

Business Process Management

High-Performance Process Agility for Business Growth

***Dave Bonaccorsi – STSM , BPM for System Z
Architecture and Solutions***



**IBM zEnterprise EC12
(zEC12)
Next generation of
hybrid computing**



Agenda

- Introduction – BPM at work Today
- IBM BPM for z/OS V8 Update
 - Blending BPM and ODM
- IBM BPM for z/OS and zEnterprise Enterprise Solutions
 - Hybrid BPM and ODM Deployment Patterns
- Conclusion



Process Remains THE Top Priority



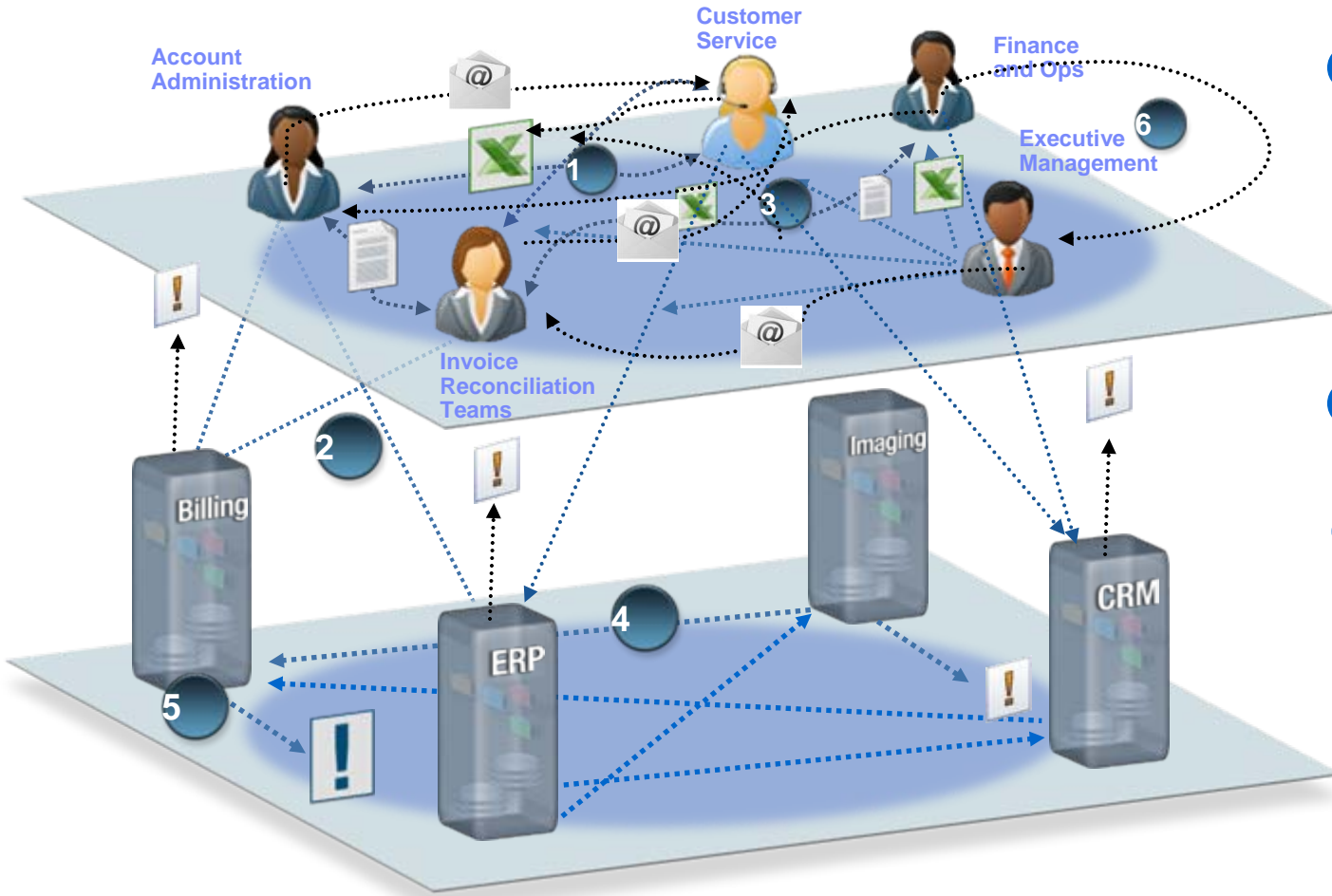
Plans to innovate this year



Making business processes more efficient is the **#1 priority**

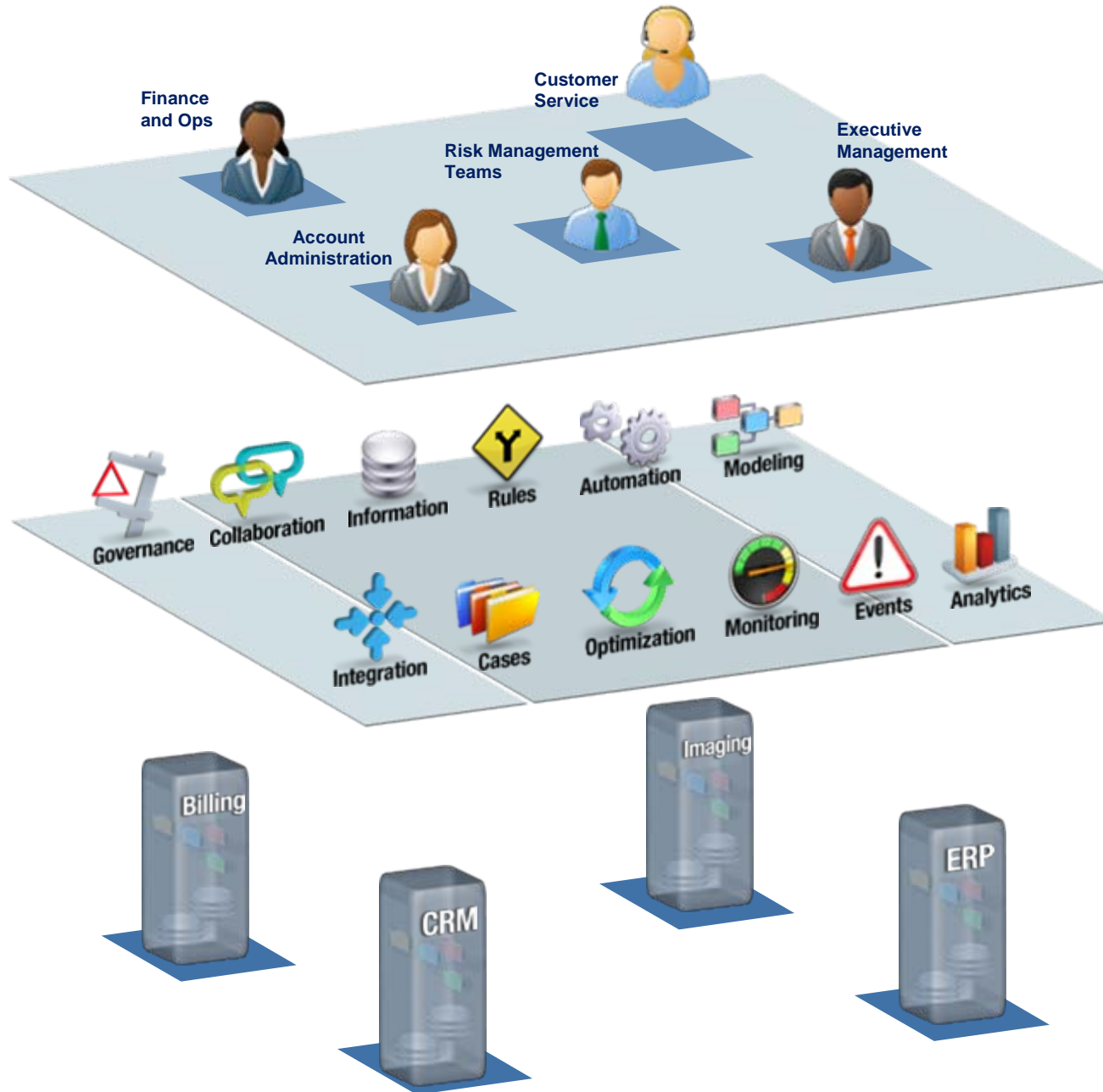
2012 InformationWeek 500 Survey

“Business As Usual” Begs for Operational Improvement



- 1 Unstructured Tasks and Communication (ex Paper or email)
- 2 Inefficient Working Environment Spans Systems
- 3 Inconsistent Prioritization
- 4 Incomplete or Inaccurate Data Flow Between Systems
- 5 Lack of Control Over System and Business Events (Exceptions)
- 6 Poor Visibility Into Process Performance

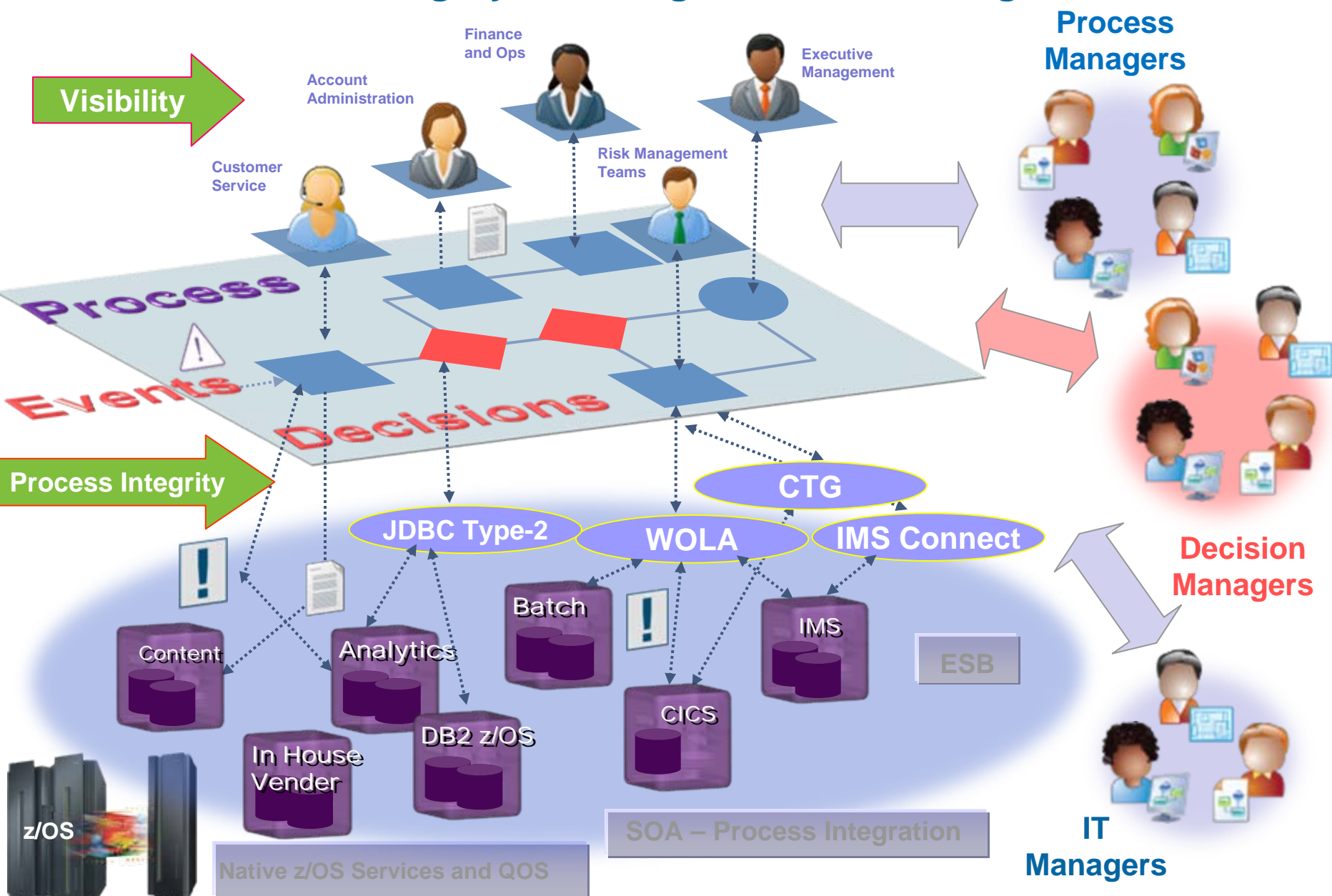
The Essential BPM Capabilities



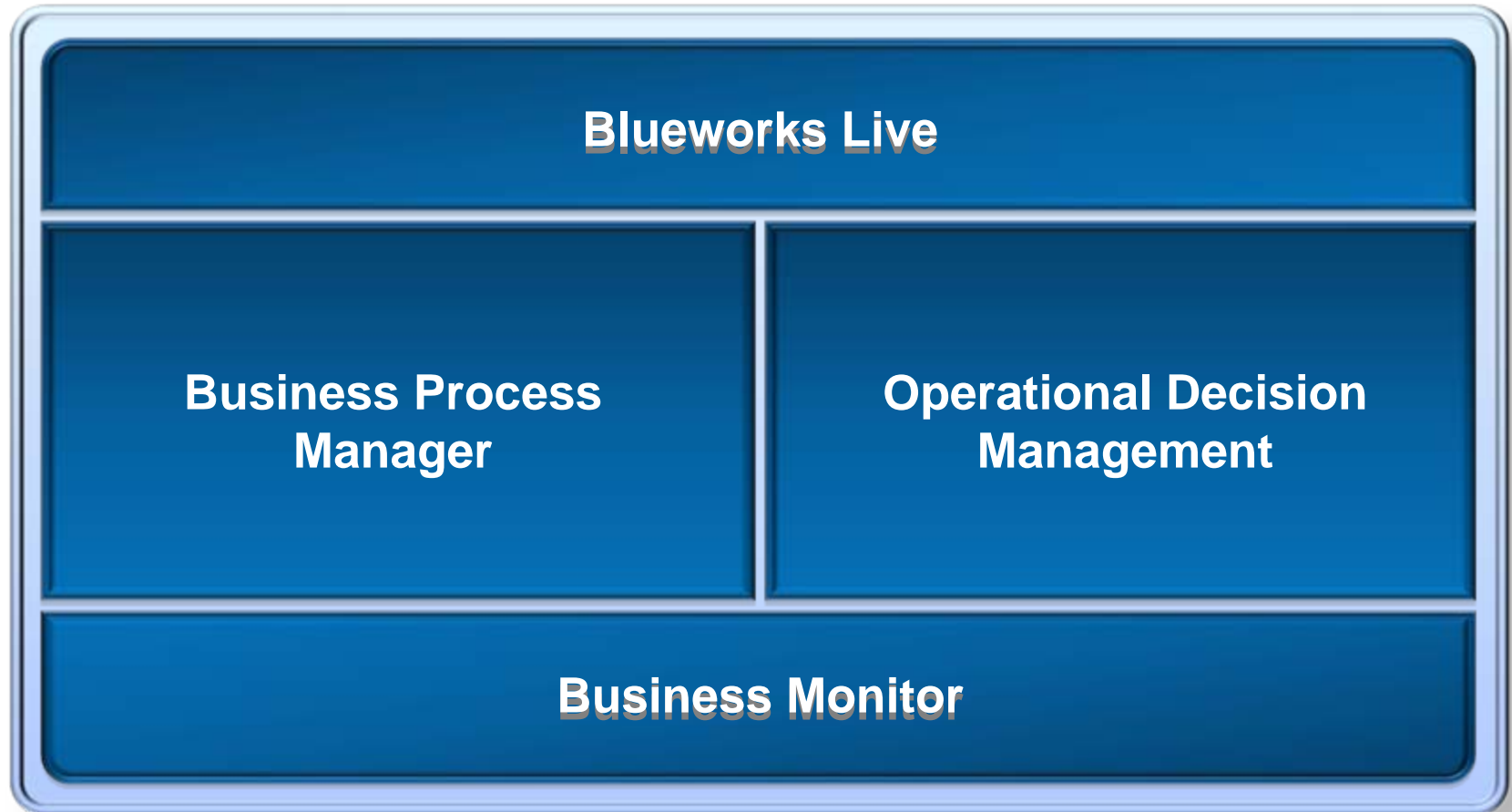
-  • Modeling
-  • Monitoring
-  • Automation
-  • Governance
-  • Optimization
-  • Rules
-  • Information
-  • Cases
-  • Events
-  • Integration
-  • Collaboration
-  • Analytics

Give Visibility & Control to Process & Decision Managers

... Give Process Integrity and Integration to IT Managers



IBM Products for Business Process & Decision Management



Work together to deliver effective solutions for business operation improvement

In 2011 ...

IBM BPM and ODM unified the tools for operational teams to build, deploy, govern, and scale process & rules applications ...

IBM Business Process Manager

- **Simplicity** *for business & IT collaboration*
- **Power** *to scale from a project to a program*
- **Visibility** *to improve business outcomes*
- **Governance** *across BPM projects and programs*

Operational Decision
Management



In 2012 ...

*IBM BPM & ODM deliver innovative user interface tools for **business users to collaborate in getting work done ...***

Social

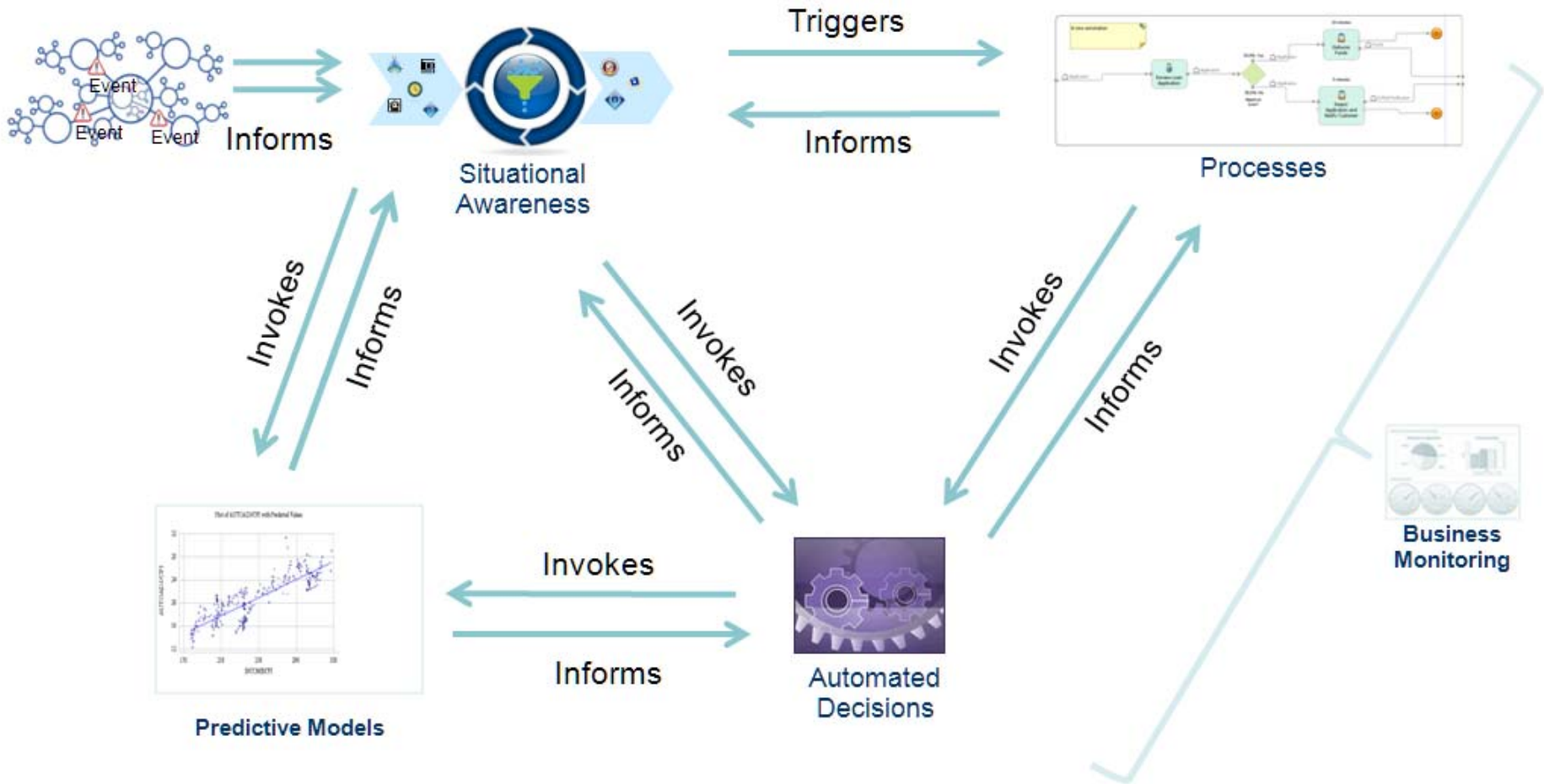


On-the-go



Collaborative

Processes, Decisions, Situations: a symbiotic system

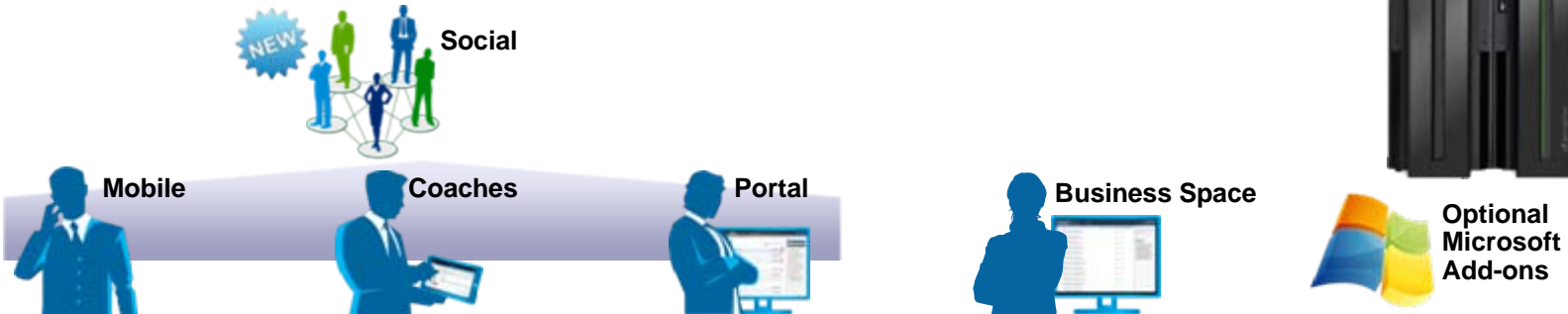


IBM Products for Business Process & Decision Management

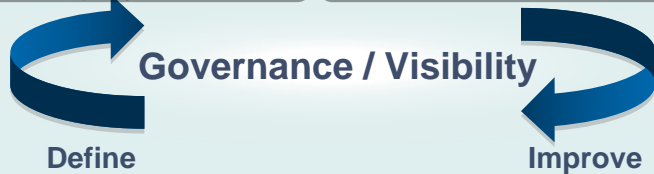


Work together to deliver effective solutions for business operation improvement

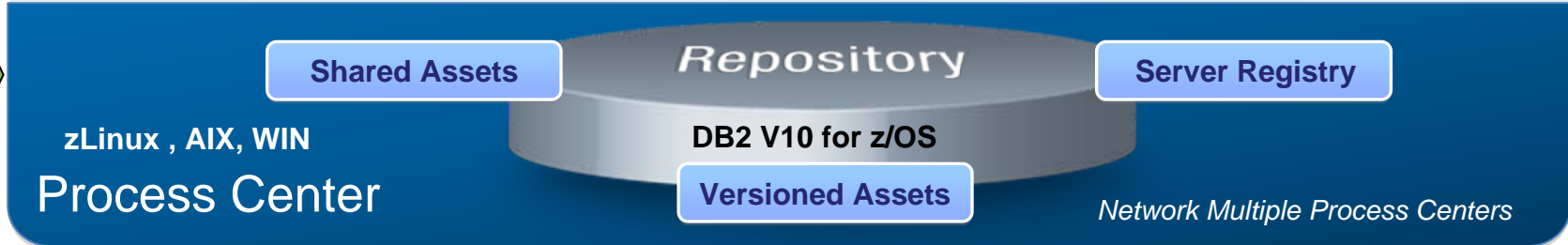
IBM Business Process Manager v8 for System Z



Process Server z/OS



- WOLA
- CTG
- IMSCoconnect
- DB2 Type -2
- WMQ Q Sharing





VISIBILITY

COLLABORATION

GOVERNANCE

in Action...

...IN ACTION...

What's New in IBM Business Process Manager v8?



Social Collaboration



Enhanced Governance



Mobile Access



Content Access



Cloud



Simplicity for deep business user engagement

Process Designer



Process Designer provides a single model-driven design environment that simplifies collaboration on process design and analysis

- Simple **standards-based** tool allows every team member - including nontechnical users - to **collaborate** on process design and analysis
- **Graphical** end-user view of process status to understand the current position in the process
- Explicit event modeling defines **workflow** and **exception handling**

Validate process requirements and changes faster Built-in Playback

- **Instantly** step through and review the current process design by actually executing it
- Playback executes with a **single click**
- **Nothing** to compile or install.
- Allows playback of **incomplete** and **completed** processes



**Playback feature simplifies
process review**

Social Collaboration



- **New Process Portal and Coaches** enable users to work together on the same tasks via **real-time interactions**.
- **Activity streams** provide a way for you to monitor and perform **ad-hoc actions** on your “favorite” processes and tasks.
- **Experts** – either pre-defined or discovered dynamically (using **social analytics**) – can help you complete process tasks.

Completely Revamped End User Experience



Change the way people work with tasks by making it social and accessible

The screenshot displays the IBM Work dashboard interface. At the top, there are navigation tabs for 'WORK', 'ACTIVITY', and 'DASHBOARDS'. Below this, there are sub-tabs for 'My Tasks', 'Claimed Tasks', and 'Custom Views'. The main content area is titled 'My Tasks' and features a search bar and filters for 'Open Tasks' and 'Completed Tasks'. The tasks are organized into categories: 'Overdue (3)', 'At Risk (2)', 'Due Today (9)', and 'Due This Week (4)'. Each task entry includes a status icon (red exclamation mark or yellow warning triangle), a task title, a description, a due date, and an assignee. A blue callout box on the right side of the dashboard highlights a 'Dynamic activity notifications' panel. This panel contains three notification cards: 1) 'You received a new task titled Create Order.' with a camera icon; 2) 'Underwriter group received a new task titled Initiate Credit Check.' with a camera icon; 3) 'Benjamin Short tagged you in a post in Home Loan Application - 3427164.' with a profile picture and a quote: 'Will you upload a pdf of the family's credit report? I think there might be an error in some of the information.' Below the notifications is a list of task categories with gear icons, including 'Initiate Mortgage Refinancing', 'Interactive Bill Pay', 'Loan Process', 'Manage Card Request', 'Manage Contact Preferences', 'Maximize Revenue Process', 'Mortgage Refinancing', 'New Account Opening', 'Stop Payment', 'Transaction Fraud Detection', and 'Travel Approval for Cross-Continental Sales Visits'. A blue callout box at the bottom right contains the text: 'Dynamic activity notifications facilitate real-time collaboration and responsiveness'.

Completely Revamped End User Experience



Change the way people work with tasks by making it social and accessible

The screenshot displays the IBM Work dashboard interface. At the top, there is a navigation bar with the IBM logo, a 'WORK' tab, and menu items for 'ACTIVITY' and 'DASHBOARDS'. The user's name, Elizabeth Jensen, is shown in the top right corner. Below the navigation bar, there are tabs for 'My Tasks', 'Claimed Tasks', and 'Custom Views'. The main content area is titled 'My Tasks' and includes a search bar and filters for 'Open Tasks' and 'Completed Tasks'. The tasks are categorized into sections: 'Overdue (3)', 'At Risk (2)', and 'Due Today (4)'. A blue callout box highlights the 'Approve Home Loan' task, which includes a description of the loan application and 'Approve' and 'Reject' buttons. A blue text box at the bottom right of the callout states: 'Simplify user interactions by allowing "in-line" task completion'.

My Tasks

Overdue (3)

- Initiate Credit Check** (Due: May 11, 2011) - Underwriter Group
- Initiate Credit Check** (Due: May 12, 2011) - Underwriter Group
- Approve Home Loan** (Due: May 12, 2011) - Underwriter group

The Jones family has applied for a \$350,000 home loan to help pay for a house in Brantly Park. The Jones are looking to sign contracts and move in by July 1, 2011.

Loan Amount: \$350,000 Credit Score: 810 Anual Household Income: \$180,000

Approve Reject

At Risk (2)

- Answer Help Request from John Henson** (Due: May 15, 2011) - Credit Check Application - 239420
- Complete Loan Rejection Form** (Due: May 15, 2011) - Loan Process - 3847264918

Due Today (4)

Simplify user interactions by allowing "in-line" task completion

work >

Complete Loan Rejection Form



Due: May 15, 2011

Name:	<input type="text"/>	Sex:	<input type="radio"/> Male	<input type="radio"/> Female		
Date of birth:	<input type="text"/> / <input type="text"/> / <input type="text"/>	Reason for credit check:	<input type="text"/>			
Primary account number:	<input type="text"/>	Secondary account number:	<input type="text"/>			
Group number:	<input type="text"/>	Relationship:	<input type="radio"/> Married	<input type="radio"/> Single	<input type="radio"/> Divorced/Widowed	
First reason for rejection:	<input type="text"/>		Second reason for rejection:			
Third reason for rejection:	<input type="text"/>		Credit score:	<input type="text"/>	Number of credit cards:	<input type="text"/>
Credit score source:	<input type="text"/>		Rejection date:	<input type="text"/> / <input type="text"/> / <input type="text"/>		

Complete view of process details
from within any task

[Complete](#)

Details

Stream

Experts

Loan Request 3847264918

Applicant name: **Minner, Edward N.**Account Num: **1237890095748392013**SSN: *****-**-1234**Phone: **222-333-4444**Banker: **Cutler, Susan**

Tasks

[View Process Diagram](#)

- Initiate Credit Check**
 Elizabeth Jensen
Started: May 15, 2011 at 9:00 am
Due: May 15, 2011 at 5:00 pm
- Verify Information**
 Craig Moser
Started: May 14, 2011 at 3:45 pm
Completed: May 14, 2011 at 5:00 pm
- Submit Applicant Information for Pro...**
 Benjamin Short
Started: May 13, 2011 at 3:45 pm
Completed: May 13, 2011 at 5:00 pm
- Collect Applicant Information**
 Elizabeth Jensen

In-Task Collaboration



Wendy sees a Collaboration request from Jane...

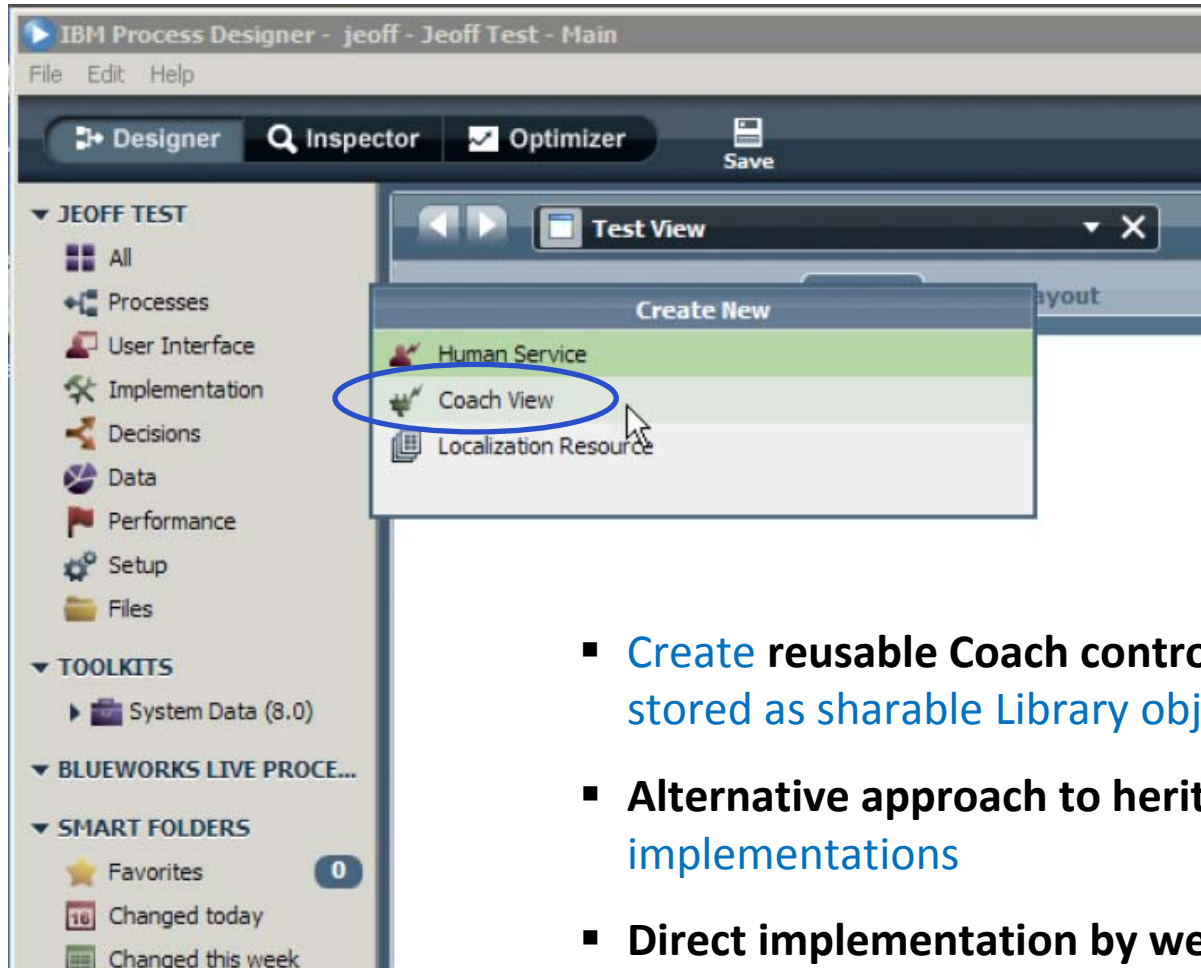


The screenshot shows the IBM Work dashboard interface. The top navigation bar includes the IBM logo, a 'WORK' tab with a gear icon, and a 'DASHBOARDS' dropdown menu. The user's name 'Wendy' is displayed in the top right corner, along with a globe icon and a help icon. The main content area is split into two columns. The left column, titled 'My Tasks', features a search bar and a filter for 'Open Tasks | Completed Tasks'. Under the 'Overdue (2)' section, two tasks are listed: 'Step: Flight Search Service' (due 3/28/12 11:59 AM) and 'Task: ApproveReplenishmentOrder' (due 3/28/12 12:00 PM). The right column shows a notification feed with buttons for 'Launch', 'Following', and '@Mentions'. A notification from Jane is highlighted with an orange border, stating: 'Jane invited you to collaborate on the Do the test task for Product Test:162' with a timestamp of 'March 28, 2012 3:10 PM' and the message: 'I would like to work with you on the 'Do the test' task for 'Product Test:162'.' A red callout box with a line pointing to the notification contains the text: 'Wendy will see an instant message invitation'.

New Reusable “Coach Views”



Implement reusable UI components that look & behave exactly as you want



- Create reusable Coach controls and templates, stored as sharable Library objects
- Alternative approach to heritage “modeled” Coach implementations
- Direct implementation by web developers using familiar HTML, Javascript, CSS, Ajax, JSON, ...

What's New in IBM Business Process Manager v8?



Mobile Access

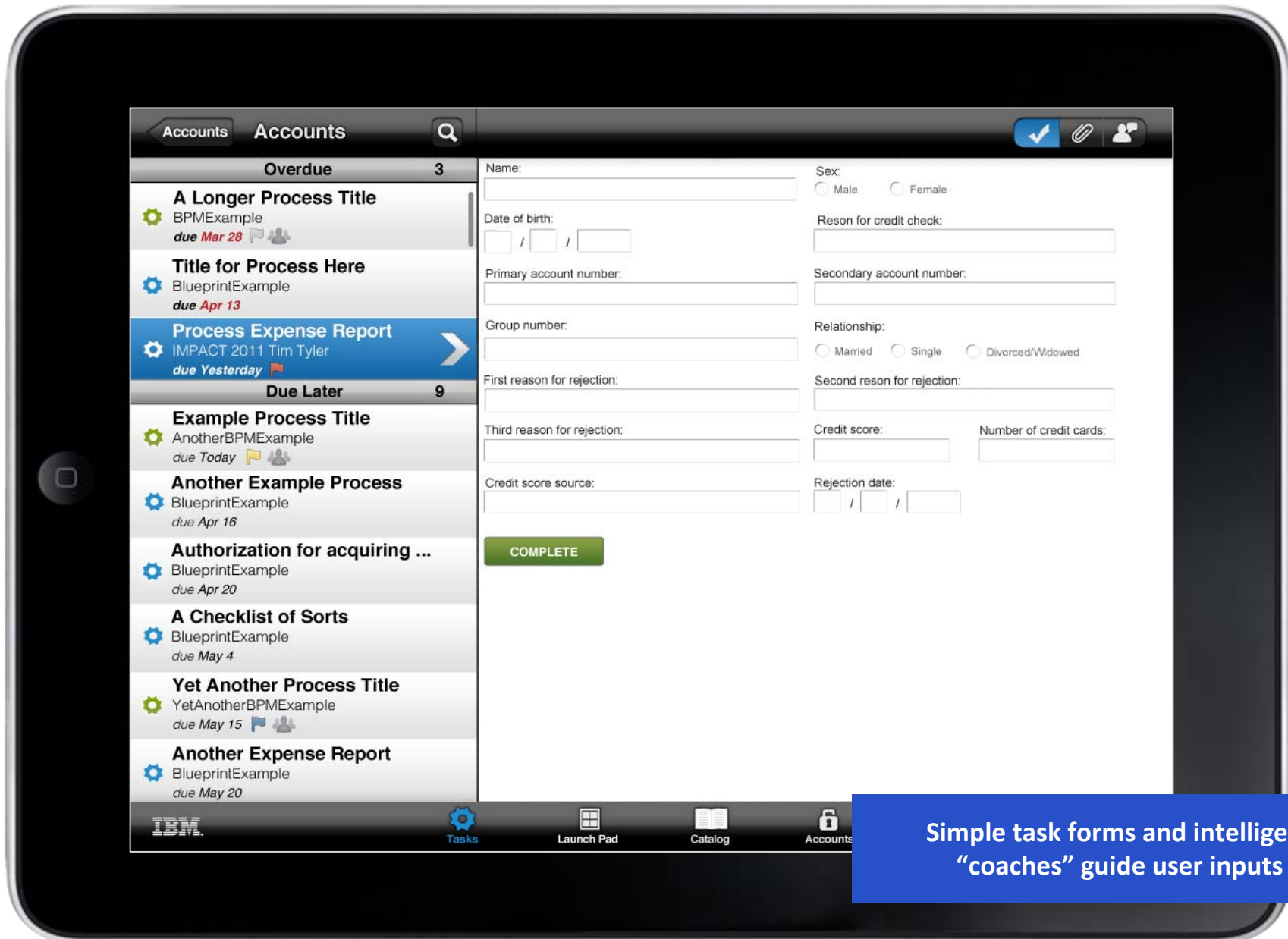


- **Native mobile app for iPhone / iPad promotes broader adoption and easy access to Blueworks Live & IBM BPM tasks**
- **Consolidates all of your process related work into a unified view**
- **Extensive REST APIs & examples enable customized integration of IBM BPM and Blueworks Live content into your own mobile experiences**

iOS App for Mobile Users: Tasks & Coaches



Flexible access to promote broader adoption

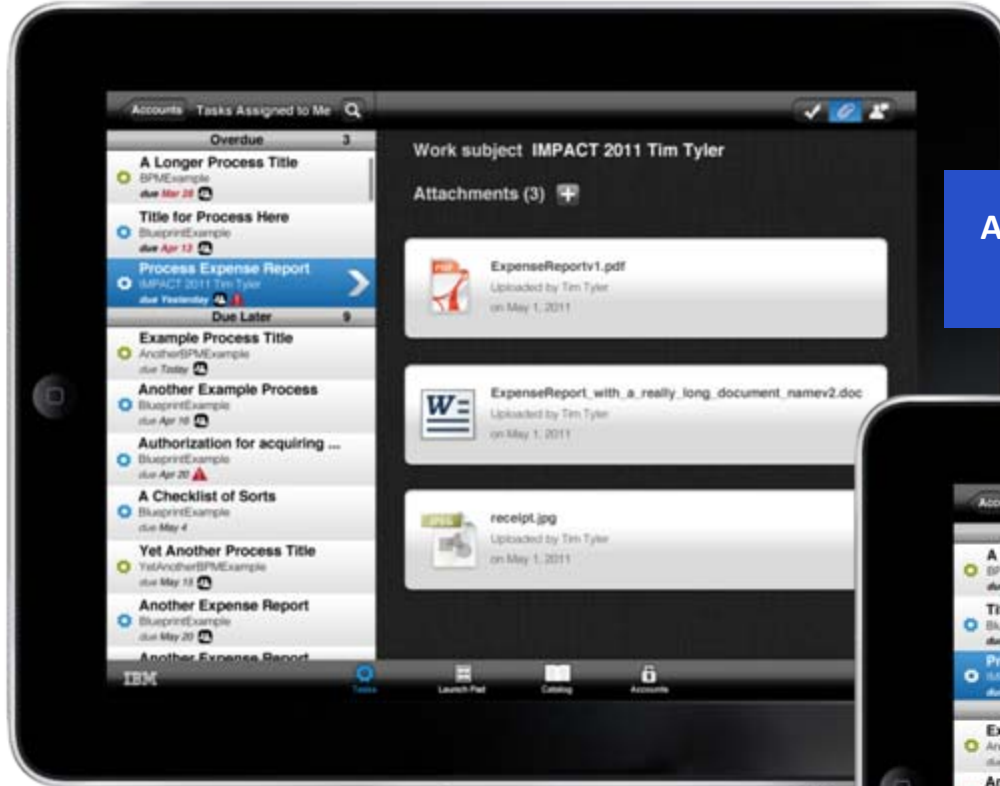


Simple task forms and intelligent “coaches” guide user inputs

iOS App: Dynamic Activity Stream Communication



Improve productivity with collaborative communication



Attach supporting documents and images to any process task

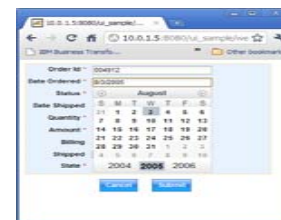


Improve productivity among business stakeholders through dynamic communication of activities – reduce ‘back channel’ emails, messages, etc.

Extensive REST APIs with API Tester



Desktop
Browsers



Smartphones



Tablets



Business Process Manager | REST API Tester | Call Tester | Service Runner | IBM

Result Type: JSON (Javascript format)

Select API Call:

- Process API
- Service API
 - Retrieve Model
 - Start Service
 - Resume Service
 - Evaluate JavaScript
 - Get Data
 - Set Data
 - Stop Service
 - Currently Running
 - Exposed Services
- Task API
 - Task Details**
 - Start Task
 - Assign Task To User
 - Assign Task To Group
 - Assign Task To Me
 - Assign Task Back
 - Update Due Date
 - Update Priority
 - Finish Task
 - Cancel Task
 - Task Client Settings
 - Task Actions
 - Task Queries

Task Details
Retrieves the details of a task

Task ID: 3

Parts:
 data

Execute Call

Request: http://localhost:9080/rest/bpm/wle/1/task/3?parts=all

Status: 200 - OK

Header:
Content-Type: application/json Content-Encoding: gzip Content-Language: en-US Transfer-Encoding: chunked Date: Thu, 17 Nov 2011 15:43:45 GMT Server: WebSphere Application Server/7.0

Result:

```
{
  status: "200",
  data: {
    activationTime: "2011-11-17T15:43:29Z",
    clientTypes: [
      "IBM_WLE_Coach"
    ],
    completionTime: null,
    containmentContextID: "3",
    description: null,
    displayName: "Step: This is my name",
    dueTime: "2011-11-17T16:43:29Z",
    kind: "KIND_PARTICIPATING",
    lastModificationTime: "2011-11-17T15:43:29Z",
    name: "This is my name",
    originator: "tw_admin",
    owner: null,
    priority: 30,
    startTime: "2011-11-17T15:43:29Z",
    state: "STATE_READY",
    tkiid: "3",
    piid: "3",
    status: "Received",
    priorityName: "Normal",
    assignedTo: "All Users_T_da7e4d23-78cb-4483-98ed-b9c238308a03.75514b0f-2015-4dc2-892e-f61a35fc11c0",
    assignedToDisplayName: "All Users",
    assignedToType: "group",
    data: {
      variables: {
        taskId: null,
        bpdName: null,
        userName: null,
        bpdInstanceName: null
      }
    }
  }
}
```



WebSphere
Portal



WebSphere
Application Server

New Process Portal and
iOS Mobile App
use this API

Content Access



- **Leverage shared business documents and images** within process tasks
- **Simplify access to content in any ECM repository** using Content Management Interoperability Services (CMIS)
- **Search, browse, and display the “right documents at right time”** within Process Coaches
- **Directly interact with document content** – create, retrieve, update, delete

New in IBM BPM v8: Content Management Interoperability Services (CMIS)



Any CMIS compliant ECM systems can be integrated with IBM BPM

**IBM
Business
Process
Manager**

Service-oriented interface



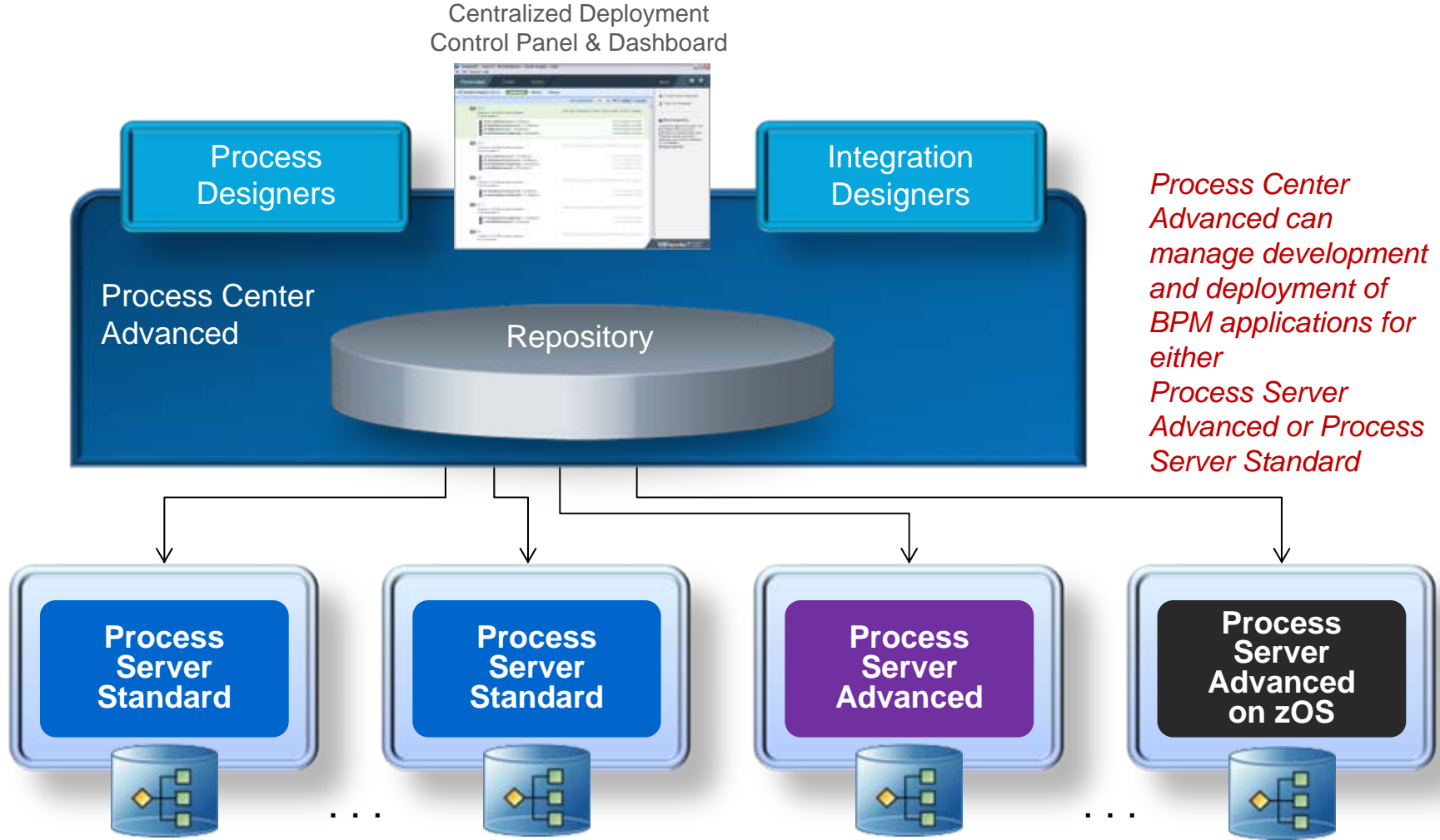
- FileNet V5
- IBM CM8
- Documentum
- SharePoint
- Alfresco
- OpenText
- Vignette
- ... and more!

Enhanced Governance



- **Networked Process Centers** enable sharing of process assets & toolkits to accelerate expansion “from project to program”
- **Automated governance processes** triggered by process life-cycle events for increased consistency & control
- **Active links to other development assets & tools** (including Rational) via Open Services for Lifecycle Collaboration (OSLC)

Centralized governance of mixed IBM BPM environments

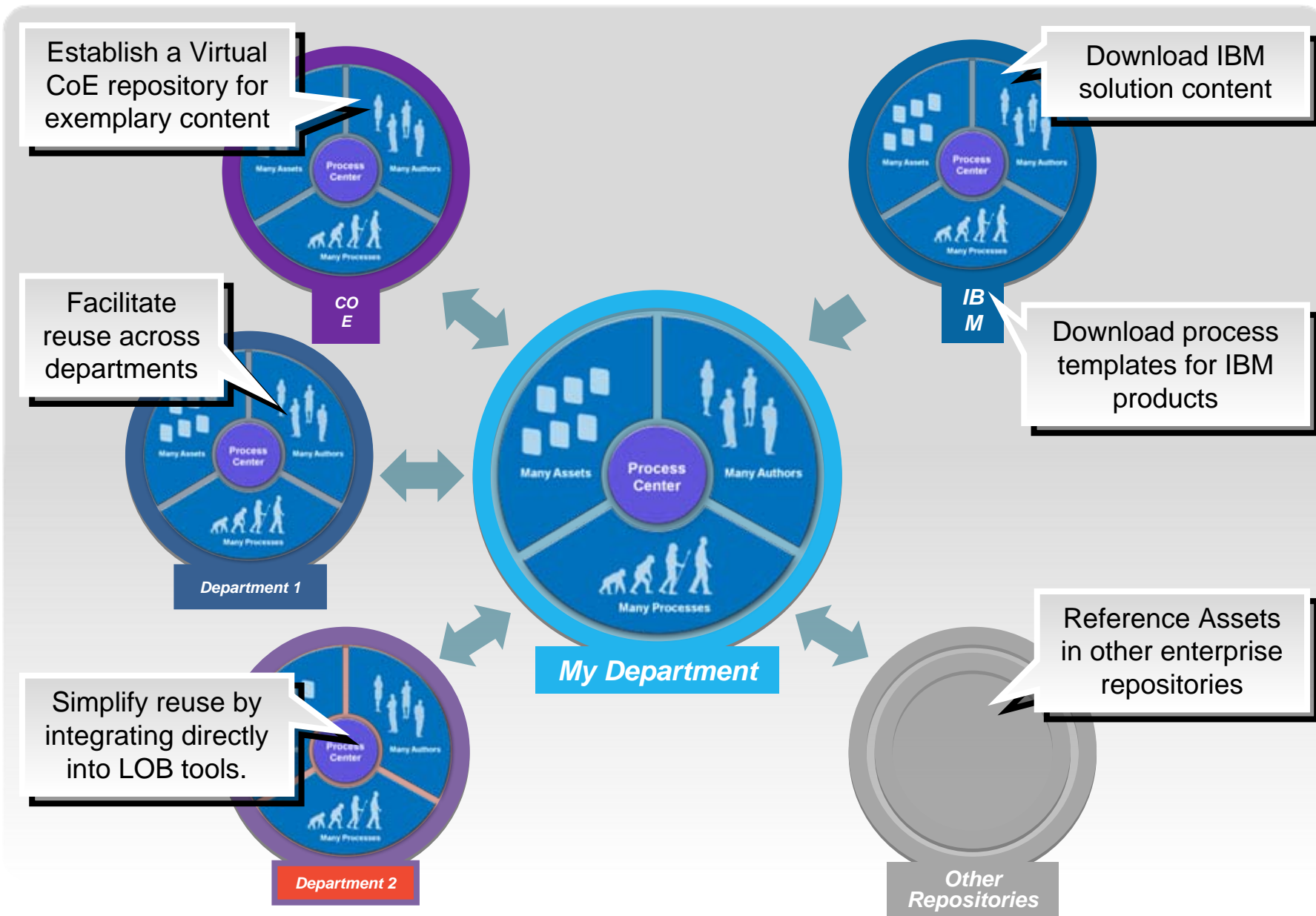


Process Center Advanced can manage development and deployment of BPM applications for either Process Server Advanced or Process Server Standard

Process Server Standard is backward-compatible with Lombardi BPM applications, preserving those investments

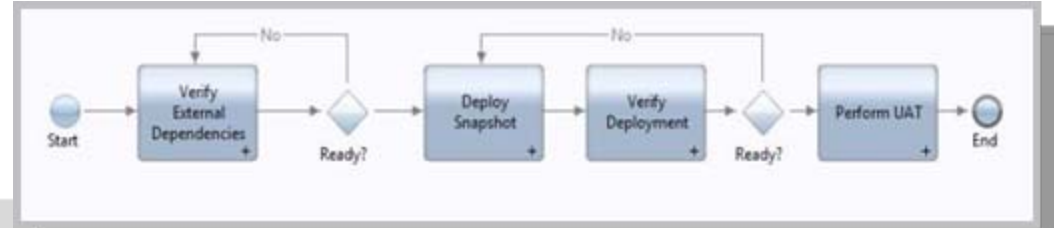
Process Server Advanced includes WPS technology that can be utilized when you also need advanced integration capabilities

Process Centers network for cross-group sharing

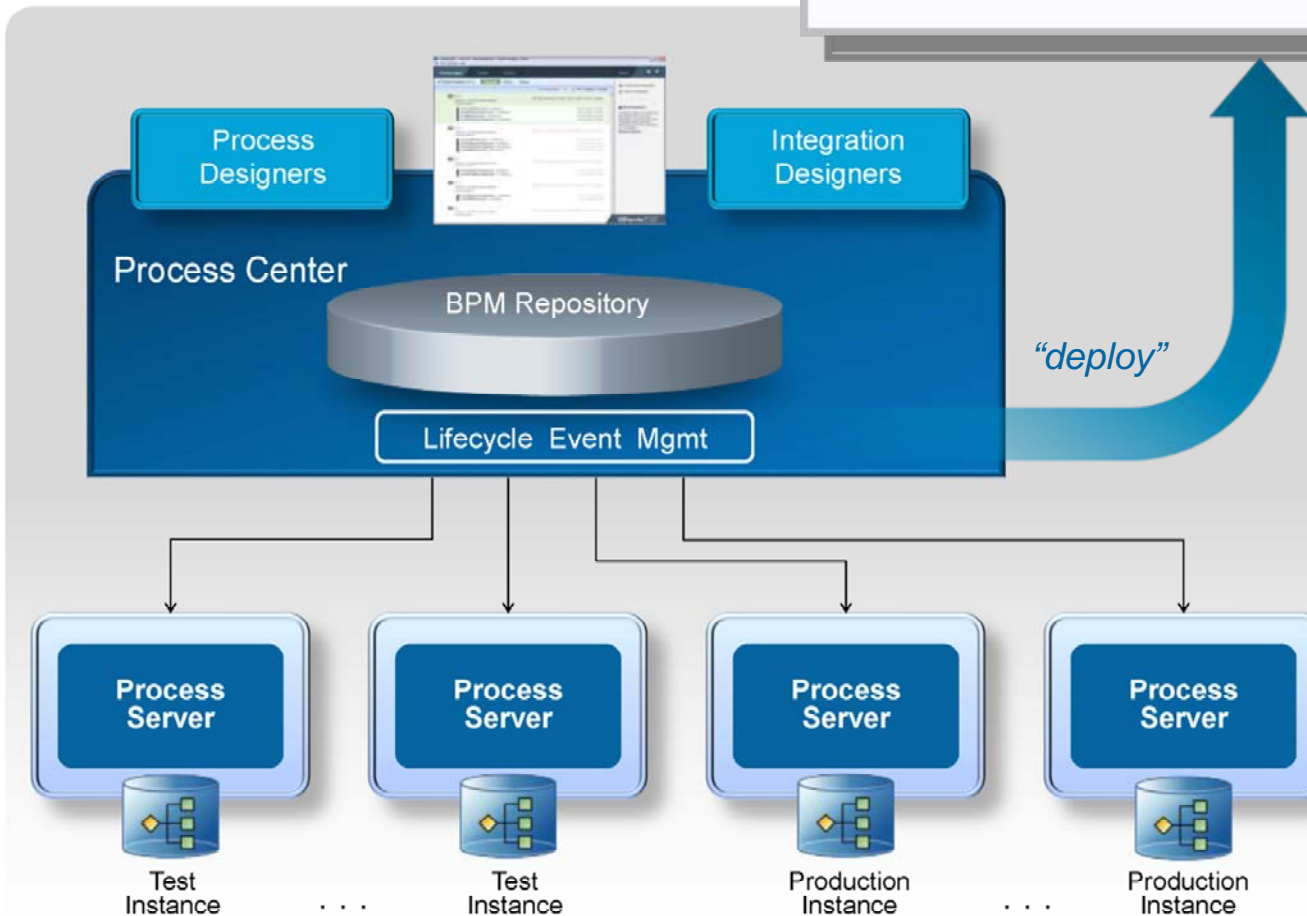


Use governance processes to control process lifecycle

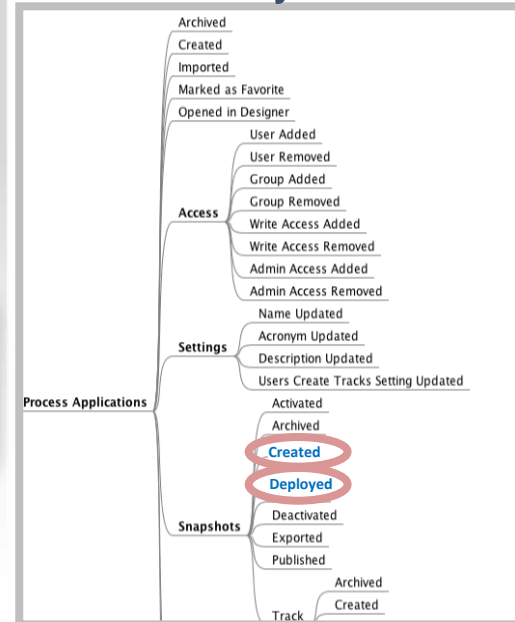
Trigger governance processes associated with specific lifecycle events



Governance process for deploying Snapshots

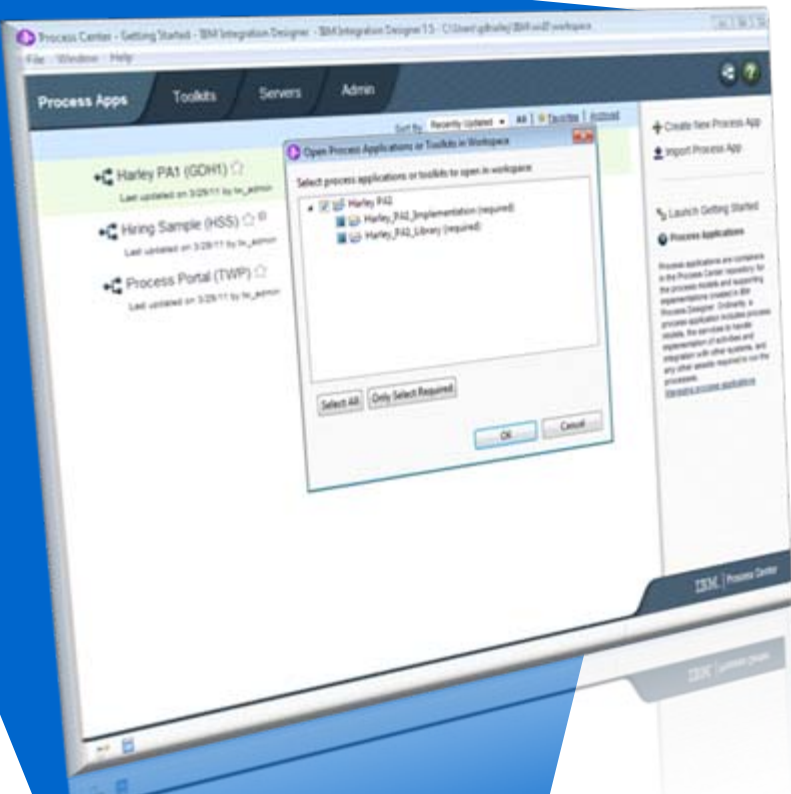


Process Lifecycle Events



Powerful integration capabilities

Integration Designer



- Eclipse-based tool that **simplifies integration** with visual editors and built-in test support
- Simplifies integration development through **pattern-based authoring**
 - **Visually construct reusable SOA services**, data transformations, BPEL orchestrations, and integration to applications and backend systems
 - Intuitive drag-and-drop editors enable **rapid building** of business integration solutions

Easily build *reusable* SOA services, orchestrate services, and access backend systems

Confidently execute mission-critical solutions Process Server

- Execute processes ***consistently, reliably, securely***, and with ***transactional integrity***
- High ***scalability and availability*** with extended support for ***high-volume*** process automation and ***high quality-of-service***
- Rich ***repair and recoverability capabilities***, such as automatic retries, manual repair, compensation, store & forward

Single BPM runtime to support the full range of business processes, service orchestration, and integration

Simplicity for business decisions

Integrated rules authoring



- Expresses business logic in an accessible manner using syntax that is *easily understood*
- Easily *export rules* content to Decision Server JRules

***Built-in rules authoring
based on Decision Server
BAL language***

Connect application and information assets

Integration Adapters and ESB



- Accelerate business integration projects with **rapidly deployable**, enterprise-ready connections based on **best practices**
- A comprehensive set of capabilities to **service-enable your assets**, including packaged, custom, and legacy applications, technology protocols, and databases
- **Built in SOA components** - flexible enterprise service bus (ESB) connectivity infrastructure for integrating applications and services

Dramatically Improve the Way Work Gets Done

- Manage mission-critical business processes at scale
- Ensure transactional integrity
- Enable social collaboration to manage business change

Maximize Agility in zEnterprise Business Applications...

- *Resiliency* through workload management & co-location
- *Simplicity* of process complexity through high-performance process automation
- *Modernization* of existing applications with shared and reusable enterprise process services

What's New in IBM Business Process Manager v8 for System Z ?



z/OS and
zEnterprise



IBM zEnterprise EC12
(zEC12)
Next generation of
hybrid computing

WAS V8.0 for z/OS

Further refinement of proven base
Enhanced commonality across platforms
Greater z/OS exploitation

IBM BPM PS V8.x for z/OS

Common IM Based Streamlined Install
WOLA Support
DB2 V10 for z/OS Optimization
Performance and Tuning
Hybrid Deployment Patterns

The Key Technical Messages for: WAS V8.x for z/OS

Further refinement of proven base

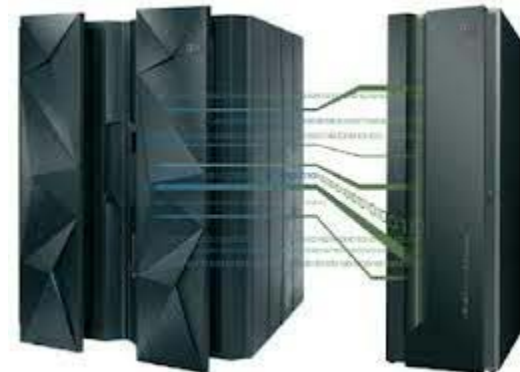
- Updated specifications (Java EE 6, EJB 3.1, Servlet 3.0, JSP 3.0, etc)
- Enhanced web services: JAXB, JAX-RS, JAX-WS
- Feature packs rolled in: SCA, XML, OSGi, JPA, WOLA, Batch
- Continued focus on tightening and refining programming

Enhanced commonality across platforms

- Common installation process using Installation Manager
- Common high-performance logging function

Greater z/OS exploitation

- More granular settings for timeouts and tracing w/ dynamic control
- Resource routing for data source and connection factories



IBM BPM PS V8 for z/OS

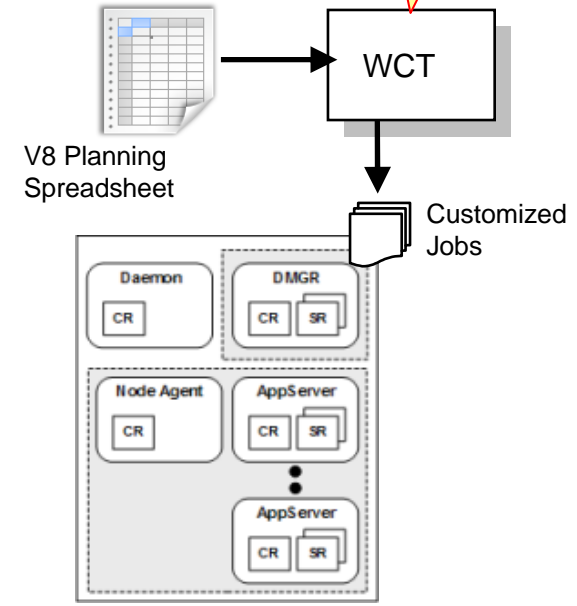
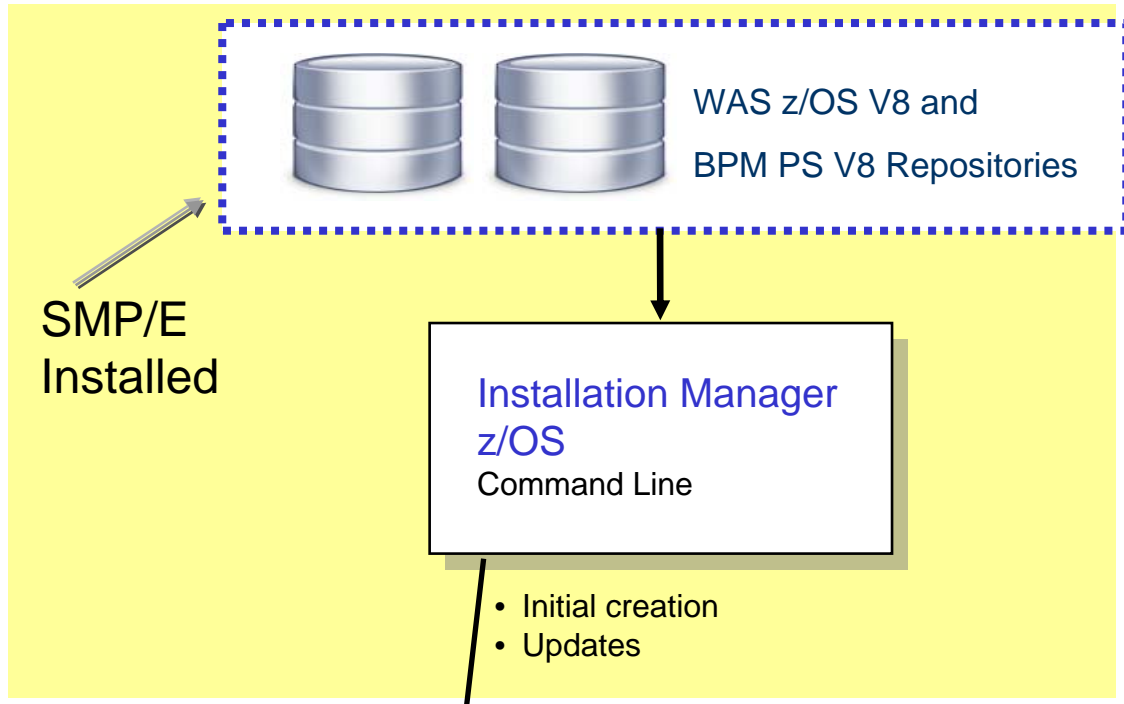
- Streamline and Simplified Install using Install Manager for z/OS (Common to BPM family)
- Enhancements to WCT Tool to support multiple Version of IBM BPM V7, V8, V8.x
- WOLA for CICS, IMS Integration Tooling Integration out-of-box adapters with support for hi-speed, 2-way WOLA integrations with IMS
- DB2 V10 Install refinements and Performance Optimization (i.e. in Line LOBS)
- Exploit above WAS 8.x for z/OS features (Servant and Thread PD and optimization)
- Greater focus on H/A, SIB Failover and Cross-System Recovery Participation
- z/OS-specific Monitoring, problem determination, system administration
- Optimization & tuning of IBM BPM performance on z/OS Java 6

Installation Manager for WAS V8 and BPM V8 for z/OS



This is entirely new for WAS z/OS V8 ... the use of command line IM on z/OS to create and maintain the hlq.SBBOHFS file product file system:

WCT Multi Version support Vnext



Essentially same process as before

SERVICE.hlq.SBBOHFS
/SERVICE/usr/lpp/zWebSphere/V8R0

Essentially same process as before

hlq.SBBOHFS
/usr/lpp/zWebSphere/V8R0

WAS and BPM V8 for z/OS Runtime
Symlinks to hlq.SBBOHFS product file system

"Copied Out"

Centralized governance on System Z

Centralized Deployment
Control Panel & Dashboard



Centralized repository

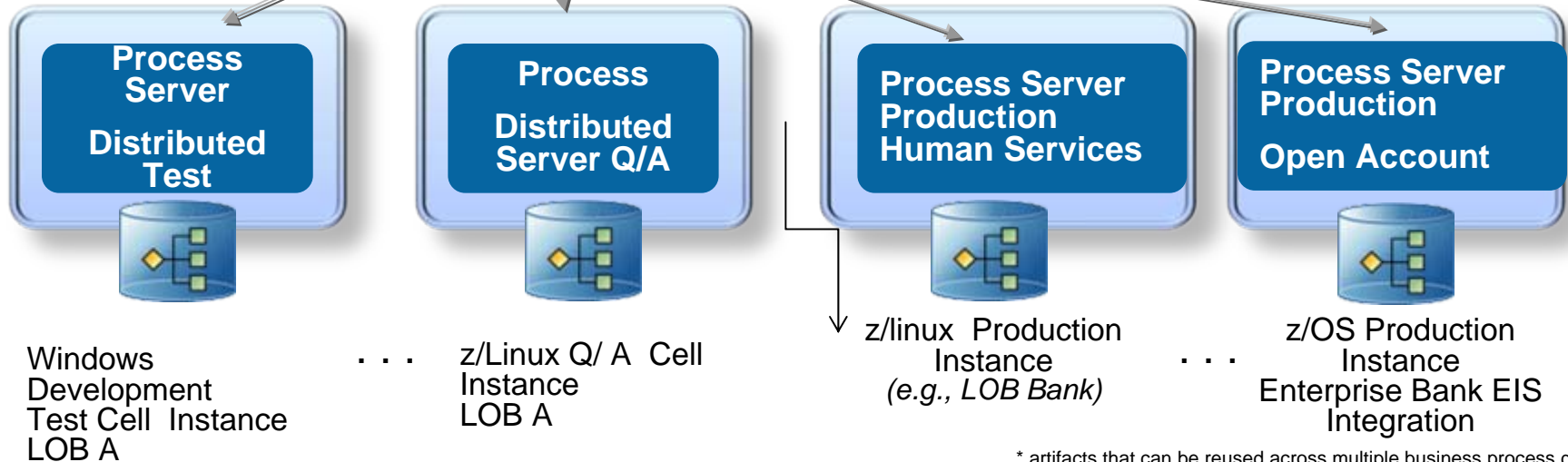
- One-click snap shots of toolkits* and apps

Centralized deployment

- One-click deployment and in flight upgrade

Centralized registry

- Single server registry and dashboard of deployments

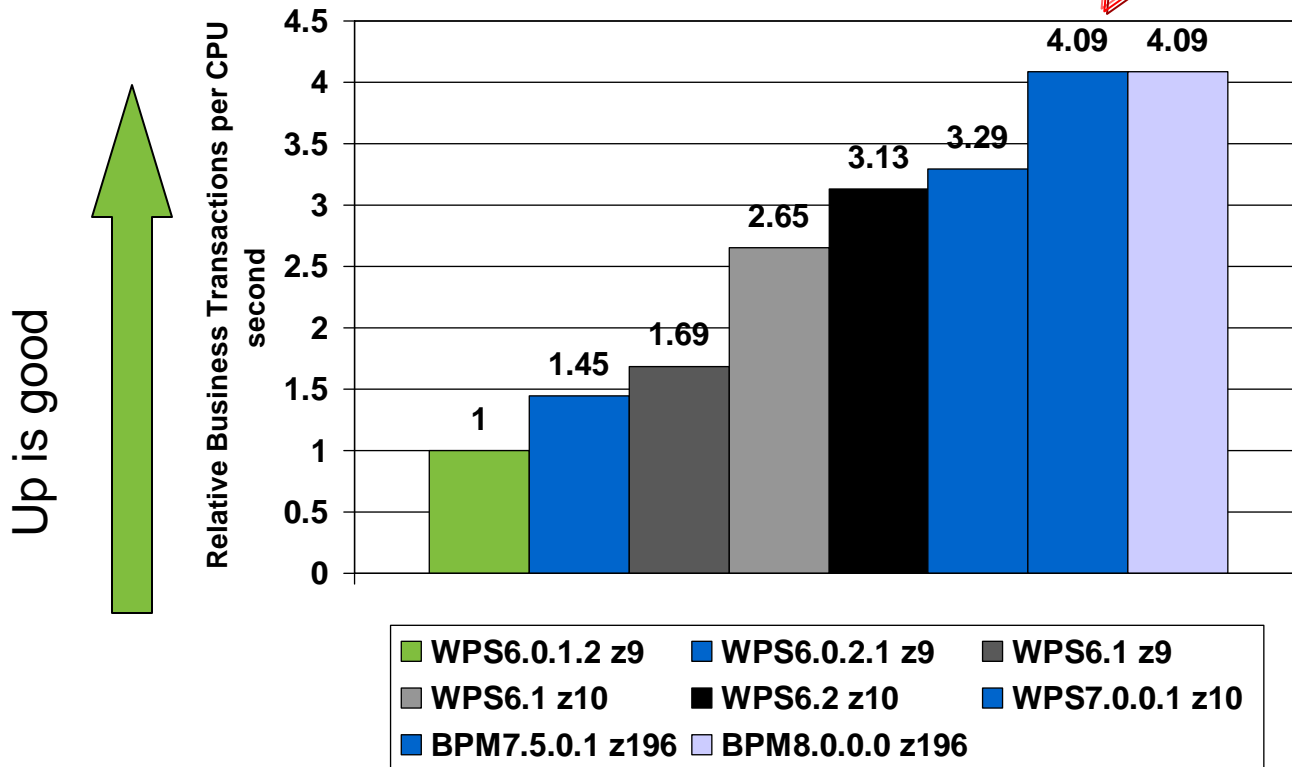


* artifacts that can be reused across multiple business process diagrams

PVT1 – IMS PriceChange Process (Microflow) BPM V8.0.0.0 performance improvement



BPM for z/OS Plans to provide EC12 measurements In 4Q2012



BPM8.0.0.0 on z196 throughput is improved by about 309% as compared to WPS6.0.1.2 on z9

Hardware: 4-way z9 @1.7GHz
 4-way z10 @4.4 GHz
 4-way z196 @5.2 GHz

Software: WPS6.0.1.2 on z/OS 1.6, Java 1.4.2, IMS 9.1, DB2 8.1
 BPM8.0.0.0 on z/OS 1.13, Java626SR1, IMS 12.1, DB2 10.1

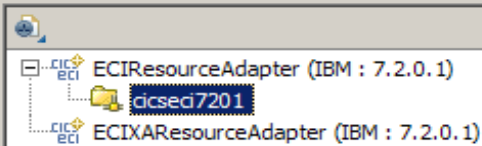
Connect to CICS and IMS z/OS services

1 Select Adapter

New External Service

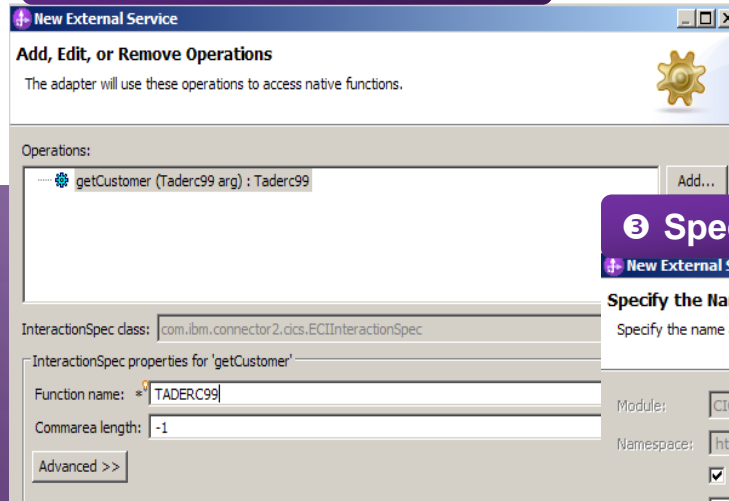
Select an Adapter

Select the version of the adapter that you want to use.

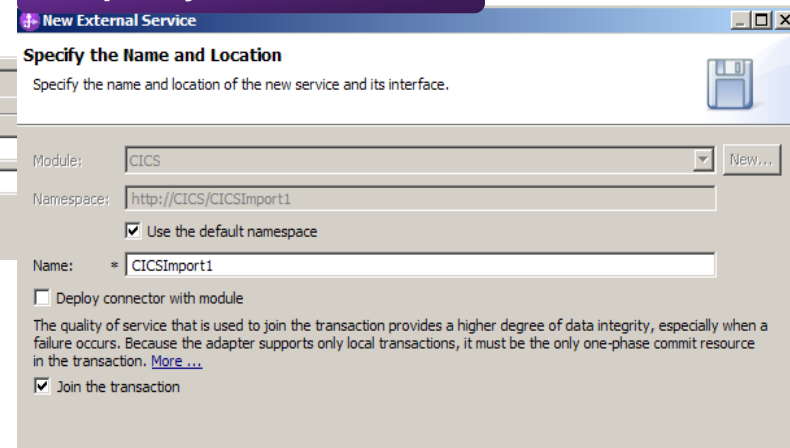


Designers interact with applications on zOS using familiar COBOL data structures

2 Specify interaction Info



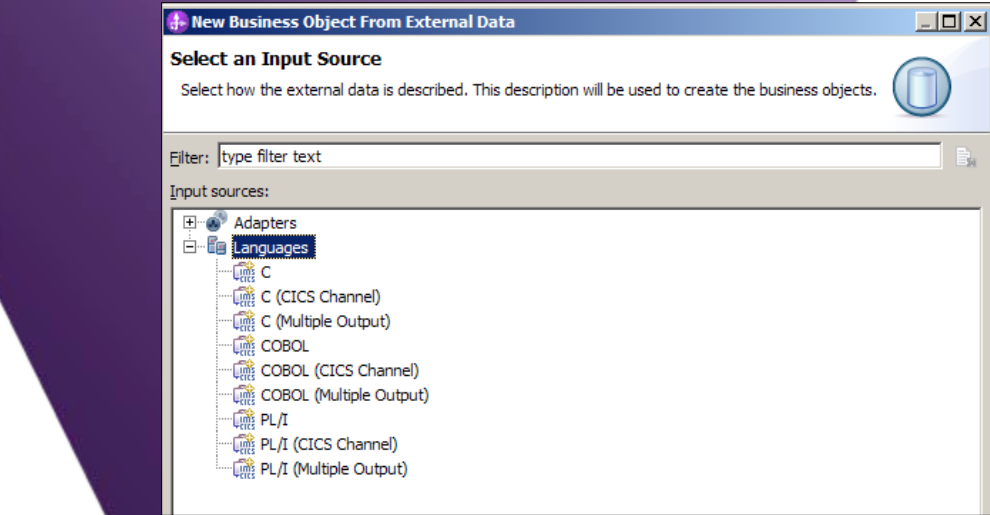
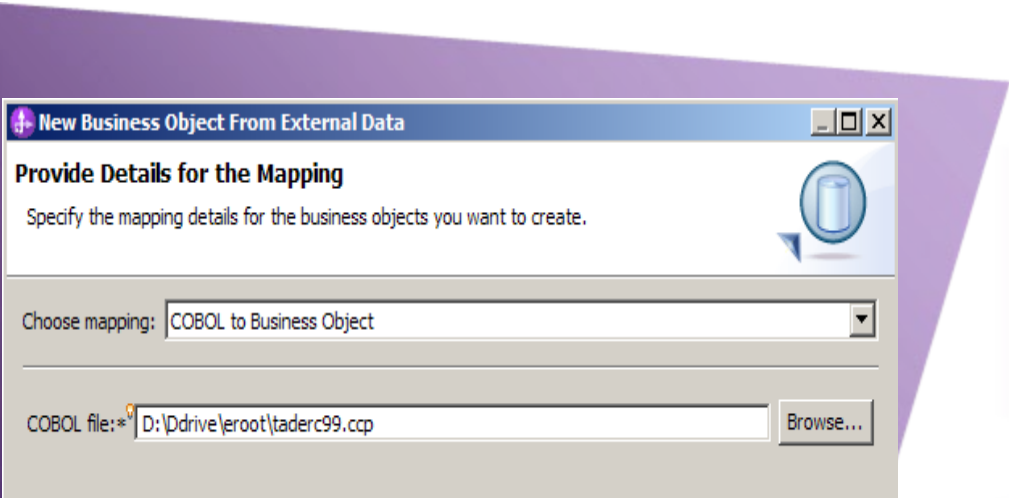
3 Specify Service name



Leverage native z/OS data structures

Reference data from COBOL copybook

Support for Language such as C, COBOL, PL/1, Channel Records, Multiple output

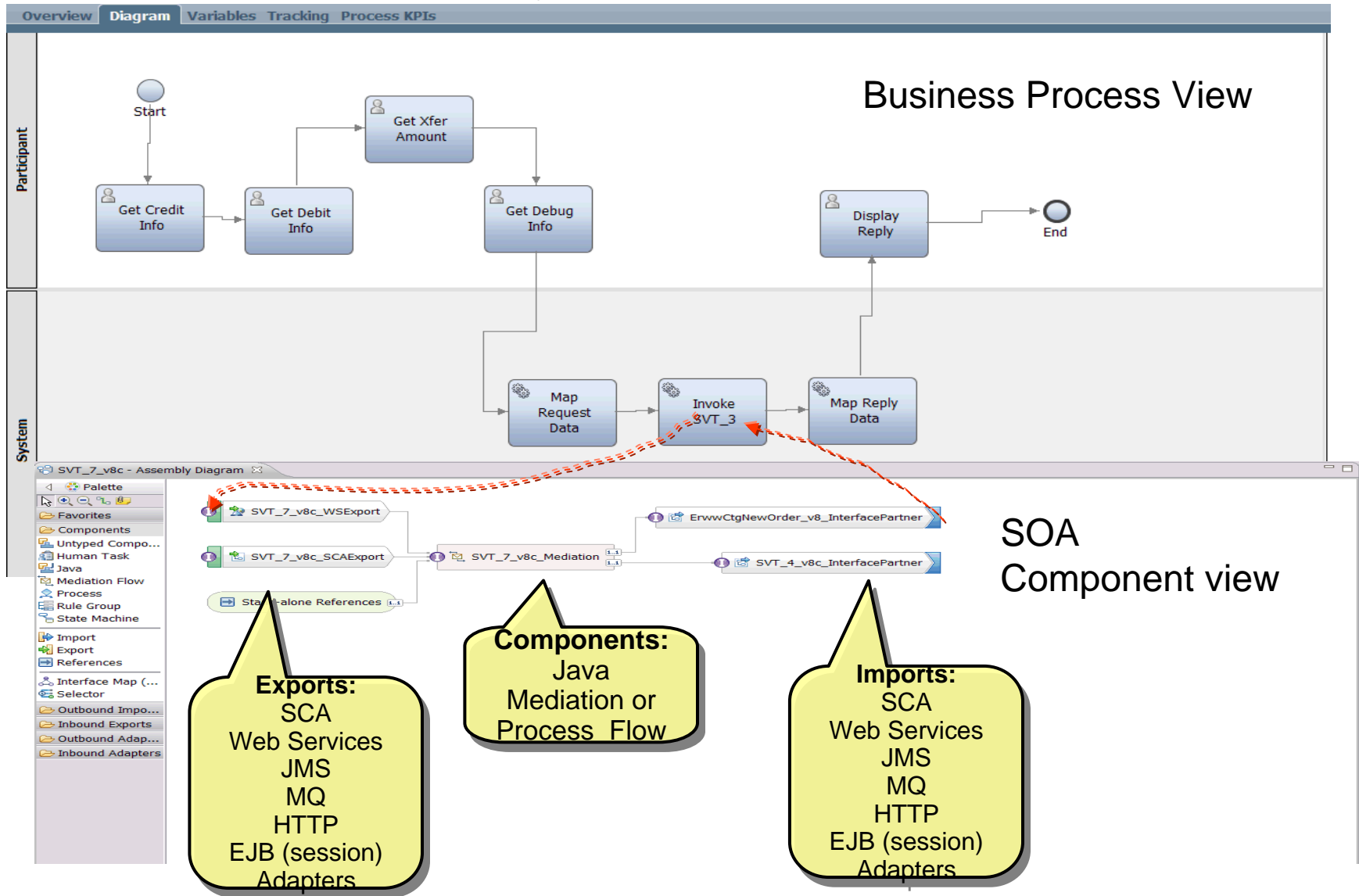


IBM BPM and Service Component Architecture (SOA)



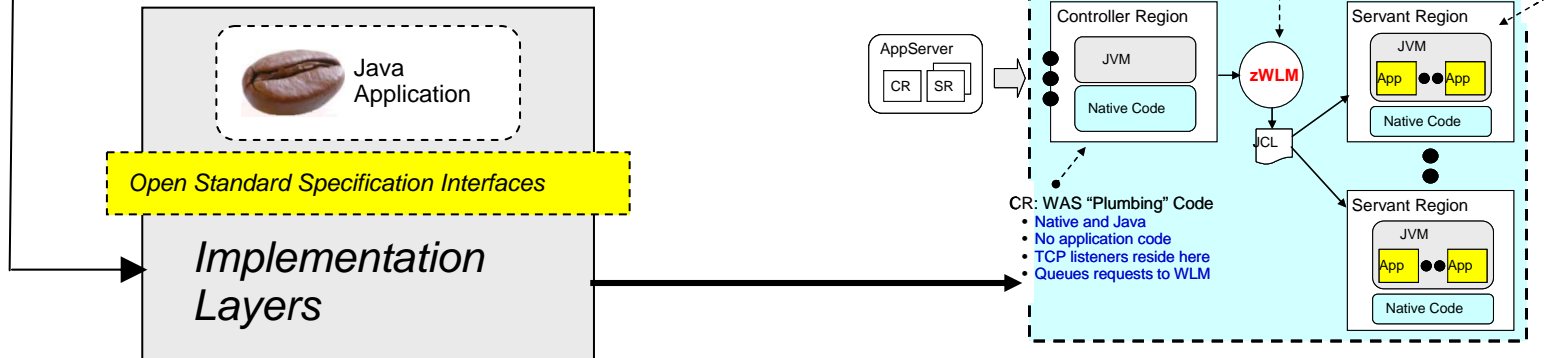
Components are implemented by different kinds

Imports and **exports** support different protocols supporting ESB and Process components and the ability to define their interaction QOS



Remember - WAS and BPM PS on z/OS - Exploits

1. Exploitation of JES and common z/OS facilities
2. Exploitation of zAAP specialty engines
3. Exploitation of WLM
4. Exploitation of RRS
5. Exploitation of SAF and Crypto
6. Exploitation of SMF
7. Exploitation of z/OS exclusive Cross Memory Communications



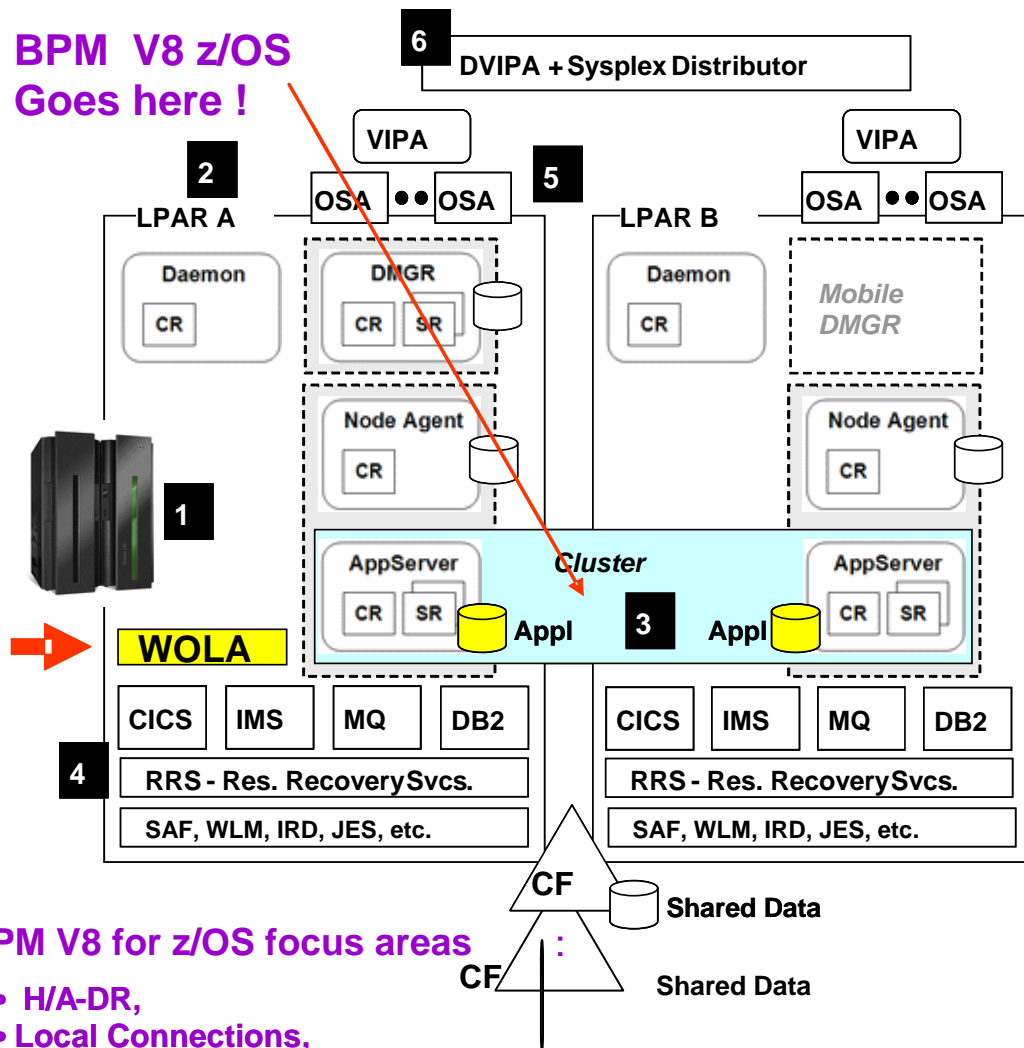
*WebSphere is WebSphere up here
It's all based on accepted standards*

*Exploitation taking place below
the open standard interface line*

The Big Picture of WAS and BPM V8 z/OS in Parallel Sysplex

It's all about redundancy *and* integration with platform HA / DR function

BPM V8 z/OS Goes here !



- 1. Redundant and fault-tolerant hardware**
System z hardware design has many layers of fault tolerance and redundancy.
- 2. Redundant z/OS instances**
Either through logical partitioning (LPAR) or separate physical machines.
- 3. Clustered WebSphere z/OS servers**
Multiple application servers grouped into a logical unit for application deployment and management
z/OS exclusive: dynamic SR expansion (more coming up)
- 4. Redundant data resource managers with Sysplex shared data**
Multiple resource managers instances with shared data in CF and a global syncpoint manager (RRS)
- 5. Redundant network adapters hidden behind Virtual IP address**
On the front end, multiple network interfaces with a moveable virtual IP address protecting against outage
- 6. Workload distribution hidden behind distributed virtual IP and Sysplex Distributor**
Further abstraction of real IP addresses behind a virtual IP that can be swapped across images in a Sysplex, with Sysplex Distributor providing TCP connection distribution based on WLM

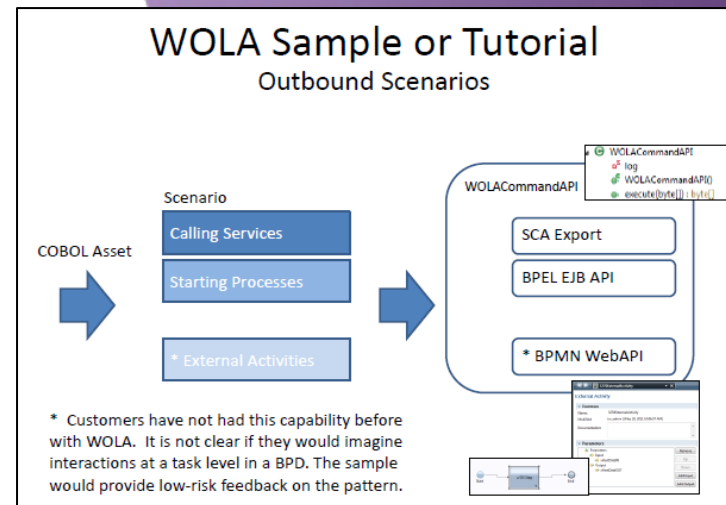
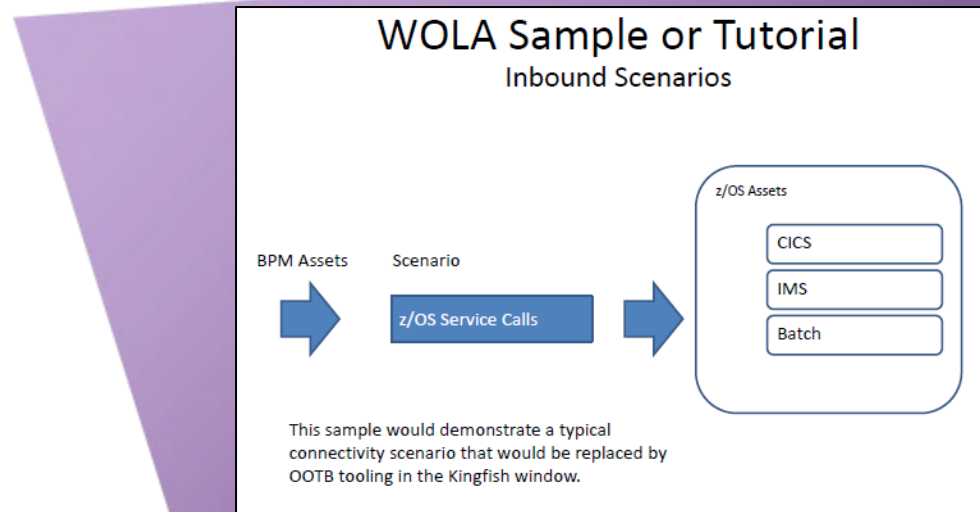
BPM V8 for z/OS focus areas

- H/A-DR,
- Local Connections,
- DS and DB2 v10 for z/OS strengths
- WMQ Q Sharing

Fast communication with z applications

- The WebSphere z/OS “Optimized Local Adapters” is a function provided with WebSphere Application Server for z/OS
- Cross-memory local communications between BPM processes and external address spaces
 - CICS
 - IMS
 - batch programs
 - Unix Systems Services (USS) programs
 - Airlines Line Control (ALCS) programs

Tutorial for WOLA

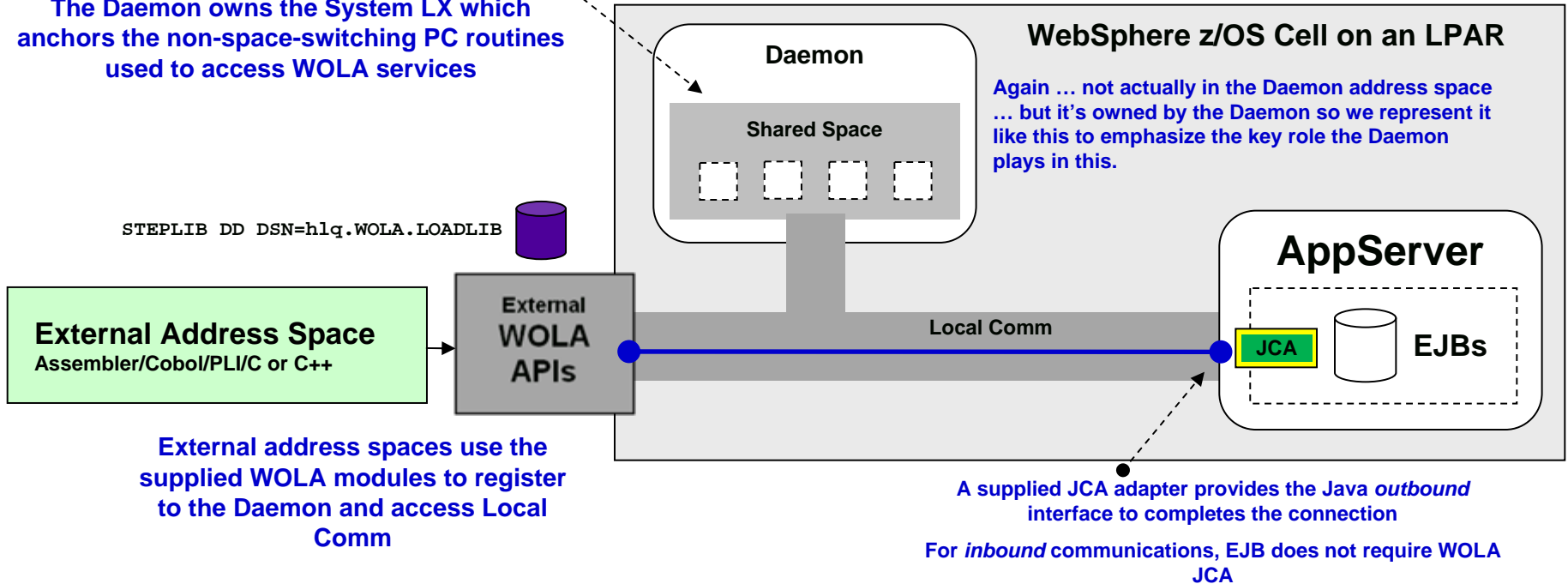


Very High Level Picture of WOLA

This is just a schematic, but it helps position some key concepts:

The Daemon owns the shared above-the-bar storage where WOLA registrations live and that data buffers flow through

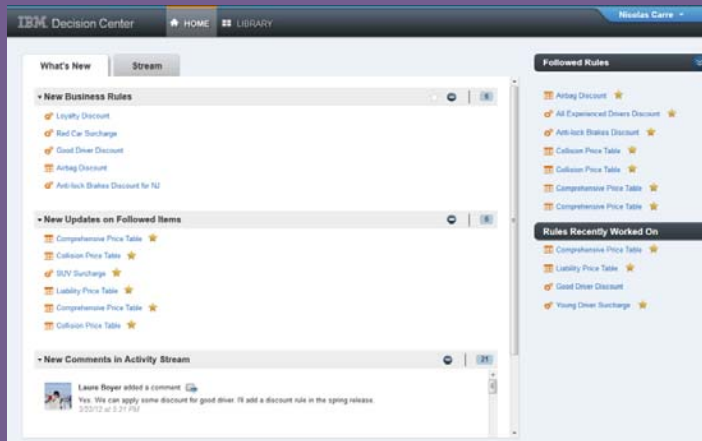
The Daemon owns the System LX which anchors the non-space-switching PC routines used to access WOLA services



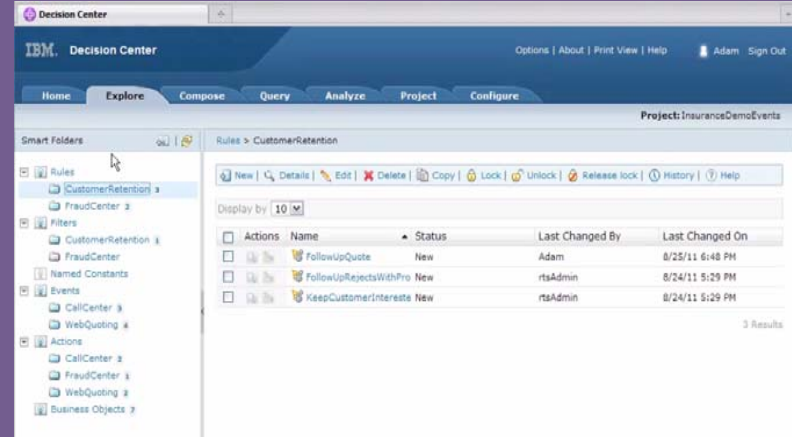
Essentially this is a set of APIs that externalizes the Local Comm function that is already in use within a WebSphere cell on an LPAR

Decision Center

Decision Center *Business Console*



Decision Center *Enterprise Console*



Decision Artifacts

Versioning

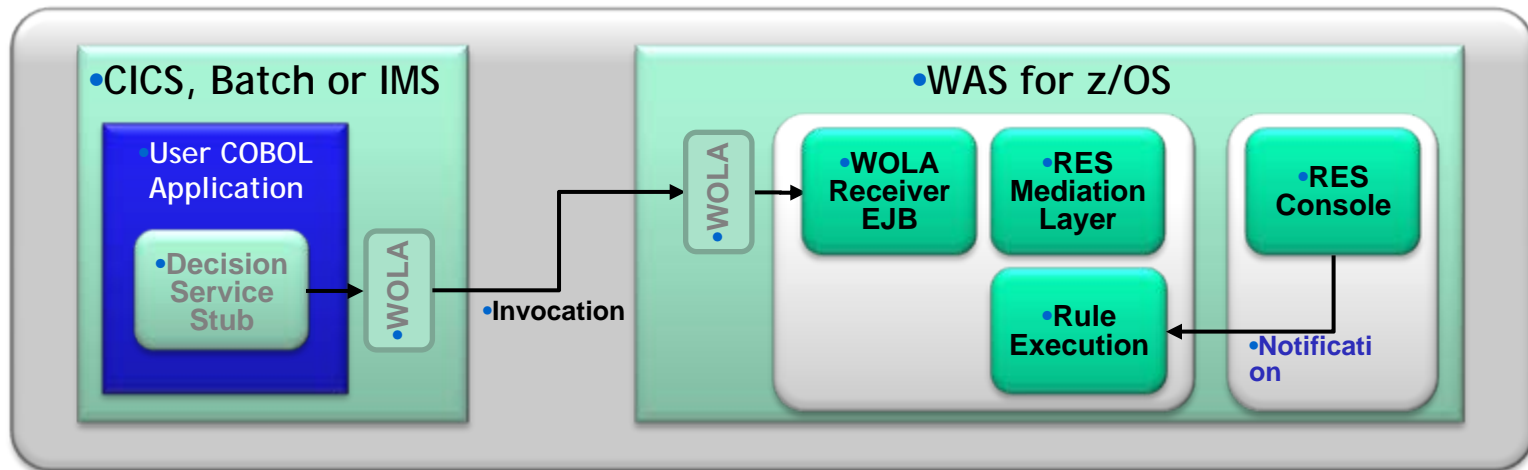
Access and Control

Decision Center Repository

Business Console (new) functionality for **business experts** to understand, manage and collaborate on evolving decision logic

Enterprise Console (current) functionality for **advanced business analysts and administrators** to fully govern the decision lifecycle

Decision Server on zOS



- **Built-in support for WebSphere Optimized Local Adapter (WOLA)**
- **Use standard zRES API from COBOL application**
- **No user Java coding required**
- **Easy to reconfigure client for any supported rule execution options**
- **Simple configuration only change, no recoding or compiling**

End-to-End Real Time Visibility with Business Activity Monitoring

IBM Business Monitor V8.0
IBM Business Monitor V8.0 for System z



- **Increases ROI** through real time operational visibility and low implementation costs
- **Enterprise mobility** enables views of reports, KPIs, metrics, and alerts through Web interfaces, mobile devices, and corporate portals.
- Fully integrated **Cognos Business Intelligence v10.1.1** for dimensional analysis and reporting
- **What's new?**
 - Automatically generated dashboards
 - Facilitates **rapid development and playback**
 - Generated business-level milestone diagrams
 - Business users can see current state **at a glance**
 - Advanced correlation across event sources/products
 - Track **end-to-end flow** even with no common key
 - Improved detection of current or **predicted** SLA violations
 - Simpler, more efficient **time-based SLA** detection
 - **Graphical visualization** of on-track/at-risk/overdue



Provides visibility into real-time, end-to-end business operations, transactions, and processes to increase revenue, lower costs, and improve service

Optimized for z/OS: *event processing scales as you add servant regions*

Lots of things are 'hybrid' designs, or deployments, because they eventually make sense !



WebSphere®
Lombardi Edition

- *simple to use*
- *fast time-to-value*
- *deep business engagement*

WebSphere®
Process Server

- *high performance*
- *excellent integration*
- *superior integrity*

IBM
Business
Process
Manager

for z/OS



Evolution of hybrid computing with IBM System z



For BPM on Z, we have been experimenting with "fit for purpose" positioning for a while now; zBLC workgroups, Industry Solutions etc. We should consider "hybrid" BPM Solutions on zEnterprise

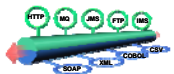
IBM zEnterprise® 196 (z196)
First ever multiplatform computer – mainframe and distributed with single management



July 2010

Nov 2010

DataPower® XI50z
within the IBM zEnterprise BladeCenter® Extension (zBX)



Mar 2011

Availability of Linux® on IBM System x® on HX5 blades in the zBX



Sep 2011

Availability of Microsoft® Windows® on System x blades in zBX and APIs



Dec 2011



Aug 2012

Availability of zBX with IBM POWER7® blades and IBM Smart Analytics Optimizer



Announce IBM zEnterprise 114



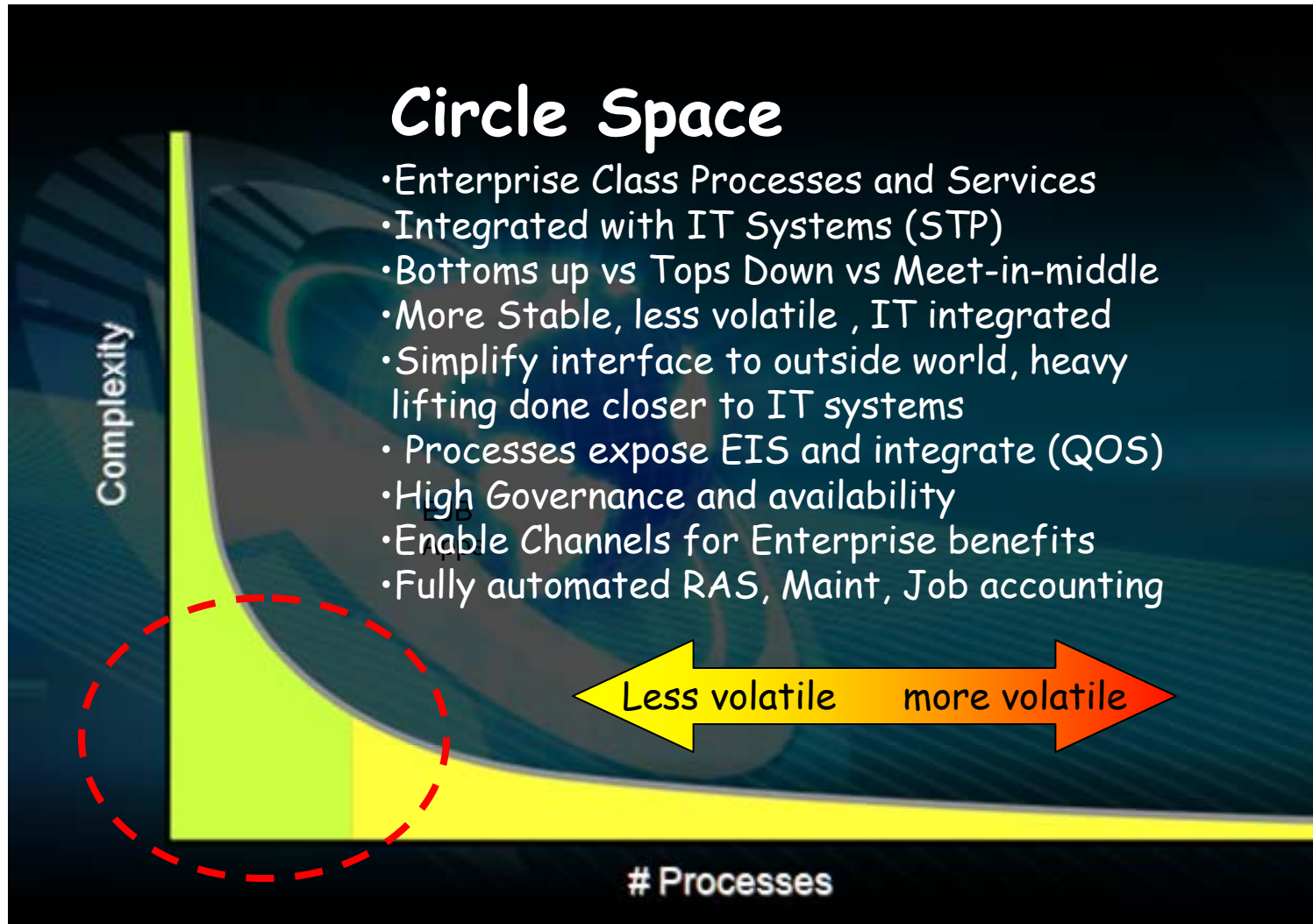
IDAA – evolution of IBM Smart Analytics Optimizer – coming out of the zBX and into Netezza technology



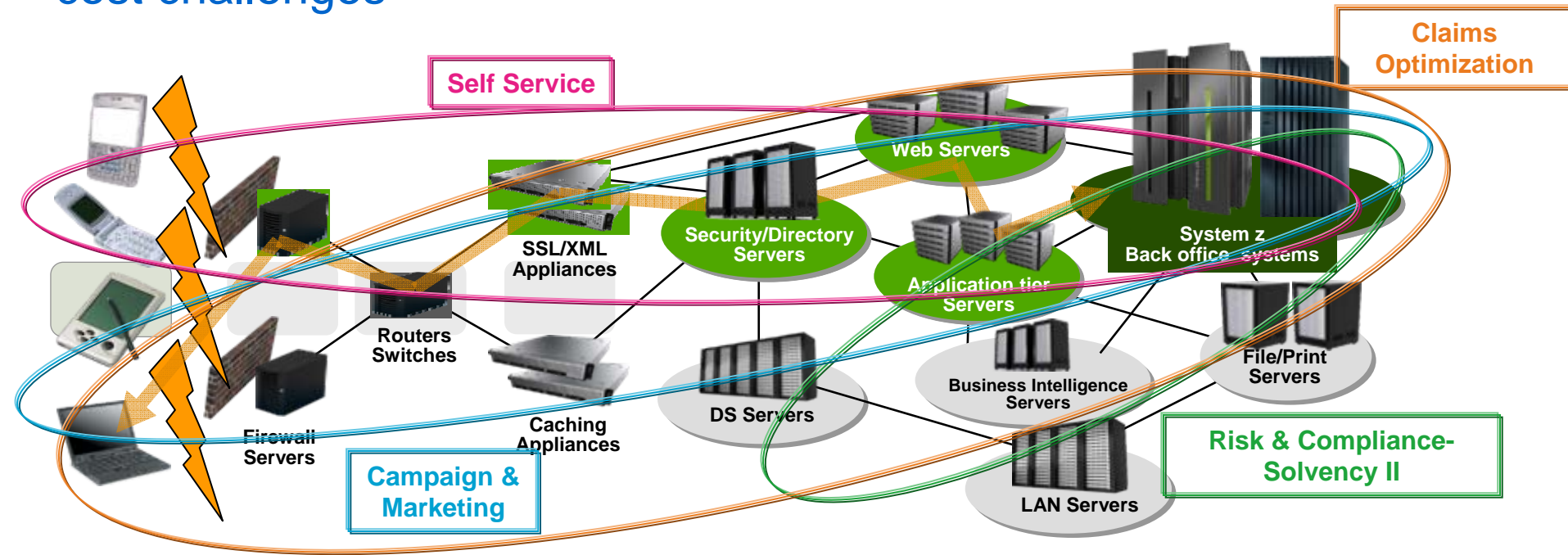
IBM zEnterprise EC12 (zEC12) Next generation of hybrid computing



Long Tail – Process placement and Hybrid Deployments



Insurance Business Processes require a mix of platform technologies which provide multiple business, technical and cost challenges



- Business processes and the applications that support them are becoming more service oriented, modular in their construction, and integrated.
- The components of these services are implemented on a variety of architectures and hosted on heterogeneous IT infrastructures.
- Approaches to managing these infrastructures along the lines of platform architecture boundaries cannot optimize the alignment of IT with business objectives, responsiveness to change, resource utilization; business resiliency, or overall cost of ownership.

Customers need better approach: The ability to manage and leverage the IT infrastructure and Business Applications as an integrated whole.



IBM BPM and ODM for System Z Hybrid Deployment Options

BPM Enterprise Solution

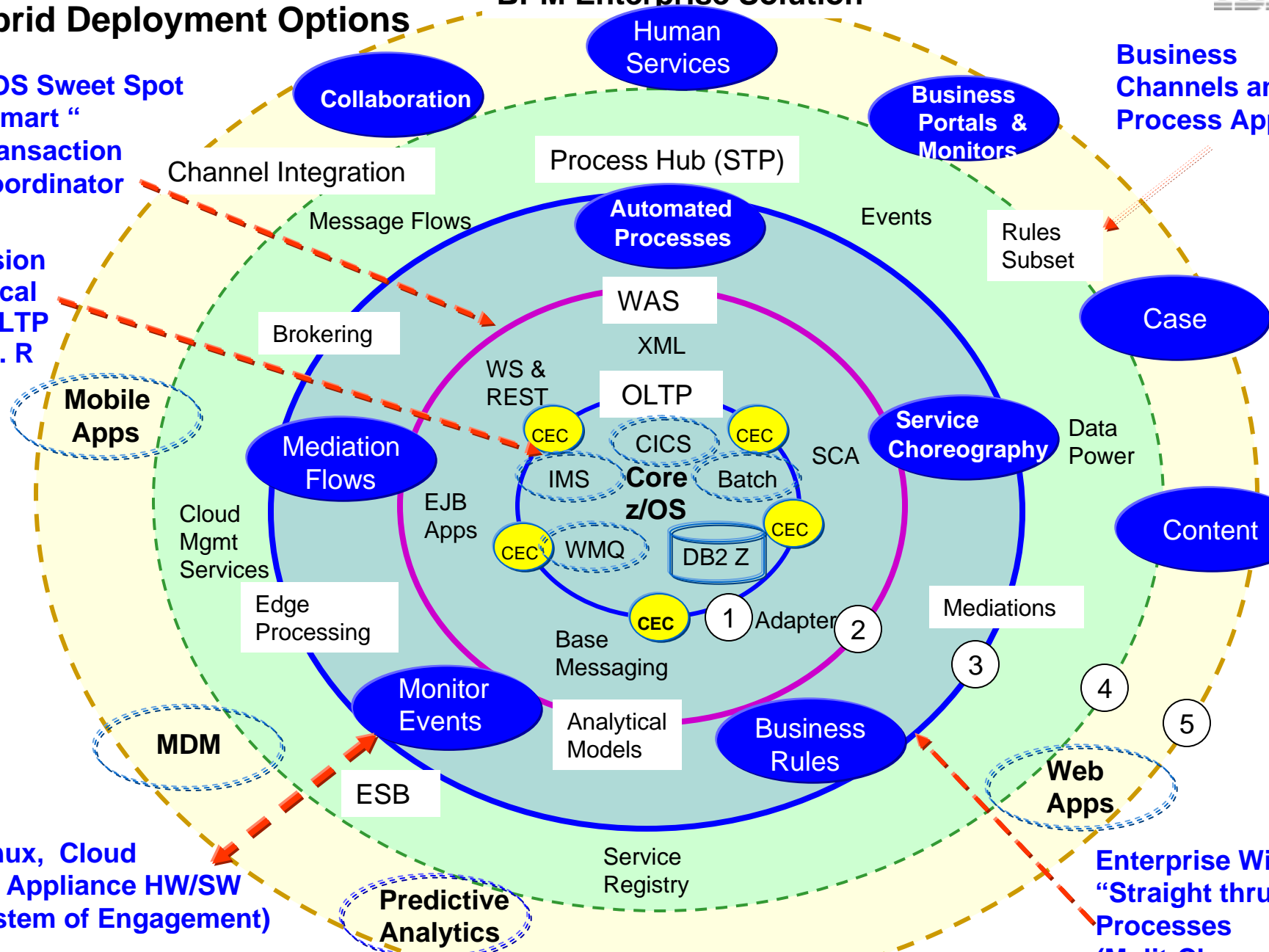
z/OS Sweet Spot
"Smart"
Transaction Coordinator

Mission Critical Z OLTP S. O. R

Business Channels and Process Apps

zLinux, Cloud and Appliance HW/SW (System of Engagement)

Enterprise Wide "Straight thru" Processes (Multi-Channel)



Cost effectively simplify the Integration and Optimization of Insurance Line of Business application modernization to meet growth objectives

Solution summary

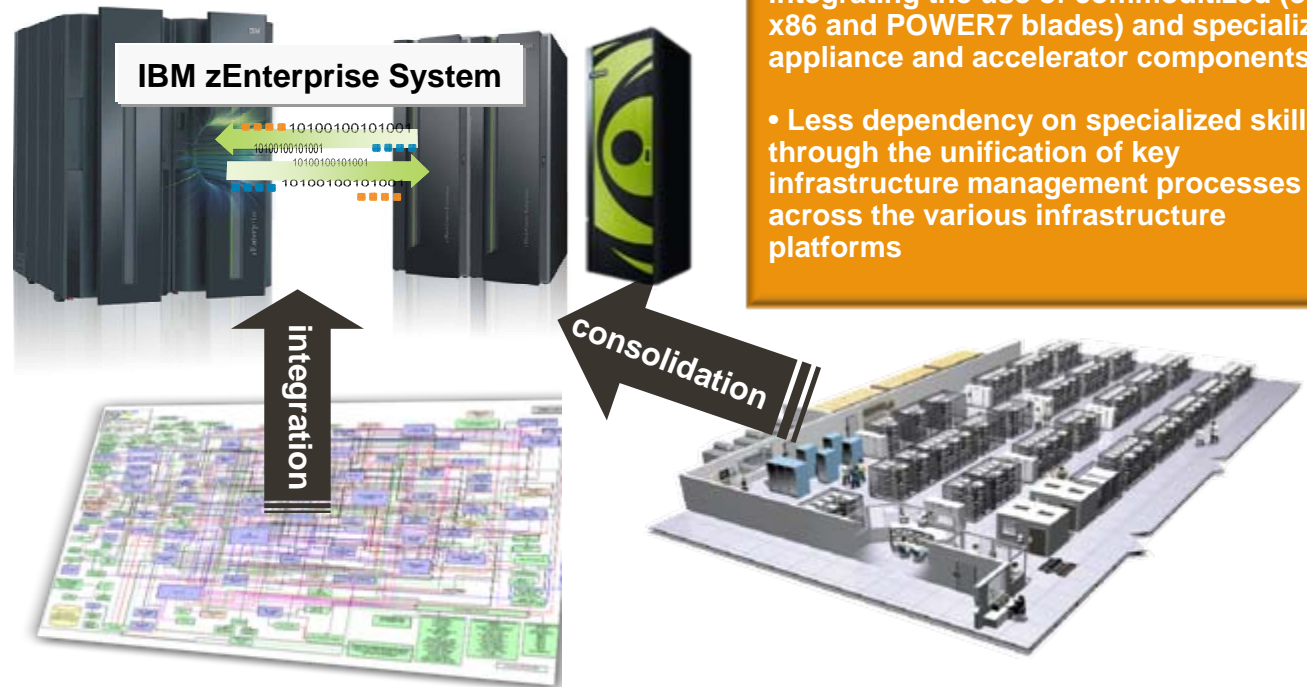
The **zEnterprise Insurance Integration Hub Solution** offers architectural guidance on how to leverage the zEnterprise System to integrate Core Insurance, Customer Care and Insight, Distribution and Integrated Risk Management hybrid application workloads to optimize business application process integration while consolidating infrastructure and management for lower costs

Solution Benefits

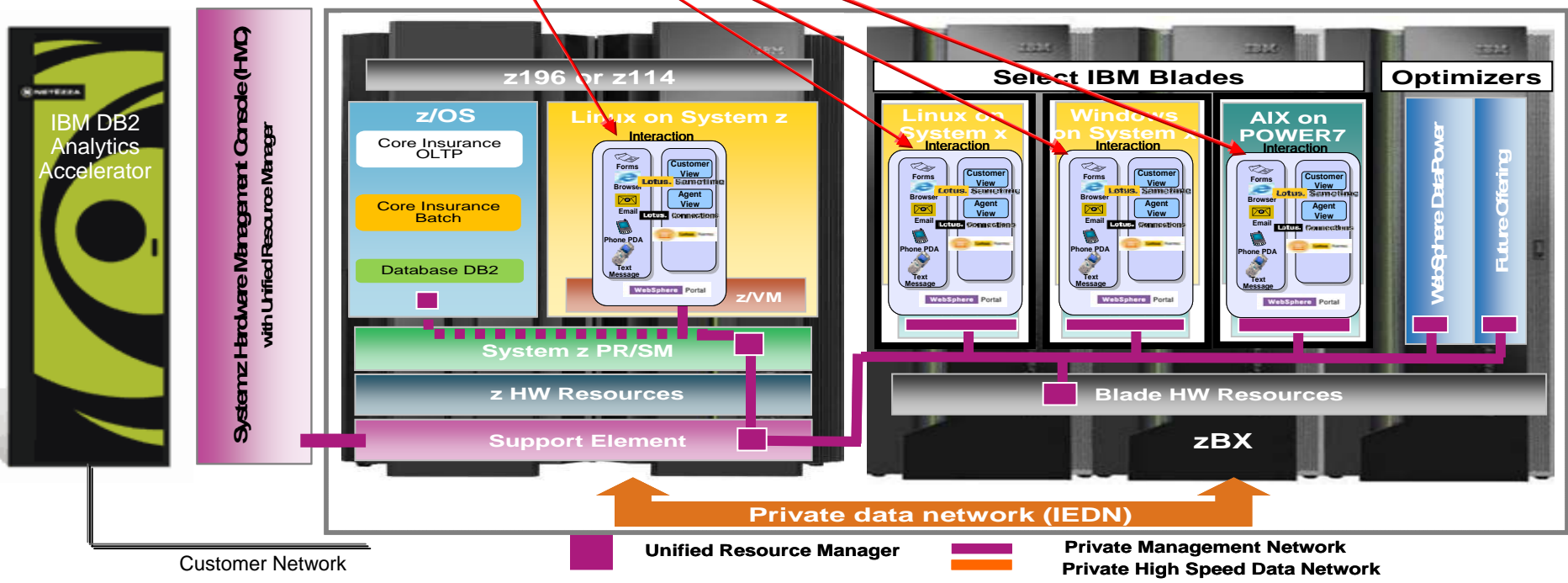
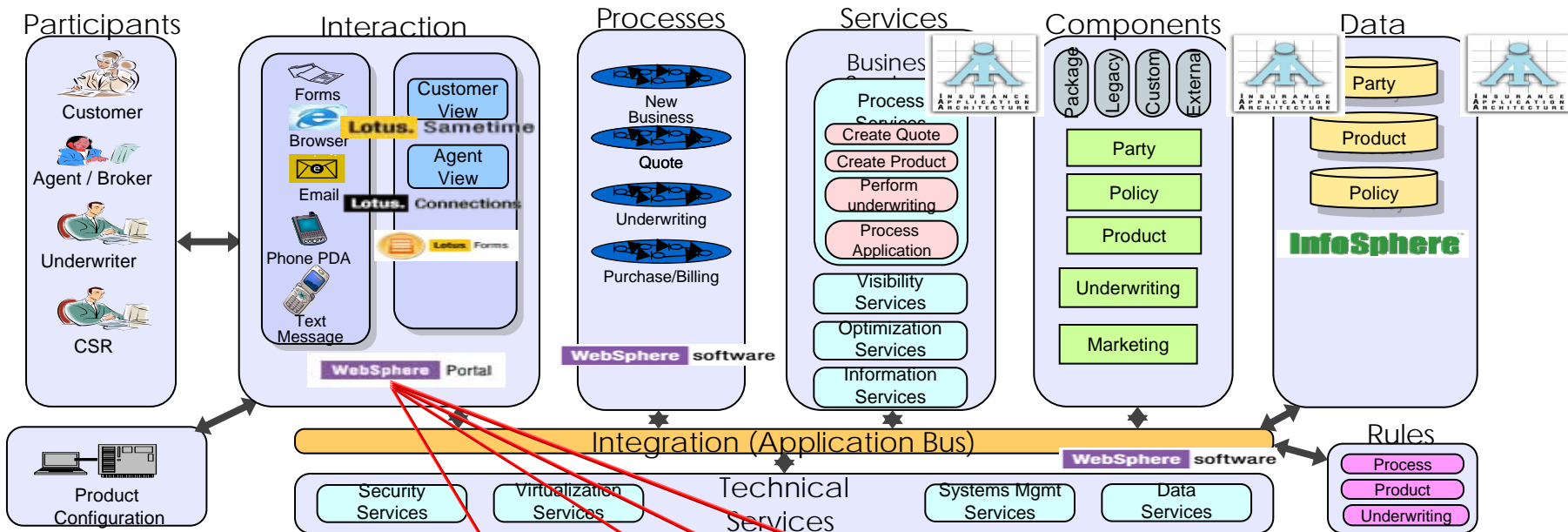
- Enterprise class capabilities that extend across LOB application processes and workload types under an integrated environment with lower risk
- Lower service delivery costs and improve service levels through the provisioning of powerful resource management rationalization features
- Lower workload and platform costs by integrating the use of commoditized (e.g. x86 and POWER7 blades) and specialized appliance and accelerator components
- Less dependency on specialized skills through the unification of key infrastructure management processes across the various infrastructure platforms

Business Outcomes

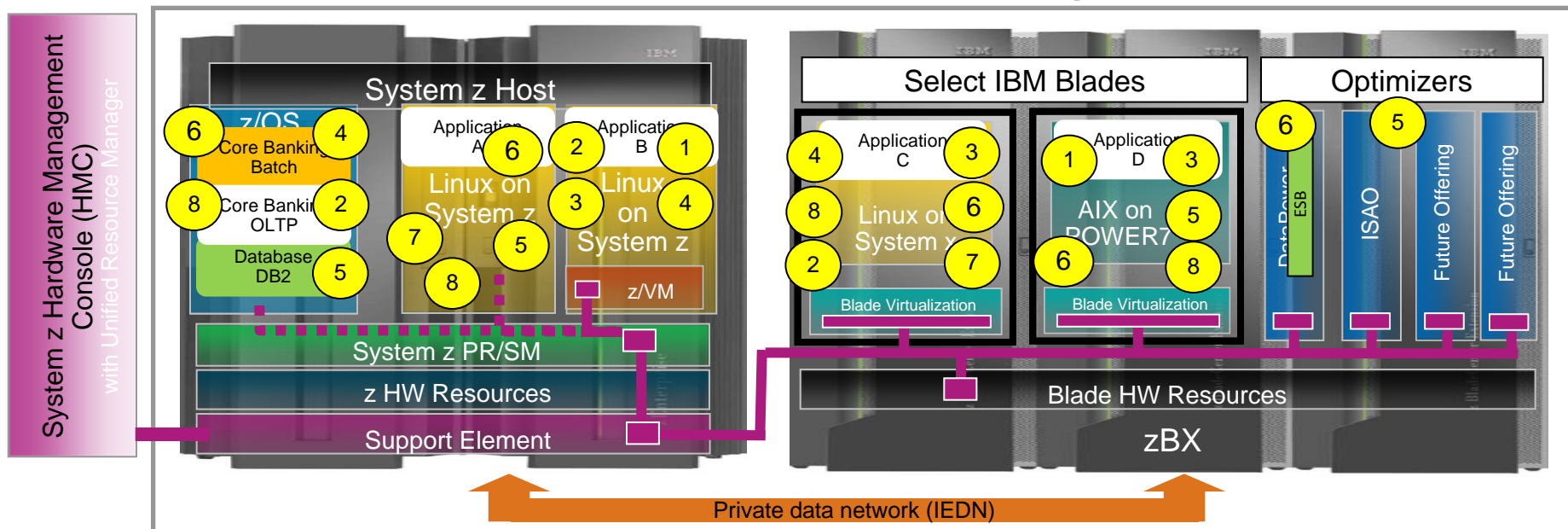
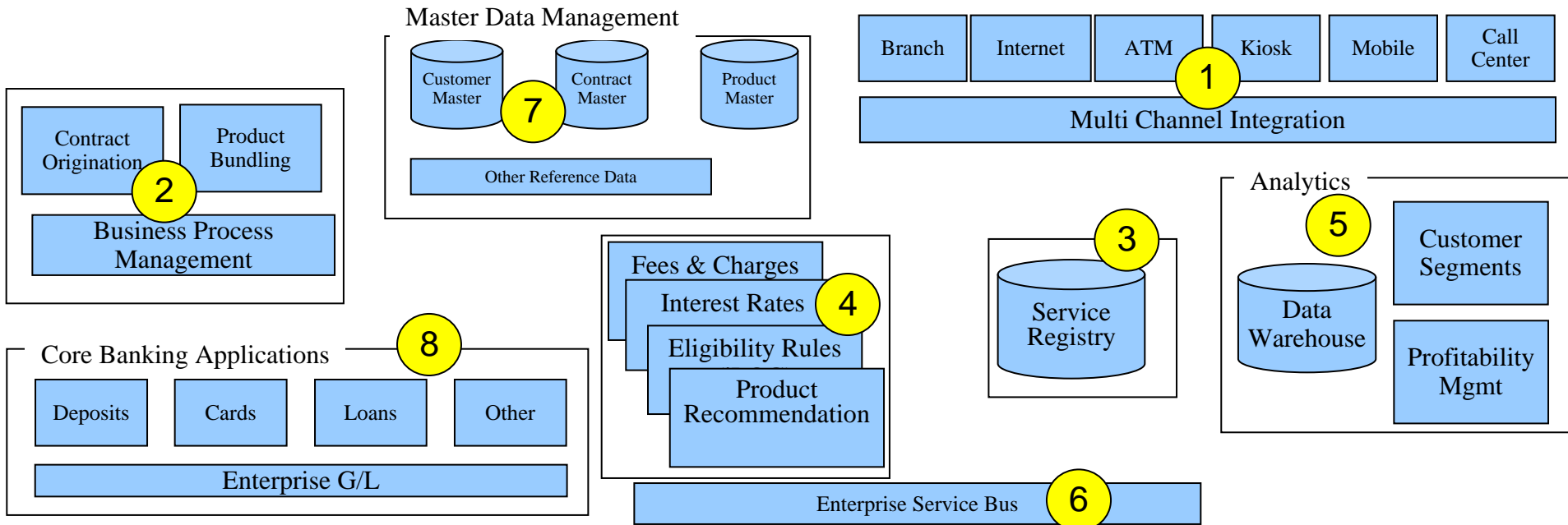
Combining faster, more powerful IT infrastructure with an innovative approach that efficiently and dynamically exploits IT resources to cost effectively better manage integration across heterogeneous insurance workloads from a single point of control.



Self service solution summary example



Core Banking Workload Deployment Options on zEnterprise



Unified Resource Manager

Private Management Network
Private High Speed Data Network

BPM is the System of Engagement for Enterprise Processes

An Integrated Platform to Manage Change & Business Operations

IBM Business Process Manager

Process Design
Optimization

Collaboration
Integration

App Development
Orchestration

Governance
Exception Handling

Task Management
Visibility & Analytics

Systems of Record



**CICS/IMS
DB2 z/OS**

**Enterprise
Content Mgmt**

**Master
Data Mgmt**

**Business
Rule Mgmt**

**Business
Analytics**

**Vendor and
Other Systems
of Record**

Adoption is Becoming Mainstream



- **Reduces** processing time for stand claims by **20-30 minutes each**
- Generates an average **ROI of 300%** for each internal process improvement project
- Increases customer & provider satisfaction



- System **handles 30,000 rules** and **500 transaction types for 4,000 institutions**
- 3x faster time-to-market
- 25% cost reduction to maintain business logic



- Company-wide adoption by business users
- **> 200 simple processes** built by business users in production within 18 months
- **> 40,000 tasks** assigned to users per month within first 6 months
- **> 80,000 process instances** created in first half of 2010, surpassing total for 2009
- Average 3000 users per day



- System **handles over 120 million** passenger cross-border movements per annum.
- Enables the agency to identify threats sooner so they can focus attention on high-risk situations
- A near-real-time risk assessment provides enhanced security and speeds up processing

Works Together. Works the Same.



The image displays three overlapping screenshots of IBM software interfaces:

- Top Left: My Tasks**
 - Header: IBM WORK DASHBOARDS Elizabeth Jensen
 - Section: My Tasks Custom Views
 - Section: My Tasks
 - Buttons: Launch Following
 - Section: Overdue (3)
 - Initiate Credit Check (Credit Check Application - 239417)
 - Initiate Credit Check (Credit Check Application - 239420)
 - Approve Home Loan (Home Loan Application - 4281726)
 - Section: At Risk (2)
 - Answer Help Request from John Henson (Credit Check Application - 239420)
 - Complete Loan Rejection Form (Loan Process - 3847264918)
 - Section: Due Today (9)
 - Section: Due This Week (4)
 - Initiate Credit Check (Credit Check Application - 239434)
 - Initiate Credit Check (Credit Check Application - 239435)
- Top Right: BlueworksLive**
 - Header: Amanda Pekowski - Help Logout
 - Section: 12.0 Process Expert Network
 - Buttons: Blueprint a Process Automate a Process Import
 - Section: Processes (11)
 - Table with columns: Name, Date, Tag
 - Items: CoToBeV2, Coordination_v1, Coordination_v2, CoBeV2LB, et Metrics RecordingV2, et Metrics RecordingV5, CoRetireCoToBeV1 LB, Billing Process
 - Footer: Caby Shan Mike Moynis Anne Crider (1) more
- Bottom Center: IBM DecisionCenter**
 - Header: Jessica Zimmerman
 - Section: mini-loan rules > Q2release
 - Section: Details
 - Created by Davis Neable (August 19, 2011)
 - Description: This is a description for this branch to help the user make sure they have the right one open.
 - Section: Changes
 - Today
 - Taxes was created (5:20 pm Snapshot) - David Van
 - Surcharge was deleted (5:10 pm Snapshot) - Amanda Pekowski
 - Rates was created (5:10 pm Snapshot) - Amanda Pekowski
 - Q2 Snapshot (4:50 pm Restore) - Davis Neable
 - Yesterday
 - Sedan was updated (May 10, 2011 Snapshot) - David Van
 - Section: Current Content
 - Filter
 - Surcharges - NY (2)
 - New Jersey Sedan Surcharge
 - Global Sedan Surcharge
 - Rates - Lease (2)
 - Base
 - Age
 - No Tags (3324)
 - New York Sedan Surcharge
 - Local Sedan Surcharge
 - Tax Rate
 - Local Sedan Surcharge
 - Local SUV Surcharge
 - Local Truck Surcharge
 - Local Sports Car Surcharge
 - Local SUV Surcharge

Next Steps



See BPM in Action

Ask your sales representative to see the solution live

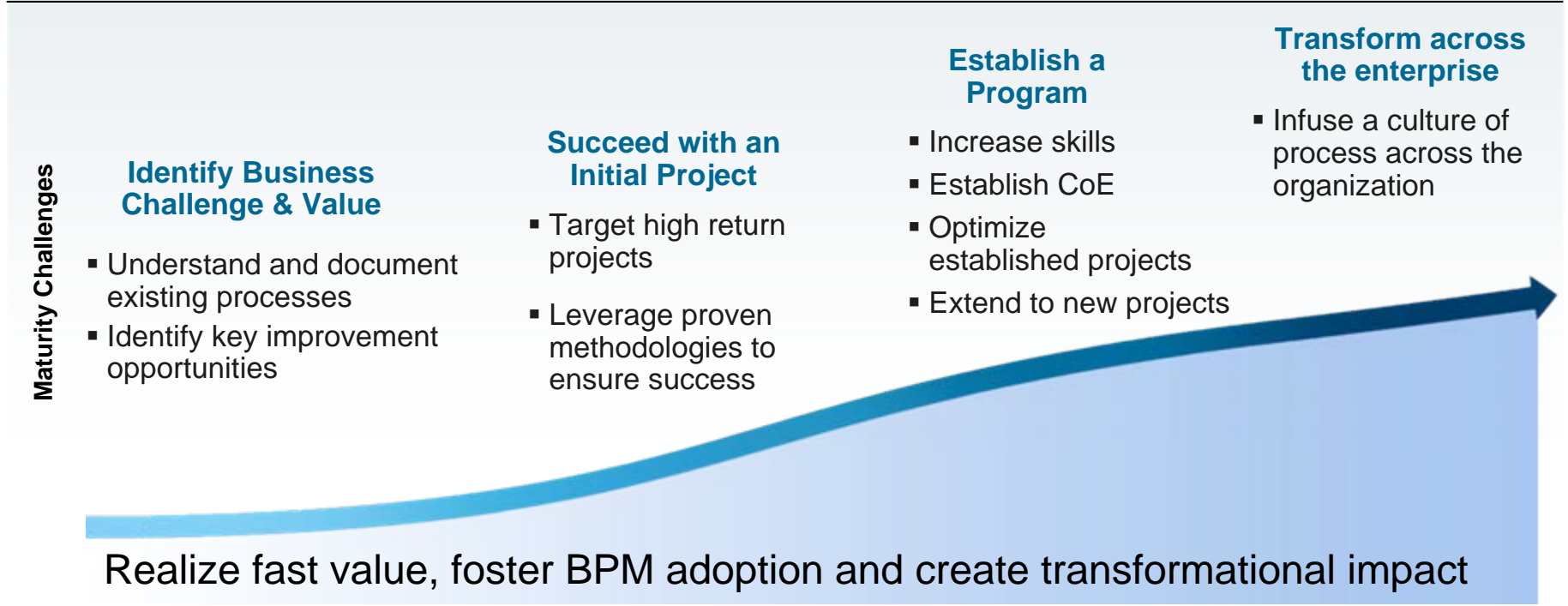
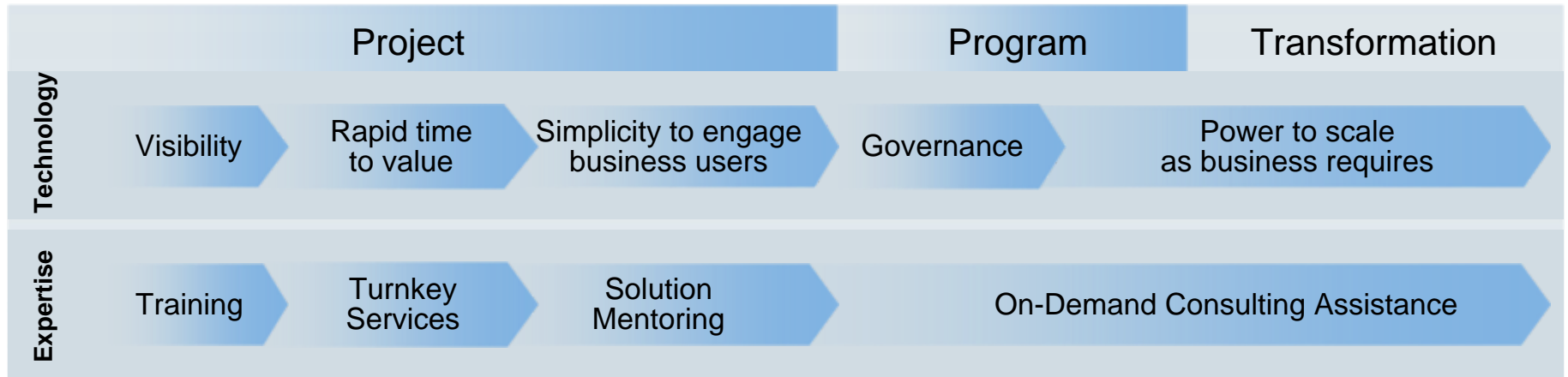
Learn what's possible with a Discovery Workshop

On-site workshop with business and IT stakeholders to evaluate the applicability of BPM for your project

Implement a real project in 10 weeks with a Quick Win Pilot

Demonstrate immediate value to your LOB end-users with your first 'Quick Win' in 10 weeks

Ensure success with a proven approach for adopting BPM



Where can I find out more?

- [Business Process Management](#)
- **White papers & tech docs**
 - [Optimizing process management with IBM System z](#)
 - [WebSphere z/OS – The Value of Co-Location](#)
 - [Brief introduction to WebSphere Optimized Local Adapters](#)
 - [WebSphere for System z Prescriptive Use Cases \(Oct. 28, 2011 Addendum\)](#)
- **Redbooks**
 - [Batch Modernization on z/OS](#)
- **Demos**
 - [IBM BPM In Action demos](#)
- [System z pricing](#)

Thank You



