

2 - LexEVS 6.x Prerequisite Software and Supported Platforms

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Supported Platforms

The servers listed in the table below represent hardware that LexEVS has been tested on.



Warning

These servers **do not** represent the minimum hardware required for loading any terminology. The LexEVS Local Runtime performs adequately in an environment with a memory limit of 4GB, but users cannot load larger OWL files, such as the full NCI Thesaurus or NCI Metathesaurus, in such environments. Users will have to load such terminologies on more powerful hardware. There does not exist a list showing the minimum hardware for a given terminology. Please refer to the [VKC Support page](#) for more information.

Testing Environments

–	Linux Server	Linux Server	Linux VM Server	Windows
Model	Dell Poweredge 2900	Penguin Computing Tempest 2900	Guest OS Linux	Dell Latitude
CPU	2 x Intel® Xeon™ E5405 Quad Core Processors 2.00 GHz	Dual AMD Opteron 248 processors (64 bit)	AMD Dual-Core 3220 Opteron	1 x Intel® Core-Duo™ Processor 2.6 GHz
Memory	32 GB	16 GB	6 GB	8 GB
Local Disk	3.6 TB Raid 5 disk array	250 GB Raid 1 disk drive(s) 250 GB stand alone disk drive	50 GB	System 1 x 80GB
OS	CentOS release 7.0	Fedora Core 22	Red Hat Enterprise Linux Server release 5.5 (Tikanga)	Windows 10

Prerequisite Software

Required Software - Not Included in LexEVS

You must download and install required software which is not included with the LexEVS distribution.

Where you have more than one choice you simply need to decide which one product you would like to use with your deployment of LexEVS.

Supported versions of other related technologies can be found listed in the [NCI CBIIT Technology Stack](#) pages. *Differences between the LexEVS supported software and the NCI CBIIT Technology Stack are negotiated by the LexEVS development team with NCI.*

Required Software for LexEVS

An **X** character marks software that is required while NA means not applicable.

Software Type	Supported	Local Runtime	Distributed	CTS2 Service	URI Resolver
OS	CentOS release 7.0 Windows 10 Mac OSX 10.x	X	X	X	X
Java runtime	Java version 1.8	X	X	X	X
Database (1)	MySQL 5.7 (LexEVS 6.5)	X	X	NA	X
Database Driver (2)	Mysql driver mysql-connector 5.1.6	X	X	X	X
Container	Apache Tomcat 8.5 Apache Tomcat 8.5 (6.1 URI Resolver, CTS2 Service)	NA	X	X	X

(1) **MySQL 5.7 is the supported and preferred database for LexEVS 6.5.** MySQL 5.7 has been used during the development and in the testing of LexEVS 6.5 MySQL 5.7 is also being used in a production environment for LexEVS 6.5. While the other databases may work for LexEVS 6.5, they have not been tested.

(2) The MySQL database driver can not be included with LexEVS distributions.

Optional Software

Software Type	Supported Versions	NodeGraphResolutionExtension	graph-resolve REST API
Arangodb	Arangodb 3.5.0	x	x
SpringBoot	Spring Boot 2.1.8 graph-resolve	x	x

Developer Specific Software

Not required to run LexEVS

These applications are not included in LexEVS

The following software applications are not required for a standard installation of LexEVS. Users who download the source code may find them useful when running in a development environment. LexEVS runs against Java 8.x run times, and must have Java 1.8 to compile.

Optional Software for LexEVS

An **X** character marks software that you may want to obtain while NA means not applicable.

Software Type	Supported	Local Runtime	Distributed	CTS2 Rest Services	URI Resolver
Eclipse	Eclipse v 4.6.x	X	X		
Java SDK	jdk version 1.8	X	X		
Apache Ant	Apache Ant 1.8.x	X	X		
Maven	Maven 3.x	NA	NA	X	X
Git	Git 1.9.x	X	X	X	X