# eXceLon™

# BPM

## Business Process Manager™

**The emergence of standards and Web Services-based architectures creates the opportunity to rapidly implement, monitor, and continually update business processes. These processes span multiple systems and constituents across the value chain, integrating a corporation's suppliers, customers, and trading partners. Analyst firms have introduced phrases like "the Enterprise Nervous System" or "Enterprise Commerce Management" to describe this new era of flexible computing, which is characterized by the deployment of Composite Business Applications. Composite Business Applications create return on investment by extending existing software assets in support of new processes that connect a corporation with its value chain. These applications can be continually audited and adapted to keep pace with rapidly changing business cycles.**

## Define The Business Process

eXcelon's Business Process Manager (BPM) is an XML-based business document rules engine that manages dynamic processes across the extended enterprise. BPM implements any process described in ebXML or any other XML-described format and is the most robust tool on the market today with respect to usability, manageability, and process optimization. BPM's innovative use of a business document repository enables organizations to capture key business performance indicators in parallel with real-time data aggregation to deliver leading-edge business performance results. This high-level approach enables business people to define the business processes that support today's dynamic marketplace.

## High-Performance Management

BPM supports the integration of complex, long-running business processes that execute over the course of days, weeks, and months. These highly collaborative internal and external business processes capture multidimensional problems to globally connect people, systems, and external events across the value chain. In this regard, BPM functions as follows:

- BPM uses leading standards, like ebXML or any format defined in XML, that allows you to model and execute transactions and collaborations between applications and people both within and outside of your enterprise.

- BPM manages all aspects of the execution of parallel business processes from beginning to end.

- The BPM process is composed of a sequence of activities implemented as business documents and managed in a central business document repository. The central business document repository provides the following advantages:

- Allows for effective management of changes to both internal and external systems that support a business process across diverse and loosely coupled systems.

- Captures all data, including external partner data, which existing systems have difficulty handling. This helps maintain the reliability and integrity of systems and processes.

- Stores documents in a granular, content-rich XML format that can be measured and analyzed in a document state and tested against key performance indicators. This auditing mechanism provides significant "business intelligence" about how to optimize processes over time.

## Technical Components

**XML-Based Business Process Flow Engine -** Manages long-running transactions and real-time message events and is not limited to simple request/response interactions.  This enables a company to model and track arbitrary, complex business processes spanning days, weeks or longer that can include customers, suppliers, partners, employees, and existing business systems.

**Powerful Process Modeling -** Easily build complex business processes by dragging and dropping customer-defined or pre-defined activities from a toolbox.  Design and maintain processes at the business analyst level.  Processes are defined as UML activity diagrams with the ability to translate to and from the Business Process Modeling Language (BPML).  It includes a built-in document-based rules engine.

**Standards Support -** Provides support for EDI, OAG, RosettaNet, ebXML, cXML (Ariba), xCBL (Commerce One), and is extendable to support other arbitrary protocols and standards.

**Advanced ebXML Support -** supports the ebXML Messaging Service (TRP), Trading Partner Information (CPP/CPA), and Business Process Specification Schema (BPSS).

**Partner-Independent Process Definition -** The process definition is separate from the communication being conducted with the partner (along with the documents and message protocols that the partner uses). This allows for transactions in ebXML, RosettaNet, or proprietay protocols within the same business process to be executed.

**Dynamic XML Engine -** BPM is based on the high performance Extensible Information Server (XIS) which maintains full transactional consistency of business documents in pre-parsed native XML, allowing for high-speed multi-document queries and reporting.

**Service-Based Architecture -** Adds and maintains partners and processes quickly without breaking existing running instances.

**Security -** Protects sensitive corporate data and transactions. Supports X.509 digital certificates, SSL encryption, user ID/password authentication, access control lists, non-repudiation and audit logging.

**Distributed Architecture -** Ensures high-performance as content and messaging volumes increase.

**High Availability -** Supports clustered software environments such as Veritas Cluster Server for high availability.

**Recoverability -** Supports full recoverability of business processes in the case of a system crash.

**BPM Administration -** Runtime system monitoring and management is accomplished via a browser-based management console. This tool lets adminitrators perform a variety of tasks including:

- Node Management
- Participant management
- Collaboration management
- Worklist management
- Routing rule definition

**J2EE Interoperability -** Easily integrates with existing J2EE based infrastructure.

**Partner Support -** Enables even smallest partners to communicate and share information using only a Web browser (no need to install software at partner sites).

## System Requirements

## Windows

- 310MB of available disk space for full installation
- 200MHz Pentium CPU or higher
- Windows NT 4.0 Service Pack 4 or higher, Windows 2000
- Internet Explorer 5.0 or higher, Netscape Navigator 4.7 or higher
- Java Development Kit (JDK) 1.3 or higher
- Java development environment for developing and testing Java applications

## Solaris

- 270MB of available disk space for full installation
- Sun SPARC 5 or higher class machine
- Solaris 7 or higher
- Internet Explorer 5.0 or higher, Netscape Navigator 4.7 or higher
- Java Development Kit (JDK) 1.3 or higher
- Java development environment for developing or testing Java applications

# eXceLon™

**www.exln.com**