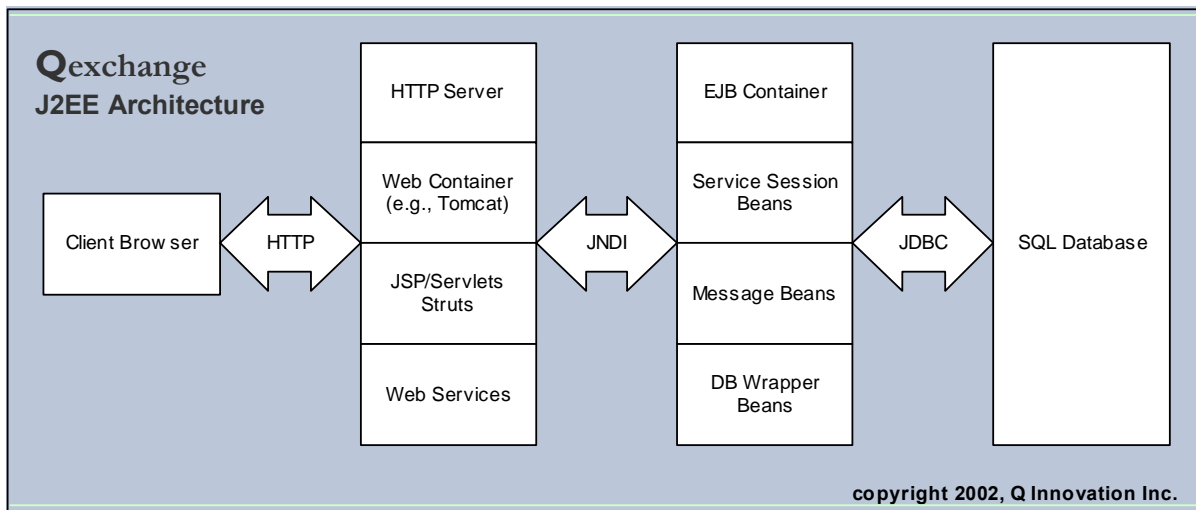


Qexchange technical specifications

Architecture



J2EE	Java 2 Enterprise Edition (J2EE) software application. Compatible with all operating systems that support Java, leading SQL databases and J2EE application servers. Easily integrated with other systems and databases.
nTier	Three main layers, or tiers. The Web Interface layer handles all presentation and user interaction. It is server-based, using a model-view-controller (mvc) framework. The Enterprise Services layer holds the application's core business logic. The Data Access Objects layer provides adaptors to the persistent data store, effectively isolating the Enterprise Services from the Database.
Distributed Components	Consists of component services that can be run on a single server, or distributed across multiple servers for scalability.
Modular	A core module and over a dozen expansion modules. Customers can configure a product from the core module and any number of expansion modules. Additional expansion modules can be added at any time.
Configurable	Nearly all of the features and functionality can be configured, without the need for special customization.
Server / Hosting	Can be installed on customer equipment. Alternatively, Q Innovation offers turnkey hosting services including 24x7 application monitoring, backup, security and disaster recovery plan options.

Requirements

Server Requirements:

Operating System	Microsoft Windows-Intel, IBM AIX-PowerPC, Linux-Intel
HTTP Web Server	Microsoft IIS, IBM HttpServer, Apache
J2EE Application Server	IBM WebSphere, JBoss
Database Server	Microsoft SQL Server 2005, Microsoft SQL Server 2000, PostgreSQL

Client Requirements:

Internet Browser	Microsoft IE 5.0 or later, Mozilla Firefox 1.0 or later, Netscape Communicator
Plug-Ins	None ¹
Applets	None
ActiveX Objects	None

Disk Space (assumes 5,000 documents/files in knowledgebase):

	Disk Space
Qexchange Application	3 MB
Search Index	250 MB
Database	750 MB
Hosted Files	16 GB

Memory:

	RAM
100 Concurrent Users	4 GB
For More Concurrent Users	Add More Memory

¹ Some client-defined content stored in the knowledgebase may require plug-ins (e.g., Adobe Acrobat, Microsoft Office, Flash, etc.)

Benefits

- Highly scalable and readily localized:
 - Application can scale by using multiple web and application servers
 - Components can be distributed across multiple web, application and file servers
 - Message beans can be deployed to separate application servers
- Can be bundled with open source web, application and database servers or used with commercial web, application and database servers.
- Message beans are used for asynchronous processing of:
 - E-mail message queuing
 - Sensor message processing
 - Alerts processing
- Application is packaged as J2EE specified deployment EAR and WAR files which can be deployed remotely, and can be customized to specific web and application servers.

Core Module Features

Qexchange offers a full suite of knowledge exchange features; configurable in a variety of ways.

The core module includes a searchable knowledgebase. The knowledge structure can include any number of client defined categorizing schemes. The knowledgebase is populated using simple, self-service publishing and approval wizards. Knowledgebase content can include any type of digital file, web or email address.

- **Knowledgebase.** Qexchange collects, stores, organizes and distributes an organization's knowledge. The system can be configured as an open knowledge exchange, where all users can contribute to the knowledgebase, or as a facilitated knowledge exchange, where designated users handle content publishing. If all users can contribute, then managing editors are designated to review and approve content before it is made generally available. This open publishing model enables knowledge exchange between people and functions throughout the organization.
- **Self-Service Publishing.** Qexchange provides all the tools needed to populate and manage the knowledgebase. Content is added and updated quickly with easy-to-use wizards. Approvers are notified immediately, via email, when new items are submitted.
- **Basic & Advanced Search.** Users can search the knowledgebase for relevant items. The search feature scans deep into the contents of pdf, doc, xls, ppt, html and many other digital file types. Advanced search allows searches to be filtered by date range and category, keeps track of each user's last 10 searches, and enables users to save commonly used searches.
- **Configurable Knowledge Structure** A flexible, client defined organizing structure enables users to browse the knowledgebase by any number of categories which can be used as menus, and/or to sort and filter lists.
- **User Account Management.** Qexchange includes tools for self-service creation and maintenance of user accounts, profiles and personal preferences. Alternately Qexchange can be integrated with SSO and LDAP solutions for silent authentication.

Expansion Modules and Features

Qexchange is modular and configurable. In addition to the core features, advanced feature options are available.



Exchange with Peers

The **User Affinities** module offers value-added features to enhance the overall user experience and generate dialog that positively impacts the quality of the knowledgebase.

The **User Communities** module enables your organization to operate all the private knowledge exchanges it needs. Support any number of special communities, project teams, practitioner networks, special interest groups and task forces.

The **User Ratings & Reviews** module provides fast, convenient ways for users to provide feedback on the knowledgebase items they use.



Exchange with Experts

The **Expert's Library** module leverages the advanced knowledge of experts throughout your organization. Provide the recognized experts within your organization a convenient, non-invasive method of sharing their advanced knowledge and insight with others.

The **Task Guidance & Support** module provides a performance-centered window into the knowledgebase. Critical job procedures, tasks and protocols are defined for people in key job functions. The most salient information, tools and resources can be found at the moment of need to accomplish the task at hand.



Exchange with Organizations

The **Spotlights** module offers a convenient sidebar where the people in your organization can find news flashes, hot topics, announcements and more.

The **Suggestion Box** module offers a forum for users to share their ideas and input.



Personalized Experience

The **Alerts** module offers a set of personalized alert features to notify people when items of interested are added or updated. Alerts can be "pulled" by users on a subscription basis, or "pushed" to specific audiences by content owners.

The **Recent Selections** module keep track of your last three selections. It is updated in real-time, requires no maintenance and is personalized for each user.

The **Role-based Views** module ensures that the right people have access to the right knowledge, based on their user profile. For example, content that is important to engineers may not be useful to financial professionals. By associating content with the appropriate user groups, users can find what they need more easily.



Continuous Improvement

The **Link Validity Management** module assures the items in your knowledgebase are always readily accessible.

The **Shelf Life Management** module offers tools to help keep the knowledgebase current and accurate.

The **Tracking & Reporting** module provides real-time data on the knowledgebase and its users.

For more information, visit our web site at: www.qinnovation.net or contact us at sales@qinnovation.net or 610.867.3374 (x11).