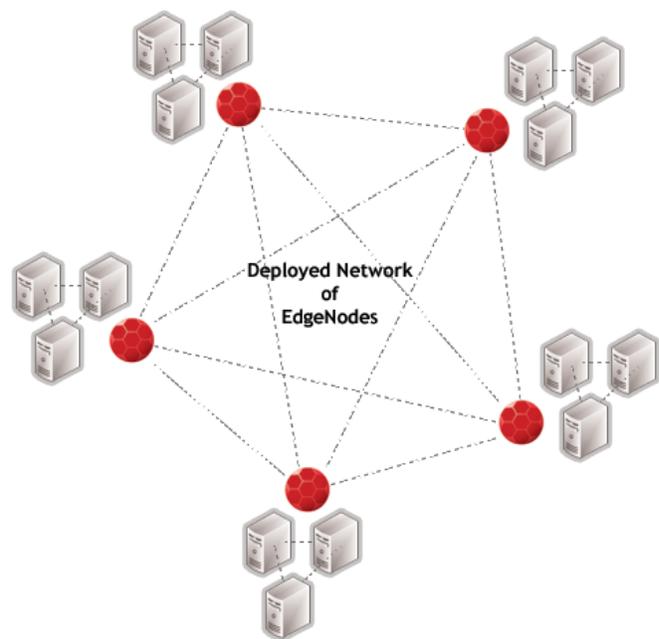


EdgeNode is an innovative software platform that facilitates cost effective business coordination between otherwise independent entities.

EdgeNode creates a “members-only” network between associated but independent entities that implements the cooperative processes necessary for them to coordinate and work together. It augments existing local software application systems by flexibly interfacing those systems and then coordinating the multiple steps involved in “inter-enterprise” processes.

The EdgeNode gateways install at each “node” of the network and communicate with each other on behalf of the local member. They implement “process templates” that guide messages between the nodes and define actions needed to accomplish the process. The resulting solution gets members and their existing software systems working together.



As an example, consider a group of independent healthcare providers seeking to coordinate patient care. A doctor wants their patient to pursue a particular “course of treatment” that requires several steps (get an MRI, see a Specialist, come back) and several entities (an Imaging Center and Hospital) to complete. It is important that each step be completed in a timely fashion to ensure quality patient care and efficiency criteria. EdgeNode makes it easy to pre-define a “process template” for such a course of treatment and then coordinate its execution between the entities involved. Such a “process” may include scheduling appointments, sending reminders, tracking progress, and securely sharing needed information.

The services provided by the EdgeNode platform include:

- **Process Templates:** The ability to define and implement a “business process” between members of a network. This definition includes:
  - **Multi-Step Actions:** Performed by a gateway on each message. Includes such actions as data enhancement, validation, and review/approvals.
  - **Coordinated Multi-Party Actions:** Routing messages to multiple gateways in sequence for coordinated action.
- **Semantic Interoperability:** Mapping of data between source and destination formats, including standards-based (e.g., HL7) and proprietary (e.g., EHR, PACS).
- **Data Encryption:** Protect down to the data element (field) level. Ensures security of sensitive or confidential information while in transit and at destination.
- **Authentication:** Entity and User level authentication creates a closed network of know parties and ensures source/destination of each message. Enables field level data protection by role of accessing party.
- **Audit Trail:** Digitally signed copy of all interactions is available locally at each node to ensure a nonrepudiable history of the activity.
- **Flexible Interfacing:** Standard message queues allow for integration of EdgeNode with a variety of standard local applications.
- **API’s for Customization:** Access to gateway features to allow implementation of custom collaboration activity.



## EdgeNode

### the perfect solution to ...

- automate interactions between otherwise independent entities with a need to work together.
- leverage existing software systems in the solution rather than replacing them.
- provide semantic interoperability between a sender's systems and the receiver's.
- share associated information directly, party-to-party without entrusting a 3rd party.
- provide access to sensitive data restricted to those with authorization.
- create an assured audit trail of all interactions.

## Specifications

Language	Pure Java
Operating Environments	Windows, Unix/Linux, iOS, Android
Transports	TCP/IP, JMS, DIRECT, others
Semantic Standards	MDMI Data Mapping

## EdgeNode Components

Each EdgeNode gateway provides a basic set of seven services essential for *Connect to Collaborate* solutions. These are:

**Message Abstract Queue** - Integrates and wraps all major message transports providing maximum solution flexibility, e.g. SOAP, DIRECT, TCP/IP, JMS, etc.

**Payload Mapper/Validator** – Provides semantic interoperability for the message payload between public and proprietary message standards, such as HL7 messages and vendor formats.

**Transaction/Message Processor** – Provides fully distributed message processing between EdgeNode gateways including dynamic message routing, custom processing, and maintaining message history.

**Transaction Database** - Embedded database keeps a record of all messages and transaction states.

**Data Security Module** – Uses state-of-the-art PKI security to provide encryption and digital signature of messages. Security can be applied at the data element (field) level to allow for selective access based on user authority.

**Client Processor & Formatter** – Provides an interface to EdgeNode services for application level code. Allows customization of message interactions at the node and the accessing/storing local data from local applications.

**Configuration Data Store** - Metadata store provides controls all aspects of EdgeNode runtime, allowing a "Configure rather than code" approach.



### For More Information:

Email: [sales@firestarsoftware.com](mailto:sales@firestarsoftware.com)

Visit: <http://www.firestarsoftware.com>

*FireStar Software and EdgeNode are trademarks of FireStar Software, Inc.*