



Installing web-enabled LexEVS

[Installing LexEVS with its LexGrid Model/DB \(back end\)](#) > [Installing LexEVS in a web-based environment](#) > [Installing web-enabled LexEVS](#)

Contents [hide]

- 1 Introduction
- 2 Minimal system requirements
- 3 Software requirements
- 4 Downloading and installing the web-enabled LexEVS API
- 5 Troubleshooting

Introduction

This document is a section of the [Installation Guide](#).

This section provides requirements, instructions, and troubleshooting information for installing Web-enabled LexEVS (Remote API, Web Access and Data Service).

Minimal system requirements

- Internet connection
- 2 GB RAM
- Tested Platforms (Similar Hardware Specification for Operating System)

LexBIG has been tested on the platforms shown in Table 1.

	<i>Linux Server</i>	<i>Linux Server</i>	<i>Windows</i>
Model	HP Proliant DL 380	Penguin	Dell Latitude
CPU	2 x Intel® Xeon™ Processor 2.80GHz	Dual AMD Opteron 248 processors (64 bit)	1 x Intel® Pentium™ Processor 2.00GHz
Memory	4 GB	16Gb	1.5Gb
Local Disk	System 2 x 36GB (RAID 1) Data = 2 x 146 (RAID 1)	250 GB Raid 1 disk drive(s) 250 GB stand along disk drive	System 1 x 80GB
OS	Red Hat Linux ES 3 (RPM 2.4.21-20.0.1)	Fedora Core 3 (64 bit) OS	Windows XP Professional

Table 1 - Platform Testing Environment

Software requirements

Required Software - Not Included in LexEVS

You must download and install the required software that is not included with LexEVS (listed in Table 2). The software name, version, description, and URL hyperlinks (for download) are indicated in the table.

(Required software that is included with the LexEVS is listed in Appendix I)

Software Name	Version	Description	URL
Java Software Development Kit (SDK):Java 2 Standard Edition (J2SE)	j2sdk1.5.0_04 or higher	The J2SE Software Development Kit (SDK) supports creating J2SE applications	http://java.sun.com/javaee/downloads/
MySQL Database*	MySQL (5.0.45) or higher	MySQL 5 Community Edition	http://downloads.mysql.com/archives.php?p=mysql-5.0&v=5.0.45
PostgreSQL*	8.x or higher	Open source relational database management system	http://www.postgresql.org/

vocabkc contents

- [Main Page](#)
- [What's New](#)
- [Forums](#)
- [Bugzilla](#)
- [Code Repository](#)
- [Feedback](#)
- [Contact Us](#)

tools

- [LexBIG/LexEVS](#)
- [LexWiki](#)
- [NCI Protégé](#)
- [Related Tools and Models](#)

projects

- [LexAjax](#)
- [LexGrid](#)
- [Cancer Data Standards Repository \(caDSR\)](#)
- [Common Terminology Criteria for Adverse Events \(CTCAE\)](#)
- [Open Health Natural Language Processing \(OHNLP\) Consortium](#)
- [Ontology Development and Information Extraction \(ODIE\)](#)

semantic infrastructure

- [SI Main Page](#)
- [Initiatives](#)
- [Requirements](#)

other resources

- [Library of Documents](#)
- [Documentation and Training for Tools](#)
- [Index of Terminologies](#)
- [Standards and Standards Influencing Organizations](#)
- [Outreach](#)

external links

- [VCDE Workspace](#)
- [caBIG® Community Website](#)
- [caBIG® Support Service Providers](#)

help

- [Editing Wiki Pages](#)
- [Editing Forum Posts](#)

■ [Contact Us](#)

search

toolbox


- [What links here](#)
- [Related changes](#)
- [Upload file](#)
- [Special pages](#)
- [Printable version](#)
- [Permanent link](#)
- [Print as PDF](#)


JBoss	4.0.5 or higher	application server	http://www.jboss.org/
Apache Tomcat	5.x or higher	servlet container	http://tomcat.apache.org/
*MySQL or PostgreSQL installation is required.			

Table 2 - Required software and technology for the LexEVS

NOTE:	 <p>Some database drivers are not included with the LexEVS installer. Downloaded drivers are placed in the <code>{LEXEVS_DIRECTORY}/runtime/sqlDrivers</code> and the <code>{LEXEVS_DIRECTORY}/runtime-components/sqlDrivers</code> directories</p>
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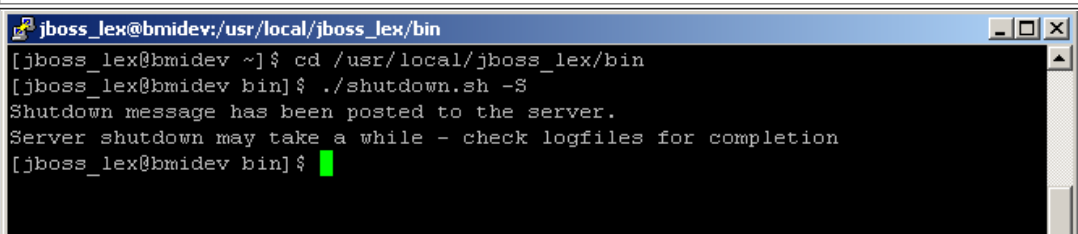
Downloading and installing the web-enabled LexEVS API

NOTE:	 <p>Web-enabled LexEVS requires that LexBIG (soon to be called LexEVS local runtime), be installed and an appropriate database connection configured. Since database loads do not occur in LexEVS, they must be done from the LexEVS local runtime iteration.</p>
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 SUGGESTION	<p>To best understand the installation and testing procedures for LexEVS, it is recommended that you follow the procedures described in this section with minimal deviation.</p>
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Complete the following steps to download and install the LexEVS API:

Note that the screenshots are examples provided for clarification. The version numbers on your filenames may be different.

Step	Action
1	To download the LexEVS API war file go to the NCI GForge web site https://gforge.nci.nih.gov/frs/?group_id=491
2	Select the most recent version of the LexEVS API war file, <code>lexevsapi<xx>.war</code> . You may have a choice between war files tailored for jboss or tomcat installations. Save this file to your computer. You may have to disable pop-up blockers to allow save the install package to your local computer.
3	Shut down your application or servlet container.
	 <pre> jboss_lex@bmiddev:/usr/local/jboss_lex/bin [jboss_lex@bmiddev ~]\$ cd /usr/local/jboss_lex/bin [jboss_lex@bmiddev bin]\$./shutdown.sh -S Shutdown message has been posted to the server. Server shutdown may take a while - check logfiles for completion [jboss_lex@bmiddev bin]\$ </pre>
4	Copy the war file to the <code><server root>/server/default/deploy</code> directory or other appropriate webapp directory.

```

jboss_lex@bmidev:/usr/local/jboss_lex/server/default/deploy
[jboss_lex@bmidev jboss_lex]$ cd server/default/deploy/
[jboss_lex@bmidev deploy]$ ls
bsh-deployer.xml          jms
cache-invalidation-service.xml  jmx-console.war
client-deployer-service.xml    jmx-invoker-service.xml
ear-deployer.xml            jsr88-service.xml
ejb-deployer.xml           lexevsapi50.war
hsqldb-ds.xml              mail-ra.rar
http-invoker.sar          mail-service.xml
jboss-aop.deployer        management
jboss-bean.deployer      monitoring-service.xml
jboss-ha-local-jdbc.rar   properties-service.xml
jboss-ha-xa-jdbc.rar     properties-service.xml.bak
jbossjca-service.xml     schedule-manager-service.xml
jboss-local-jdbc.rar     scheduler-service.xml
jbossweb-tomcat55.sar    sqlexception-service.xml
jbossws14.sar            uuid-key-generator.sar
jboss-xa-jdbc.rar
[jboss_lex@bmidev deploy]$

```

Create a text file named "lexevs.properties" and populate it as a properties file as follows:

(REQUIRED) Set the LG_CONFIG_FILE value to the path of the lbconfig.props file of your LexEVS installation:
 LG_CONFIG_FILE=/home/LexEVS/resources/config/lbconfig.props

(OPTIONAL) Enable Security for a given Coding Scheme

The first value is the CodingScheme name/uri, and the second is the Security Implementation class name.

This class MUST implement the interface gov.nih.nci.system.dao.security.DAOSecurity

MedDRA=gov.nih.nci.system.dao.security.MedDRASecurity

5

NOTE: Security must be set up for all ways off accessing a Coding Scheme, for example, by URI, Name, Formal Name, etc...

Example:

LG_CONFIG_FILE=/home/LargeStorage/services/lexbig/5.x.alpha_MySql_MultiDB/resources/config/lbconfig.props

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

6

Adjust the properties-services.xml file shown above in jboss or otherwise place the lexevs.properties file in the container's classpath. Jboss' properties-service.xml should have something similar the following value added: <attribute name="Properties">org.LexGrid.LexBIG.caCore.Properties=<path to properties>/lexevs.properties</attribute>. In Tomcat placing the file in the conf dir or the /webapps/lexevsapi5x/WEB-INF/classes directory should suffice.

7

Restart the container.


```

jboss_lex@bmidev:/usr/local/jboss_lex/bin
[jboss_lex@bmidev bin]$ ./run.sh

```

8

Verify the installation by navigating to <your server's address>/lexevsapi5x

 National Cancer Institute
U.S. National Institutes of Health | www.cancer.gov

EVS Enterprise Vocabulary Services

HOME
JAVA DOCS

WELCOME TO LexEVS
SELECT CRITERIA

Continue

LexEVS is a collection of programmable interfaces that provide users with the ability to access controlled terminologies supplied by the NCI Enterprise Vocabulary Services (EVS) Project. The controlled terminologies hosted by the NCI EVS Project are published via the Open-Source LexEVS Terminology Server.

The LexEVS 5.0 Release includes the following components:

- **Java API** - A Java interface based on the LexGrid 5.0 Object Model
- **REST/HTTP Interface** - Offers an HTTP based query mechanism. Results are returned in either XML or HTML formats
- **SOAP/Web Services Interface** - Provides a programming language neutral Service-Oriented Architecture (SOA)
- **Distributed LexBIG (DLB) API** - A Java interface based on the LexGrid 2009/01 data model and relies on a LexEVS Proxy and Distributed LexEVS Adapter to provide remote clients access to the native LexEVS API
- **LexEVS 5.0 Grid Service** - An interface which uses the caGRID infrastructure to provide access to the native LexEVS API via the caGRID Services

References:

- [caBIG® Vocabulary Knowledge Center and LexEVS API GForge site](#) - Contains news, information, documents, defects, feedback, and reports
- [LexEVS 5.0 API Download site](#) - Contains documents, information, and downloads for the LexEVS API
- [LexEVS 5.0 Release Notes](#) - Contains the release history information, highlights New Features and Updates, Bug fixes since the last release, identifies Known Issues, and provides information on documentation and other helpful reference links.
- [caGRID Portal](#) - Link to the caGrid Portal/Browser
- [LexEVS 5.0 Analytical Grid Service URL](#) - URL of the LexEVS 5.0 Analytical Grid Services
- [LexEVS 5.0 Data Grid Service URL](#) - URL of the LexEVS 5.0 Data Grid Services

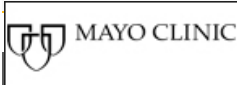
LexEVS 5.0 is a caCORE Software Development Kit (SDK) generated system. The caCORE SDK is a set of tools that can be used by an intermediate Java developer to create a caCORE-like system. Such systems are constructed using certain design principles:

- UML Modeling
- N-tier architecture with open APIs

Troubleshooting

If the LexEVS local runtime is properly installed and tested then web-enabled LexEVS 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.

[Categories: VKC Contents](#) | [Documentation](#) | [LexEVS](#)



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