



Select Engagements: ebXML & Web Services Strategy

Chaeron provided emerging technology (ebXML and Web Services) strategic planning for a top-tier, Fortune 5 Automotive Manufacturer during this 4 month engagement. Deliverables/responsibilities included:

- ◆ Creation of comprehensive Service-Oriented Architecture, Web Services and ebXML (B2B) strategies and recommendations
- ◆ Evaluation and recommendation of standards, vendors and products to execute the strategy
- ◆ Negotiation of vendor agreements for resources, products and support (many at little/no cost)
- ◆ Creation, management and motivation of a multi-partner ebXML/Web Services implementation team
- ◆ Delivery of a combined ebXML and Web Services reference implementation that broke new ground in the end-to-end integration of design/modeling of business processes, integration of back end fulfillment systems, negotiation of trading partner agreements, execution of B2B transactions and management/operational monitoring of the complete solution.
- ◆ Delivery of comprehensive documentation spanning strategy, tactics, implementation and operations.
- ◆ Presentation of strategies and recommendations (PowerPoint) to various client divisions, senior IT management and senior Architects.

The ebXML/Web Services Reference Implementation was envisioned/managed by Chaeron and delivered a tangible implementation that integrated a comprehensive ebXML B2B trading partner solution with seamless Web Services integration of back end fulfillment systems, based on commercial available tools and products. This implementation broke new ground and demonstrated a level of end to end integration for ebXML technology that was the first and only such implementation of it's kind. The RI encompassed and demonstrated the 5 major phases of an ebXML implementation: Design/Model, Integrate, Partner, Execute and Manage.

1. **Design/Model** – A Business Analyst/Process Modeler used a graphical UML design/modeling tool to create or rework the business process and then automatically generate the BPSS definition of the process. A form-based tool was used to create the CPP. The BPSS and CPP would be stored in the repository (eg. publishing info).
2. **Integrate** – The ebXML Business Service Interface (BSI, typically a BPM engine) was integrated to back end fulfillment systems, using a Service-Oriented, assembly-based approach to legacy system integration. Back end services were exposed as Web Services, since ebXML interoperates well with Web Services technologies.
3. **Partner** – This included the discovery process where a trading partner finds potential business partner information (BPSS and CPP) in the registry. A negotiation process then commences which typically involves purchasing, contracts, and the creation of the CPA as the intersection of the two CPPs. Lastly, both partners configure their ebXML infrastructure by installing the agreed CPA into their respective MSH's. ebXML makes it easy to implement the technical parts of the communications between partners (just install a CPA into your MSH).
4. **Execute** – B2B transactions are executed which in turn call the back end fulfillment systems (exposed as Web Services in the RI). ebXML provided business collaboration characteristics such as reliable messaging, non-repudiation and process choreography. End to end integration of the B2B process was facilitated by using a BPM engine for management of both public (between partners) and private (back end fulfillment) processes.
5. **Manage** – This included operational monitoring of the system, end to end, showing both the MSH ebXML transactions and Web Services invocations and reporting of key management metrics and statistics regarding B2B trading.

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