
Welcome to Rhombus IM™. This technical data sheet describes the Rhombus feature set for the Rhombus IM Platform version 3.2.

Overview

Rhombus IM is a deployed solution for instant messaging. Rhombus IM supports all of the major features you need to provide secure, audited instant messaging for your enterprise.

Platform Feature Set

Presence Features

- Multiple connected clients per user account
- Full expressiveness (chat/away/dnd/xa, with personal message)
- Real-time presence ordering to determine the “most available” connection.

Messaging Features

- Person-to-person messaging
- Private conferencing
- Public conferencing
- File transfer (tunneled to eliminate firewall issues)
- Connectivity through the Rhombus IM server to AOL Instant Messenger and MSN Messenger

Roster Management Features

- Server-side groups automatically generated from LDAP or Microsoft Active Directory
- Nested groups
- Drag-and-drop group management
- Browseable user directory
- User search capability

Auditing Features

- Message logging to database
- Undeliverable message storage

Security Features

- SSL
- Kerberos authentication and single sign-on

Look-and-Feel

- Users can customize the client’s color scheme, font set, and message display style
- Users can control level of intrusiveness of client, whether it forces windows to the front, makes sounds, or obeys “Do Not Disturb” settings.
- Integrates with the Windows taskbar to easily allow users to change their availability.

Mobile Connectivity Features

- Rhombus IM Mobile technology allows connectivity via J2ME 1.0 compliant MIDlet. (Rhombus IM Mobile Gateway server software and HTTP server required)

Technical/Administrative Features

Protocol Support

- XMPP 1.0 (IETF standards-track protocol)
- Jabber 0.9 Legacy Mode

Third-party Protocol Support

- XMPP clients can connect through the Rhombus IM server to AOL Instant Messenger and MSN Messenger.

Authentication Mechanisms

- Plaintext
- Digest-MD5
- Kerberos

Security Features

- Kerberos single sign-on for high security deployments and integration with non-password based (biometric) authentication procedures
- SSL support for a wide range of key lengths
- Role-based security allows you to restrict privileges on a user-by-user basis:
 - Login
 - Send messages
 - Send broadcasts
 - Connect to third-party service (AOL, MSN)
 - Transfer files

User Database Management

- Live LDAP integration for user account generation and authentication
- User meta-information (name, phone number, email) obtained from LDAP
- Ad-hoc user registration appropriate for portal sites
- Web-based account management for non-LDAP deployments
- Dynamic groups based on existing OU structures in LDAP, or Microsoft Windows groups.
- Role group renaming for consistency with existing naming conventions

Web-based Administration

- Manage all aspects of server configuration via the web:
 - Database setup
 - Directory integration

- Authentication setup
- View message statistics
- Generate conversation transcripts

Server Design Features

- Java implementation runs on most modern platforms.
- Advanced Java NIO (New I/O) design supports thousands of simultaneous connections without using excess threads and system resources. No more thread-per-connection overhead like most Java designs.
- Pluggable design allows integration of user-designed components for additional messaging functionality.
- Complete lifecycle interface for ease of creating new Java-based agents, bots and other administrative applications.
- XML-based logical configuration descriptor makes it easy to install your own logical pieces into the Rhombus infrastructure.

Scalability Features

- Advanced thread pooling architecture takes advantage of multiprocessor machines
- Java NIO support reduces overall thread usage and increases connection scalability

Clustering Features

- Deploy in a cluster using TCP or UDP transport layers
- Connect geographically dispersed servers with a clustered tunnel for connectivity between sites without high throughput requirements.
- Virtual domain support for hosting more than one messaging domain from a single process.

Miscellaneous

- Runs as a Windows service
- Supports multi-homed machines
- Configurable ports and protocols