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

Step	Action
1. Download the latest version of the LexEVS Remote API WAR file from the right. You have a choice between WAR files tailored for JBoss or Apache Tomcat installations. The location you have chosen to save this on your computer will be referred to as the s AVE_DIRECTORY. Our command examples will use s cratch as this directory.	LexEVS Remote API Includes the Java runtime and dependencies, the Java distributed API, and the caCORE SDK-generated services. This can be deployed to an Apache Tomcat or JBoss container. Iexevsapi51.tomcat.war Iexevsapi51.jboss.war
Note	
Access to the downloads does not require an account. If you are having trouble downloading files then you may need to disable pop-up blockers or check any firewall settings at your site.	
2. Shut down your application or servlet container. This presumes that you have already installed a web	🖾 Command Prompt 📃 🗙
server as outlined in LexEVS 5.x Prerequisite Software Supported. The command to do the shut down will be web server specific. See the documentation for your web server for information on how to do this. There may be many alternatives. JBoss example:	C:\jboss-5.1.0.GA\bin>shutdown.bat -S Shutdown message has been posted to the server. Server shutdown may take a while - check logfiles for completion Press any key to continue C:\jboss-5.1.0.GA\bin>_
 Windows: shutdown.bat -S Unix: 	
./shutdown.sh -S If you experience Java errors then the server may already be down.	

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:	🖾 Command Prompt 💦 📃 🗙
	C:\scratch>rename c:\scratch\lexevsapi60.jboss.war lexevsapi60.war
<pre>rename {SAVE_DIRECTORY} /lexevsapi51.{WEB_SERVER}. war {SAVE_DIRECTORY} /lexevsapi51.war}</pre>	C:\scratch>_
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:	Command Prompt
<pre>copy {SAVE_DIRECTORY} \lexevsapi51.war {WEB_SERVER_HOME}\ {DEPLOYMENT_HOME}</pre>	C:\scratch>copy c:\scratch\lexevsapi60.war c:\jboss-5.1.0.GA\server\default\depl oy 1 file(s) copied. C:\scratch>cd \jboss-5.1.0.GA\server\default\deploy C:\jboss-5.1.0.GA\server\default\deploy>dir *.war Volume in drive C has no label. Volume Serial Number is F034-BFBA
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:	Directory of C:\jboss-5.1.0.GA\server\default\deploy 10/22/2010 02:55 PM 〈DIR〉 jmx-console.war 06/23/2010 12:21 PM 25,080,822 lexevsapi60.war 1 File(s) 25,080,822 hytes 1 Dir(s) 58,763,886,592 bytes free C:\jboss-5.1.0.GA\server\default\deploy>_
 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 	

<pre>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: /jboss-4.0.5.GA\server/default/conf /lexevs.properties Set LG_CONFIG_FILE to the path of the lbcon fig.props file of your LexEVS installation like this: LG_CONFIG_FILE= {LEXEVS_HOME} \resources\config\lbconfig</pre>	Image: Second system Image: Second system Image: Second
	For Help, press F1 NUM
.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	
 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: 	<pre>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</pre>
{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.	



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 	🖾 Command Prompt - run.bat -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 d 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 16:57:42,316 INFO [Server] Server Name: default
	16:57:42,316 INFO [Server] Server Home Dir: 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/defa ult/
	16:57:42,316 INFO [Server] Server Log Dir: Cr-iboss-5-1-0.GA\server\default\log



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.