# 4 - Installing LexEVS 5.x Remote API

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### Introduction

This document is a section of the LexEVS 5.x Installation Guide.

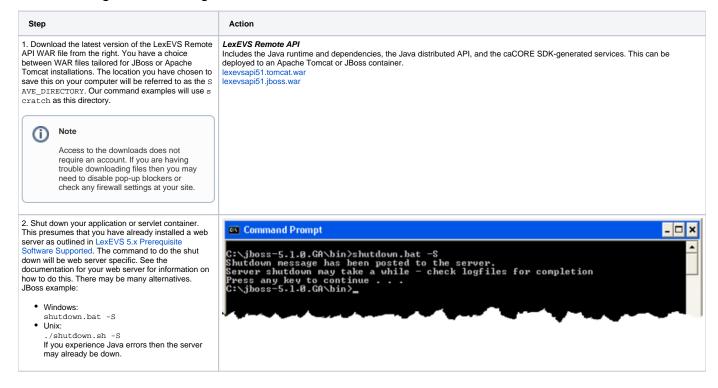
This section provides requirements, instructions, and troubleshooting information for installing the LexEVS Remote API environment.

## **Preliminary Considerations**

- The LexEVS 5.x Supported Platforms are the same for this environment as they are for the Local Runtime.
- Before installing the LexEVS Remote API environment you must have a LexEVS Local Runtime installed and working.
- It is not required that you load a terminology into the Local Runtime in order to complete the installation of the Remote API environment.
   However, using the Remote API requires that a terminology be loaded into the Local Runtime.
- The Remote API environment has additional LexEVS 5.x Prerequisite Software Supported beyond the Local Runtime. The additional web
  application server does not have install steps given in this guide. The web application server can be on the same server or a different server from
  the Local Runtime.
- Complete the #Downloading and Installing the LexEVS Remote API steps below.

Once you have completed the additional prerequisite software install, the Remote API environment install steps, and the verification test as described in this guide then you should be ready to start using the Remote API features to meet the needs of your application. Not counting prerequisite software products the installation and verification should not take more than 30 minutes.

# Downloading and Installing the LexEVS Remote API



3. Rename the WAR file. These files are distributed with an application server designation in their name for clarity while downloading them. Change to the SAV E\_DIRECTORY and rename the file, like this:

```
rename {SAVE_DIRECTORY}
/lexevsapi51.{WEB_SERVER}.
war {SAVE_DIRECTORY}
/lexevsapi51.war}
```

#### JBoss example:

- Windows:
  - rename c:\scratch\lexevsapi51. jboss.war lexevsapi51.war
- Unix:

move /scratch/lexevsapi51.jboss.
war lexevsapi51.war



### Note

Consider other names as well. Many application servers use the deployed name as part of the URL, so if you would rather it be a different name then you should rename the WAR file to that.

4. Copy the WAR file to the appropriate web application server directory, like this:

```
copy {SAVE_DIRECTORY}
\lexevsapi51.war
{WEB_SERVER_HOME}\
{DEPLOYMENT_HOME}
```

#### ...where:

SAVE\_DIRECTORY is the location of the downloaded file.

WEB\_SERVER is the brand of the web server.
WEB\_SERVER\_HOME is your application server home directory.

DEPLOYMENT\_HOME is the Web Archive deployment directory for your application server.

JBoss example:

• Windows:

copy c:\scratch\lexevsapi51.war c:
\jboss-4.0.5.

GA\server\default\deploy

• Unix:

copy /scratch/lexevsapi51.war
/jboss-4.0.5.GA/server/default
/deploy

C:\scratch>rename c:\scratch\lexevsapi60.jboss.war lexevsapi60.war

C:\scratch>\_

5. Create a text file named lexevs.properties in the WEB SERVER CLASSPATH to set the location of the LexEVS configuration. The WEB\_SERVER\_CLASSP ATH is a location along the class path for your web application server. This whole path including the file name will be called LEXEVS\_PROPERTIES\_HOME for the rest of these instructions. JBoss example:

· Windows:

c:\jboss-4.0.5. GA\server\default\conf\lexevs.

properties
• Unix:

/iboss-4.0.5.GA/server/default/conf /lexevs.properties

Set  ${\tt LG\_CONFIG\_FILE}$  to the path of the  ${\tt lbcon}$ fig.props file of your LexEVS installation like

LG\_CONFIG\_FILE= {LEXEVS\_HOME} \resources\config\lbconfig .props

. where LexEVS\_HOME is the install directory of LexVES. Copy/paste the examples below as a starting

point for this file: Windows:

LG\_CONFIG\_FILE=c:\\LexEVS\\5. 1\\resources\\config lbconfig.props



#### Note

Notice the back slash escape character required for a Windows. Java environment

• Unix:

LG\_CONFIG\_FILE=/LexEVS/5.1 /resources/config/lbconfig.props

6. (OPTIONAL) The lexevs.properties file is also used to add security for any coding scheme. This is not a highly used function. For each coding scheme a security implementation class name can be set to enable security like this:

{CODING\_SCHEME\_NAME} = {SECURITY\_IMPLENTATION}

.where CODING\_SCHEME\_NAME is the name or URI of the terminology.

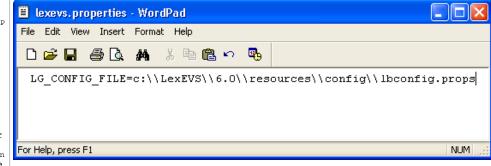
SECURITY\_IMPLENTATION is a class that implements the interface gov.nih.nci.system.dao. security.DAOSecurity.

For all ways of accessing the coding scheme, security must be set up. The example at the right shows access by Name, URI, and Formal Name, but others are possible too.



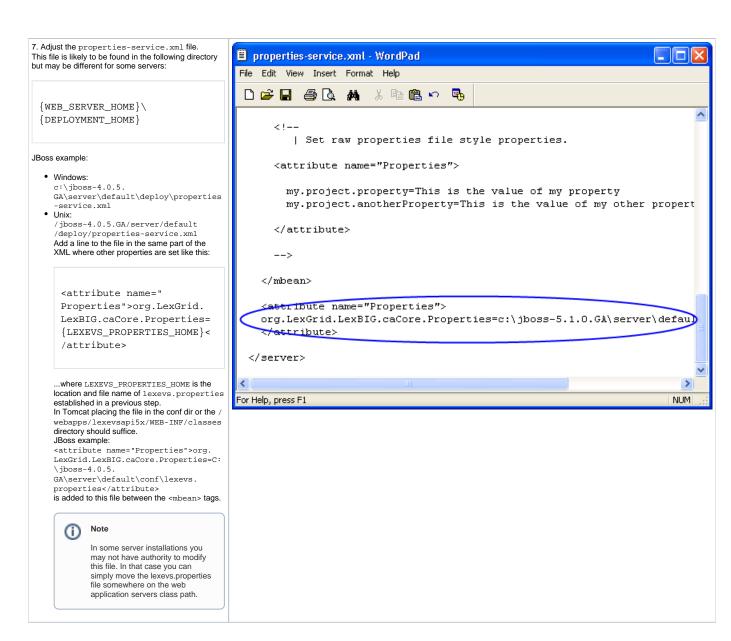
### Note

Coding schemes can be added or changed later after a coding scheme or terminology is loaded into LexEVS.



MedDRA=gov.nih.nci.system.dao.security.MedDRASecurity urn\:oid\:2\.16\.840\.1\.113883\.6\.163=gov.nih.nci.system.dao.security. MedDRASecurity

Medical\ Dictionary\ for\ Regulatory\ Activities\ Terminology\ \(MedDRA\) =gov.nih.nci.system.dao.security.MedDRASecurity



# Testing the LexEVS Remote API

- Start your application or servlet container if it is not already started. The start command will be web server specific. See the documentation for your web server for information on how to do this.
   JBoss example:
  - Windows:
  - Run.bat -c default
  - Unix:
    - ./Run.sh -c default

```
C:\jboss-5.1.0.GA\bin\run.bat -c default

JBoss Bootstrap Environment

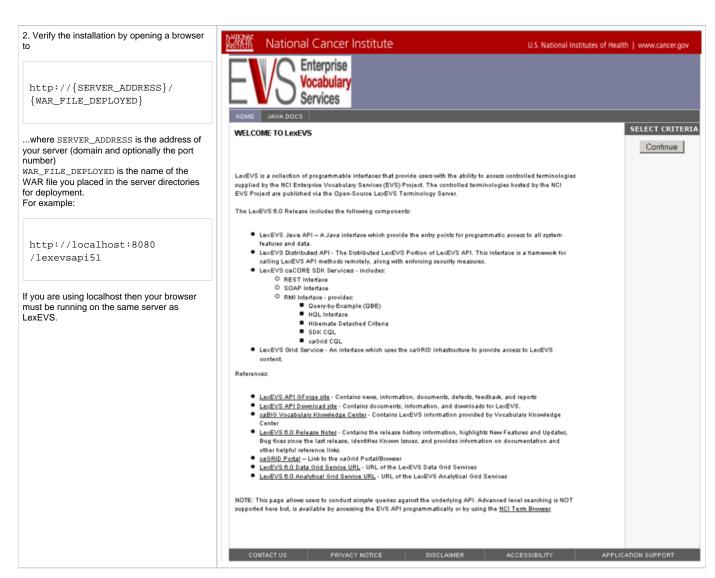
JBOSS_HOME: C:\jboss-5.1.0.GA\bin\\.

JAVA: c:\jdk1.6.0_20\bin\java

JAVA_OPTS: -Dprogram.name=run.bat -server -Xms128m -Xmx512m -Dsun.rmi.dgc.cli
ent.gcInterval=3600000 -Dsun.rmi.dgc.server.gcInterval=3600000

CLASSPATH: c:\jdk1.6.0_20\lib\tools.jar;C:\jboss-5.1.0.GA\bin\\run.jar

16:57:42,301 INFO [Server] Starting JBoss (MX MicroKernel)...
16:57:42,301 INFO [Server] Release ID: JBoss [Zion] 5.1.0.GA (build: CUSTag=Bra nch_4_0 date=200610162339)
16:57:42,301 INFO [Server] Home Dir: C:\jboss-5.1.0.GA/
16:57:42,301 INFO [Server] Home URL: file:/C:/jboss-5.1.0.GA/
16:57:42,301 INFO [Server] Patch URL: null
16:57:42,301 INFO [Server] Server Name: default
16:57:42,316 INFO [Server] Server Name: default
16:57:42,316 INFO [Server] Server Home URL: file:/C:/jboss-5.1.0.GA\server\default
16:57:42,316 INFO [Server] Server Home URL: file:/C:/jboss-5.1.0.GA\server\default
16:57:42,316 INFO [Server] Server Home URL: file:/C:/jboss-5.1.0.GA\server\default\log_1.57:42,316 INFO [Server] Server\default\log_1.57:42,316 INFO [Serv
```



If you see the Enterprise Vocabulary Services "Welcome to LexEVS" web page then you have successfully installed the LexEVS Remote API. Congratulations!

### **Troubleshooting**

- If the Local Runtime environment is properly installed and tested then the Remote API environment should have few problems.
- If you receive deployment errors in JBoss and are unable to see the EVS home page then you may not have configured the properties attribute in JBoss's properties-service.xml.
  - \*You may also need to adjust the path in lexevs.properties where lbconfig.props location is defined.