

# LexEVS 6.0 Design Document - Implementation Requirements

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**Contract:** CBITT BOA Subcontract# 29XS223  
**Client:** NCI CBIIT  
National Institutes of Health  
US Department of Health and Human Services

## Revision History

| Version | Date    | Description of Changes                     | Author |
|---------|---------|--------------------------------------------|--------|
| 1.0     | 5/14/10 | Initial Version Approved via Design Review | Team   |

Implementation requirements will include the technical environment (HW,OS, Middleware), external dependencies, teams/locations performing development and procedures for development (e.g. lifecycle model,CM), and a detailed schedule.

## Technical environment

No new environment requirements exist for the the LexEVS 6.0, with the exception of load balancing servers.

## Software (Technology Stack)

### Operating System

- Linux (though no operating system dependencies currently exist)

### Application Server

- JBoss 4.0.5

### Database Server

- MySQL 5.0.45

### Other Software Components

- caGrid 1.3 / Globus 4.0.3

## Server Hardware

### Server

- NCI standard hardware.

### Minimum Processor Speed

- Minimum required by JBoss.

### Minimum Memory

- Minimum required by JBoss.

## Storage

### Expected file server disk storage (in MB)

- 200GB

### Expected database storage (in MB)

- 100GB

## Networking

### Application specific port assignments

- Standard port required by JBoss to externalize LexEVS grid service. May be assigned any suitably available port #.

### JBoss Container Considerations

There are specific requirements for JBoss containers for LexEVS 5.1.

In order to support multiple versions of LexEVS (for example 5.1 and 6.0), there are JBoss considerations.

- Both lexevsapi 5.1 and 6.0 in the same container. This means that both <http://lexevsapi.nci.nih.gov/lexevsapi51> and <http://lexevsapi.nci.nih.gov/lexevsapi60> can exist in the same Jboss container.
- Grid services can NOT be in the same JBoss container because of naming - they both need to be named /wsrf in the container. This results in the use of 1 JBoss container for LexEVS 5.1 and 1 JBoss container for LexEVS 6.0.

## External dependencies

N/A

## Team/Location performing development

- Traci St. Martin / Mayo Clinic
- Craig Stancl / Mayo Clinic
- Scott Bauer / Mayo Clinic
- Kevin Peterson / Mayo Clinic
- Sridhar Dwarkanath / Mayo Clinic
- Michael Turk / Mayo Clinic

## Procedures for Development

Development will follow procedures as defined by NCI.

## Detailed schedule

The LexEVS 6.0 project plan is located in the [LexEVS docs Gforge archive](#) (6.0 Management).

## Training and documentation requirements

Documentation for LexEVS 6.0 is located at [LexEVS 6.x Documentation](#) .

## Download center changes

Downloads for LexEVS 6.0 are located at [LexEVS 6.0](#)