

## Requirements for AEON Language Module and SCORM Packages Deployed on Moodle LMS

### **Disclaimer:**

This outline of system requirements is based on developer documentation from Moodle.Org, Adobe Systems, Apple Inc., CentOS and Red Hat, and Danga.Com. This information was collected in July 2009. If this implementation is used after June 2010, it is recommended that all the technologies and strategies be revised.

This implementation uses some open-source technologies, but many of the recommended technologies must be purchased.

Average bandwidth per-user can only be estimated. The industry baseline for Flash and Shockwave based activities is 2-3 megabytes per 3-5 minutes. It is hard to measure due to the nature of the media. Once a user loads a section they do not pull anymore bandwidth until they continue to the next section.

## **Requirements for AEON Language Module and SCORM Packages Deployed on Moodle LMS**

### **Overview**

---

The assumption for this project is that it will be hosted in a single data-center, and managed by the data-center. The design will handle the load of 50,000 concurrent users. The hosting will use dedicated servers instead of VPS based solutions. The hosting company will not apply bandwidth limitations on a per month basis.

Also, since this project will be hosted in a data-center, it is assumed the data-center is meeting ISO 9001 data-center requirements for security and archiving. The proposed design may have to be altered to fit into the data-center schema.

The design is divided into four main areas:

1. Reverse Proxy
2. LMS Web Server(s), LMS Data Server, and Media/Streaming Server
3. Memcache
4. Database Cluster

The data-center may have technologies in place to assist in caching Internet requests, clustering, etc. The most important thing to remember is that the LMS Data Server is not the same as the LMS Database Cluster. The LMS DATA Server is where the LMS stores uploaded files for the LMS administrators and all users and the session data.

**These requirements should be followed or exceeded for all machines, exceptions will be noted.**

**CentOs 5.0 / Red Hat 4.0 – 5.2 64bit Server**

**Quad Xion 8Gb RAM 64Bit Processor**

**1Gb Ethernet card**

**\*Storage will vary.**

*See Diagram on Page 3.*

**Requirements for AEON Language Module and SCORM Packages Deployed on Moodle LMS**

