

The Bans Consulting Group Inc. www.TheBans.com IT Meeting Toronto, 22 March 2001









Seminar B2B XML/JAVA Integration How to Integrate IT Infrastructures Across Enterprise and Among Trading Partners?

by TheBans Consulting Group Inc. webMethods RBC Dominion Securities



IT Seminar Pool

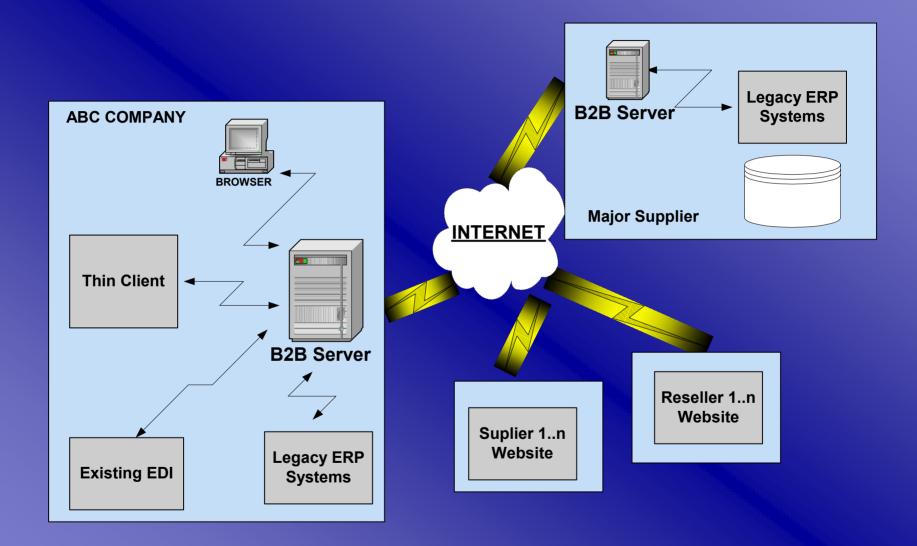
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B2B integration (B2Bi)

To support new Internet business models, companies must integrate their IT infrastructures so they can process a seamless flow of information across the enterprise and among trading partners. Comprehensive B2B integration (B2Bi) integrates packaged, custom, legacy and mainframe systems within the enterprise and links them over the Internet with business systems operated by customers, suppliers, partners and marketplaces. Such a comprehensive solution links individual enterprises together into seamless platforms for extended process efficiency across the supply chain. The result is a virtual enterprise with more resources and strengths than any individual company.







B2B Integration and the Internet

- Hundreds of heterogeneous trading partners.
- Different industries with different needs.
- Incompatible IT systems.
- Existing investment in legacy software TODAY - Resolving complex/costly integration issues is more critical than ever before.

The drive to:

- Reduce costs
- Improve efficiencies
- Sharpen competitiveness

is leading organizations to adopt Internet-based business-tobusiness (B2B) integration.

The Internet is a cost-effective and great vehicle for connecting businesses together.

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Today industries are forming **online trading communities** leveraging the power of the Internet to share data and collaborative applications with business partners.

Usage:

- automated procurement
- inventory management
- distribution management
- order processing
- integrated customer support
- collaborative planning.

Sharing of information over the Internet does more than reduce the geographical, temporal and information barriers to doing business together. It compresses business cycles and creates new markets and opportunities—exactly what businesses need to gain and maintain competitive advantage.

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What is B2B Integration?

At its simplest, **B2B integration is the automated** exchange of information between different organizations.

Occurring independent of or alongside manual processes, it is most accurately described as *application-to-application integration that crosses corporate boundaries (e.g. firewalls).*

B2B integration is being done over the Internet, rather than over proprietary Value Added Networks (VANs), and the dominant trend is towards the use of open standards such as XML and HTTP, rather than proprietary protocols that are not well suited to the Internet.



What does B2Bi for companies?

•B2B integration improves external processes such as supply chain integration or shipping/logistics tracking by enabling rapid, cost-effective real-time links between business partners.

•Enables new business paradigms such as e-commerce initiatives.

•Reduces costs.

•Reduces inefficiencies by facilitating initiatives such as multivendor catalogs and electronic procurement promoting comparison shopping and dramatically reducing the costs associated with traditional procurement.

•Strengthens customer relationships by enabling capabilities such as real-time order management and customer service.

•Significant business advantages through improved customer satisfaction.

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Advantages enabled through B2B integration

- are achieved in a number of ways:
- Improved customer satisfaction and support
- Improved inventory management
- Reduced time to market
- Improved manufacturer/distributor coordination
- Better outsourcing coordination
- Improved order management
- •• Tighter links with logistics providers
- •• Better delivery of information required for planning and forecasting



Key Requirements for B2B Integration via the Internet

For organizations to integrate effectively using the Internet, a software infrastructure must be deployed that meets the following requirements:

- Scalability
- Performance
- Manageability
- Extensibility
- Security
- Guaranteed message delivery across corporate firewalls
- Standards compliance
- Ability to leverage existing corporate infrastructure



The Role of eXtensible Mark-up Language (XML)

XML is a metadata language that defines a universal standard for structuring data. It is a simplified dialect of the Standard Generalized Markup Language (SGML), the International Organization for Standards (ISO) standard for defining the structure and content of electronic documents.

XML was designed to enable business data to be served, received and processed on the Web as easily as HTML. Though the initial focus was the exchange of structured documents over the Web, XML supports a wide variety of applications.



XML

Endorsed by major technology vendors, technology analysts, business consortia and standards

bodies, XML is emerging as the up-and-coming "foundation" technology for B2B integration. Use of

XML for e-commerce is accelerating as vertical industry groups define specific XML vocabularies, including: **Open Application Group Interface Specifications** (OAGIS)

•RosettaNet's Partner Interchange Processes (PIPs) Framework

Microsoft's BizTalk

•Ariba's Commerce XML (cXML).

The World Wide Web Consortium (W3C) adopted XML as a formal recommendation in February of 1998. 5/13/2004 TheBans Consulting Group Inc. www.thebans.com



Why XML?

XML is a key enabler of both B2B electronic commerce and the open integration of applications and systems across enterprises in general. It meets the challenges of B2B integration because:

• XML is a uniform method for describing and exchanging data that is flexible, extensible and easy to implement

• XML has an exceptionally dynamic and self-describing nature that supports greater interactivity than other technologies, and makes data and information interoperable over the Internet using the standard HTTP protocol

• XML is an agreed-upon standard that is independent of technology, platform, application and system



Today's guests:



webMethods is the software company currently offering the most comprehensive B2Bi solution. With over 425 customers, webMethods has helped companies such as Dell, FMC, GEON, Juniper Networks, Citibank and others achieve significant returns on their investments. As the market leader in customers, partners, revenue, growth and technology, webMethods is the ideal partner to help a company rapidly deploy a comprehensive B2Bi solution that enables new business models and creates a sustainable competitive advantage.



Stocks markets around the world are crumbling! Where do we go from here?



Many IT people we speak with today, tell us they are uncomfortable watching the value of their investments drop almost daily. There are a number of so called "blue chip" stocks that have lost more than half their value in a relatively short period of time. What should investors do to protect themselves from today's volatile markets?

Start by attending Jason Greenlees' special presentation. Learn Four Time Tested Methods Of How To Protect Your Investments in Turbulent Markets

"Exactly what is B2Bi? It's a competitive advantage that's achieved when all business partners can easily exchange information and integrate business processes—in real time, over the Internet—without significant modifications to existing technology or security infrastructure." - webMethods



WHO is TheBans.com?

Started Internet business 1996 with a GUIDE TO TORONTO. http://www.thebans.com.

http://toronto.thebans.com
http://itjobs.thebans.com
http://romania.thebans.com

Future IT portal: http://it.thebans.com or http://thebans.com/it



- What we do @ TheBans.com
- Online Strategies/Infrastructure/Integration
- Improved Business Intelligence
- E-commerce Focused / Relationship Building
 - We have four types of solutions:
 - Recommend technologies
 - •Design documents, UML modelling, DB architecture
 - •Build your entire system (turn key solutions)
 - Build Java/XML/Servlet/EJB infrastructures

 Integrate online businesses with customers (XML, JAVA, webMethods)

•Recruit for you based on your needs

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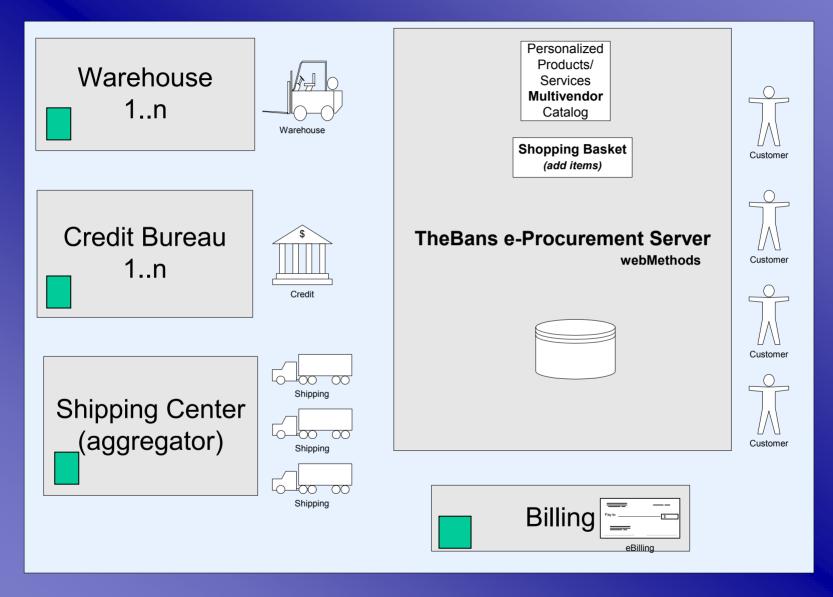
Sample webMethods Application eProcurement/eCommerce Application

Presented by Sorin Tanasescu – TheBans.com

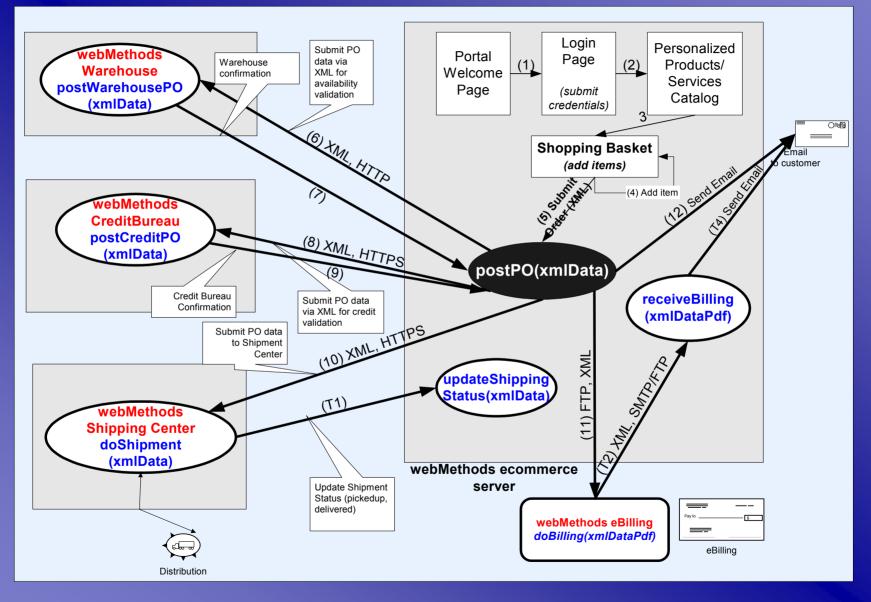
Developed by John Salau

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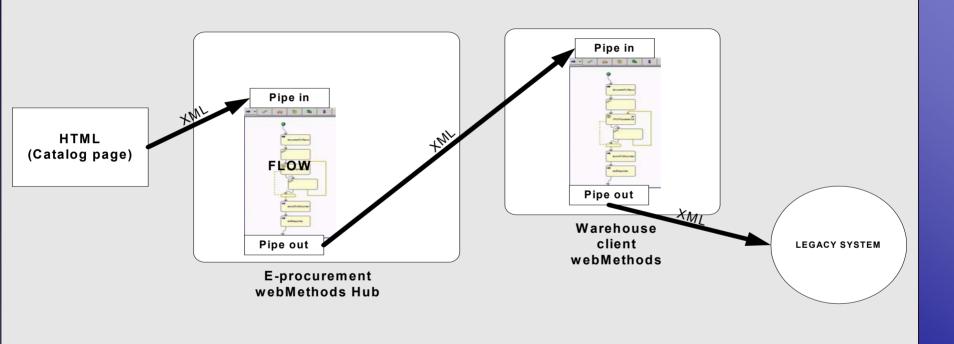




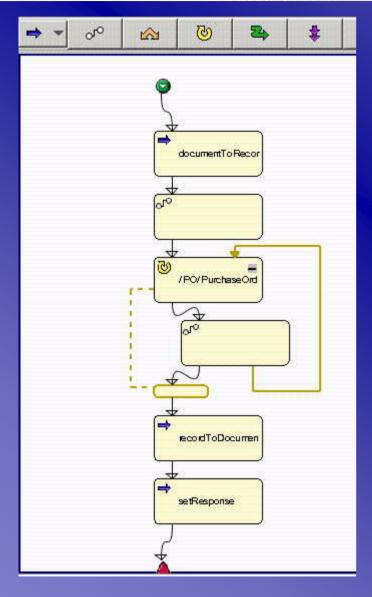
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Detailed partners communication



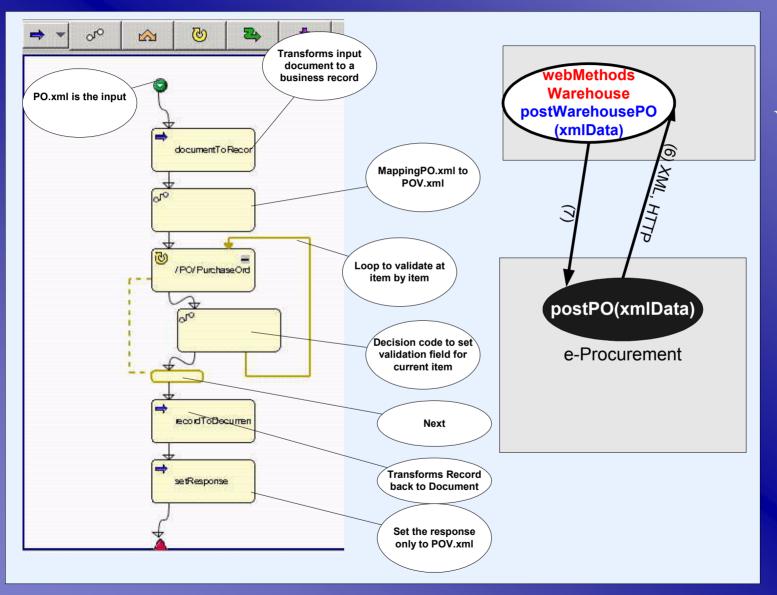




Overview flow for PurchaseOrder validation.

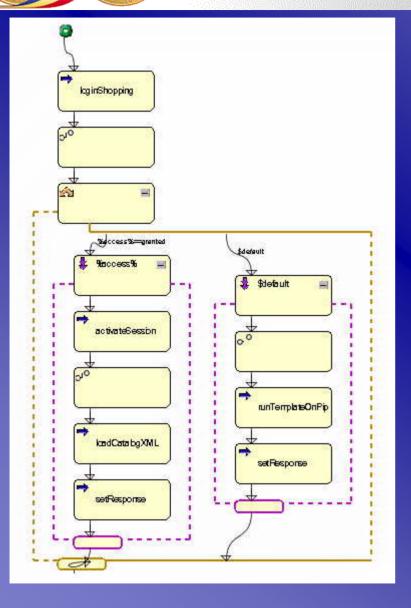
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Detail validation

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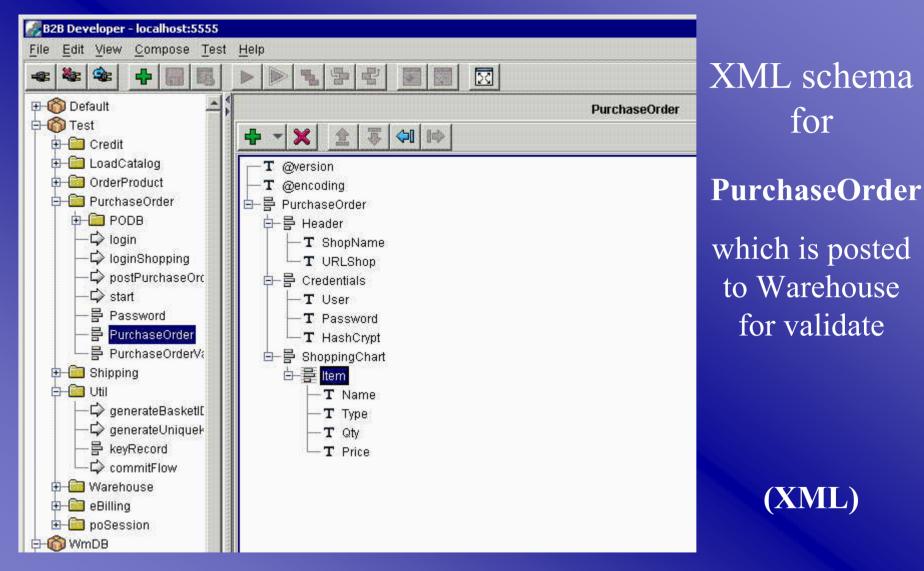


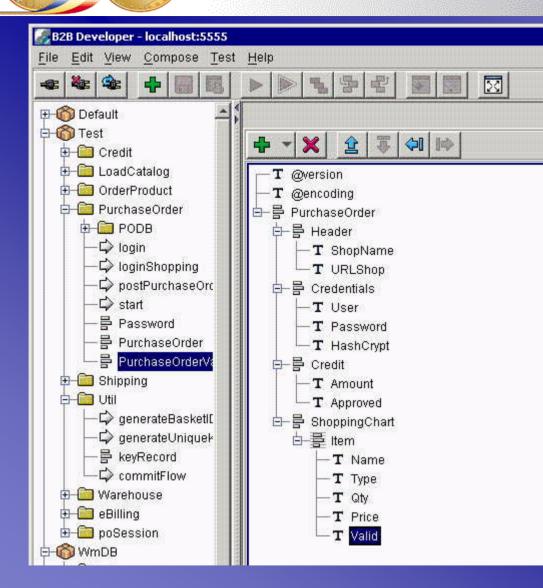
Login Flow

(contains decision)

If credential Ok loads catalog else return to login page with notification.







XML schema for

PurchaseOrderValidate

which comes back from the warehouse

(XML)



Sample XML Purchase Order

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🤫 XML Spy - [PurchaseOrderFull.xml *]

File Edit Project XML DTD/Schema XSL Convert Table View Browser Window Help 🗃 🏕 🕼 🖬 🕼 🖨 👗 🛍 🛍 🖉 🗠 🗠 🏘 🤲 🏪 💟 💕 👌 👜 🖺 🗍 D * × <?xml version="1.0" encoding="UTF-8"?> <I--PurchaseOrder B2B IT Seminar 22 March 2001--> Th <PurchaseOrder> is <Header> the <ShopName>eProcurement Online</ShopName> nev <URLShop>http://www.thebans.com/it</URLShop> DIO </Header> vie <Credentials> of <User>iohn</User> the <Password>john</Password> XM <HashCrypt>*@w#***51429872302skikki+==[][]p |98213</HashCrypt> Sp </Credentials>Items<ShoppingChart> 3.0 (ltem> Dre <Name>Beginning VB6 Application Development </Name> ver <Type>6</Type> <Otv>1</Otv> <Price>26.55</Price> Ple </ltem> USE (ltem> the <Name>Lucky Numbers DVD</Name> "Ni <Type>7</Type> Pro <Qty>3</Qty> 10 <Price>52.98</Price> "01 </litem> Pro (Item) COL <Name>Instant Dental Insurance </Name> ło <Type>9</Type> star <Qty>1</Qty> WO <Price>120.00</Price> wit </ltem> pro </shoppingChart> in </PurchaseOrder> XM

XML Sample

Text view of the XML file for purchase order



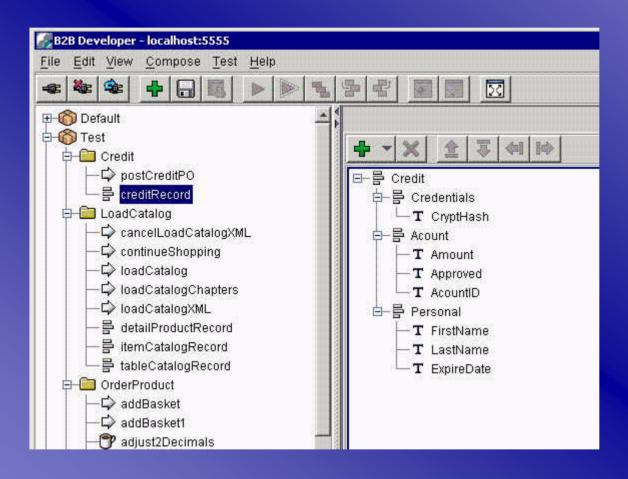
<?xml version="1.0" ?>

- <Credit>
 - <Credentials>
 - <CryptHash>ert65fdg9789g879iowerfqwp56efoij32456ejifwef2477236</CryptHash> </Credentials>
 - <Acount>
 - <Amount>1031.90</Amount>
 - <Approved>no</Approved>
 - <AcountID>245345765567546</AcountID>
 - </Acount>
 - <Presonal>
 - <FirstName>John</FirstName>
 - <LastName>Salau</LastName>
 - <Expire>032004</Expire>
 - </Presonal>
 - </Credit>

XML Credit Card Response

OB Ch

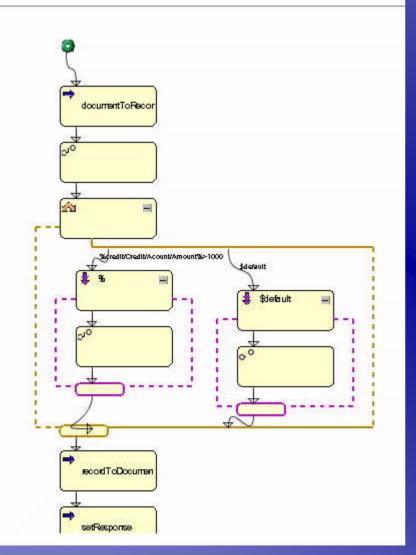
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Credit record



postCreditPO



Credit validation flow

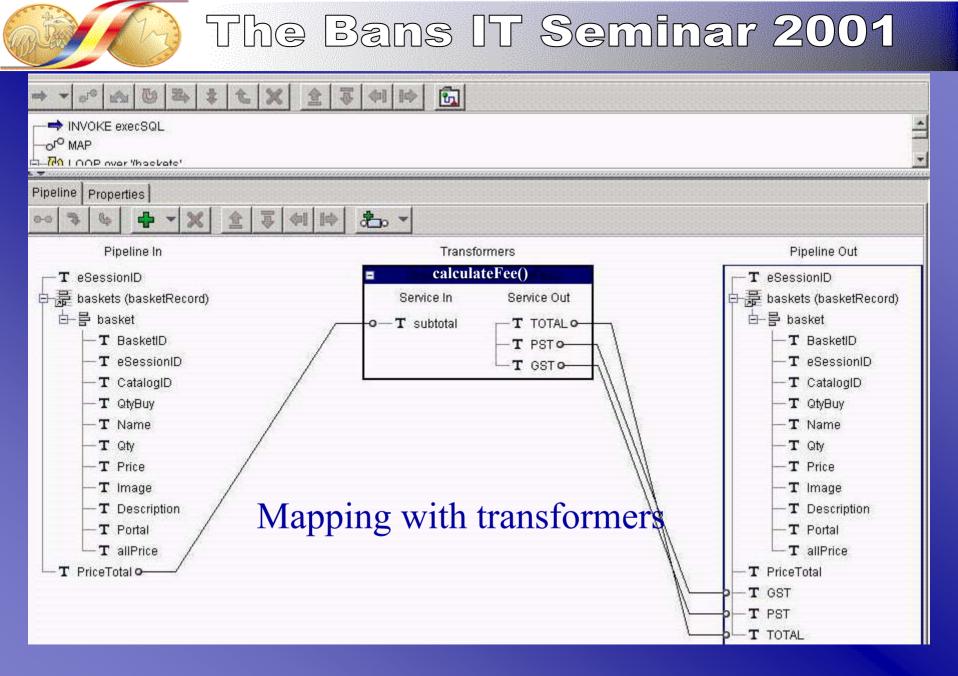
Flow includes decision points

Flow picture was generated *as HTML* view

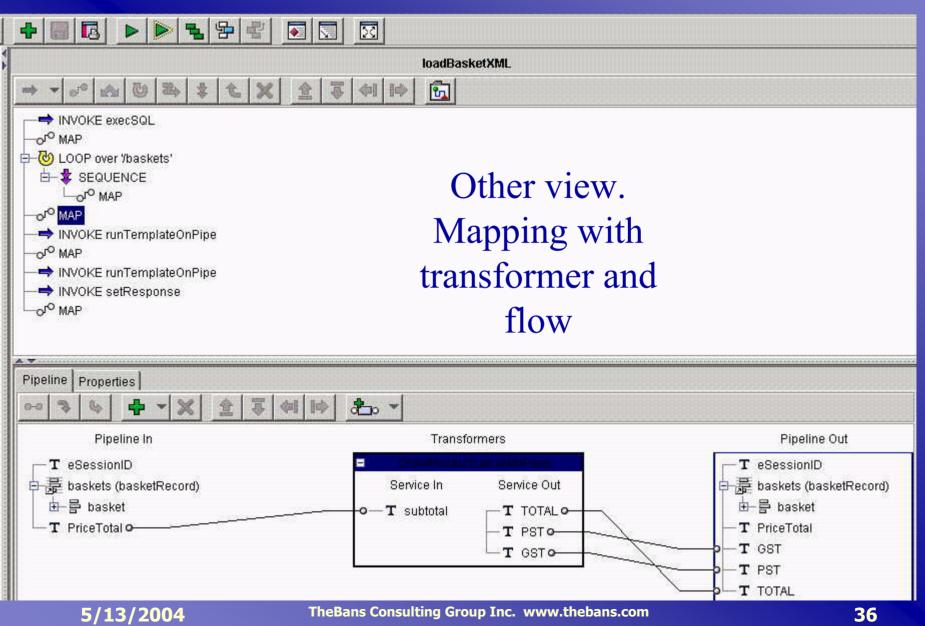
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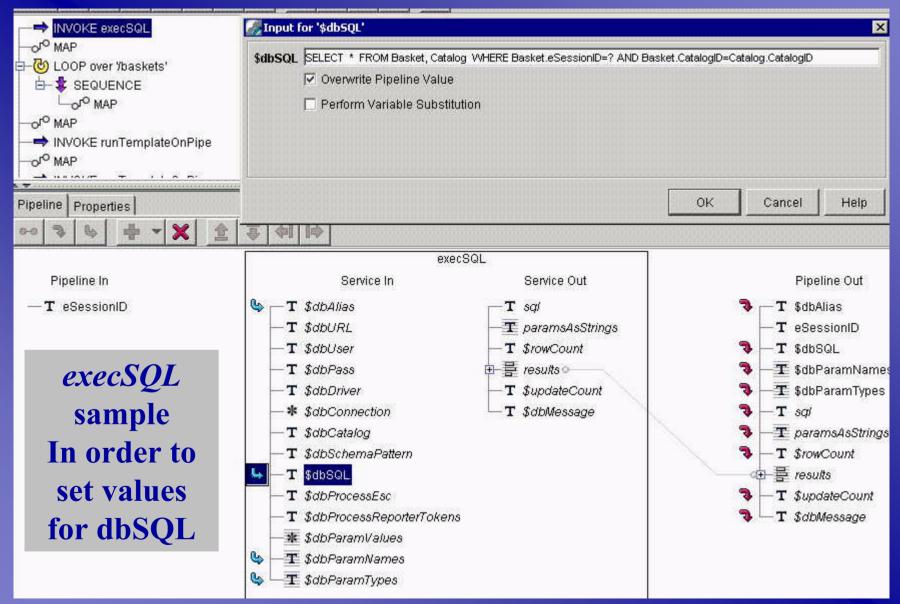


public static final void calculateFees(IData pipeline) throws ServiceException - Credit - 🗘 postCreditPO 🖶 creditRecord IDataHashCursor pipelineCursor = pipeline.getHashCursor(); 🗄 🧰 LoadCatalog pipelineCursor.first("subtotal"); -🗘 cancelLoadCatalogXML Double subtotalD = Double.valueOf((String) pipelineCursor.getValue()); -🗘 continueShopping double subtotal = subtotalD.doubleValue(); - 🗘 loadCatalog Sample Code for IoadCatalogChapters double gst = subtotal*0.07; loadCatalogXML double pst = subtotal*0.08; Java Service double total = subtotal+gst+pst; 号 detailProductRecord ➡ itemCatalogRecord String gstValue = (new Double(gst)).toString(); tableCatalogRecord gstValue = gstValue.substring(0, Math.min(gstValue.indexOf(".")+3, gstValue.length())); OrderProduct 🖒 addBasket pipelineCursor.last(); 🗘 addBasket1 pipelineCursor.insertAfter("GST", gstValue); 🕈 adiust2Decimals P calculateAllPrice String pstValue = (new Double(pst)).toString(); CalculateFees pstValue = pstValue.substring(0, Math.min(pstValue.indexOf(".")+3, pstValue.length())); P calculatePrice D deleteAllItemsBasket pipelineCursor.insertAfter("PST", pstValue); 🖒 deleteltemBasket DiadBasketXML String totalValue = (new Double(total)).toString(); SetProduct totalValue = totalValue.substring(0, Math.min(totalValue.indexOf(".")+3, totalValue.length basketRecord basketShortRecord PriceRec pipelineCursor.insertAfter("TOTAL", totalValue); PurchaseOrder pipelineCursor.destroy(); D PODB - 🗘 login DiginShopping DostPurchaseOrder return; 🗘 start









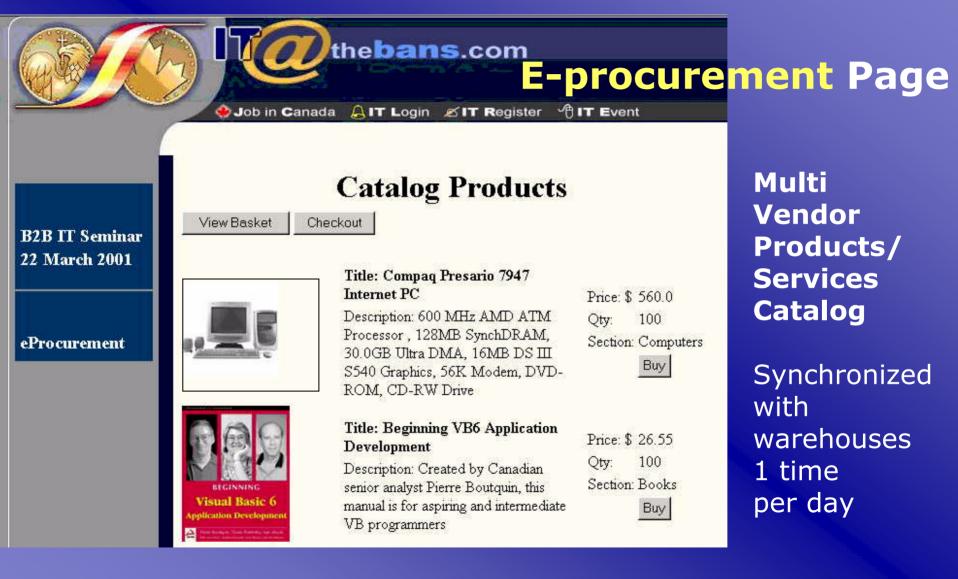
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Login Screen

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preview



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7	Lucky Numbers	1	17.66	true
9	Instant Dental Insurance	2	240.0	true
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Last Name:	
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Country:	Canada
E-mail address:	salauioan@usa.net
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Type of Credit Card:	Visa
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Shipment and Credit info



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QUESTIONS AND ANSWERS...

Next Speaker: Jason Greenlees

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