

Actioning real time business events

CICS and WebSphere

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Agenda

- Events
- CICS and Events
- WebSphere Business Events
- WebSphere Process Server
- Demo



Events

- Most applications written to perform some business function
 - Many written long ago
- Each day these applications implicitly make business decisions
 - e.g. transfer cash to an account
 - These actions considered to be "events"
 - i.e. something that has happened
- Potentially a lot of business value
 - e.g. detect stock item running low, order new stock
- Business want to be able collect and analyse these "events"
 - They would like to add functionality to existing applications to generate "events"
- The catch?
 - Expensive to add new code to existing applications so that "events" are produced
 - Takes a long time



CICS and Events

- Many customers worldwide
 - Running business applications in CICS
- CICS TS V4.1 provides event technology
 - In two ways...
- Non-intrusive
 - You can define specifications which CICS uses to detect some occurrence and then generate an event
 - No changes to applications required!
 - Allows you to get started straight away
- Programmatically
 - Option does exist to modify application code
 - To add CICS API call to generate Events



System z capital waiting to be integrated and leveraged

Re-use with End-to-End Process Automation and Management

 \$5T of core System z applications with estimated replacement costs of \$20T (3)

 70% ⁽¹⁾ of corporate data is stored on the mainframes

 CICS handles more than 30 billion transactions/day ⁽³⁾ valued at over \$1 trillion/week ⁽³⁾

 DB2 has delivered 100% availability of customer information for 10 consecutive years, including migrations (5)

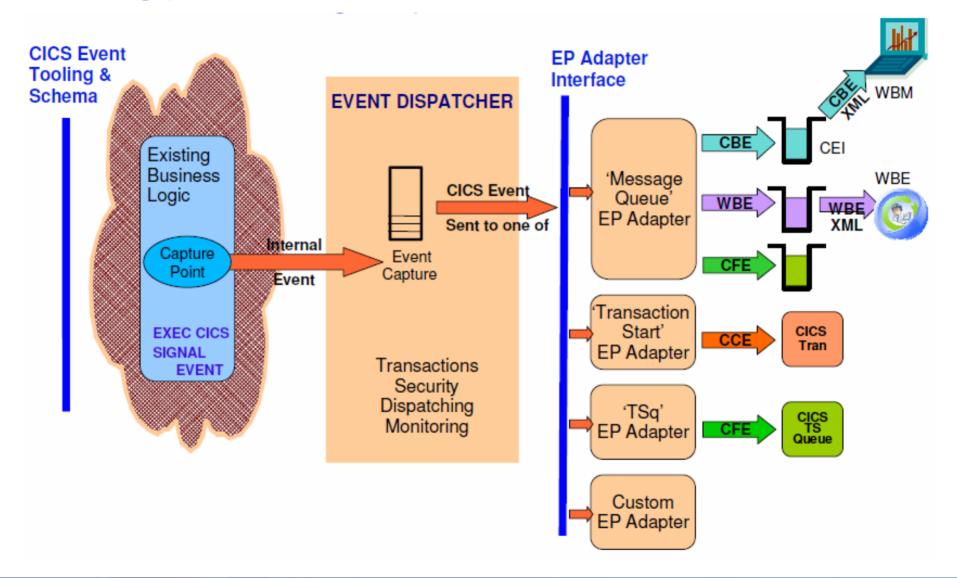


- System z has been estimated to contain \$3 Trillion (2) (USD) in core assets
 - Mainframe can handle sustained peak workload utilization of 100% without service level degradation
 - Mainframe can handle 9,000 transactions per second operating on more than more than 380 million accounts (4)

- Scalable & high performing connectivity with WebSphere MQ for z/OS processing over 213M messages per day on z/OS in the banking industry alone
- Over 15 Million GBs of Production data managed by IMS with over 50 Billion Trans/day and over 200 Million Users/day



The Big picture

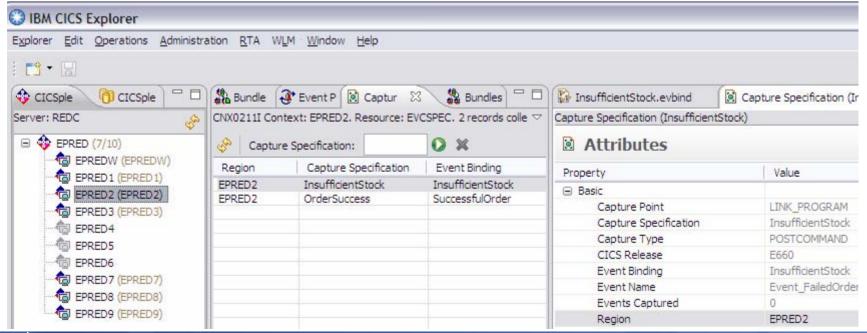




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CICS Explorer

- "The" tool for CICS administration
 - Eclipse based
 - Used to:
 - Define definitions required to generate events
 - Deploy and manage





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A plethora of events

- The good news?
 - Able to easily have CICS TS V4.1 generate useful business related events
- The bad news?
 - Could have lots of these events generated
 - How to perform complex analysis of events to detect something significant?
 - Could write your own...
- Could your code handle this business requirement:
 - Customer get three quotes for different types of insurance
 - But they only purchase one
 - Detect this and send letter offering deal if they buy all three
- But of course IBM has just the product...



WebSphere Business Events

Complex Event Processing

Causality Aggregation
Complex Queries



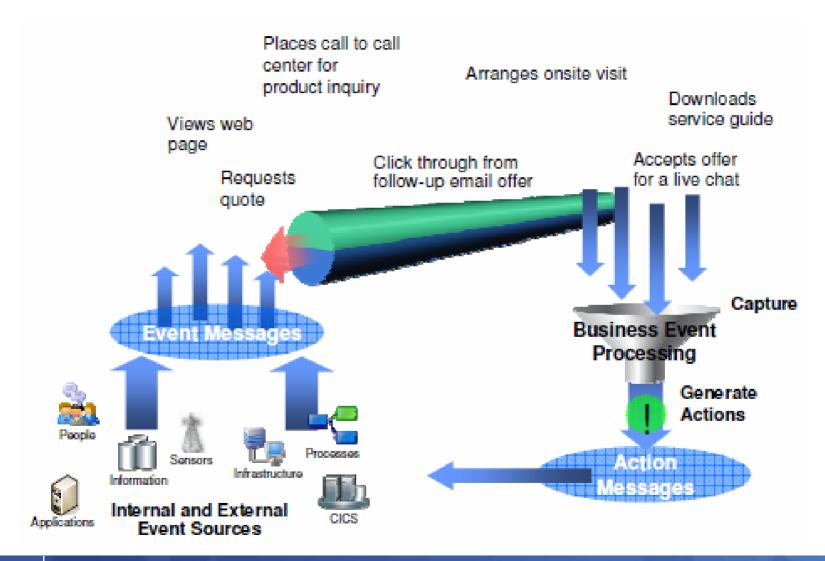
Actionable Business Context



Providing Real-time Visibility and Speed-to-insight

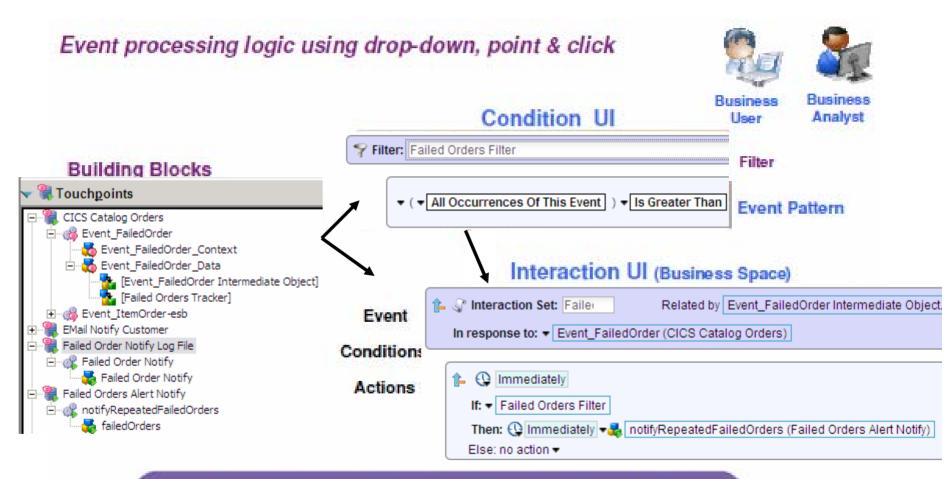


WBE – correlate and analyse events from any source





GUI environment to develop event handling flows



With building blocks defined, Business takes over



WebSphere Process Server

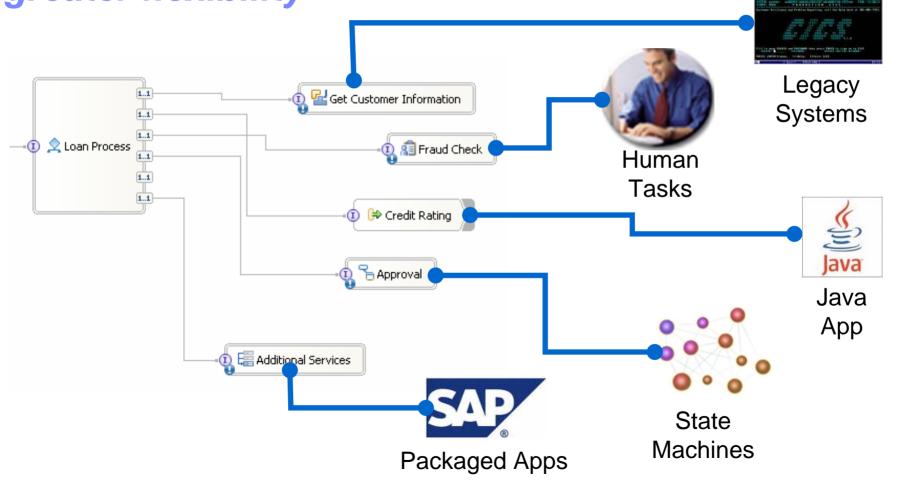
- Key part of the Business Process Management IBM product range
- Provides an environment able to execute, manage and control business processes
 - e.g. the process a company uses to give a customer a new credit card
- Used to implement Service-Oriented Architecture (SOA)



Execute with speed and efficiency

With SOA, leverage existing assets and achieve

greater flexibility





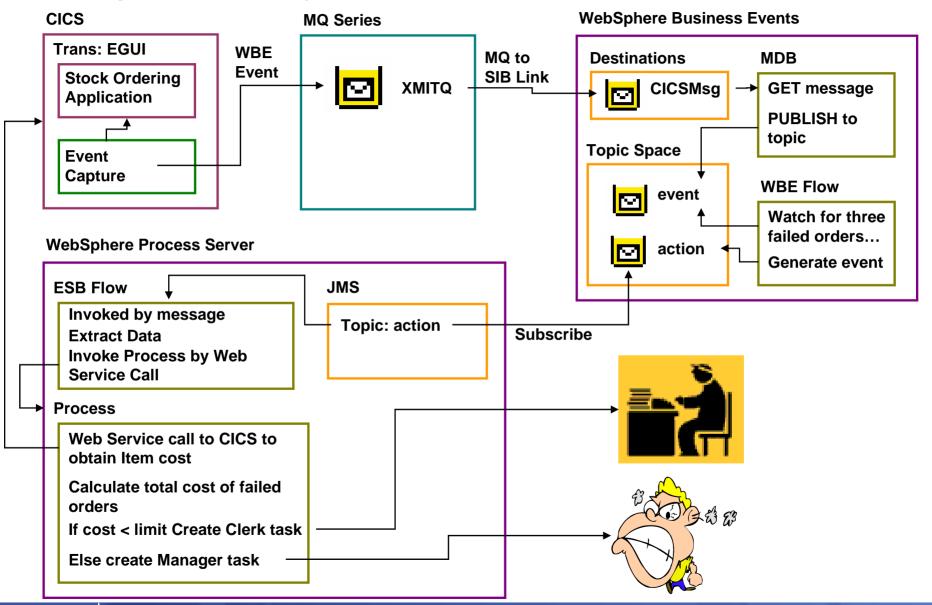
Aim of demo

- Demo to show integration of the products we've been describing
 - To prove that it can be done ©
- But the bigger picture is:
 - If your role in your site is:
 - CICS Systems Programmer
 - Developer for applications running in CICS
 - Are you considering the role CICS plays in your site?
 - Are there discussions in your site to replace CICS applications?
 - With "new" technology?
 - Is CICS considered "relevant" by senior management?
 - Are you promoting the capability of CICS within your organisation?
- Message to take home with you:
 - CICS Event technology allows you "The CICS person" to provide a new source of information to your business
 - Which can be used to improve how your company works
 - Could help your company to increase revenue



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A simple demo ;-)





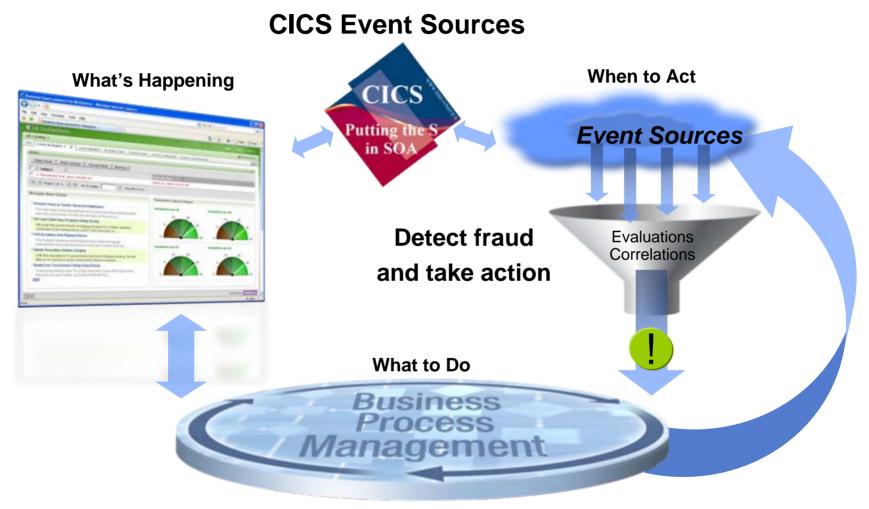
z/OS – still going strong

- CICS
 - If your already a CICS customer
 - You know about z/OS reliability
- IBM 100% committed to z/OS
 - WBE and WPS available on z/OS
 - Same product code base as used on distributed
- If you are already operating a z/OS environment
 - Then adding WBE and WPS to that environment makes good sense
 - The more you use z/OS for...
 - The better the IBM deal
- Many Asia/Pacific countries
 - Have z/OS
 - But not running parallel sysplex
- Why Parallel Sysplex?
 - Take advantage of the high availability this provides for your business
 - WebSphere co-located with the business applications and data provides best performance



Actionable Real-time Insights from critical business events

Capture mainframe event sources for business event processing, and take action!



Know What's Happening, When to Act, and What to Do



Summary

- CICS
 - IBM continuing to enhance products capability
 - To meet customers requirements
 - Event technology
 - Allows customers to "mine" their applications in real time
 - Without having to change any code
- WebSphere Business Events
 - Able to intelligently perform simple to complex analysis of events
- WebSphere Process Server
 - Used to manage long running business processes
 - Can be integrated with WBE and CICS
- New Redbook
 - Leveraging CICS Events with an ESB
 - http://www.redbooks.ibm.com/Redbooks.nsf/RedbookAbstracts/sg24786
 3.html?Open



Questions