



***BizTalk***

**ml**

Transentia Pty. Ltd. DonationWare

- **Announced spring 1999**
  - key to Microsoft's B2B commerce strategy
    - *two core issues:*
      - application integration today is too hard, too costly and too complex
        - *strains the capabilities of most large and small companies alike*
      - the next wave of electronic commerce is going to require massive amounts of application integration across trading partners
    - two parts:
      - *the BizTalk Framework, which defines how companies should use XML (Extensible Markup Language) to integrate their business processes*
      - *the BizTalk Server, which will take that framework, turn it into software, and wrap it with other capabilities such as workflow and security*

- BizTalk is (started as) a Microsoft initiative

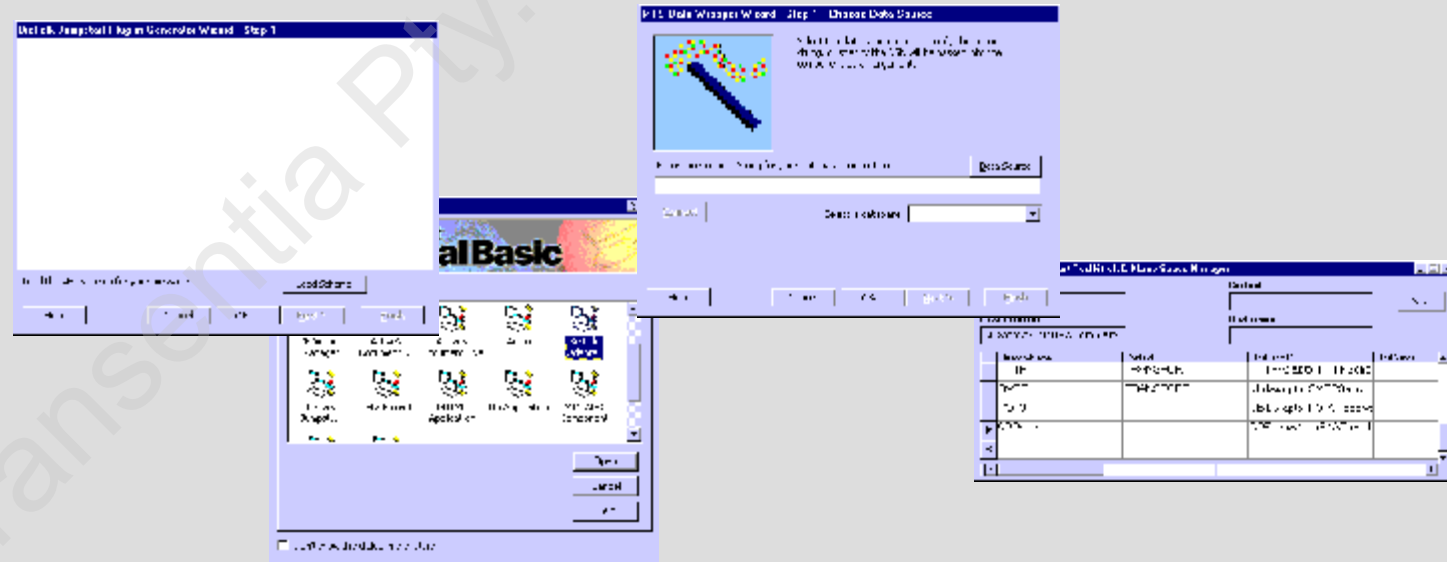
- has a fair bit of support throughout the Microsoft universe

- *extensive steering committee includes: American Petroleum Institute, Ariba, Baan, Boeing, Clarus, CommerceOne, Compaq, Concur, Data Interchange Standards Association (DISA), Dell, EXE, Extensibility, Extricity, Ford, GE Information Systems (GEIS), Harbinger, I2, Intelisys, JD Edwards, Merrill Lynch, Microsoft, Neon, Open Applications Group, PeopleSoft, Pivotal, Reuters, SAP, Siebel, Sterling Commerce, UPS, US Department of Defense, and webMethods.*

- Having standards for the interchange of data is not enough
  - can't solve issues by exchanging ever greater quantities of data!
  - need to also tackle the issues associated with processing
    - "...customers having to deal with broad interoperability issues on their own."
    - requires a lot of glue to join things together
      - costly, wasteful and not reusable/portable
      - "Microsoft has a rising glue budget. Starbucks Coffee has a rising glue budget. Ford Motor, Allstate Insurance and Merrill Lynch all have rising glue budgets."
  - *"The BizTalk Framework itself is not a standard. XML is the standard. The goal of the BizTalk Framework is to accelerate the rapid adoption of XML."*

- **"friction-free integration"**
  - the BizTalk Framework consists of:
    - *a technical specification that defines a way to use XML in a consistent way*
    - *a code set that defines a small number of mandatory and optional XML tags*
      - e.g. <http://eShop.msn.com> has standard schema that allows manufacturers to upload product information for consumer comparison and research
    - *the [www.biztalk.org](http://www.biztalk.org) web portal facilitating schema interchange*
  - also
    - *the BizTalk JumpStart kit*
      - "allows the creation of easy application integration and platform abstraction programs."
      - built on top of IIS, MSMQ, MSSQL, IE & VB/C++
    - *BizTalk Server 2000*
      - an environment for document transformation and routing

- Simplifies the creation of a BizTalk application
  - four necessary steps:
    - *create a database to store information*
    - *create a XML Schema to manage/describe the data*
    - *convert the BizTalk schema into Visual Basic classes using the generator wizard*
    - *create and install an application adapter to consume BizTalk data*



- A number of challenging issues need to be addressed:

- open standards for business document formats as well as the means for routing these documents
- automated and standard transformation and routing services
- a business-oriented tool is needed for creating and managing distributed business processes, as well as specifying business document exchange within them
- security must be built in
- existing applications as well as new applications must be able to take advantage of all this
- must be cost effective and accessible to small, medium and large organizations
  - *to effectively enable mass market B/B interaction and trading*
- the services must work with the operating systems, transports, and business document formats already in place

More...



July 3, 2009

# BizTalk's XML

```
<?xml version='1.0' ?>
<biztalk_1
  xmlns="urn:biztalk-org:biztalk:biztalk_1">
  <header>
  <delivery>
    <message>
      <messageID>xyzy:8</messageID>
      <sent>1999-01-02T19:00:01+02:00</sent>
      <subject>Purchase Order</subject>
    </message>
    <to>
    <address>
      <http://www.fabrikam.com/recv.asp
    </address>
    <state>
      <referenceID/>
      <handle/>
      <process/>
    </state>
    </to>
    <from>
    <address>mailto:foo@contoso.com</address>
    <state>
      <referenceID>123</referenceID>
      <handle>7</handle>
      <process>myprocess</process>
    </state>
    </from>
  </delivery>
  <manifest>
    <document>
      <name>PO</name>
      <description>Purchase Order</description>
    </document>
  </manifest>
</header>
```

```
<body>
  <PO xmlns="x-schema:http://schemas.biztalk.org/BizTalk/zi0124pf.xml">
    <POHeader>
      <poNumber>12345</poNumber>
      <custID>100200300</custID>
      <description>Order for 200 desktop PCs</description>
      <paymentType>Invoice</paymentType>
      <shipType>Express2d</shipType>
      <Contact>
        <contactName>John Doe</contactName>
        <contactEmail>jdoe@fabrikam.com</contactEmail>
        <contactPhone>4250001212</contactPhone>
      </Contact>
      <POShipTo>
        <attn>Fabrikam Receiving</attn>
        <street>10 Main Street</street>
        <city>Anytown</city>
        <stateProvince>WA</stateProvince>
        <postalCode>98000</postalCode>
        <country>USA</country>
      </POShipTo>
      <POBillTo>
        <attn>Fabrikam Payables</attn>
        <street>101 Headquarters Road</street>
        <city>Anytown</city>
        <stateProvince>WA</stateProvince>
        <postalCode>98000</postalCode>
        <country>USA</country>
      </POBillTo>
    </POHeader>
    <POLines>
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      <totalAmount>192000.00</totalAmount>
      <Item>
        <line>1</line> <partno>pc1010</partno> <qty>200</qty>
        <uom>EACH</uom> <unitPrice>800.00</unitPrice>
        <discount>10</discount> <totalAmount>144000.00</totalAmount>
      </Item>
      <Item>
        <line>1</line> <partno>monitor17</partno> <qty>200</qty>
        <uom>EACH</uom> <unitPrice>300.00</unitPrice>
        <discount>20</discount> <totalAmount>48000.00</totalAmount>
      </Item>
    </POLines>
  </PO>
</body>
</biztalk_1>
```