

# 6 - Installing LexEVS 6.x CTS2 Services

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## LexEVS 6.x Installation Links

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Prerequisites are dependent upon the type of installation. This service has two basic kinds of installations, OSG and non-OSG.

## Prerequisites

- Installation of [LexEVS Runtime](#) and if desired the [LexEVS Remote API](#) and all dependencies
- Web application container for Non-OSGI installation
- If building the LexEVS Plugin the following are required:
  - Git 2.9.x
  - Maven 3.3.x
  - Java 1.8.x

## Build the LexEVS Service Plugin (Optional)

See below for the pre-built plugin, Otherwise run

```
git clone https://github.com/cts2/lexevs-service.git
```

Change the directory to the lexevs-service.

```
cd lexevs-service
```

Change to the appropriate branch:

6.1 branch:

```
git checkout tags/qa_v6.1.rc8.05.2013
```

6.2 branch:

```
git checkout tags/v1.3.0.FINAL
```

6.3 branch:

```
git checkout tags/v1.4.0.FINAL
```

6.4 branch:

```
git checkout tags/1.5.0.FINAL
```

6.4.1 branch

Prior to building 6.4.1 (or later), the MAVEN\_OPTS variable will need to be set as described here: [LexEVS Nexus Migration to NCI](#)

```
git checkout tags/1.5.1.2.FINAL
```

6.5 branch:

```
git checkout tags/1.6.0.FINAL
```

Build the plugin.

```
mvn clean install
```

The resulting plugin will be found in the lexevs-service/target directory.

## OSGI type installation

This kind of installation provides a quick way to set up a REST service and can be done against an existing installation of the LexEVS Remote API, such as that hosted by the National Cancer Institute.

- Download the [CTS2 Framework Standalone Server](#) 
- Install and start the server: <http://informatics.mayo.edu/cts2/framework/installation/> 
- Download the following java jars to be installed as plugins:
  - [CGLIB](#) 
  - [AspectJ Runtime](#) 
  - [AspectJ Weaver](#) 
  - [LexEVS Service Plugin](#) 
- Install each as detailed in [Installing a Service Plugin](#) 



### Exception for the LexEVS Service Plugin

Follow the same steps for the LexEVS Service, except leave the Start Bundle box unchecked.

- After the plugin has been installed, navigate to the Configuration tab of the Admin Console.

# CTS2 Development Framework Web Console Configuration

Bundles

Configuration

Configuration Status

Deployment Packages

Events

Licenses

Log Service

OSGi Repository

Services

Shell

System Information



Configuration Admin Service is running.

| Name                                  | Bundle                | Actions                                                                                                                                                                                                                                                     |
|---------------------------------------|-----------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Apache Felix OSGi Management Console  | -                     |    |
| Apache Felix Web Console Event Plugin | -                     |    |
| LexEVS Plugin                         | LexEVS Service Plugin |    |

LexEVS Plugin

LexEVS Plugin

LexEVS Remote API URL

LG\_CONFIG\_FILE

Use Remote API ☒

UriResolutionService URL

Configuration Information

Persistent Identity (PID) edu.mayo.cts2.framework.plugin.service.lexevs

Configuration Binding LexEVS Service Plugin (edu.mayo.cts2.framework.lexevs-service), Version 0.1.0.SNAPSHOT

Save

Reset

Abort

- Verify the configuration information is correct. It is set up to use the NCI 6.0 Remote LexEVS Service.

## CTS2 Development Framework Web Console Bundles



Bundles

Configuration

Configuration Status

Deployment Packages

Events

Licenses

Log Service

OSGi Repository

Services

Shell

System Information

Bundle information: 33 bundles in total, 32 bundles active, 1 active fragments, 0 bundles resolved, 0 bundles installed.

Apply Filter

Filter All

Reload

Install/Update...

Refresh Packages

| Id | Name                                                                                          | Version        | Category | Status   | Actions                                                                                                                                                                                                                                                           |
|----|-----------------------------------------------------------------------------------------------|----------------|----------|----------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 0  | System Bundle (org.apache.felix.framework)                                                    | 3.0.2          |          | Active   |                                                                                                                                                                                                                                                                   |
| 1  | AOP Alliance API (com.springsource.org.aopalliance)                                           | 1.0.0          |          | Active   |    |
| 3  | Apache Felix Bundle Repository (org.apache.felix.bundlerepository)                            | 1.6.6          |          | Active   |    |
| 4  | Apache Felix Configuration Admin Service (org.apache.felix.configadmin)                       | 1.2.8          | osgi     | Active   |    |
| 5  | Apache Felix Http Bridge (org.apache.felix.http.bridge)                                       | 2.0.2          |          | Active   |    |
| 6  | Apache Felix Log Service (org.apache.felix.log)                                               | 1.0.1          |          | Active   |    |
| 7  | Apache Felix Metatype Service (org.apache.felix.metatype)                                     | 1.0.4          | osgi     | Active   |    |
| 9  | Apache Felix Web Console Event Plugin (org.apache.felix.webconsole.plugins.event)             | 1.0.2          |          | Active   |    |
| 8  | Apache Felix Web Management Console (org.apache.felix.webconsole)                             | 3.1.8          |          | Active   |    |
| 27 | Apache Velocity (com.atlassian.bundles.velocity)                                              | 1.6.2.1        |          | Active   |    |
| 48 | AspectJ Runtime (com.springsource.org.aspectj.runtime)                                        | 1.7.1.RELEASE  |          | Active   |    |
| 49 | AspectJ Weaver (com.springsource.org.aspectj.weaver)                                          | 1.7.1.RELEASE  |          | Active   |    |
| 50 | CGLIB Code Generation Library (com.springsource.net.sf.cglib)                                 | 2.2.0          |          | Active   |    |
| 28 | CTS2 Development Framework Web Console Branding (edu.mayo.cts2.framework.webconsole-branding) | 1.0.0          |          | Fragment |    |
| 2  | Jcl-over-slf4j (jcl.over.slf4j)                                                               | 1.5.8          |          | Active   |    |
| 55 | LexEVS Service Plugin (edu.mayo.cts2.framework.lexevs-service)                                | 0.1.0.SNAPSHOT |          | Resolved |    |
| 10 | OSGi R4 Compendium Bundle (org.osgi.compendium)                                               | 4.1.0          | osgi     | Active   |    |
| 11 | Spring AOP (org.springframework.aop)                                                          | 3.1.0.RELEASE  |          | Active   |    |

## Non-OSGI type installation

This type of installation is more customizable and allows deployment to your own web container. Instructions are available on the [CTS2 Github page](#) 