

# XEngine Connect

Secure, reliable data exchange

## Introduction

Edifecs XEngine Connect provides the secure and reliable exchange of healthcare documents between providers, payers, clearinghouses and other HIPAA covered entities. Built on principles and rules recommended by CAQH CORE (Council for Affordable Quality Healthcare Committee on Operating Rules for Information Exchange), XEngine Connect is fully compliant with the ACA (Affordable Care Act) Operating Rules mandate.

XEngine Connect can be used standalone for those customers who only need a pure connectivity solution or as a component of the Edifecs Smart Trading solution. XEngine Connect is an integration engine with the added ability to leverage Edifecs components eliminating the need to acquire and integrate visibility and performance management tools.

## Benefits

- Automates CAQH CORE Operating Rules messaging requirements for real-time and batch exchanges
- Adds channels and capabilities to enable interoperability with providers
- Reduces the complexity of managing multiple messaging channels within a mission critical infrastructure
- Reduces time and errors when managing partner status in complex multi-program, multi-project environments

- Speeds time to resolution through visual dashboards and drill through access to current and historical transmissions
- Reduces administrative costs through cost savings associated with automating transactions and message exchange.

Interoperability is key to implementing value based care initiatives and clinical data exchange is fundamental to automating processes such as prior authorization, medical necessity reviews and claims adjudication. 2014 Index CAQH survey finds there is a **\$4 billion** opportunity to reduce costs to both payers and providers solely through completing the automation of eligibility and benefit verification processes.<sup>1</sup>

## Why Edifecs?

Edifecs XEngine Connect enables secure and reliable messaging. Users can configure transport parameters, channel attributes, exchange parameters and security requirements for each connection.

- Transports: HTTP(S) for CORE, TCP/IP for MLLP
- Envelope Standards: CORE HTTP MIME Multipart, CORE SOAP + WSDL, CORE WS-Security, MLLP1, MLLP2
- Partner Configuration: Mailbox, batch, real-time channel management for partners. Enables multiple channels to be defined for each partner and supports easy promotion from test to production environments

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# Capabilities

## Real-Time Message Management

Includes pre-built system channels for real-time CORE processing: (1) user initiated testing service and (2) real-time server managed for production use. Administrators can easily configure the following settings:

- **Endpoint:** Configure multiple endpoints (URL/port) for different processing needs, such as test vs. production.
- **Envelope Header:** Supports CAQH envelope standards with appropriate envelope header validation and responses.
- **Security Model:** Authenticate by user ID/password or X.509 certificates with appropriate error responses.
- **Max # of active sessions:** Throttle based on number of active sessions for graceful performance management
- **Timeout settings:** Enables response handling for timeout conditions based on user settings
- **Size settings:** Dynamically route transactions based on message size and the number of eligibility inquiries in the content. Detect real-time vs. batch scenarios automatically.
- **Integration flexibility:** Supports industry standard integration channels such as MQ, JMS, HTTP, or WS.

## Batch Message Management

Supports both user and system initiated transactions: (1) batch test client tool allows the user to initiate the request and (2) production requests are processed by the batch server system. Batch system channels include the same capabilities as real-time and additionally include:

- **Mailbox Service:** Allows a clean separation between internal processing and connectivity processing using a mailbox service (typically for 270/271 batch transactions). Requests and responses are stored in a secured mailbox and are ready for delivery when requested.
- **Pre-built Responses:** Automatically returns a CORE compliant response if mailboxes are not configured or appropriate for the request.
- **Integration with internal channel:** Supports human message processing such as file system or direct mailbox protocol.

## MLLP Message Management

Includes pre-built system channels for MLLP processing. (1) user initiated and (2) XEngine Connect managed. Out-of-the-box real-time system channels allow the user to easily configure the following settings:

- **Host:** Multiple endpoints (URL/port) can be configured for different processing needs, such as test vs. production.
- **Version:** Support for both MLLP standards with appropriate responses.
- **Security Model:** SSL-based authentication for TCP/IP
- **Maximum number of active sessions:** Throttle-based on number of active sessions for graceful handling.
- **Timeout settings:** Appropriate response handling for timeout conditions.
- **Encoding:** Ability to send messages hex-coded, specifying start block and end block characters.
- **Integration with internal channel:** Flexible integration between channels using real-time synchronous or asynchronous exchanges such as MQ, JMS, HTTP, or WS.

## Tracking and Monitoring

Provides complete visibility of current connection activity as well as the ability to research prior sessions. Capabilities include:

- **Active Session Monitoring:** Provides a statistical dashboard with views of current inbound and outbound sessions.
- **Troubleshooting:** Research problems by easily searching for prior sessions. Filter based on partner, date/time, success/ failure, mode (real-time vs. batch), etc. View transaction event lifecycles and drill into transactions to determine the root cause.
- **Proactive Alerts:** Configure alerts through the XEngine Server Manager product to get immediate notification of conditions. Alerts can be sent to team members based on the type of problem and their areas of responsibilities.

## CORE Partner Configuration

Enables the user to configure settings for each trading partner. Users can define:

- **Partner Profiles:** Supports user configuration of general partner information, such as: partner's EDI identifiers, contact, partner state (production, test), partner status (active, de-active).
- **Partner Agreements:** Configure multiple agreements within a partner profile. Agreement configuration sets message exchange information such as: real-time vs. batch, allowed transaction types, envelope sender/receiver ID, maximum number of active sessions, security settings, etc.

## System Management

Includes an administrator console to manage:

- **Channel State:** Allows administrators users to start, stop and view the state of any system or user channels. Console provides live statistics on all processing to easily determine load and performance of the system.
- **Security Settings:** Allows management of internal users access rights based on role types. Role types provide different levels of access control to limit accidental or unauthorized changes. LDAP and Active Directory integration is supported.
- **Deployment and Promotions:** Allows administrators to easily create full or partial images of the system configuration. Provides an easy mechanism to promote configurations and migrate between development, QA, staging and production environments.



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