



Mirth Connect

A powerful, standards-based healthcare integration engine for bi-directional message routing, filtering, and transformation.

<https://www.nextgen.com/products-and-services/integration-engine>

Overview

Mirth Connect, by NextGen Healthcare, is a versatile and robust healthcare data integration engine designed to solve the critical challenge of interoperability between disparate health information systems. Originally launched as an open-source project, it has become an industry-leading tool, with NextGen reporting that it powers one-third of all public Health Information Exchanges in the U.S. and is deployed in over 40 countries.

Key Capabilities and Features:

Mirth Connect acts as a universal translator for healthcare systems, enabling real-time exchange of clinical and administrative data. It supports a wide array of healthcare data standards and protocols, including HL7 v2.x, HL7 v3 (CDA/CCD), FHIR (Fast Healthcare Interoperability Resources), DICOM, X12 (EDI), JSON, and XML. The platform's core functionality is built around its channel-based architecture, which allows users to define message pathways for:

Filtering: Intelligently parsing and filtering incoming messages based on user-defined rules or scripting.

Transformation: Converting messages from one format to another (e.g., HL7 to FHIR JSON) using a graphical drag-and-drop editor or a versatile JavaScript/Java scripting engine.

Routing: Directing messages to one or multiple destination systems securely and efficiently.

Data Ingestion: Connecting to systems via various protocols like TCP/MLLP, HTTP/HTTPS (REST and SOAP), FTP/SFTP, databases (JDBC), and web services.

Licensing and Deployment:

Historically, Mirth Connect was known for its free, open-source version (under the Mozilla Public License 2.0). While older versions remain available as a free tier, new versions (4.6+) have transitioned to a fully commercial, proprietary license model with tiered annual subscriptions (Enterprise, Gold,

Platinum) provided by NextGen Healthcare. It is a cross-platform application (written in Java) that supports flexible deployment, including on-premise servers and cloud environments (e.g., AWS).

Key Features

- HL7, FHIR, DICOM, X12 Support
- Bi-Directional Message Routing & Filtering
- Graphical Data Transformation & Mapping
- Custom Scripting (JavaScript/Java)
- Database & Web Service Connectors
- Real-Time Monitoring and Alerting
- Advanced Clustering (Enterprise Feature)
- Built-in Patient Access API (FHIR-enabled)

Pricing

Model: enterprise

Subscription model with tiered annual licenses (Enterprise, Gold, Platinum) based on server instances for new versions (4.6+). Older versions (pre-4.6) are available as free, open-source software, acting as a functional free tier.

Target Company Size: small, medium, enterprise

Integrations

HL7 v2.x, HL7 v3 (CDA/CCD), FHIR R4, DICOM, X12 (EDI), JSON, XML, REST/SOAP Web Services, JDBC Databases (MySQL, PostgreSQL, SQL Server)

Compliance & Certifications

ONC Health IT 2015 Edition Cures Update, HIPAA

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