,591 [INFO] Migration: No migrations necessary.
[INFO] CDO Server starting
[INFO] No user manager configured. Users will not be authenticated
[INFO] CDO Server started
2010-05-03 13:37:49,310 [INFO/Sys] Cameo Team Server started
2010-05-03 13:37:49,774 [INFO] web client is listening on: http://0.0.0.0:8
060
2010-05-03 13:42:06,574 [INFO] Negotiation type: SYSTEM
2010-05-03 13:42:06,574 [INFO] Negotiating user: SYSTEM
2010-05-03 13:42:06,574 [INFO] Initializing media server information...
2010-05-03 13:42:06,574 [INFO] Media Server address: 127.0.0.1:1099
2010-05-03 13:42:06,589 [INFO] Media Server host: 127.0.0.1
  
```

Figure 7 -- Cameo Team Server command-line interface. Cameo Team Server has been started

1.5 Stopping Cameo Team Server

To stop Cameo Team Server

1. In the Cameo Team Server command-line interface, type `close`.
2. Wait until the following message appears on the screen:
[INFO/Sys] Cameo Team Server is shutting down
The command-line interface will close immediately after this message is displayed.

1.6 Documentation and Support

Cameo Suite Web site

For contact information and purchase details, go to <http://www.cameosuite.com/>.

New features

For information on Cameo Team Server new features, see New and Noteworthy at http://www.magicdraw.com/newandnoteworthy/cameo_team_server.

E-mail

- support@cameosuite.com - for suggestions and technical support.
- sales@cameosuite.com - for questions regarding academic and site discounts, invoices, and other related sales issues.

We look forward to your comments and suggestions. Your feedback will help us improve future versions of Cameo Team Server!

Other documentation

- **Cameo Team Server user guide**
"CameoTeamServer_UserGuide.pdf" can be found in <Cameo Team Server installation directory>\manual.
- **Cameo Team Server Web Client Help**
To open Cameo Team Server Web Client Help, click the Open Help button (a question mark symbol) on the Top bar of any Web Client page.
- **Viewlets**
You can find online demos under the **Cameo Team Server** section at <http://www.magicdraw.com/viewlets>.

Bug reports

Your bug reports are welcome at support@cameosuite.com. These reports allow us to fix bugs as soon as possible and release service packs for the product.

IMPORTANT! Please indicate the exact build number in your bug report. Note that the build number as well as the appropriate Cameo Team Server version number is displayed in the footer of each page in Web Client. You can also get the build number from the file name: <Cameo Team Server installation directory>\build_<build number>.txt.

2 SERVER CONFIGURATION

This chapter gives a list of procedures to configure Cameo Team Server according to your own needs.

The chapter “Server Configuration” includes the following sections:

- [Configuring Database Backend](#)
- [Configuring Ports](#)
- [NEW! Configuring SSL](#)
- [Running Cameo Team Server as Service/ Daemon](#)
- [Other Configuration Procedures](#)

2.1 Configuring Database Backend

In this section, you can find step-by-step instructions for changing the server’s database backend from Derby to MySQL and vice versa. You can also find out how to choose a database backend while you install Cameo Team Server.

This section includes the following procedures:

- [Changing Database Backend from Derby to MySQL](#)
- [Changing Database Backend from MySQL to Derby](#)
- [Choosing MySQL Database Backend on Cameo Team Server Installation](#)

2.1.1 Changing Database Backend from Derby to MySQL

To change a database backend from Derby to MySQL

1. Download the MySQL driver from the following site: [MySQL driver download](#).
2. Rename the “com.springsource.com.mysql.jdbc-5.1.6.jar” file to “com.springsource.com.mysql.jdbc_5.1.6.jar”.
3. Copy the file into the following directories:
 - <Cameo Team Server installation folder>\plugins\com.nomagic.com.mysql.jdbc.
 - <Cameo Team Server installation folder>\jboss-5.0.1.GA\server\default\lib.
4. Go to <Cameo Team Server installation folder>\plugins\com.nomagic.com.mysql.jdbc\META-INF and open *MANIFEST.MF*.
5. In *MANIFEST.MF*, replace @customJarFile@ near the Bundle-Classpath property with the MySQL driver file name com.springsource.com.mysql.jdbc_5.1.6.jar.
6. Go to <Cameo Team Server installation folder>\configuration and open *cdo-server.xml*.
7. In *cdo-server.xml*, make the following changes:
 - 7.1 Comment dbAdapter with name="derby-embedded".
 - 7.2 Uncomment dbAdapter with name="mysql" and change the MySQL database address, port, username, and password.

8. Copy *cameo-media-server-ds.xml* from <Cameo Team Server installation folder>\samples\configuration\MySQL to <Cameo Team Server installation folder>\jboss-5.0.1.GA\server\default\deploy.
9. In *cameo-media-server-ds.xml*, change the MySQL database address, port, username, and password.
10. Remove *cameo-media-server-derby-ds.xml* from <Cameo Team Server installation folder>\jboss-5.0.1.GA\server\default\deploy.
11. Go to <Cameo Team Server installation folder> and open *CameoTeamServer.ini*.

NOTE To open *CameoTeamServer.ini* on Mac OS, go to <Cameo Team Server installation folder>/CameoTeamServer.app/Contents/MacOS.

12. Add the following line to the beginning of *CameoTeamServer.ini*:
-clean

Related procedures

[Changing Database Backend from MySQL to Derby](#)

2.1.2 Changing Database Backend from MySQL to Derby

To change a database backend from MySQL to Derby

1. Go to <Cameo Team Server installation folder>\configuration and open *cdo-server.xml*.
2. In *cdo-server.xml*, make the following changes:
 - 2.1 Comment dbAdapter with name="mysql".
 - 2.2 Uncomment dbAdapter with name="derby-embedded".
3. Copy *cameo-media-server-derby-ds.xml* from <Cameo Team Server installation folder>\samples\configuration\Derby to <Cameo Team Server installation folder>\jboss-5.0.1.GA\server\default\deploy.
4. Remove *cameo-media-server-ds.xml* from <Cameo Team Server installation folder>\jboss-5.0.1.GA\server\default\deploy.

Related procedures

[Changing Database Backend from Derby to MySQL](#)

2.1.3 Choosing MySQL Database Backend on Cameo Team Server Installation

To choose the MySQL database backend on Cameo Team Server installation

1. Run the Cameo Team Server installation file.
2. Under **Installation Mode**, select **Custom**.
3. Under **Database Backend Configuration**, select **Choose MySQL installation to use**.
4. Provide the information about the MySQL database backend configuration.

NOTE It is highly recommended to test if the current MySQL configuration allows connecting to the MySQL server successfully.

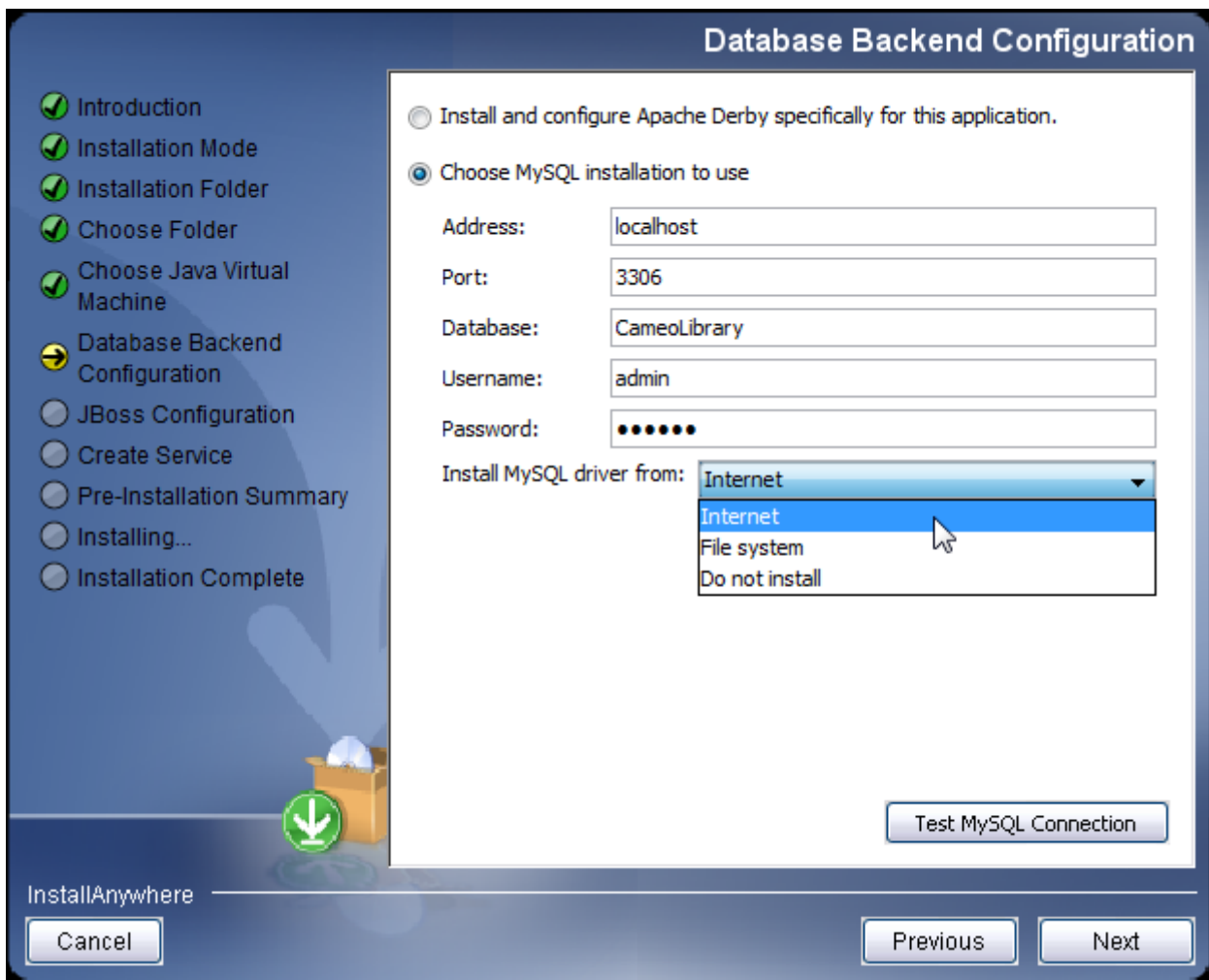


Figure 8 -- Choosing MySQL database backend on Cameo Team Server installation

Related procedures

[Installing Cameo Team Server](#)

2.2 Configuring Ports

In this section, you can find the instructions to change the server's access ports.

The section "Configuring Ports" includes the following procedures:

- [Changing Default Cameo Team Server Web Client Port](#)
- [Changing Cameo Team Server Port](#)

2.2.1 Changing Default Cameo Team Server Web Client Port

To change the default port (8060) on which the Web Client listens

1. Go to <Cameo Team Server installation folder>\jboss-5.0.1.GA\server\default\deploy\jboss-web.sar and open *server.xml*.

2. Change the port number in the following line:

```
Connector protocol="HTTP/1.1" port="8060".
```

NOTE

If you have changed the web cpnsole port, the port-sets feature of JBoss will not work.

2.2.2 Changing Cameo Team Server Port

Cameo Team Server consists of two separate servers: CDO and JBoss. Cameo Team Server access port is the default JBoss Java naming port (1099), and therefore changing the default JBoss port will also alter the Cameo Team Server port.

The section “Changing Cameo Team Server port” includes the following procedures:

- [Changing JBoss server port](#)
- [Changing CDO server port](#)
- [Activating JBoss JMX console](#)

2.2.2.1 Changing JBoss server port

To change the default JBoss server port (1099)

1. Go to <Cameo Team Server installation folder>\jboss-5.0.1.GA\server\default\conf\bootstrap and open *bindings.xml*.
2. Change the port number in the following lines:

```
<!-- Naming Service -->
<bean class="org.jboss.services.binding.ServiceBindingMetadata">
  <property name="serviceName">jboss:service=Naming</property>
  <property name="bindingName">Port</property>
  <property name="port">1099</property>
</bean>
```
3. Go to <Cameo Team Server installation folder>\configuration and open *cameoserver.properties*.
4. In *cameoserver.properties*, change the port number in the following line:

```
java.naming.provider.url=localhost:1099.
```
5. Start Cameo Team Server.
6. Activate JBoss JMX console.
7. Select **cameo.server.configurator > service=EndpointLocator**.
8. In the **mediaServerAddress** attribute value “127.0.0.1:1099”, change the port number.

9. Click **Apply Changes**.

Object Name Filter

[Remove Object Name Filter](#)

- [JMImplementation](#)
- **[cameo.server.configurator](#)** 7
- [com.ariuna.ats.properties](#)
- [jboss](#)
- [jboss.admin](#)
- [jboss.alerts](#)
- [jboss.aop](#)
- [jboss.cache](#)
- [jboss.classloader](#)
- [jboss.deployment](#)
- [jboss.ejb](#)
- [jboss.j2ee](#)
- [jboss.jacc](#)
- [jboss.ica](#)
- [jboss.jdbc](#)
- [jboss.imx](#)
- [jboss.management.local](#)
- [jboss.messaging](#)
- [jboss.messaging.connectionfactory](#)
- [jboss.messaging.destination](#)
- [jboss.mq](#)
- [jboss.pojo](#)
- [jboss.remoting](#)

Name	Domain	cameo.server.configurator
	service	EndpointLocator
Java Class	org.jboss.mx.modelmbean.XMBean	
Description	Cameo Server Endpoint Locator Service	

Attribute Name	Access	Type	Description	Attribute Value
cdoRepositoryName	RW	java.lang.String	The name of the CDO Repository that will be used to store EMF data	repo1
cdoServerAddress	RW	java.lang.String	The CDO server url in the form server:port	127.0.0.1:2036
mediaServerAddress	RW	java.lang.String	The Media Server url in the form server:port	127.0.0.1:1099 8
9				Apply Changes

Figure 9 -- Fragment of JBoss JMX console. Changing default JBoss server port

Related procedures

- [Starting Cameo Team Server](#)
- [Activating JBoss JMX console](#)
- [Changing CDO server port](#)

Related web resources

<http://www.jboss.org/community/wiki/ConfigurePorts>

2.2.2.2 Changing CDO server port

To change the default CDO server port (2036)

1. Go to <Cameo Team Server installation folder>\configuration and open *cdo-server.xml*.
2. Change the port number in the following line: `<acceptor type="tcp" listenAddr="0.0.0.0" port="2036">`.
3. Start Cameo Team Server.
4. Activate JBoss JMX console.
5. Select **cameo.server.configurator** > **service=EndpointLocator**.
6. In the **cdoServerAddress** attribute value "127.0.0.1:2036", change the port number.

7. Click **Apply Changes**.

The screenshot shows the JBoss JMX console configuration for the 'cameo.server.configurator' service. On the left, a list of object names is shown, with 'cameo.server.configurator' selected and highlighted with a red box and a circled '5'. The main configuration area shows a table of attributes:

Name	Domain	Value
service	cameo.server.configurator	EndpointLocator
Java Class	org.jboss.mx.modelmbean.XMBean	
Description	Cameo Server Endpoint Locator Service	

Attribute Name	Access	Type	Description	Attribute Value
cdoRepositoryName	RW	java.lang.String	The name of the CDO Repository that will be used to store EMF data	repol
cdoServerAddress	RW	java.lang.String	The CDO server url in the form server:port	127.0.0.1:2036
mediaServerAddress	RW	java.lang.String	The Media Server url in the form server:port	127.0.0.1:1099

At the bottom right, there is an 'Apply Changes' button highlighted with a red box and a circled '7'. A circled '6' is also present next to the 'cdoServerAddress' value.

Figure 10 -- Fragment of JBoss JMX console. Changing default CDO server port

Related procedures

- [Starting Cameo Team Server](#)
- [Activating JBoss JMX console](#)
- [Changing JBoss server port](#)

2.2.2.3 Activating JBoss JMX console

To activate JMX console

1. Go to <Cameo Team Server installation folder>\jboss-5.0.1.GA\server\default\conf\props and open *jmx-console-users.properties*.
2. Uncomment the line:
admin=admin
3. Open JBoss JMX console: http://<SERVER_NAME>:8060/jmx-console/.
4. Log in to the console by typing "admin" both in the **User Name** and **Password** boxes.

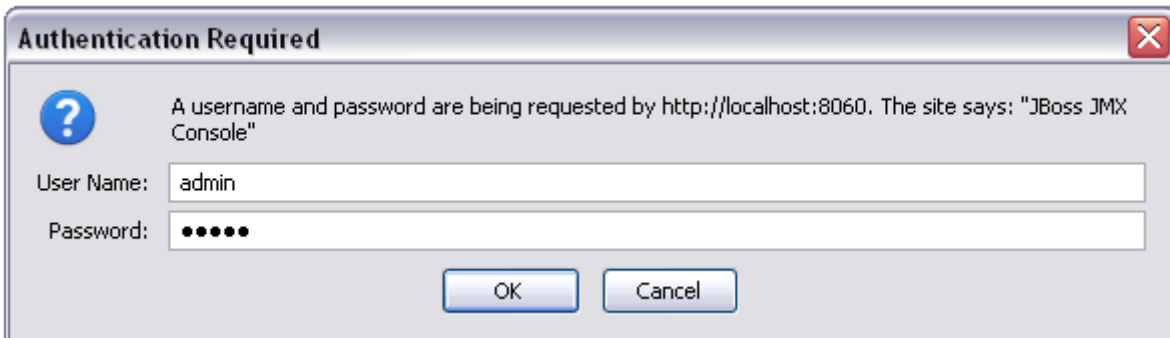


Figure 11 -- Logging in to the JBoss JMX console

Related procedures

- [Changing JBoss server port](#)

[Changing CDO server port](#)

2.3 NEW! Configuring SSL

You can configure SSL support in Cameo Team Server by modifying lines of code in the Cameo Team Server configuration file.

This section includes the following procedures:

- [Enabling SSL](#)
- [Disabling SSL](#)
- [Checking SSL status](#)

2.3.1 Enabling SSL

To enable SSL

1. Go to <Cameo Team Server installation folder>\configuration and open *cdo-server.xml*.
2. Locate the following lines in the file:

```
<acceptor type="tcp" listenAddr="0.0.0.0" port="2036">  
<negotiator type="cameoserver" description="users.txt"/>  
</acceptor>
```
3. Under the located lines, place the lines like as follows:

```
<acceptor type="ssl" listenAddr="0.0.0.0" port="2037">  
<negotiator type="cameoserver" description="users.txt"/>  
</acceptor>
```
4. Go to <Cameo Team Server installation folder> and open *CameoTeamServer.ini*.
5. In the file, add the following VM arguments about SSL configuration:

```
-Dorg.eclipse.net4j.tcp.ssl.passphrase=<KEY_PASS>  
-Dorg.eclipse.net4j.tcp.ssl.key=<KEYSTORE_URL>
```

TIP! For example:

```
-Dorg.eclipse.net4j.tcp.ssl.passphrase=ab987c  
-Dorg.eclipse.net4j.tcp.ssl.key=file:///C:/CameoTeamServer/  
SSLInformation/testKeys
```

6. According to your operating system, do the following:
 - For Windows operating system:
 - 6.1. Go to <Cameo Team Server installation folder>\jboss-5.0.1.GA\bin and open *run.bat* for editing.
 - 6.2. Locate in the file the following lines:

```
rem Ex. set JAVA_OPTS=%JAVA_OPTS% -  
Dcts.ssl.bind.address=%COMPUTERNAME% -Dcts.ssl.port=3843 -  
Dcts.ssl.keystore.url=<KEYSTORE_URL> -  
Dcts.ssl.keystore.pass=<KEY_PASS> -  
Djavax.net.ssl.trustStore=<KEYSTORE_URL> -  
Djavax.net.ssl.trustStorePassword=<KEY_PASS>
```

- 6.3 Remove `rem Ex.` and modify each variable value of SSL configuration (real IP address, port, keystore address, keystore password, trust store address, and trust store password).

TIP! For example:

```
set JAVA_OPTS=%JAVA_OPTS% -
Dcts.ssl.bind.address=%COMPUTERNAME% -
Dcts.ssl.port=3843 -Dcts.ssl.keystore.url=C:/ssl_log/
testKeys -Dcts.ssl.keystore.pass=ab987c -
Djavax.net.ssl.trustStore=C:/ssl_log/testKeys -
Djavax.net.ssl.trustStorePassword=ab987c
```

- For Linux or Mac OS operating systems:

- 6.1. Go to `<Cameo Team Server installation folder>/jboss-5.0.1.GA/bin/` and open `run.conf` for editing.

- 6.2 Locate in the file the following lines:

```
# Ex. JAVA_OPTS="$JAVA_OPTS -
Dcts.ssl.bind.address=$COMPUTERNAME -Dcts.ssl.port=3843 -
Dcts.ssl.keystore.url=<KEY_PASS> -
Dcts.ssl.keystore.pass=<KEY_PASS> -
Djavax.net.ssl.trustStore=<KEY_PASS> -
Djavax.net.ssl.trustStorePassword=<KEY_PASS>
```

- 6.3 Remove `# Ex.` and modify each variable value of SSL configuration (real IP address, port, keystore address, keystore password, trust store address, and trust store password).

TIP! For example:

```
JAVA_OPTS=%JAVA_OPTS% -
Dcts.ssl.bind.address=%COMPUTERNAME% -
Dcts.ssl.port=3843 -Dcts.ssl.keystore.url=/home/
rambir/ssl_log/testKeys -
Dcts.ssl.keystore.pass=ab987c -
Djavax.net.ssl.trustStore=/home/rambir/ssl_log/
testKeys -Djavax.net.ssl.trustStorePassword=ab987c
```

7. Go to `<Cameo Team Server installation folder>/jboss-5.0.1.GA/server/default/deploy` and open `ejb3-connectors-jboss-beans.xml`.
8. Enable JBoss SSL by uncommenting JBoss SSL Remoting Connector. For this you need to do the following:

- Remove `!--` from the following line:

```
<!--bean
name="jboss.remoting:type=Connector,transport=sslsocket${cts.ssl
.port},handler=ejb3"
class="org.jboss.remoting.transport.Connector">
```

- Remove `--` from the following line:

```
</bean-->
```

Related procedures

[Disabling SSL](#)

[Checking SSL status](#)

2.3.2 Disabling SSL

To disable SSL

1. Go to <CameoTeamServer installation folder>\configuration and open *cdo-server.xml*.
2. Modify the file in order to provide the TCP acceptor only by removing or commenting the SSL acceptor configuration like it is shown in the following example:


```
<acceptor type="tcp" listenAddr="0.0.0.0" port="2036">
<negotiator type="cameoserver" description="users.txt"/>
</acceptor>
<!--acceptor type="ssl" listenAddr="0.0.0.0" port="2037">
<negotiator type="cameoserver" description="users.txt"/>
</acceptor-->
```
3. Go to <CameoTeamServer installation folder> and open *CameoTeamServer.ini*.
4. Remove from the file the following VM arguments about SSL configuration:


```
-Dorg.eclipse.net4j.tcp.ssl.passphrase=<KEY_PASS>
-Dorg.eclipse.net4j.tcp.ssl.key=<KEYSTORE_URL>
```
5. According to your operating system, do the following:
 - For Windows operating system:
 - 5.1 Go to <Cameo Team Server installation folder>\jboss-5.0.1.GA\bin and open *run.bat* for editing.
 - 5.2 Insert *rem* in front of the SSL configuration line like for example:


```
rem set JAVA_OPTS=%JAVA_OPTS% -
Dcts.ssl.bind.address=%COMPUTERNAME% -Dcts.ssl.port=3843 -
Dcts.ssl.keystore.url=<KEYSTORE_URL> -
Dcts.ssl.keystore.pass=<KEY_PASS> -
Djavax.net.ssl.trustStore=<KEYSTORE_URL> -
Djavax.net.ssl.trustStorePassword=<KEY_PASS>
```
 - For Linux or Mac OS operating systems:
 - 5.1. Go to <Cameo Team Server installation folder>/jboss-5.0.1.GA/bin/ and open *run.conf* for editing.
 - 5.2 Insert *#* in front of the SSL configuration line like for example:


```
# JAVA_OPTS="$JAVA_OPTS -Dcts.ssl.bind.address=$COMPUTERNAME -
Dcts.ssl.port=3843 -Dcts.ssl.keystore.url=<KEYSTORE_URL> -
Dcts.ssl.keystore.pass=<KEY_PASS> -
Djavax.net.ssl.trustStore=<KEYSTORE_URL> -
Djavax.net.ssl.trustStorePassword=<KEY_PASS>
```
6. Go to <Cameo Team Server installation folder>\jboss-5.0.1.GA\server\default\deploy and open *ejb3-connectors-jboss-beans.xml*.
7. Disable JBoss SSL by commenting JBoss SSL Remoting Connector. For this you need to do the following:
 - Add "*!--*" after "<" in the following line:


```
<bean
name="jboss.remoting:type=Connector,transport=sslsocket${cts.ssl
.port},handler=ejb3"
```
 - Add "*--*" before ">" in the following line:


```
</bean>
```

Related procedures

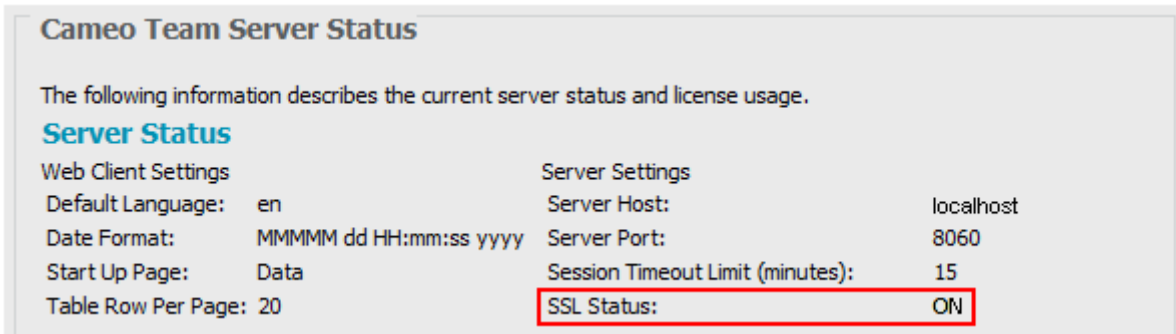
[Enabling SSL](#)

[Checking SSL status](#)

2.3.3 Checking SSL status

To see the SSL status in Cameo Team Server

1. Log in to Cameo Team Server Web Client.
2. In the Containment tree, click **Server**. The the Cameo Team Server Status page displaying the SSL status will open.



The screenshot shows the 'Cameo Team Server Status' page. It contains a table with two columns: 'Web Client Settings' and 'Server Settings'. The 'SSL Status' row is highlighted with a red border and shows the value 'ON'.

Web Client Settings		Server Settings	
Default Language:	en	Server Host:	localhost
Date Format:	MMMM dd HH:mm:ss yyyy	Server Port:	8060
Start Up Page:	Data	Session Timeout Limit (minutes):	15
Table Row Per Page:	20	SSL Status:	ON

Figure 12 -- SSL status in Cameo Team Server Status pane

Related procedures

- [Enabling SSL](#)
- [Disabling SSL](#)
- [Logging In](#)

Related references

- [Cameo Team Server Status](#)

2.4 Running Cameo Team Server as Service/ Daemon

This section will show you how to create, start, stop, and remove services to run Cameo Team Server on different operating systems, such as Windows, Mac OS, and Linux.

The section “Running Cameo Team Server as Service/ Daemon” contains the following subsections:

- [Running Server as Windows Service](#)
- [Running Server as Mac OS Daemon](#)
- [Running server as Linux daemon](#)

2.4.1 Running Server as Windows Service

You can create a Windows service to run Cameo Team Server if you have not created it yet during the server installation.

The section “Running the server as a Windows service” includes the following procedures:

- [Creating Windows service](#)
- [Starting and stopping service](#)
- [Running Windows service in pair with MySQL service](#)

- [Removing service](#)

2.4.1.1 Creating Windows service

The following procedure shows how to create a Windows service to run Cameo Team Server (in case you have not created one during the server installation (see Section [Installing Cameo Team Server](#)).

To create a Windows service

1. Go to <Cameo Team Server installation folder>\service and double-click *installService.bat*.
2. Wait until the command-line interface closes.

NOTE The service will be automatically started on the next OS startup.
If you want to start the service manually, see the procedure [Starting and stopping service](#).

Related procedures

[Running Windows service in pair with MySQL service](#)

2.4.1.2 Starting and stopping service

To start the Windows service

- Do one of the following:
 - Go to <Cameo Team Server installation folder>\service and double-click *startService.bat*.
 - Open the **Services** view in the Microsoft Management Console, right-click CameoTeamServer, and then select **Start**.

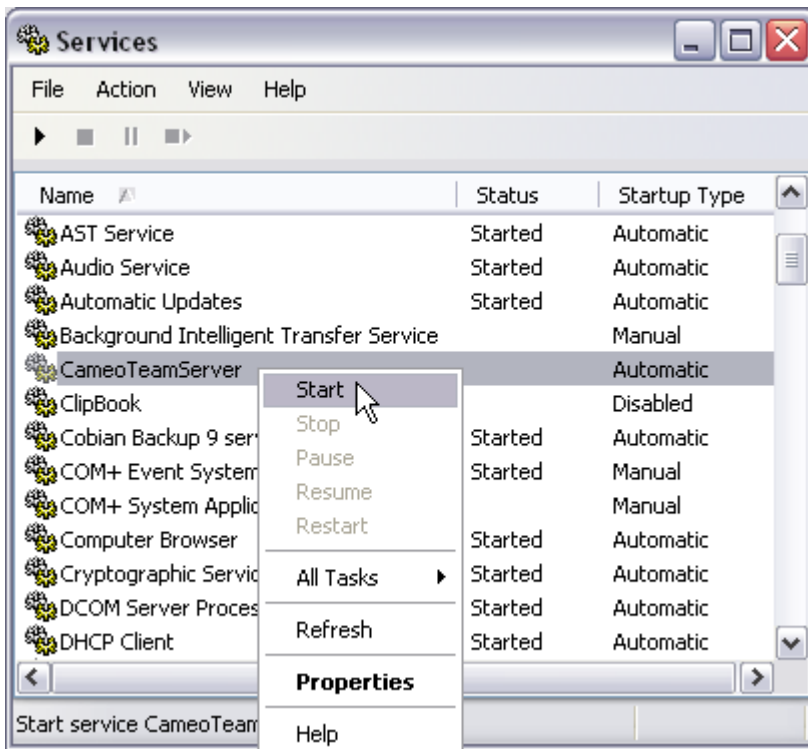


Figure 13 -- Starting Cameo Team Server as Windows service

To stop the Windows service

- Do one of the following:
 - Go to <Cameo Team Server installation folder>\service and double-click *stopService.bat*.
 - Open the **Services** view in the Microsoft Management Console, right-click CameoTeamServer, and then select **Stop**.

2.4.1.3 Running Windows service in pair with MySQL service

1. Stop and remove the currently running service.
2. Go to <Cameo Team Server installation folder>\service\conf and open the *wrapper.conf* file for edit.
3. Remove the comment from *wrapper.ntservice.dependency* property and assign the MySQL service name as a value for this property.
4. Save and close the file.
5. Create a new Windows service and start it.

Related procedures

[Creating Windows service](#)

[Removing service](#)

[Starting and stopping service](#)

2.4.1.4 Removing service

To remove the Windows service

1. Do one of the following:
 - Go to <Cameo Team Server installation folder>\service and double-click *uninstallService.bat*.
 - In the command-line interface, type `sc delete CameoTeamServer`.
2. Wait until the command prompt closes.

2.4.2 Running Server as Mac OS Daemon

This section gives the instructions how to create, start, stop, and remove a daemon to run Cameo Team Server on Mac OS.

The section “Running the server as a Mac OS daemon” includes the following procedures:

- [Creating Mac OS daemon](#)
- [Starting and stopping daemon](#)
- [Removing daemon](#)

2.4.2.1 Creating Mac OS daemon

To create a Mac OS daemon

1. Do one of the following:
 - Go to <Cameo Team Server installation folder>/service/ and copy the folder named CameoTeamServer to /Library/StartupItems/.

- Go to <Cameo Team Server installation folder>/service/ and execute the addCTSService script. This will copy the folder automatically.
2. Go to /Library/StartupItems/CameoTeamServer/ and open *CameoTeamServer*.
 3. In the file, change variable INSTALL_DIR value to the <Cameo Team Server installation folder> location.

IMPORTANT! To copy and edit the file, you must have the superuser rights.

NOTE The daemon will be automatically started on the next OS startup. If you want to start the daemon manually, see the procedure [Starting and stopping daemon](#).

2.4.2.2 Starting and stopping daemon

To start the daemon

- Execute the command: `SystemStarter start CameoTeamServer`

To stop the daemon

- Execute the command: `SystemStarter stop CameoTeamServer`

IMPORTANT! To execute these commands, you must have the superuser rights.

2.4.2.3 Removing daemon

To remove the daemon

- Do one of the following:
 - Go to /Library/StartupItems/ and remove the CameoTeamServer folder.
 - Go to <Cameo Team Server installation folder>/service/ and execute the removeCTSService script. This will remove the folder automatically.

IMPORTANT! To remove the folder, you must have the superuser rights.

2.4.3 Running server as Linux daemon

This section gives the instructions how to create a startup script to run Cameo Team Server on Debian Linux and how to start and stop the appropriate daemon. The instructions may vary depending on the Linux OS distribution and configuration on your machine.

The section “Running server as Linux daemon” includes the following procedures:

- [Creating Linux OS startup script](#)
- [Starting and stopping daemon](#)
- [Removing startup script](#)

2.4.3.1 Creating Linux OS startup script

To create a Linux OS startup script

1. Go to <Cameo Team Server installation folder>/service/ and copy the CameoTeamServer script to /etc/init.d/.

2. In `/etc/init.d/`, open `CameoTeamServer`.
3. Change the variable `INSTALL_DIR` value in the file to the <Cameo Team Server installation folder> location.
4. Define a run level for the Cameo Team Server startup script that matches your system run levels and the desired run level to run Cameo Team Server. For Debian, use the run level 2 by creating a soft link to the `CameoTeamServer` startup script file and placing it in `/etc/rc2.d`.
5. Change file system permissions of the startup script:

```
chmod 755 /etc/init.d/CameoTeamServer
```

NOTE The script will be automatically started on the next OS startup.
If you want to start the script manually, see the procedure [Starting and stopping daemon](#).

2.4.3.2 Starting and stopping daemon

To start the daemon

- Execute the command:

```
/etc/init.d/CameoTeamServer start
```

To stop the daemon

- Execute the command:

```
/etc/init.d/CameoTeamServer stop
```

IMPORTANT! Different Linux OS distributions may have their own script management systems.

2.4.3.3 Removing startup script

To remove the startup script

1. Go to `/etc/init.d/` and remove the `CameoTeamServer` script.
2. Remove the link from `/etc/rc2.d`.

2.5 Other Configuration Procedures

The section “Other Configuration Procedures” includes the following procedures:

- [Setting Up Cameo Team Server Behind Firewall \(NAT\)](#)
- [Using SSL with JBoss for Cameo Team Server Web Client](#)
- [Changing Default Server Session Expiration Time](#)
- [Resetting Administrator Password](#)

2.5.1 Setting Up Cameo Team Server Behind Firewall (NAT)

To set up Cameo Team Server behind the firewall

1. To access Cameo Team Server from the outside, open the following ports on the server firewall:
 - 1098 - to access from Cameo Team Server client.

- 1099 - to access from Cameo Team Server client.
 - 2036 - to access from Cameo Team Server client.
 - 3873 - to access from Cameo Team Server client.
 - 8083 - to access from Cameo Team Server client.
 - 8060 - to access from Cameo Team Server Web Client.
2. To return a correct host name of Cameo Team Server to the client application, go to <Cameo Team Server installation folder>\jboss-5.0.1.GA\bin and do either:
 - On Windows OS, open *run.bat* and uncomment the line:

```
set JAVA_OPTS=%JAVA_OPTS% -Djava.rmi.server.hostname=server-host-Dremoting.bind_by_host=false
```
 - On Linux OS, open *run.conf* and uncomment the line:

```
JAVA_OPTS="$JAVA_OPTS-Djava.rmi.server.hostname=server-host-Dremoting.bind_by_host=false"
```
 3. Replace "server-host" with the name of the host that is accessible from the outside, where Cameo Team Server is running.
 4. On Windows OS, change the EJB3 invoker layer configuration. Open the file *./jboss-5.0.1.GA/server/default/deploy/ejb3-connectors-jboss-beans.xml* and change the line:

```
<parameter>
socket://{jboss.bind.address}:{port}
</parameter>
to
<parameter>
socket://multihome:{port}/
?homes={jboss.bind.address}&connecthomes=localhost!server-host
</parameter>
```

NOTE If the multiple instances of JBoss are running on the same machine, then it is necessary to open the required ports for all of the instances.

Related web resources

<http://www.jboss.org/community/wiki/ConfigurePorts>

2.5.2 Using SSL with JBoss for Cameo Team Server Web Client

To use SSL with JBoss for Cameo Team Server Web Client

1. Copy a keystore file to <Cameo Team Server installation folder>\jboss-5.0.1.GA\server\default\conf.
2. Go to <Cameo Team Server installation folder>\jboss-5.0.1.GA\server\default\deploy\jbossweb.sar\jbossweb.sar and open *server.xml*.
3. Comment the following line:

```
<Connector protocol="HTTP/1.1" port="8060"
address="{jboss.bind.address}" connectionTimeout="20000"
redirectPort="8443" />
```
4. Uncomment the following line:

```
<Connector protocol="HTTP/1.1" SSLEnabled="true"
port="8060" address="{jboss.bind.address}"
scheme="https" secure="true" clientAuth="false"
keystoreFile="{jboss.server.home.dir}/conf/<keystore-file>"
keystorePass="rmi+ssl" sslProtocol = "TLS" />
```
5. Replace "<keystore-file>" with the name of the keystore file that has been copied to <Cameo Team Server home>\jboss-5.0.1.GA\server\default\conf.
6. Replace "rmi+ssl" value to the <keystore-file> password.

7. Restart Cameo Team Server.

Related web resources

<http://docs.jboss.org/jbossas/jboss4guide/r1/html/ch9.chapt.html>, see section “9.3. Using SSL with the JBoss/Tomcat bundle”.

2.5.3 Changing Default Server Session Expiration Time

The default Cameo Team Server session expiration time is 30 minutes. This means that if the server does not get any notification from a client in the course of this time, the session will be closed and a license will be released for this client automatically.

You can change the session expiration time by passing the Java system property “ci.server.session.timeout.seconds” to JBoss server.

To change the default server session expiration time on Windows

1. Go to <Cameo Team Server installation folder>\jboss-5.0.1.GA\bin and open *run.bat* for editing.
2. Add the following option to the file:

```
set JAVA_OPTS=%JAVA_OPTS% -  
Dci.server.session.timeout.seconds=<expiration_time>
```

To change the default server session expiration time on Unix

1. Go to <Cameo Team Server installation folder>/jboss-5.0.1.GA/bin and open *run.conf* for editing.
2. Add the following option to the file:

```
JAVA_OPTS="$JAVA_OPTS -  
Dci.server.session.timeout.seconds=<expiration_time>"
```

IMPORTANT!

- The server session expiration time must be defined in seconds and must not be less than the client notification time. Otherwise, a client session will be closed before the server starts getting notifications from the client.
- The client notification time can be changed by passing the Java system property "ci.client.ping.time.seconds" to the client application. The default notification time is 60 seconds, but it may vary depending on the specific client.

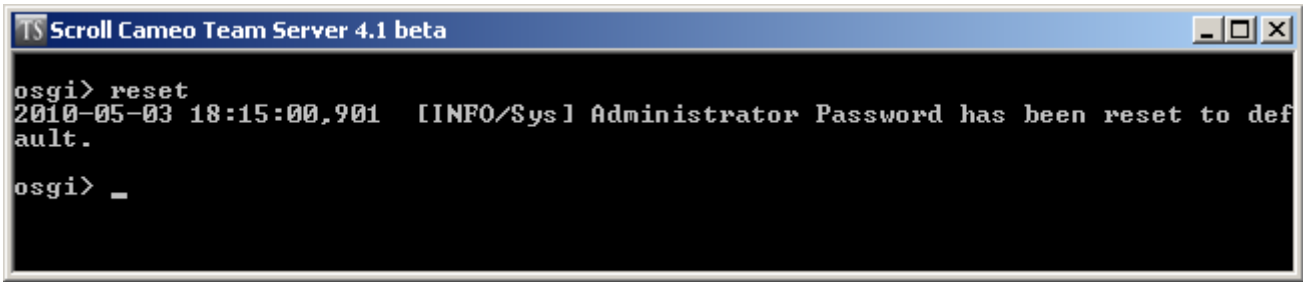
2.5.4 Resetting Administrator Password

To reset an Administrator password to the default one (“Administrator”)

1. In the Cameo Team Server command-line interface, type `reset`.

2. Wait until the following message appears on the screen:

[INFO/Sys] Administrator Password has been reset to default.



```
TS Scroll Cameo Team Server 4.1 beta
osgi> reset
2010-05-03 18:15:00,901 [INFO/Sys] Administrator Password has been reset to default.
osgi> _
```

Figure 14 -- Resetting Administrator password to default

3 CAMEO TEAM SERVER CONCEPTS

The chapter “Cameo Team Server Concepts” introduces the main responsibilities of Cameo Team Server and contains the following sections:

- [Generic Domain Model for Cameo Team Server](#)
- [Cameo Team Server Responsibilities](#)
- [NEW! LDAP Support](#)

3.1 Generic Domain Model for Cameo Team Server

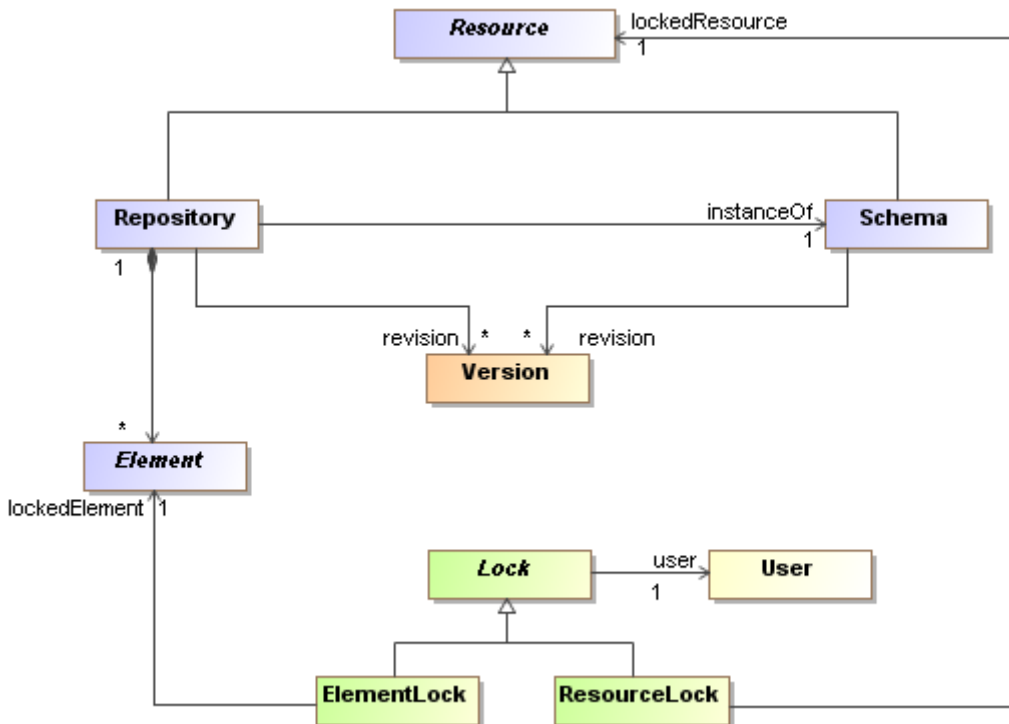


Figure 15 -- Generic domain model for Cameo Team Server

The Cameo Team Server domain model shown in the precede figure depicts the different classes that represent various concepts and elements:

- The blue and orange classes in the domain model represent the concepts used by the server repository. The blue classes represent the elements used by a client, for example, MagicDraw, and the repository as well. The orange class represents a versioning concept.
- The yellow class represents the authentication concept.
- Green classes represent concepts used by locking mechanisms.
- Both schemas and repositories will be referred to as resources.

Read more about Cameo Team Server concepts in Section [Cameo Team Server Responsibilities](#).

3.2 Cameo Team Server Responsibilities

Cameo Team Server consists of three components:

1. **Versioned repository**, which allows storing and retrieving allows versioning of the stored artifacts. For more information, read Section [Resource Versioning](#).
2. **User database**, which provides authentication services and serves as a storage for the users and their passwords. For more information, read Section [User Management](#).
3. **Lock database**, which enables resource and element locking. For more information, read Section [Lock Management](#).

All of the three components use a persistence engine to store actual data (resources, users, and locks) in a database management system (DBMS).

3.2.1 Resource Versioning

Cameo Team Server supports versioning of the stored artifacts.

The root of the storage is able to store MagicDraw projects.

When you commit changes, they will be detected and saved to the server as a new project version. Versioning means that the storage stores and saves the history of versioned artifacts. MagicDraw can access and open any project version in read-only mode.

Related references

[Version history](#)

3.2.2 User Management

Cameo Team Server supports simple user and password authentication. You can disconnect logged in users via Cameo Team Server Web Client.

Related procedures

[Logging In](#)

[Changing Password](#)

[Creating New User](#)

[Closing User Session](#)

Related references

[User List](#)

[User details](#)

[New User](#)

[Active Sessions](#)

3.2.3 Lock Management

Cameo Team Server serves as a lock database, which stores and provides information on the currently acquired element and schema locks.

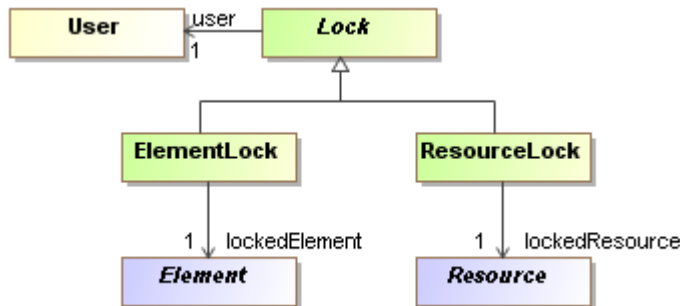


Figure 16 -- Domain model for locking in Cameo Team Server database

Cameo Team Server uses the following approaches to avoid conflicts:

1. You can lock or unlock elements or schemas.
2. Only one user can lock an element or schema at a time (see the *Lock* class and *user* role in the domain model).
3. You can only modify locked elements or schemas.
4. When unlocking a changed element or schema, you can either commit the to-be-unlocked elements or schema to the server or discard the changes on the to-be-unlocked elements or schema.

Cameo Team Server can release users' locks by using Cameo Team Server Web Client.

Cameo Team Server and MagicDraw support the so-called smart locks, which means that when a user tries to do something with a model or schema, all of the needed locks will be automatically acquired from Cameo Team Server. If that is not possible, the user will receive an error message. The user simply needs to perform his or her usual tasks and the system will inform him or her if it is not possible to edit something.

Related procedures

- [Releasing User Locks](#)
- [Releasing Resource Locks](#)
- [Releasing User Locks in the Resource](#)

Related references

- [Locks overview](#)
- [Locks By User](#)
- [Locks By Repository](#)
- [Locks By User and Resource](#)

3.3 NEW! LDAP Support

LDAP integration allows Cameo Team Server to authenticate the users against multiple LDAP servers. This integration enables pass-through MagicDraw authentication against LDAP servers by passing client's authentication information to LDAP servers.

LDAP Integration supports simple username and password authentication, SSL protocols, and several LDAP servers configured for a single integration.

LDAP Integration supports the Simple User+Password LDAP authentication method. User DN are retrieved by using an LDAP query.

Authentication using retrieved user DN performs in the following order:

1. A query template is filled-in with the login name entered by the user.
2. An anonymous bind or specific User DN and password is used to connect to the LDAP server.
3. The LDAP server is queried for User DN by using the query produced in the step #1, **Search Base**, and **Search Scope** settings' values.
4. The LDAP server returns User DN by the query.
5. Cameo Team Server disconnects from the LDAP server.
6. Cameo Team Server tries to login to LDAP using returned User DN and password supplied by the user during the login process

Cameo Team Server transforms user credentials entered in client to LDAP authentication credentials by using the templates in authentication settings. After successful authentication to LDAP, a special user for each authenticated LDAP user is created in Cameo Team Server. They differ from ordinary users as they have no passwords (in order to complete authentication, authentication to LDAP server(s) is used). You can perform various actions for these users, otherwise. It is possible to setup permissions, remove users, and do other common actions with users.

Authenticated users usually have an access to User DN attributes in the LDAP database. If the user information retrieval is enabled, and User DN attributes are accessible to the authenticated user, Cameo Team Server retrieves their values and sets them for the corresponding external users.

You can also create a proxy user account for Cameo Team Server automatically.

Related procedures

[NEW! LDAP Integration](#)

Related references

[NEW! LDAP Realm Settings](#)

[LDAP User List](#)

[Search Users in LDAP Server](#)

4 WORKING WITH WEB CLIENT

Cameo Team Server Web Client is a web application designed for managing and auditing Cameo Team Server storage.

You can use this application to perform the following administrative tasks:

1. Managing license keys for the server (a license is needed for every client type).
2. Managing users and their passwords (add, remove, or edit users, set passwords, or disconnect users from the server).
3. Managing projects (rename and remove projects).
4. Managing locks (search for the locks acquired by different users and release them).

This chapter introduces the main procedures that can be useful while working with Web Client:

- [Logging In](#)
- [Logging Out](#)
- [Uploading Licenses](#)
- [Changing Password](#)
- [Switching between Administrator and User Modes](#)
- [Creating New User](#)
- [Releasing Locks](#)
- [Closing User Session](#)
- [Editing Repositories](#)
- [Changing the Default Web Client Settings](#)
- [NEW! LDAP Integration](#)
- [Other Procedures](#)

4.1 Logging In

Logging in is necessary to connect to the server and access any available server functionality, such as managing repositories, users, or sessions, locking, and viewing server-related information.

You can access the Cameo Team Server administrative functions through a web browser. The default port is 8060.

To log in to Cameo Team Server Web Client

NOTE Only active user accounts (with granted login permission) can log in.

1. Open a web browser and type “http://localhost:8060” to connect to the Cameo Team Server Web Client.

2. If it is your first-time login after the Cameo Team Server installation, the License Agreement page will open.

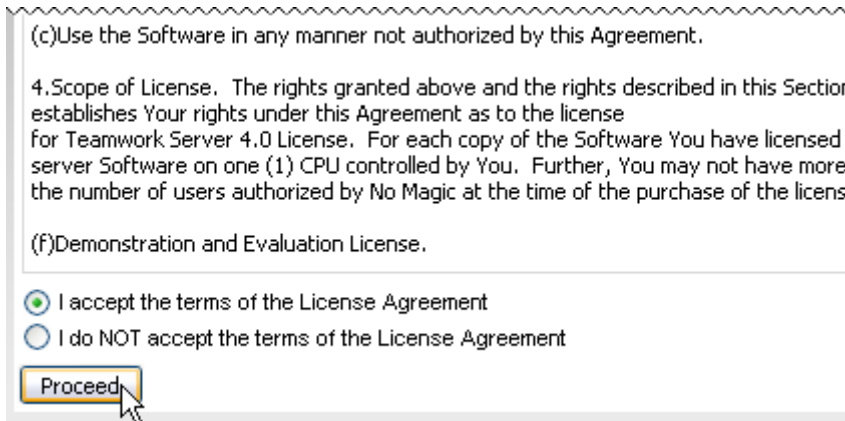


Figure 17 -- License Agreement page

3. Read the End-User License Agreement for Cameo Team Server Software.
4. Select **I accept the terms of the License Agreement** and click the **Proceed** button.

5. The Log In page will open.



Figure 18 -- Log In page

6. Enter the username and password.

NOTE The default username and password is "Administrator".

7. Click **Login**.

IMPORTANT! To prevent illegal access, it is strongly recommended to change the default Administrator's password.

Related concepts

[User Management](#)

Related procedures

[Changing Password](#)

4.2 Logging Out

Logging out terminates a user session. The session will also expire automatically after a certain period of inactivity (you can configure this setting in the server options). You can also be forcibly disconnected by the administrator.

To log out

1. Click the **Logout** button on the right-hand side of the Top bar.
2. Confirm your decision by clicking **Yes**. The session will be closed.

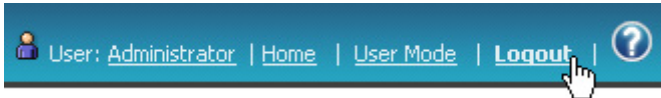


Figure 19 -- Logout button in the Top bar

Related references

[Top bar](#)

4.3 Uploading Licenses

To be able to store metamodels and models in the server repository, a FLEXnet license for a specific client type must be supplied through the Web Client.

Licenses are stored in the database with which Cameo Team Server is integrated.

NOTE You do not need a license to connect to the server through Web Client.

To upload a new license to Cameo Team Server

1. In the Containment tree, click **Licenses**.
2. Click the **Browse** button and select a *.lic* file.
3. Click the **Upload** button.
4. Wait until the message of successful license file upload appears.

NOTE The Cameo Licenses page is available only in the Administrator mode.

Related procedures

[Switching to Administrator Mode](#)

[Removing Licenses](#)

Related references

[Containment Tree](#)

[Cameo Licenses](#)

4.4 Removing Licenses

You can remove unused licenses from Cameo Team Server.

To remove a license to Cameo Team Server

1. In the Containment tree, click **Licenses**.
2. Click the **Remove** button in the selected license row.

NOTE The Cameo Licenses page is available only in the Administrator mode.

Related procedures

[Switching to Administrator Mode](#)

[Uploading Licenses](#)

Related references

[Containment Tree](#)

[Cameo Licenses](#)

4.5 Changing Password

Changing your account password is allowed in both the User and Administrator modes, though changing another user password is possible only in the Administrator mode.

To change a password

1. In the Containment tree, expand **Users** and click the login name of the user whose password you want to change.

TIP! If you are changing your user account password, on the Top bar, click **User: <Login name>**, for example, **User: john** or **User: Administrator**.

2. Type and retype a new password.

NOTE If you are changing your user account password, you have to type the old password as well.

3. Click **Submit**.
4. Wait until the message of successful user details update appears.

Related concepts

[User Management](#)

Related procedures

[Switching to Administrator Mode](#)

[Resetting Administrator Password](#)

Related references

[Top bar](#)

[User details](#)

4.6 Switching between Administrator and User Modes

There are some tasks that you can perform only in the Administrator mode. These tasks are as follows:

- Edit server options
- Manage licenses
- Edit and remove repositories from the server
- Manage other users
- Unlock the locks acquired by other users on model elements in resources
- View logs

You can switch easily from User mode to Administrator mode or vice versa.

This section includes the following procedures:

- [Switching to Administrator Mode](#)
- [Switching to User Mode](#)

4.6.1 Switching to Administrator Mode

To switch to the Administrator mode

- On the Top bar, click **Administrator Mode**.

Related procedures

[Switching to User Mode](#)

Related references

[Top bar](#)

[Containment Tree](#)

4.6.2 Switching to User Mode

To switch to the User mode

- On the Top bar, click **User Mode**.

Related procedures

[Switching to Administrator Mode](#)

Related references

[Top bar](#)

[Containment Tree](#)

4.7 Creating New User

To create a new user in Cameo Team Server

1. In the Containment tree, do one of the following:
 - Expand **Users** and click **Native**.
 - Click **Users**. On the **Realm List** page, click **Select** under **Native**.

The **User List** page opens.

2. On the Action bar, click **Create New User**.
3. Define the following information:
 - Enter the login name (mandatory).
 - Enter the user's full name (optional).
 - Select the user's account status (optional).

NOTE Clear the **Active** check box if you want to disable a user account. A user whose account has been disabled can neither log in to the Web Client, nor to a server's client.

- Enter a password (mandatory).
4. Click **Submit** when you are done.

NOTE The Action bar is available only in the Administrator mode.

Related concepts

[User Management](#)

Related procedures

[Switching to Administrator Mode](#)

[Adding LDAP User](#)

Related references

[Containment Tree](#)

[User List](#)

[New User](#)

4.8 Releasing Locks

You can release the locks acquired by other users on model elements in repositories.

This section includes the following procedures:

- [Releasing User Locks](#)
- [Releasing Resource Locks](#)
- [Releasing User Locks in the Resource](#)

4.8.1 Releasing User Locks

This procedure shows the steps for releasing all locks acquired by a selected user in all repositories.

To release all locks held by a user

1. Open the Locks By User: <Login Name> page.
2. On the Action bar, click the **Unlock All** button.
3. In the **Unlock All** dialog, click **Yes**.
4. Wait until the message of successful unlocking appears.

NOTE The Action bar is available only in the Administrator mode.

Related concepts

[Lock Management](#)

Related procedures

[Switching to Administrator Mode](#)

[Releasing Resource Locks](#)

[Releasing User Locks in the Resource](#)

Related references

[Locks By User](#)

4.8.2 Releasing Resource Locks

This procedure shows the steps for releasing all locks held by all users on the selected repository.

To release all locks held in a repository

1. Open the Locks By Repository: <Repository Name> page.
2. On the Action bar, click the **Unlock All** button.
3. In the **Unlock All** dialog, click **Yes**.
4. Wait until the message of successful unlocking appears.

NOTE The Action bar is available only in the Administrator mode.

Related concepts

[Lock Management](#)

Related procedures

[Switching to Administrator Mode](#)

[Releasing User Locks](#)

[Releasing User Locks in the Resource](#)

Related references

[Locks By Repository](#)

4.8.3 Releasing User Locks in the Resource

This procedure shows the steps for releasing all locks held by a selected user in a selected repository.

To release all locks held by a user in a repository

1. Open the Locks By User: <Login Name> and Resource: <Repository Name> page.
2. On the Action bar, click the **Unlock All** button.
3. In the **Unlock All** dialog, click **Yes**.
4. Wait until the message of successful unlocking appears.

NOTE The Action bar is available only in the Administrator mode.

Related concepts

[Lock Management](#)

Related procedures

[Switching to Administrator Mode](#)

[Releasing User Locks](#)

[Releasing Resource Locks](#)

Related references

[Locks By User and Resource](#)

4.9 Closing User Session

You can close any session, including your own.

To close a user session

1. In the Containment tree, click **Sessions**.
2. In the **Actions** column of the appropriate session row, click the **Close** button.
3. In the **Session close** dialog, click **Yes**.

IMPORTANT!

- If you close your own session, you will be logged out from the server.
- If you close another user's session, this may result in the user's data loss if the user has not yet committed his/her changes to the server.

NOTE The **Action** column is available only in the Administrator mode.

Related concepts

[User Management](#)

Related procedures

[Switching to Administrator Mode](#)

Related references

[Containment Tree](#)

[Active Sessions](#)

4.10 Editing Repositories

You can edit repositories by the instructions given in the following procedures:

- [Changing the Name and Description of Repository](#)
- [Removing Repository](#)

4.10.1 Changing the Name and Description of Repository

To change the name and description of repository

1. In the Containment tree, do one of the following:
 - Expand **Data** and click **MagicDraw Projects**.
 - Click **Data**. On the Resources page, click **Select** under **MagicDraw Projects**.

The Repository List page opens.

2. To edit the repository, do one of the following:
 - Click the repository you want to edit name.
 - Click the **Edit** button next to the repository you want to edit.

The page of selected repository opens.

3. Rename the repository and type the repository description.
4. Click **Submit** when you are done.

Related references

- [Repository details](#)
- [Repository List](#)
- [Containment Tree](#)
- [Resources](#)

4.10.2 Removing Repository

To remove the repository

1. In the Containment tree, do one of the following:
 - Expand **Data** and click **MagicDraw Projects**.
 - Click **Data**. On the Resources page, click **Select** under **MagicDraw Projects**.

The Repository List page opens.

2. To remove the repository, do one of the following:
 - Click the **Remove** button next to the repository you want to edit.
 - Click the repository you want to edit name. On the Actions bar of the repository details page, click the **Remove** button.
3. The **Confirm Remove** dialog opens. Click **Yes** to finish the removal.

Related references

- [Repository details](#)
- [Repository List](#)
- [Containment Tree](#)
- [Resources](#)

4.11 Changing the Default Web Client Settings

You can change the server or Web Client default settings with new values by following the instructions given in the procedures below:

- [Changing Number of Table Rows Displayed](#)
- [Changing Date Format](#)
- [Changing Startup Page](#)
- [Changing Session Timeout Limit](#)

4.11.1 Changing Number of Table Rows Displayed

To change the number of table rows displayed per page

1. In the Containment tree, click **Options**.
2. For the **Table Row Per Page** option, select a new value.
3. Click **Submit**.
4. Wait until the message of successful settings save appears.

IMPORTANT! You must enable browser cookies to save the new settings.

Related references

[Containment Tree](#)

[Cameo Team Server Options](#)

4.11.2 Changing Date Format

To change the date format:

1. In the Containment tree, click **Options**.
2. For the **Date Format** option, select a new value.
3. Click **Submit**.
4. Wait until the message of successful saving of the settings appears.

IMPORTANT! You must enable browser cookies to save the new settings.

Related references

[Containment Tree](#)

[Cameo Team Server Options](#)

4.11.3 Changing Startup Page

To change the startup page (shown after logging in)

1. In the Containment tree, click **Options**.
2. For the **Start Up Page** option, select a new value.
3. Click **Submit**.
4. Wait until the message of successful settings save appears.

IMPORTANT! You must enable browser cookies to save the new settings.

Related references

- [Containment Tree](#)
- [Cameo Team Server Options](#)

4.11.4 Changing Session Timeout Limit

To change the session timeout limit

1. In the Containment tree, click **Options**.
2. For the **Session Timeout Limit (minutes)** option, select a new value.
3. Click **Submit**.
4. Wait until the message of successful settings save appears.

IMPORTANT! You must enable browser cookies to save the new settings.

Related references

- [Containment Tree](#)
- [Cameo Team Server Options](#)

4.12 NEW! LDAP Integration

You can manage LDAP integration by the instructions given in the following procedures:

- [Enabling LDAP Integration](#)
- [Testing LDAP Servers Connection](#)
- [Adding LDAP User](#)

4.12.1 Enabling LDAP Integration

To enable LDAP integration

1. Log in to Cameo Team Server Web Client as Administrator.
2. In the Containment tree, do one of the following:
 - Expand **Users** and click **LDAP**.
 - Click **Users**. On the Realm List page, click **Select** under the **LDAP** realm.

The LDAP page opens.

3. On the **Actions** bar, click **Edit LDAP Realm**. The LDAP details page opens.
4. Specify **Realm Name** and all mandatory setting values. Mandatory settings are marked with the star sign at the end of name. There are four groups of settings in the **LDAP Realm Settings** page:
 - [Connection Settings](#)
 - [Authentication Settings](#)
 - [User Data Retrieval Settings](#)
5. Click **Submit** when you are done.

Related concepts

- [NEW! LDAP Support](#)

Related procedures

- [Testing LDAP Servers Connection](#)
- [Adding LDAP User](#)
- [Converting Certificates to JKS Format](#)

Related references

- [NEW! LDAP Realm Settings](#)

4.12.2 Testing LDAP Servers Connection

To test your newly configured LDAP integration, click **Test Connection** on the **Actions** bar.

Cameo Team Server connects to the configured LDAP server(s) by using the user's credentials specified as the Administrator. A report of a successful or unsuccessful connection to each server is provided in a message panel. If the connection to the LDAP server(s) fails, a detailed report of the failure is provided.

Related concepts

- [NEW! LDAP Support](#)

Related procedures

- [Enabling LDAP Integration](#)
- [Adding LDAP User](#)

Related references

- [NEW! LDAP Realm Settings](#)

4.12.3 Adding LDAP User

To add a new LDAP user

1. Log in to Cameo Team Server Web Client as Administrator.
2. In the Containment tree, do one of the following:
 - Expand **Users** and click **LDAP**.
 - Click **Users**. On the Realm List page, click **Select** under the **LDAP** realm.

The LDAP page opens.

3. On the **Actions** bar, click **Add LDAP User**. The user list page opens.
4. Specify **Search Users in LDAP server** options and click **Search**.
5. After the search has been finished, select users from the LDAP users search results.
6. Click **Create User(s)** when you are done.

Related concepts

- [NEW! LDAP Support](#)

Related procedures

- [NEW! LDAP Integration](#)

Related references

- [LDAP User List](#)
- [Search Users in LDAP Server](#)

4.13 Other Procedures

You can manage LDAP integration by the instructions given in the following procedures:

- [Converting Certificates to JKS Format](#)
- [Generating JKS Certificates](#)

4.13.1 Converting Certificates to JKS Format

Cameo Team Server recognizes certificates stored in *Java KeyStore (JKS)* format. If certificates are in *PEM* format, they have to be converted to *JKS* format. *OpenSSL* (<http://www.openssl.org/>) and *Sun Java KeyTool* (included into every Java distribution) can be used for this purpose. For example, if we a certificate in a file called *cert.pem*, then the following commands will convert it to *JKS* format:

```
openssl x509 -in cert.pem -out cert.der -outform der
keytool -importcert -alias mycert -file cert.der -keystore truststore.jks
```

Related procedures

[NEW! LDAP Integration](#)

4.13.2 Generating JKS Certificates

To generate certificates

TIP! We recommend you to use the KeyTool IUI application for generating certificates. This is a free tool that can be downloaded from the Internet.

1. Run the KeyTool IUI application.
2. Create empty files for storing certificates:
 - 2.1 Select **Create > Keystore**.
 - 2.2 Create an empty keystore file for the server. Do the following:
 - 2.2.1 In the **Keystore file** dialog, set the location of the file and type a file name.
 - 2.2.2 In the **Keystore password** dialog, type the password for the server keystore file and click **OK**.
 - 2.3 Create an empty keystore file for the client. Do the following:
 - 2.3.1 In the **Keystore file** dialog, set the location of the file and type a file name.

TIP! For easier certificate transfer in next steps create a new folder "certs" and save the file named *cert.jks* in it.
 - 2.3.2 In the **Keystore password** dialog, type the password for the client keystore file and click **OK**.
3. Create a RSA keypair for the server:
 - 3.1 Select **Create > Keystore's entry > Private key, with vers. #3 > RSA**.
 - 3.2 In the **Keystore file** dialog, the **Source** section, open the created server keystore file and type a password.
 - 3.3 Provide the required information in the **Target** section and click **OK**.
 - 3.4 The dialog for creating a new alias will open. Type a new private key entry's alias name and a password for it. Click **OK**.
 - 3.5 You will see the created alias. Close the dialog.
4. Exclude a public key from the keypair to provide it to the client:

- 4.1 Select **Export > Private's key first certificate in chain > As simple certificate file**.
 - 4.2 In the **Keystore file** dialog, the **Source** section, open the server keystore file and type its password.
 - 4.3 Create a file, where to the key will be exported. In the **Certificate file** dialog, the **Target** section, set a location and type a file name for the client certificate. Click **OK**.
 - 4.4 The dialog for selecting an alias will open. Select from the list the alias that has been created in step 3.4 and type its password. You will be able to see the created certificate.
5. Import a public key into the client certificate:
- 5.1 Select **Import > Keystore's entry > Trusted certificate > Regular certificate**.
 - 5.2 In the **Source** section set the certificate file, which has been created in step 4, as a regular certificate file.
 - 5.3 In the **Target** section set the client keystore file *client.jks* as a keystore file and click **OK**.
 - 5.4 The dialog will open asking to enter a new alias name. Enter the alias name created in step 3.4 and click **OK**.
 - 5.5 Some pop-up windows will open informing about the generation process. Close all of them after reviewing.

Generated certificates are ready to use now. Paste them into the right location.

Related procedures

[NEW! LDAP Integration](#)

5 WEB CLIENT USER INTERFACE

This chapter introduces the Cameo Team Server Web Client's user interface.

The chapter "Web Client User Interface" includes the following sections:

- [Web Client Page Layout](#)
- [Web Client Pages for Cameo Team Server Management](#)

5.1 Web Client Page Layout

Each page of Cameo Team Server Web Client is divided into the following areas:

- [Top bar](#)
- [Containment Tree](#)
- [Content Pane](#)
- [Footer](#)

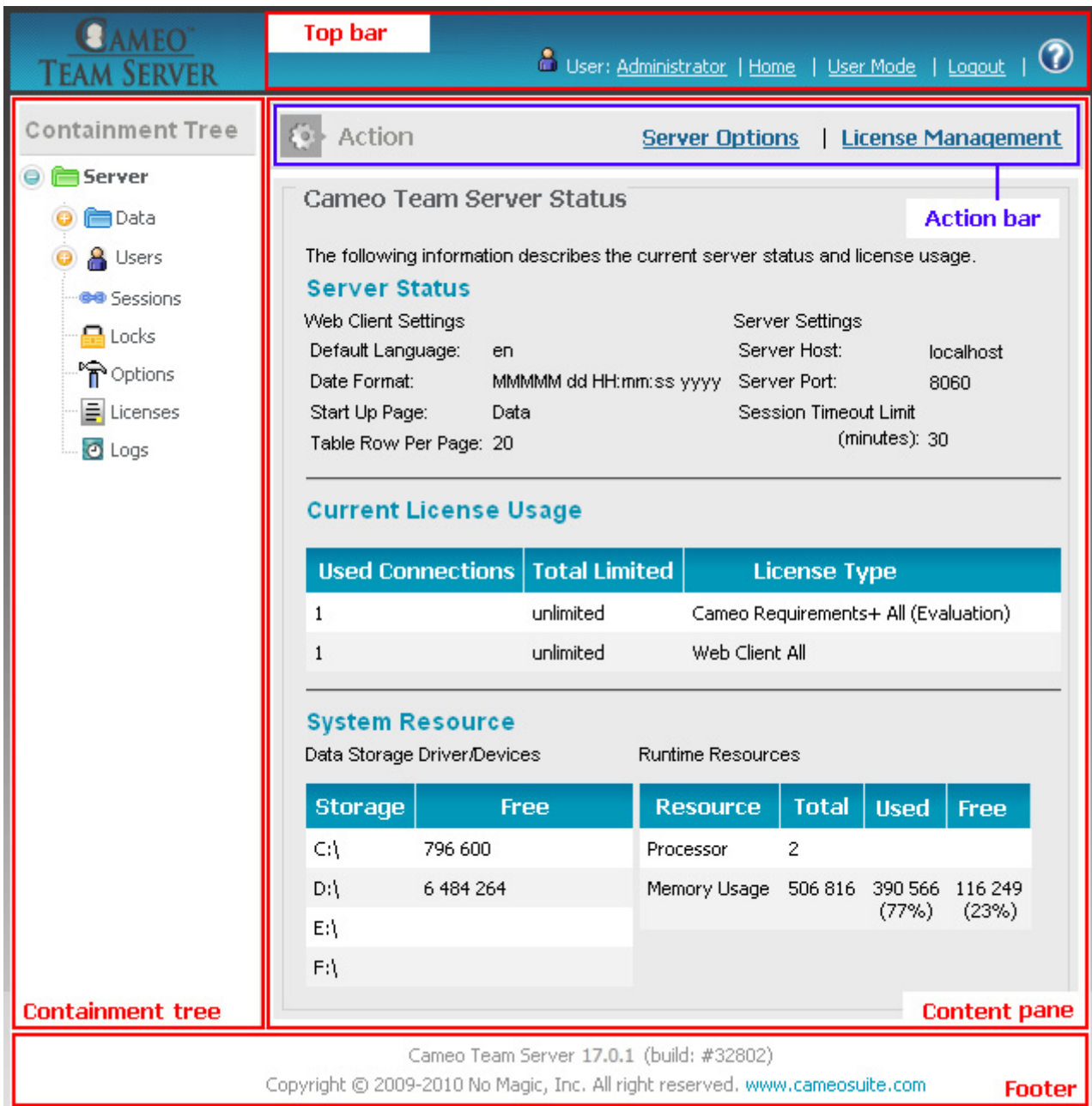


Figure 20 -- Cameo Team Server Status page layout

5.1.1 Top bar

The Top bar is located on the top of each Cameo Team Server Web Client's page.

Related procedures

[Switching to Administrator Mode](#)

[Switching to User Mode](#)

[Changing Password](#)

[Logging Out](#)

5.1.2 Containment Tree

The Containment tree is located on the left-hand side of each Cameo Team Server Web Client's page.

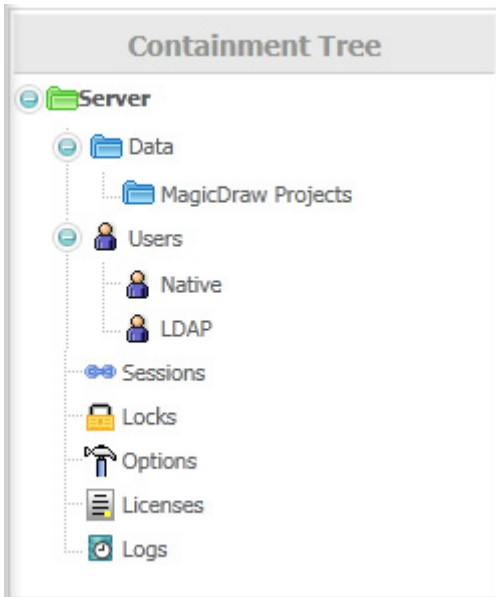


Figure 21 -- Containment tree with expanded Data node (in Administrator mode)

NOTE The nodes, such as **Options**, **Licences**, and **Logs**, are available only in the Administrator mode.

Related procedures

- [Switching to Administrator Mode](#)
- [Switching to User Mode](#)

5.1.3 Content Pane

The content pane is located in the centre of each Cameo Team Server Web Client's page. It shows appropriate data and buttons that can be used to manage these data. All data manipulation actions, such as creation, modification, and removal, are allowed only in the Administrator mode.

The panes that show a detailed information of individual data units, such as users, projects, and so forth, contain the Action bar that can be used to manipulate the information.



Figure 22 -- Fragment of User details page content pane. Action bar

Related references

- [Web Client Pages for Cameo Team Server Management](#)

5.1.4 Footer

The footer is located on the bottom of each Cameo Team Server Web Client's page. It shows both the version and build numbers of Cameo Team Server.



Cameo Team Server 17.0.1 (build: #32802)

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Figure 23 -- Cameo Team Server version and build number in the footer of Web Client page

5.2 Web Client Pages for Cameo Team Server Management

Cameo Team Server Web Client consists of the following pages:

- [Cameo Team Server Status](#)
- [Resources](#)
- [Repository List](#)
- [Repository details](#)
- [Version history](#)
- [User List](#)
- [User details](#)
- [New User](#)
- [NEW! LDAP Realm Settings](#)
- [LDAP User List](#)
- [Active Sessions](#)
- [Locks overview](#)
- [Locks By User](#)
- [Locks By Repository](#)
- [Locks By User and Resource](#)
- [Cameo Team Server Options](#)
- [Cameo Licenses](#)
- [Log Viewer](#)

5.2.1 Cameo Team Server Status

The Cameo Team Server Status page allows you to see the current server status information, license usage, and system resources usage.

You can open the Cameo Team Server Status page by clicking **Server** in the Containment tree.

⚙️ Action

[Server Options](#) | [License Management](#)

Cameo Team Server Status

The following information describes the current server status and license usage.

Server Status

Web Client Settings	Server Settings	
Default Language: en	Server Host:	localhost
Date Format: MMMMM dd HH:mm:ss YYYY	Server Port:	8060
Start Up Page: Locks	Session Timeout Limit (minutes):	30
Table Row Per Page: 20	SSL Status:	ON

Current License Usage

Connections	Connection Limit	License Type
1	unlimited	Cameo Requirements+ All (Commercial)
1	unlimited	Web Client All
1	unlimited	MagicDraw All (Commercial)

System Resource

Data Storage Driver/Devices	Runtime Resources				
Storage	Free	Resource	Total	Used	Free
C:\	9,363,116	Processor	1		
D:\		Memory Usage	506,816	311,995 (62%)	194,820 (38%)

Figure 24 -- Cameo Team Server Status pane

NOTE The Action bar is available only in the Administrator mode.

Related procedures

[Switching to Administrator Mode](#)

Related references

- [Containment Tree](#)
- [Cameo Team Server Options](#)
- [Cameo Licenses](#)

5.2.2 Resources

The Resources page shows the types of resources that are stored in Cameo Team Server.

You can open the Resources page by clicking **Data** in the Containment tree.

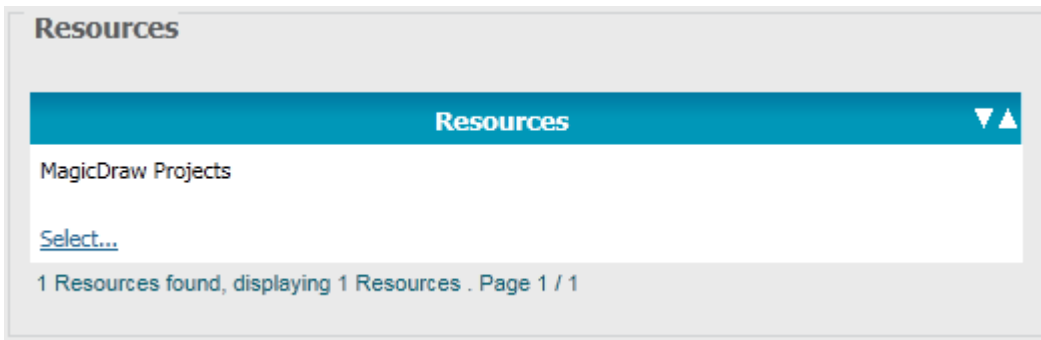


Figure 25 -- Resources pane

Navigation to other pages:

- Clicking **Select** under **MagicDraw Projects** navigates to the **Repository List** page.

Related references

- [Containment Tree](#)
- [Repository List](#)
- [Repository details](#)

5.2.2.1 Repository List

The Repository List page shows a list of all repositories stored in Cameo Team Server. You can edit and remove repositories in the Administrator mode.

You can open the Repository List page by using one of the following ways:

- In the Containment tree, expand **Data**, and then click **MagicDraw Projects**.
- In the Resources page, under **MagicDraw Project**, click **Select**.

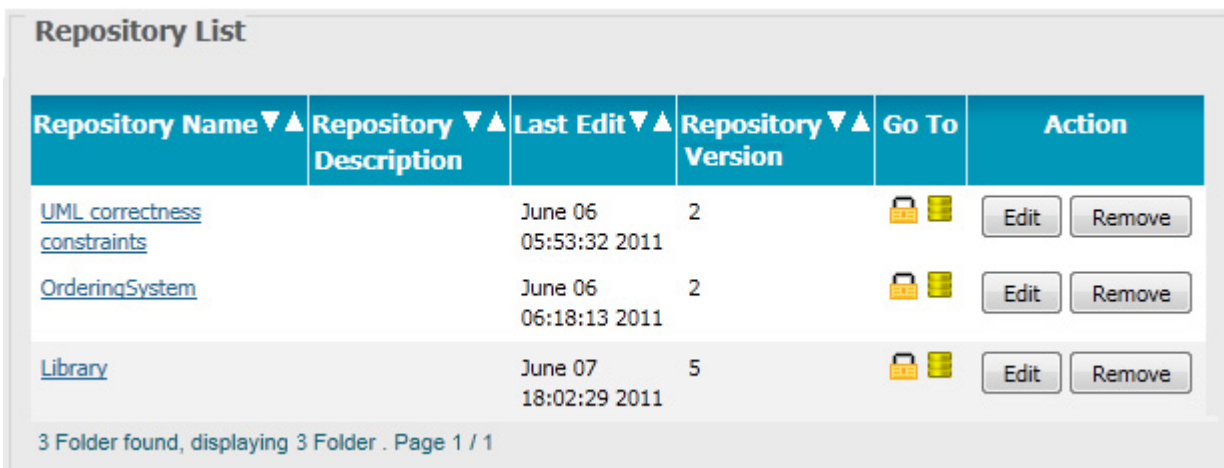


Figure 26 -- Repositories pane (in Administrator mode)

To edit a selected repository, in the **Action** column, click the **Edit** button.

To remove a selected repository, in the **Action** column, click the **Remove** button.

NOTE The **Action** column is available only in the Administrator mode.

Navigation to other pages:

- Clicking a repository name navigates to the details page of that particular repository.
- Clicking the **Go To Locks** icon in the **Go To** column of any repository navigates to the locks of that particular repository.
- Clicking the **Go To Schema** icon in the **Go To** column of any repository navigates to the details page of that particular repository.

Related procedures

[Editing Repositories](#)

[Switching to Administrator Mode](#)

Related references

[Containment Tree](#)

[Resources](#)

[Repository details](#)

[Locks By Repository](#)

5.2.2.2 Repository details

The Repository details page shows common information about a repository. You can change a repository name or remove a repository in the Administrator mode.

You can open the Repository details page by using one of the following ways:

- In the Containment tree, expand **Data > MagicDraw Projects** and click a repository name.
- In the Repository List page, click a repository name.
- In the Locks overview page, click a repository name.

- In the Locks By User page, click a repository name.

Option	Value
Repository Name: *	Library
Repository Description: *	Conceptual schema of library system.
Repository Version:	5 (Show All Versions)
Last Edit:	June 07 18:02:29 2011
Author:	marsmi
Schema:	

Go To

[History](#)

[Locks](#)

Figure 27 -- Repository details pane (in Administrator mode)

To remove a repository, on the Action bar, click the **Remove** button.

NOTE The Action bar is available only in the Administrator mode.

Navigation to other pages:

- Clicking **History** in the **Go To** section or **Show All Versions** navigates to that particular repository versions history.
- Clicking **Locks** in the **Go To** section navigates to a list of element locks acquired by other users in this repository.

Related procedures

[Editing Repositories](#)

[Switching to Administrator Mode](#)

Related references

[Containment Tree](#)

[Repository List](#)

[Locks overview](#)

[Locks By User](#)

[Version history](#)

[Locks By Repository](#)

5.2.2.3 Version history

The version history page shows a list of repository versions.

You can open the version history page for a repository by using one of the following ways:

- In the Repository details page, click **Show All Versions**.
- In the Repository details page, in the **Go To** section, click **History**.

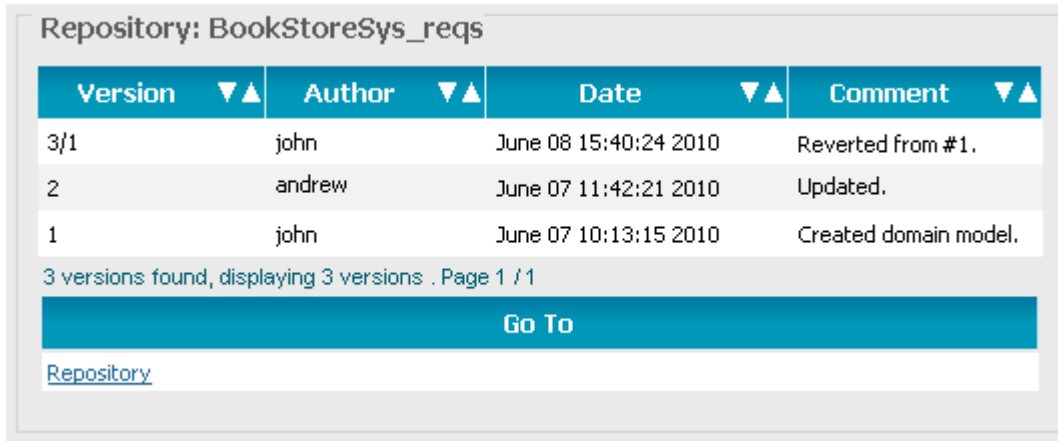


Figure 28 -- Repository version history page

Column	Description
Version	A resource version number. NOTE: If a version has been reverted from a previous one, the version number is displayed in the following form: “<version number>/<version number reverted from>”, for example, “3/1”.
Author	The login name of a user who has created this version.
Date	The date and time the version was created.
Comment	The comment that has been entered when committing changes to the server.

Navigation to other pages:

- Clicking **Repository** in the **Go To** section navigates to that particular repository details.

Related concepts

[Resource Versioning](#)

Related references

[Repository details](#)

5.2.3 Users

You can manage Cameo Team Server users using the following pages:

- [Realm List](#)
- [User List](#)
- [User details](#)
- [New User](#)

5.2.3.1 Realm List

The Realm List page displays Cameo Team Server realms.

You can open the User List page by clicking **Users** in the Containment tree

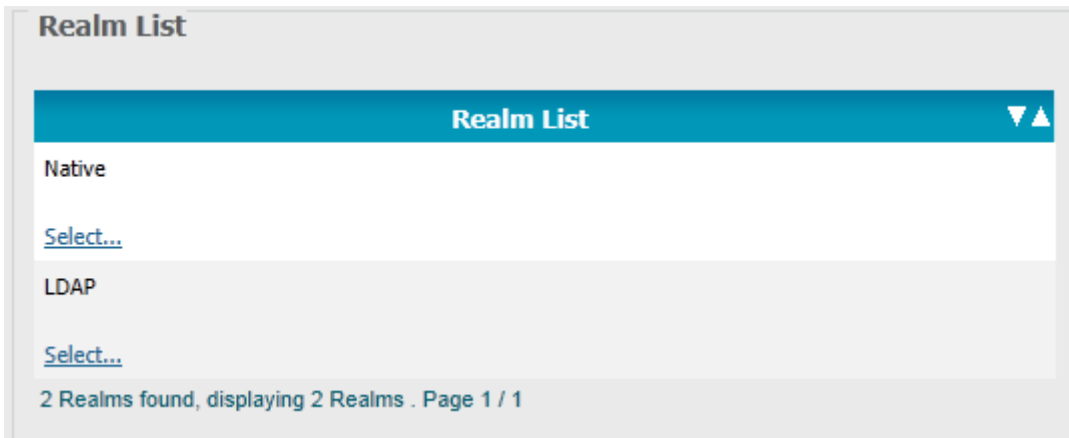


Figure 29 -- Realm list pane (in Administrator mode)

To open a realm, click **Select** under the selected realm.

Related concepts

[NEW! LDAP Support](#)

Related references

[User List](#)

[LDAP User List](#)

5.2.3.2 User List

The User List page displays the Cameo Team Server users. You can create a new user and edit or remove an existing one in the Administrator mode.

You can open the User List page by using one of the following ways:

- In the Containment tree, expand **User**, and then click **Native**.

- In the Realm List page, under **Native**, click **Select**.

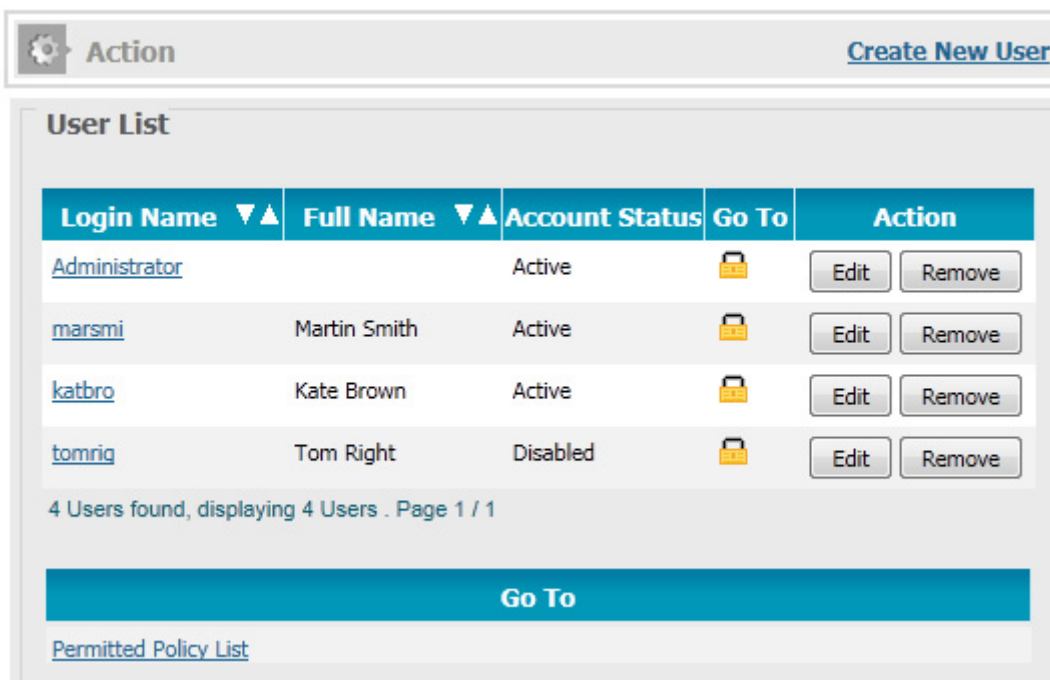


Figure 30 -- User List pane (in Administrator mode)

To edit a selected user, in the **Action** column, click the **Edit** button.

To remove a selected user, in the **Action** column, click the **Remove** button.

NOTE The **Action** column is available only in the Administrator mode.

Navigation to other pages:

- Clicking a user login name navigates to the details page of that particular user.
- Clicking the **Go To Locks** icon in the **Go To** column of any user navigates to the resources locks acquired by the user.

Related concepts

[User Management](#)

Related procedures

[Creating New User](#)

[Switching to Administrator Mode](#)

Related references

[Containment Tree](#)

[User details](#)

[New User](#)


5.2.3.3 User details

The User details page shows a user's login name, full name, and account status. You can edit user's information, change passwords, activate or disable user accounts, or remove a user in the Administrator mode.

You can open the User details page by using one of the following ways:

- In the Containment tree, expand **Users** > **Native**, and click a user's login name.

- In the User List page, click a user's login name.
- In the Locks overview page, click a user's login name.

 **Action** | [Disable Account](#) | [Remove](#)

User: marsmi

Option	Value
Login Name: *	<input type="text" value="marsmi"/>
Full Name:	<input type="text" value="Martin Smith"/>
Account Status:	Active

Option	Value
New Password: *	<input type="password"/>
Repeat Password: *	<input type="password"/>

Go To

[Locks](#)

Figure 31 -- User details pane (in Administrator mode)

To disable a user account, on the Action bar, click the **Disable Account** button.

To activate a user account, on the Action bar, click the **Activate Account** button.

To remove the user, on the Action bar, click the **Remove** button.

NOTE The Action bar is available only in the Administrator mode.

Navigation to other pages:

- Clicking **Locks** in the **Go To** section navigates to a list of element locks acquired by that particular user.

Related concepts

[User Management](#)

Related procedures

[Switching to Administrator Mode](#)

Related references

[Containment Tree](#)

[User List](#)

[Locks overview](#)

[Locks By User](#)

5.2.3.4 New User

The New User page allows you to create a new user account.

You can open the New User page by clicking the **Create New User** button on the Action bar of the User List page.

Option	Value
Login Name: *	<input type="text" value="marsmi"/>
Full Name:	<input type="text" value="Martin Smith"/>
Account Status:	<input checked="" type="checkbox"/> Active
New Password: *	<input type="password" value="....."/>
Repeat Password: *	<input type="password" value="....."/>

Figure 32 -- New User pane (in Administrator mode)

Related concepts

[User Management](#)

Related procedures

[Creating New User](#)

Related references

[User List](#)

5.2.4 NEW! LDAP Realm Settings

The LDAP Realm Settings page allows to edit server settings to authenticate its users against LDAP servers. This page consists of four panes:

- [Connection Settings](#)
- [Authentication Settings](#)
- [User Data Retrieval Settings](#)

You can open the LDAP Realm Settings page by using one of the following ways:

- In the Containment tree, expand **Users** > **LDAP**, and click a user's login name.

Navigation to other pages:

- Clicking **Users** in the **Go To** section navigates to the **Realm List**.

Related concepts

[NEW! LDAP Support](#)

Related procedures

[NEW! LDAP Integration](#)

Related references

- [Connection Settings](#)
- [Authentication Settings](#)
- [User Data Retrieval Settings](#)

5.2.4.1 Connection Settings

The **Connection Settings** options allow you to specify the network and security settings to connect to LDAP servers.

Option	Value
Server Address: *	127.0.0.1:10389 Server addresses can be entered by separating them with spaces. The default port number is 389. If you wish to use a different port, enter addresses in the form of server:port, e.g. example.com:636"
Server Timeout:	500 Server Timeout in Milliseconds
Encryption Protocol:	None SSL TLS
Server Root CA Certificate(s):	C:\CA\keystore\key.jks [Browse...] [Upload] A certificate in Java Key Store format *Restart required
JKS Password:

Figure 33 -- Configuring Connection Settings

Connection Settings are described in the following table.

Option	Description
Server Address(es)	A list of servers separated by spaces where each entry holds server address and server port. If unspecified, the 389 port is used. At least one server address must be specified. Usually a master server and its slaves (replicas) are specified for round-robin authentication. Cameo Team Server authenticates against servers in the order they are listed in the Server Address(es) . If authentication does not succeed to the first server in the list, the second server is used, and so on until authentication is successful. Authentication failure for the whole integration is considered as an inability to authenticate against any of the specified servers. A single server in the specified list is queried within the period of time specified in the Server Timeout setting.
Server Timeout	A time duration that specifies maximum period of time in milliseconds to successfully authenticate to a single server. If authentication is unsuccessful within this period of time, the next server in the server list is queried. The default value for this option is 500 milliseconds.

Option	Description
Encryption Protocol	<p>A list of protocols. You can use the SSL or TLS protocols for the encryption. Select None, if you do not need to use an encryption protocol. The selected protocol applies to every server specified in the LDAP server list. For example, if the SSL encryption is specified, communications to all the servers specified in the Server Address(es) list are encrypted using the SSL protocol.</p> <p>If the encrypted connection is used, Server Root CA certificate and password may be required. Server Root CA certificate should be stored in Java Key Store (JKS) format. For information about converting certificates to JKS format, see "Converting Certificates to JKS Format" on page 50. For information about generating certificates, see "To generate certificates" on page 50.</p>
Server Root CA Certificate(s)	<p>Click the Browse button to upload a file containing a single certificate or several certificates to the server. After uploading, the file name appears below the input box. Click the Remove button to remove the file containing certificates from the server.</p>
JKS Password	A password of the certificate.

5.2.4.2 Authentication Settings

The **Authentication Settings** options allow you to specify a user authentication against LDAP servers. Cameo Team Server supports the Simple User + Password authentication type.

Authentication Settings:

Option	Value
Anonymous Bind:	<input type="checkbox"/>
Bind DN: *	<input style="width: 90%;" type="text" value="cn=admin,dc=nomagic,dc=com"/> Example: uid=admin,ou=People,dc=example,dc=com
Bind Password: *	<input style="width: 90%;" type="password" value="••••••"/> Example: secret
Base DN: *	<input style="width: 90%;" type="text" value="dc=nomagic,dc=com"/> Example: ou=People,dc=example,dc=com
Query: *	<input style="width: 90%;" type="text" value="(cn=\${username})"/> Example: (uid=\${username})
Search Scope: *	<div style="border: 1px solid #ccc; padding: 2px;"> One Level Scope ▼ <ul style="list-style-type: none"> <li style="background-color: #0070c0; color: white; padding: 2px;">One Level Scope <li style="padding: 2px;">Subtree Scope </div>

Figure 34 -- Configuring Authentication Settings

Authentication Settings are described in the following table:

Option	Description
Anonymous Bind	<p>A mode of bind, specifying, whether the user connects to LDAP server with a specific user or anonymously for being able to find the User DN which corresponds to the user who is trying to login to Cameo Team Server.</p> <p>IMPORTANT! You must have a specific user DN if you do not have anonymous access.</p>

Option	Description
Bind DN	Specific User DN for connecting to the LDAP server and perform queries. NOTE: This element is active, when Anonymous Bind is not selected.
Bind Password	A specific password to connect to the LDAP server and perform queries (you need a specific user DN if you do not have anonymous access!) NOTE: This element is active, when the Anonymous Bind is not selected.
Search Base	DN, from which a search should begin, for example: <code>dc=example,dc=com</code>
Search Scope	Search scope specifies whether the search must be restricted to the directly owned DNs only or it must be performed in the whole subtree. Select one of the following scopes: <ul style="list-style-type: none"> • One Level Scope. Searches for all entries at one level under the base DN but NOT including the base DN. • Subtree Scope. Searches for all entries at all levels under the base DN including the specified base DN.
Query	The LDAP query for retrieving User DN, for example: <code>uid=\$(login)</code>

5.2.4.3 User Data Retrieval Settings

The **User Data Retrieval Settings** option allows you to map LDAP attributes to Cameo Team Server user attributes.

User DN is retrieved in the same way as it is done if the **Simple User+Password** authentication type is enabled (by querying the LDAP server(s) for User DN). When the user logs in to the LDAP server, this connection is further reused for retrieving user information.

If the user information retrieval is disabled or User DN attributes are not accessible to the authenticated user, Cameo Team Server creates an external user with the login name that was specified by the user on the authentication.



Figure 35 -- Configuring User Data Retrieval Settings

User Data Retrieval Settings are described in the following table

Option	Description
User DN Attribute-to-Full Name Mapping	After a specific User DN is found, the name of a local user which is created on the authentication is created by using the Full Name Mapping template for this User DN. The Full Name Mapping template supports placeholders in the form of $$(attribute)$, where <i>attribute</i> is an attribute of DN. An example: <code>\$(cn) \$(sn)</code> This forms the Name of the created user out of two LDAP attributes - <i>cn</i> and <i>sn</i> .

5.2.5 LDAP User List

The LDAP user list page displays LDAP users connected to the Cameo Team Server. You can add a LDAP new user and remove an existing one in the Administrator mode.

You can open the LDAP user list page by using one of the following ways:

- In the Containment tree, expand **User**, and then click **LDAP**.
- In the Realm List page, under **LDAP**, click **Select**.

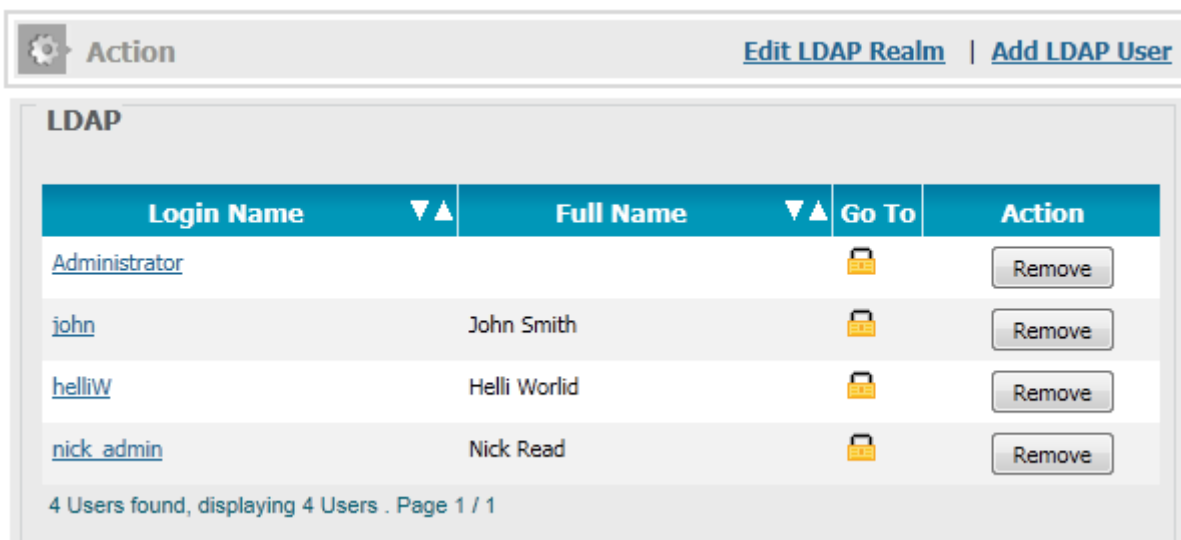


Figure 36 -- LDAP users list

To remove a selected user, in the **Action** column, click the **Remove** button.

NOTE The **Action** column is available only in the Administrator mode.

Navigation to other pages:

- Clicking a user login name navigates to the details page of that particular user.

Related concepts

[NEW! LDAP Support](#)

Related procedures

[Adding LDAP User](#)

[Switching to Administrator Mode](#)

Related references

[Containment Tree](#)

[User details](#)

[Search Users in LDAP Server](#)

[NEW! LDAP Realm Settings](#)

5.2.6 Search Users in LDAP Server

Cameo Team Server allows you to search for users in an LDAP database by connecting to it with different users specified in the authentication settings. You need to define the LDAP search filters on the LDAP user search page. In other words, before you can search an LDAP directory to find other users, you need to provide certain information as follows:

- Search Query
- Search Base
- Search Scope

To open the form for searching users in LDAP servers, in the LDAP users list page, click **Add LDAP Users**.

LDAP

Search Users in LDAP server:

Option	Value
User Name: *	<input type="text" value="uid=admin,ou=People,dc=example,dc=com"/>
Password: *	<input type="password" value="••••••"/>
Search Query: *	<input type="text" value="(uid=*)"/>
Search Base: *	<input type="text" value="ou=People,dc=example,dc=com"/>
Search Scope: *	<input type="text" value="One Level Scope"/> ▼

<input type="checkbox"/>		
<input checked="" type="checkbox"/>		john - John Smith
<input type="checkbox"/>		admin - Admin
<input checked="" type="checkbox"/>		helw - Helli World
<input checked="" type="checkbox"/>		Administrator - Administrator

Go To

[Users](#)

Figure 37 -- Adding LDAP users

Option	Description
Username	Username that is used to connect to LDAP to retrieve other users. IMPORTANT! It is not for a User DN retrieving.
Password	Password to connect to the LDAP server.
Search Query	LDAP search query to retrieve a User DN, for example: (uid=*)
Search Base	DN from which the search should begin, for example: dc=example,dc=com

Option	Description
Search Scope	To specify the starting point of a search. There are two options for the scope: <ul style="list-style-type: none"> • One Level Scope. Searches for all entries at one level under the base DN but NOT including the base DN. • Subtree Scope. Searches for all entries at all levels under the base DN including the specified base DN.

Related concepts

[NEW! LDAP Support](#)

Related procedures

[Adding LDAP User](#)

Related references

[LDAP User List](#)

[Containment Tree](#)

[User details](#)

[NEW! LDAP Realm Settings](#)

5.2.7 Active Sessions

The Active Sessions page shows a list of users who are currently connected to Cameo Team Server. You can close any session, including your own in the Administrator mode.

You can open the Active Sessions page by clicking **Sessions** in the Containment tree.

User ▼▲	License ▼▲	IP ▼▲	Connected ▼▲	Action
katbro	MagicDraw	91.220.20.203	June 08 17:47:00 2011	<input type="button" value="Close"/>
Administrator	Web Client	91.220.20.203	June 08 17:35:29 2011	<input type="button" value="Close"/>

2 Sessions found, displaying 2 Sessions . Page 1 / 1

Figure 38 -- Active Sessions pane (in Administrator mode)

Navigation to other pages:

- Clicking a user's login name navigates to the details page of that particular user.
- Clicking a license name navigates to the Cameo Licenses page.

Related concepts

[User Management](#)

Related procedures

[Closing User Session](#)

Related references

[Containment Tree](#)

[User details](#)

[Cameo Licenses](#)

5.2.8 Locks

You can see all of the locks acquired by the Cameo Team Server users on model elements in the server resources in the following pages:

- [Locks overview](#)
- [Locks By User](#)
- [Locks By Repository](#)
- [Locks By User and Resource](#)

5.2.8.1 Locks overview

The Locks overview page allows you to see a list of locks acquired by the users on model elements in resources. The pane consists of two tables showing two categories of locks: locks by resource and locks by user.

You can open the Locks overview page by clicking **Locks** in the Containment tree.

Locks By Resource

Resource ▼▲	Locks ▼▲	Last Acquisition Date ▼▲
BookStoreSys_reqs	15	June 07 13:34:43 2010
CTeamServerReqs	6	June 07 13:23:39 2010

2 Resources found, displaying 2 Resources . Page 1 / 1

Locks By User

User ▼▲	Locks ▼▲	Last Acquisition Date ▼▲
john	10	June 07 13:23:39 2010
andrew	11	June 07 13:34:43 2010

2 Users found, displaying 2 Users . Page 1 / 1

Figure 39 -- Locks overview pane

Column	Description
Locks By Resource:	
Resource	The name of a repository locked by the users.
Locks	The number of locks held in a repository.
Last Acquisition Date	The date and time the last lock in a particular lock category was acquired (that is the date and time of the most recent lock).
Locks By User:	
User	The login name of a user who holds the locks in some repositories.
Locks	A number of locks held by a user.
Last Acquisition Date	The date and time the last lock in a particular lock category was acquired (that is the date and time of the most recent lock).

Navigation to other pages:

- Clicking a repository name (in the first table) navigates to the details page of that particular resource.
- Clicking a lock number (in the first table) navigates to the Locks By Repository.
- Clicking a username (in the second table) navigates to the details page of that particular user.
- Clicking a lock number (in the second table) navigates to the Locks By User page.

Related concepts

[Lock Management](#)

Related references

[Containment Tree](#)

[Repository details](#)

[Locks By Repository](#)

[User details](#)

[Locks By User](#)

5.2.8.2 Locks By User

The Locks By User page shows the repositories in which a given user acquires locks.

You can open the Locks By User page by using one of the following ways:

- In the User List page, click the Go To Locks icon in the **Go To** column of a user.
- In the User details page, click **Locks**.
- In the Locks overview page, click the number of locks acquired by a user.

Resource	Locks	Last Acquisition Date
BookStoreSys reqs	4	June 07 11:44:58 2010
CTeamServerReqs	6	June 07 13:23:39 2010

2 Resources found, displaying 2 Resources . Page 1 / 1

Figure 40 -- Locks By User pane (in Administrator mode)

Column	Description
Resource	The name of a repository in which a given user holds locks.
Locks	The number of locks held by a user in a repository.
Last Acquisition Date	The date and time the last lock in a particular lock category was acquired (that is the date and time of the most recent lock).

Navigation to other pages:

- Clicking a repository name navigates to the details page of that particular resource.
- Clicking a lock number navigates to the Locks By User and Resource page.

Related concepts

[Lock Management](#)

Related procedures

[Releasing User Locks](#)

Related references

[User List](#)

[User details](#)

[Locks overview](#)

[Repository details](#)

[Locks By User and Resource](#)

5.2.8.3 Locks By Repository

The Locks By Repository page shows all of the users who acquire locks in a given repository.

You can open the Locks By Repository page by using one of the following ways:

- In the Repositories page, click the Go To Locks icon in the **Go To** column of a repository.
- In the Repository details page, click **Locks**.
- In the Locks overview page, click the number of locks on a repository.

User	Locks	Last Acquisition Date
andrew	11	June 07 16:04:12 2010
john	4	June 07 11:44:58 2010

2 Users found, displaying 2 Users . Page 1 / 1

Figure 41 -- Locks By Repository pane (in Administrator mode)

Column	Description
User	A login name of a user who holds locks in a given repository.
Locks	The number of locks held by a user.
Last Acquisition Date	The date and time the last lock in a particular lock category was acquired (that is the date and time of the most recent lock).

Navigation to other pages:

- Clicking a user login name navigates to the details page of that particular user.
- Clicking a lock number navigates to the Locks By User and Resource page.

Related procedures

[Releasing Resource Locks](#)

Related references

- [Repository List](#)
- [Repository details](#)
- [Version history](#)
- [Locks overview](#)
- [User details](#)
- [Locks By User and Resource](#)

5.2.8.4 Locks By User and Resource

The Locks By User and Resource shows a list of locks acquired by a given user in a given repository.

You can open the Locks By User and Resource page by using one of the following ways:

- In the Locks By User page, click a lock number.
- In the Locks By Repository, click a lock number.

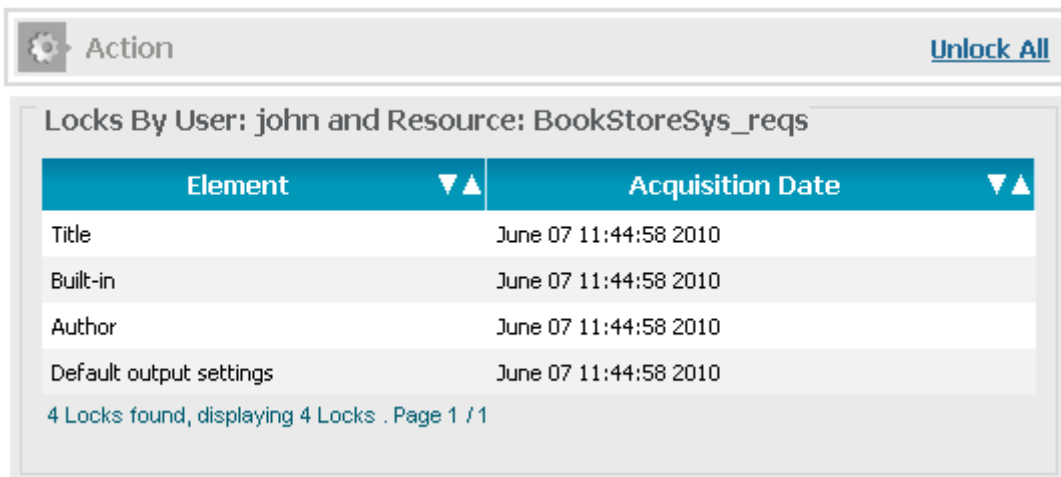


Figure 42 -- Locks By User and Resource pane (in Administrator mode)

Column	Description
Element	The name or type (in case there is no name) of an element, which is locked by a given user in a given repository.
Acquisition Date	The date and time the element was locked.

Related concepts

- [Lock Management](#)

Related procedures

- [Releasing User Locks in the Resource](#)

Related references

- [Locks By User](#)
- [Locks By Repository](#)

5.2.9 Cameo Team Server Options

The Cameo Team Server Options page displays the current settings of the server and Web Client. You can apply new values to these settings.

NOTE This page is available only in the Administrator mode.

You can open the Cameo Team Server Options page by clicking **Options** in the Containment tree.

Option	Value
Table Row Per Page:	20
Date Format:	MMMMM dd HH:mm:ss yyyy

Option	Value
Start Up Page:	Users
Session Timeout Limit (minutes):	30

Submit Cancel

Figure 43 -- Cameo Team Server Options pane

Related procedures

- [Switching to Administrator Mode](#)
- [Changing Number of Table Rows Displayed](#)
- [Changing Date Format](#)
- [Changing Startup Page](#)
- [Changing Session Timeout Limit](#)

Related references

- [Containment Tree](#)

5.2.10 Cameo Licenses

The Cameo Licenses page shows a list of active licenses in Cameo Team Server. You can remove an existing license or upload a new one to Cameo Team Server.

NOTE This page is available only in the Administrator mode.

You can open the Cameo Licenses page by using one of the following ways:

- In the Containment tree, click **Licenses**.

- In the Active Sessions page, click a license name.

Cameo Licenses

The following information describes current server status and license usage.

License Information				Connection Limit ▼▲	Connections ▼▲	Expires ▼▲	Action
Client ▼▲	License Type ▼▲	Version ▼▲	Registered To ▼▲				
Cameo Requirements+ All	All	Commercial	user	unlimited	1 -		<button>Remove</button>
Web Client	All		admin	unlimited	1 -		<button>Remove</button>
MagicDraw All	All	Commercial	user	unlimited	2 -		<button>Remove</button>

For a commercial license request, use this Host ID to get a commercial license (locked to the particular machine) from the license owner account at www.magicdraw.com/LicenseActivationManagement

Note: Host ID is not needed for evaluation or commercial with expiration license.

Host ID: 080027767fe2

Add/Update License:

Figure 44 -- Cameo Licenses pane

Column	Description
License Information	
Client	A client product name and version. A license can be for: <ul style="list-style-type: none"> A concrete product version, for example, MagicDraw 17.0.1 Several product versions, for example, MagicDraw [16.6-17.0] All product versions, for example, MagicDraw All
License Type	A client license type.
Version	A client license version.
Registered To	A client license owner.
Connection Limit	A number of allowed connections.
Connections	A number of current connections.
Expires	A date a license type expires. If a license has no an expiration date, the “-” sign is dispalyed.
Action	Actions that can be perromed for a selected license.

To remove a selected license from the server, click the **Remove** button in the **Action** column.

NOTE The Web Client license cannot be removed.

To add or update a license, browse for a license file and click **Upload**.

Related procedures

[Uploading Licenses](#)

[Removing Licenses](#)

Related references

[Containment Tree](#)

[Active Sessions](#)

5.2.11 Log Viewer

The Logs Viewer - Log File Content page displays a list of Cameo Team Server log files. You can read the content of a particular log file either in the special Web Client's page, or after downloading the log file to your machine.

NOTE This page is available only in the Administrator mode.

You can open the Logs Viewer - Log File Content page by clicking **Logs** in the Containment tree.

Log File Name	Action
cdo_server.log	Open Download
cdo_server.log.2010-06-08	Open Download
jboss_server.log	Open Download
jboss_server.log.2010-06-08	Open Download
serverstatus.log	Open Download
serverstatus.log.2010-06-08	Open Download

6 Logs found, displaying 6 Logs . Page 1 / 1

Figure 45 -- Log Viewer pane

To open the content of a particular log file, in the **Action** column, click the **Open** button.

To download a particular log file, in the **Action** column, click the **Download** button.

NOTES

- If the download does not start automatically, use the link on the open page.
- Opening a log file may take some time depending on the size of the file.

Related references

[Containment Tree](#)

GLOSSARY

Team Server Storage

Team Server Storage is a shared server storage that stores MagicDraw projects.

Repository Update

Repository Update is a process during which Cameo Team Server updates a locally open Team Server repository with the latest changes from the server.

Locking

Locking allows you to merge repositories without conflicts. Before editing a shared Cameo Requirements repository, you need to lock the repository to prevent other users from editing the same repository at the same time. You can edit only the repository parts that are locked.

Unlocking

Unlocking allows other users to acquire a lock in a specific repository part and makes that specific repository part as read-only for users who do not have locks.

Committing

Committing changes made in a repository to the server. Changes are saved as new versions of the repository. Any previous version of the repository can later be opened in read-only mode.

Author

An author is a user who has committed changes to the server.

Version

A version is a unique number assigned to each change committed to the server. A Repository Version number starts from 1 (the initial version) and increases in increments of 1 for each new repository version.

Administrator Login

The default Administrator's account in Cameo Team Server is:

- **Username:** *Administrator*
- **Password:** *Administrator*

To prevent illegal access, it is advisable to change the Administrator's password.

Cameo Team Server Web Client

Cameo Team Server Web Client is a web application designed for managing and auditing server storage. You can use this application to create users, manage their locks and sessions, add or remove licenses, view server locks, and perform other administrative tasks.