BizTalk Server 2000

Introduction

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Agenda

- BTS in context
- What does it do?
- How does it work?
## BizTalk Initiative

**To automate business process integration using Internet-standard protocols and formats**

<table>
<thead>
<tr>
<th>Framework</th>
<th>Products</th>
<th>Industry</th>
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<tbody>
<tr>
<td>- BizTalk Framework (conventions for open XML usage)</td>
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<td>- Industry investments (support for industry grammars)</td>
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<td>- Community Services (<a href="http://www.biztalk.org">http://www.biztalk.org</a>)</td>
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<td>- Content Library Services (for storing schemas)</td>
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<td>- Third party products, services and tools</td>
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<td>- Windows 2000 (XML/XSL support in platform)</td>
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<td>- Visual Studio (tools for working with XML and data)</td>
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<td>- BizTalk Server 2000 (business process integration)</td>
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<td>- BizTalk Initiative</td>
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What does it do?

Sys X

Sys Y

POs

Invoice

Trading Profiles

Trading Profiles

Web

Sys Z

Hear – Dial tone

Understand

Cooperate

Protocol transformation

Message transformation

Orchestration
Messaging Core Tasks

- Read message
- Decode/decrypt (if necessary)
- Discover document format
- Extract individual documents
- Extract routing parameters
- Perform inbound policy check
- Convert native documents to XML
- Identify specific processing rules (pipelines and agreements)
- Record tracking information (if desired)
- Perform translation (if necessary)
- Render native target format from XML
- Add digital signature (if desired)
- Perform encryption (if desired)
- Transport documents
BTS Message Architecture

Applications (e.g., SAP, Commerce Server 4.0)

Trading Partner via HTTP/SMTP Etc.

Analysis (Browser UI)

BizTalk Server Group

Document Tracking

BizTalk.org Repository

WebDAV Repository

Admin Database

Work Item Database

BizTalk Mgmt Desk (Browser UI and Schema/Map Tools)

System Admin (MMC Snapin)
Routing

- The process of selecting zero or more BizTalk channels through which to pass a document.
- Self-routing: based all or in part on document content.
Five Key Data Elements

1. Source Organization Qualifier.
2. Source Organization Value.
3. Destination Organization Qualifier
5. Document Definition Name.

- Using these keys, a database query is formulated against InterchangeBTM database resulting in list of channels.
- Document is submitted to each channel in the list, error and doc to suspended queue if list is empty.
Format transformation

Example 1: EDI to Flat File
- EDI Document
- Data Parser
  - XML Schema
- XML Document
- XSL Engine
  - XSL Map
- XML Document
- Serializer
- Flat File Document

Example 2: XML to XML
- XML Document
- XSL Engine
  - XSL Map
- XML Document
- XML Document
BizTalk Editor

- Define business document structures
- Generates BizTalk XDR syntax
- XML/Non-XML
  - EDI
  - Flat
    - Delimited
    - Positional
- Document Templates
- Import Modules
  - WF-XML
  - DTD
  - XDR Schema
Schema Mapper

- XSLT Compiler Component
- Create maps - XDR schemas
- Extensible
  - Functoids
  - User Defined
  - Script
- Rich mapping zone
Integrating with BizTalk Server 2000

- Meta-data (XDR)
- Submit/out-bound events
- Send from BTS (AIC, orchestration)
- System setup
- Partnership setup
- BizTalk Framework 2.0