

Corepoint Integration Engine™

"I've used other similar tools in the past, but none of them come close to providing a robust, simple to use suite of applications like Corepoint Integration Engine."

Joe Moore, Director of Information Technology/CIO, Radiology Consultants of Iowa

Corepoint Health's customers in various healthcare organizations have gained the benefits of Corepoint Integration Engine, including:

- Reduced cycle time in developing healthcare interfaces through menu-driven, logical builds
- Improved quality of interfaces by checking conformance and testing interfaces as you develop them
- Increased productivity in building and maintaining interfaces with powerful, simple-to-use tools
- Enhanced management of interface connections through proactive, intelligent logging, monitoring and alerting

Corepoint Integration Engine is an effective solution for healthcare organizations that are purchasing their first interface engine, replacing outdated interface technology, or adding a supplemental or departmental interfacing solution.

Communication: Send and Receive

- Send or generate outbound messages
- Manage multiple dynamic behavior profiles to deal with inbound acknowledgements
- Manage inbound messages and generate HL7 acknowledgements
- Handle HL7 resends
- Manage communication with multiple applications
- Support unrestricted and non-blocking data flow
- Resolve MLP implementation and communication problems

- Provide pre-configured sender and receiver logic
- Read, write, query, insert, and/or delete data in any ODBC Database

Message: Map and Route

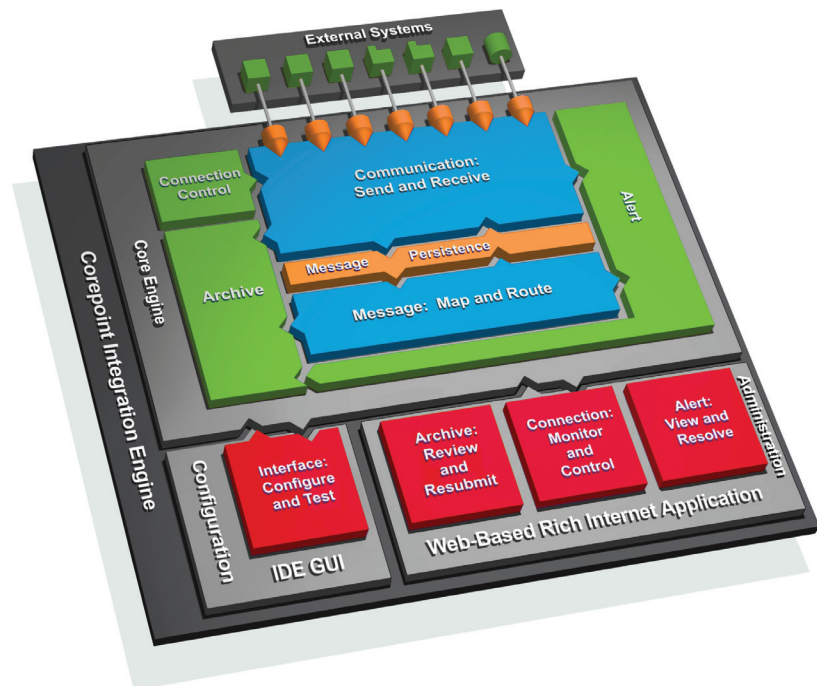
- Use preloaded definitions of messages, segments, fields and data types for all HL7 2.x versions actively used in the field
- Support for XML messages created using HL7 version 3, custom XSDs, and new standards including Continuity of Care Record (CCR), HL7 Clinical Document Architecture (CDA)
- Support for X12, DICOM and NCPDP
- Include ASCII or UNICODE character sets
- Process repeating fields, repeating segments, groups of segments, etc.
- Handle one input message to produce 0-to-n output messages through dynamic, content-based routing
- Transform XML documents into HL7 messages

- Run HL7 conformance checks using sample messages, testing the HL7 derivative configuration; reinforce the HL7 objective of keeping compatible versions and ensuring data integrity
- Pass messages through as unparsed objects

Interface: Configure and Test

HL7 Support:

- Review the history of any configuration object, and edit configuration objects without impacting the running engine service
- Leverage the entire HL7 standard as the starting point for each interface
- Allow user-defined variations in messages (e.g., making segments or fields optional, required or rearranging, etc.)
- Configure and leverage vendor-specific HL7
- Configure messages easily to reduce integration work
- Create Z segments and custom messages
- Validation check on user-defined HL7 messages



- Summary view and HL7 messages filtering available

Message Definition:

- Configure message mapping easily to reduce integration work
- Define filter criteria such as ‘Only send A04 and A08’ and ‘Remove all outpatients from data stream’ through GUI-based tool
- Adjust coded values such as replacing “M” to “1” for Male
- Point-and-click GUI to move data from point A to B in a message
- Print and save HL7 message definitions and configuration files for clear documentation
- Completely reformat interface message without writing any compiled code or interpreted scripts
- Test mapping operations in GUI testing screen before using in a running connection
- Export interface configuration

Alert Configuration:

- Configure alerts flexibly according to time and severity thresholds, including:
 - By day
 - Time of day
 - Type of day (e.g., weekday, weekend, holiday)
 - Thresholds (seconds, minutes, hours)
 - Who receives alert
- Receive alerts based on:
 - Queue depth
 - Message error
 - Connection activity
 - Connection status
- Assign unique alert configurations to different interfaces
- Set escalation of alerts if no change in status or new threshold is met
- Store and view alert and resolution log

Alert: View and Resolve

- Automatically monitor connection states and related conditions, and raise alerts when problems occur

- Display alerts in an administration console
- Send alerts via email to pagers, cell phones, etc.
- Support for quick resolution of alerts

Archive: Review and Resubmit

- View message logs for each connection by day, including session, error, and alert information
- View messages over a range of days
- Search for messages by message content, history, and metadata attached to the message
- Edit messages easily, especially useful in testing
- Re-send messages to resolve problems quickly

Connection: Monitor and Control

- Display color-coded icons and connection conditions for quick viewing with tie-in to alert system
- Tailor display and easy control of the connections’ view in the monitor
- Filter HL7 messages by content (e.g., find me all ADT for patient #127451)
- Examine:
 - Connection state (Is the connection working?)
 - Idle time (Is there any issue with the message flow on a connection?)
 - Message queue depth (Is there a delay in message processing?)
 - Centralize interface connection management

Web-based administration console:

- User Roles: determine access to interface environment.
 - Corepoint Integration Engine: logon credentials stored in Corepoint Integration Engine
 - Window user: authentication is carried out using Windows username and domain name credentials
 - Windows group: authentication is carried out using Windows local groups.

- User Profiles: provide added security in determine permissions
- Engine: start and stop service, view engine log, manage licenses
- Configuration: view and export configuration objects, modify and import configuration objects, manager users, configure and monitor Corepoint Integration Engine
- Connections: view connection status, start and stop connections, view alerts, resolve alerts, view connection log, view message log, resend messages
- Graphical Views:
 - Quick View: Get high level monitoring with quick view. See all of your connections from a high-level view. Color display provides status of your connections real-time.
 - Alert View: See alerts as they happen for quick action and resolution.
 - View and Manage Logs: Conveniently view and manage logs within the management console with the ability to filter messages based on message content and or time of day.

Ensure High Availability

- Assured Availability (A2) for Corepoint Integration Engine simplifies high availability and enables an easy-to-implement solution that delivers confidence constantly.
- Delivered natively.
- Ensures continuous processing of critical patient data exchanges without the need to setup complex, maintenance-intensive clustering environments.