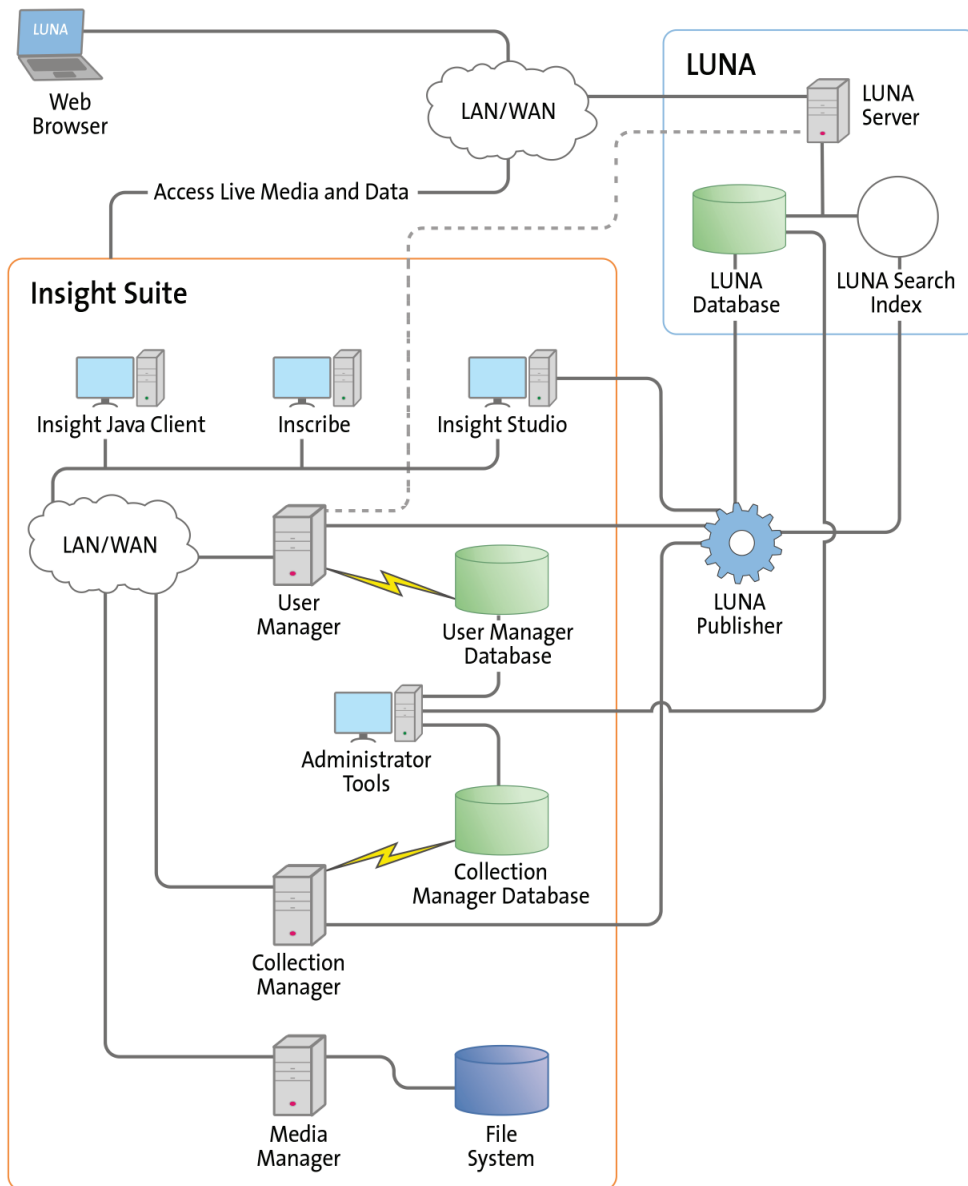




## Insight® + LUNA Architecture and System Requirements

Insight® has a dynamic multi-tier architecture built on the client-server model, which allows it to adapt to an institution's needs and requirements.

Figure 1: Insight Component Diagram



## Components of the Insight® v6.2 + LUNA

### Access

**LUNA:** LUNA is the dynamic web-based front end to Insight collections. With LUNA, users can browse categories or perform simple keyword searches as well as more complex structured queries, and control how they view, browse, and organize their results to create groups and presentations. LUNA includes Web 2.0 tools that enable end users to save and share their work by linking and embedding any view, image, group, or presentation.

**Java Client:** The Insight Java Client provides an additional interface for searching, viewing, and managing images, audio, video, and other media. The Java Client also provides end-user collection building tools with Personal Insight and the ability to create Virtual Collections—a subset of content with different access levels.

### Collection Building

**Inscribe™:** The optional Inscribe data editor is an end-user cataloging tool designed to support all of an institution's cataloging needs. The Inscribe data editor includes built-in support for controlled vocabularies, date and numeric validation, and complex data relationships. Inscribe also supports an institution's workflow requirements by facilitating the publishing and review processes.

**Studio:** Studio provides collection administrators with the tools to build and manage collections. Studio is a wizard-based tool supporting batch processing of media, batch import of metadata, user management, catalog template creation and management, and other basic functions. The LUNA Publisher is accessible from within the Studio client.

**LUNA Publisher:** The LUNA Publisher is launched through the Studio client and enables collection owners to publish their Insight collections to LUNA. The LUNA Publisher communicates with the Collection Manager and receives scheduled data updates to store in XML format. It then converts the archived data into a Lucene index for each collection and merges all collection indexes into one single search index.

**Administrator Tools:** The Administrator Tools allow a collection administrator to dynamically manage collections. Components of the Insight Administrator Tools include tools for batch media processing, user and resource management, data indexing, and configuring of the search and user interface.

**Image Processing:** The Administrator Tools and Studio include a JPEG2000 Wavelet Encoder. Wavelet encoded images improve performance when accessing large images, reduce storage requirements, and optimize network usage on image delivery.

### Server Components

**LUNA Server:** The LUNA Server is the server side component behind the LUNA client. Collections published to LUNA are indexed on the LUNA Server. The LUNA Publisher will automatically update the indexes based upon a schedule that you define.

**User Manager:** The User Manager functions as a single point of entry for all Insight Collections and Personal Insight Managers. It consolidates the functions of authentication and authorization for all shared resources within Insight and for LUNA. The User Manager can integrate with an existing security infrastructure if an institution already has a single sign-on solution in place. The User Manager also provides access to resources such as shared folders and groups within Insight. LUNA enables end-user management of viewing preferences, and storage folders for media groups and presentations.

**Collection Manager:** The Insight Collection Manager provides a common interface between client requests and the underlying data repository. Each Collection Manager may contain multiple collections and Virtual Collections of consistent or heterogeneous structures. The Collection Manager also functions as a broker between the clients (the Insight Java Client, Inscribe data editor, Studio (LUNA Publisher and XML Gateway) and the underlying database, coordinating search requests, and data updates.

## Server Components (cont.)

**Personal Insight Manager:** The Personal Insight Manager is a specialized version of the Collection Manager which supports the creation of Personal Collections with the Insight Java Client.

**Media Manager:** The Insight Media Manager is built around a basic JSP Server, and manages access to Insight's media content. The Media Manager supports direct upload of processed content and also manages access to the JPEG2000 wavelet images that power Insight's Image Workspace.

**Insight XML Gateway:** The XML Gateway provides a web-services based interface for searching and retrieving content stored in Insight collections. The XML Gateway is middleware which allows back-end interaction between Insight and other XML aware applications.

**Static OAI Repository:** Insight has a utility to generate a static OAI repository for any or all Insight collections in accordance with OAI guidelines.

### Separately Licensed:

**Test/Development License:** The Test/Development License enables Insight Administrators to build and test collections on a separate server from their production environment. This License is suitable for building new collections, testing upgraded collections, or testing a second User Manager. Administrators may optionally use the test/development license to act as a fail-over if the production server is off-line.

## Insight v6.2 + LUNA System Requirements

End-User Access	LUNA (and Insight Browser)	Insight Java Client
Supported Platforms	Windows 2000, XP, Vista & MacOS 10.3x, 10.4x, 10.5x	
Supported Browsers	<ul style="list-style-type: none"> <li>- Netscape v4.7+</li> <li>- Firefox 2.0+ (Mozilla)</li> <li>- Internet Explorer v6.2+</li> <li>- Safari 3+</li> </ul>	n/a
Memory	Recommended: 512 MB	
Video	Recommended: 24 bit+ video card	
Monitor Resolution	Recommended 1024 x 768 or larger	

Distributed Collection Building	Inscribe	Studio and LUNA Publisher	Administrative Tools
Supported Platforms	<ul style="list-style-type: none"> <li>- Windows 2000, XP, Vista</li> <li>- MacOS 10.3x, 10.4x, 10.5x</li> </ul>		<ul style="list-style-type: none"> <li>- Windows 2000, XP, Vista</li> <li>- MacOS 10.3x, 10.4x, 10.5x</li> <li>- Sun Solaris (SPARC) 8+</li> <li>- Sun Solaris (X86) 8+</li> <li>- Linux</li> </ul>
Memory	Recommended: 512 MB	Recommended: 1 GB+	
Video	Recommended: 24 bit+ video card		

## Insight v6.2 + LUNA System Requirements (cont.)

Server Requirements for Insight + LUNA	
<b>Supported Platforms</b>	<ul style="list-style-type: none"> <li>- NT/2000/2003</li> <li>- Sun Solaris (SPARC) 8+</li> <li>- Linux (Red Hat and Debian)</li> </ul>
<b>Memory</b>	Minimum 4 GB not inclusive of the database (2 GB for the Insight suite, 2 GB for the LUNA suite). Considerations for additional memory are dependent upon collection(s) size and number of users.
<b>Hard Drive Free Space</b>	Dependent upon collection size and source media <i>(Example: image of 20 MB processed to create derivatives requires ± 2.5 MB of storage space, if you opt to also store the source media 22.5 MB of storage would be required)</i>
<b>Database</b> (database license not included)	<ul style="list-style-type: none"> <li>- Oracle 9i+ (Oracle 8i Insight only—not LUNA)</li> <li>- Microsoft SQL Server 2000/2005</li> <li>- MySQL 4.1+</li> </ul>