

Enabling Agile Business Processes on zEnterprise

IBM BPM for z/OS

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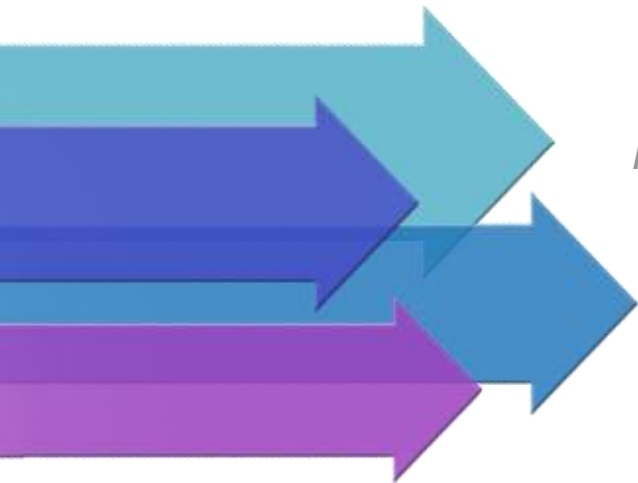
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Agenda

1**Business processes and System z****2****A deeper look inside Business Process Management for z/OS****3****Customer viewpoint**

Business Process Management in 2011: Where Are We?



LOB and IT efforts are separate

How can we expand the scope of projects?

Improvements come one project at a time

How can we scale up from a project to a program?

Lacking leverage between projects

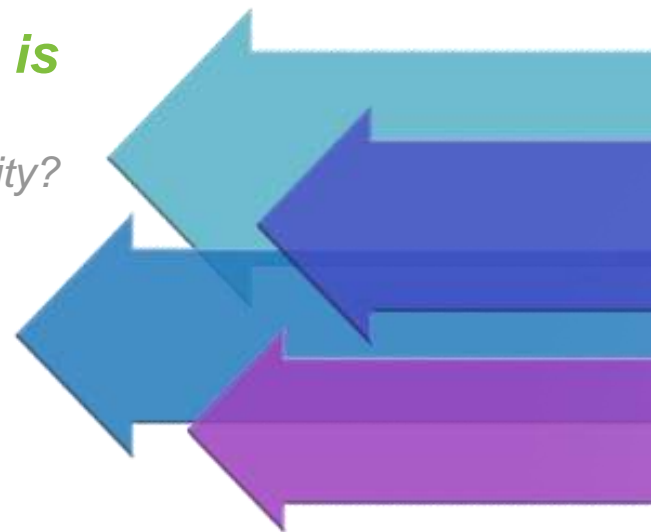
How can we maximize reuse?

Process Optimization is difficult

How can we get better visibility?

Rapid change is difficult to manage

How can we govern changes?



IBM Business Process Management in 2011: *Unifying two market-leading platforms*





Extend your core business processes powered by the strength of IBM zEnterprise

- **Apply** mainframe advantages when optimizing processes
- **Simplify** operations by centralizing and visualizing process assets
- **Unify** process deployment and shared process services

Apply

- Resiliency through **workload management** & self-optimizing middleware platform
- **Co-location** with key applications & processes
- **Core runtime** environment provided by WAS
- **Core systems security** encompassing CICS, IMS, DB2, & MQ



Simplify

- Process complexity through **high-performance** process automation, dynamic response & significant utilization rates
- **Control by streamlining** business applications for efficiency
- Operations through a single viewpoint that **centralizes process assets**

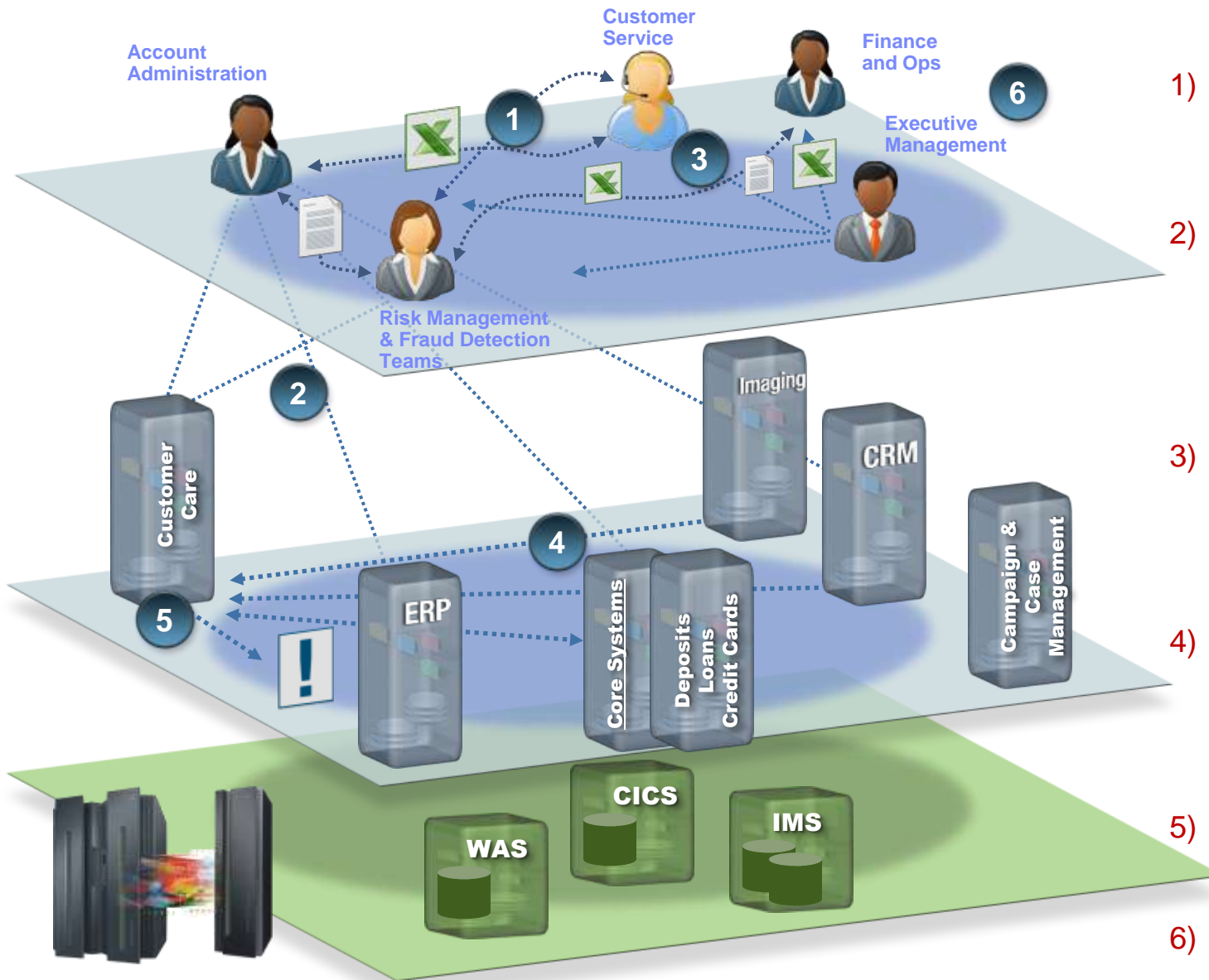


Unify

- **Shared and reusable** enterprise process services
- **Memory through WOLA**, providing high-speed cross-memory communications
- **IT/LOB alignment**, collaboration, governance and lifecycle management
- **Process deployment** across distributed and zEnterprise platforms



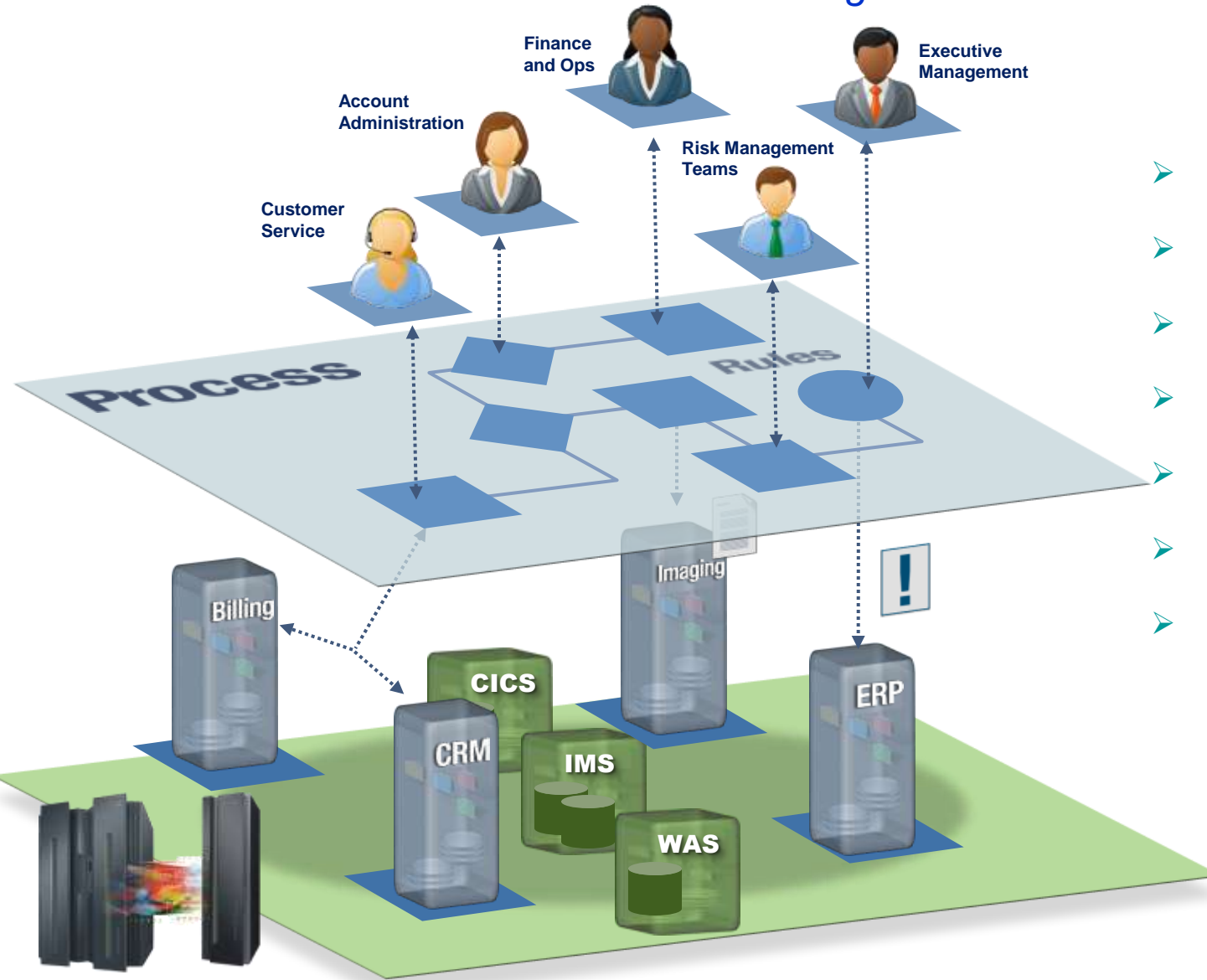
Typical Process Problems in a System z Environment



- 1) Customer initiates *Account Opening* at a Branch
- 2) Account Opening Service retrieves customer and product data from the repositories
- 3) Assess financial risk associated with the customer for this account
- 4) Customer Care process is triggered so that the bank staff can make the right decisions
- 5) Account is created in the Product Processor
- 6) Account information is returned to the customer

BPM on System z Brings Order to the Chaos

Extract maximum business value from existing assets



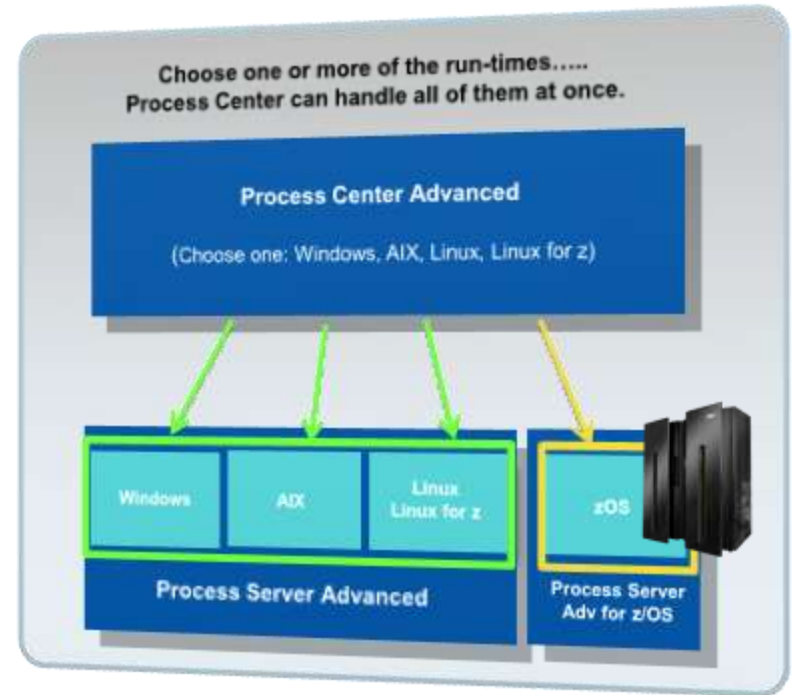
Results

- Ease of z/OS assets reuse
- Huge reduction in manual work and errors
- Optimization of z/OS resources
- Faster, more consistent issue resolution
- Enhanced usage of process execution
- Easier to manage the business
- Process integrity and stability

Enabling Agile Business Processes on System Z

IBM Business Process Manager V7.5 for z/OS

- **Unified BPM platform** combines the **simplicity** of Lombardi Edition experience and the **power & scalability** of WebSphere Process Server – all integrated in a zEnterprise environment.
- **Leverages co-location** with IBM System Z programs for superior performance, scalability, and access to data
- **High volume process automation** with greater availability and qualities of service



IBM Business Process Manager V7.5 for z/OS highlights

- Built-in SOA components for extensive enterprise-wide service integration and orchestration
- Full compatibility with the latest version of IBM WebSphere Process Server for z/OS
- Flexible deployment of process applications originally created with IBM WebSphere Lombardi Edition for Linux on System Z or other platforms
- In-process rules authoring based-on WebSphere ILOG JRules technology
- Streamlined installation and configuration of BPM within IBM WebSphere Application Server on z/OS



Agenda

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Business processes and System z

2

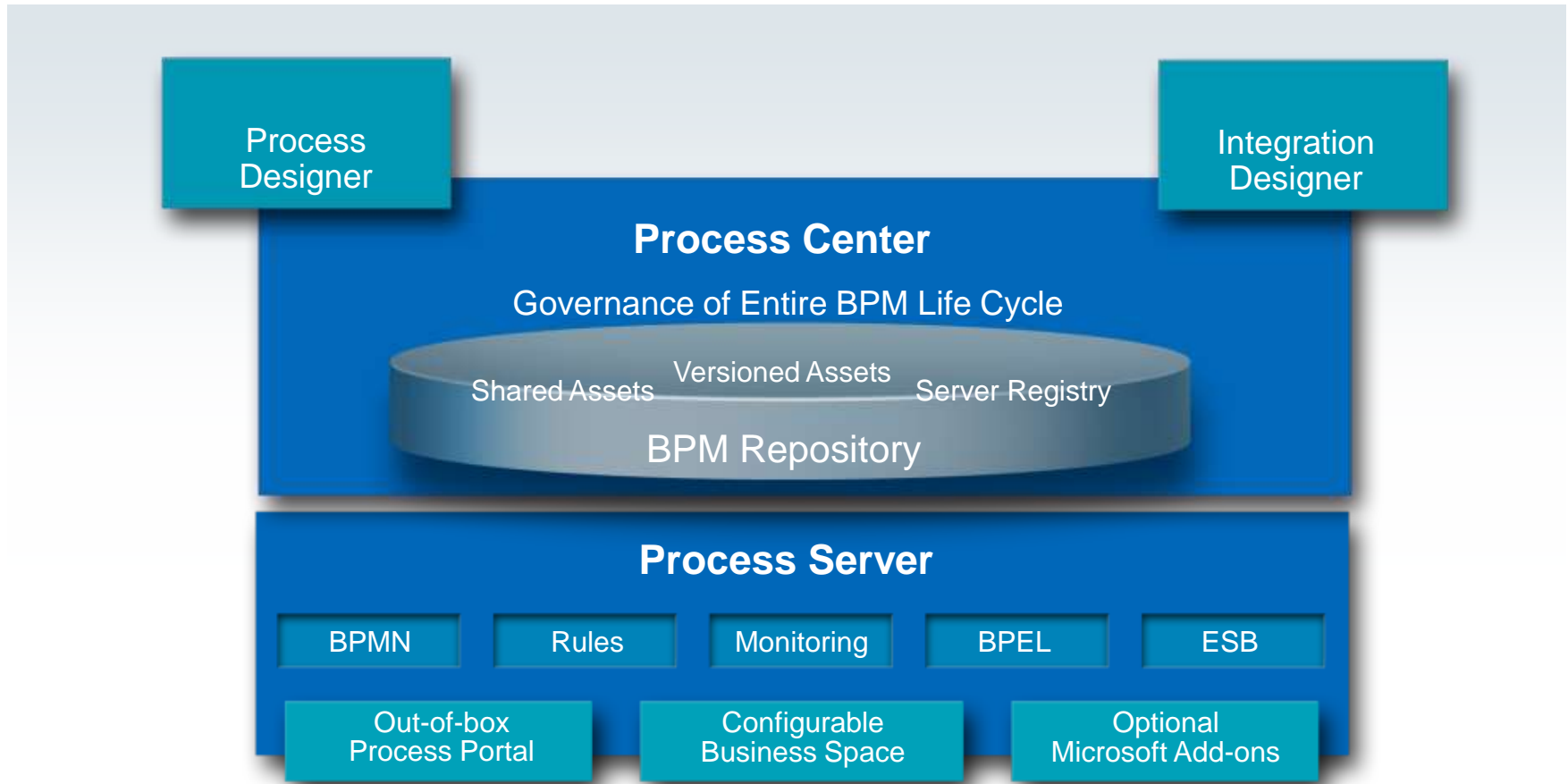
A deeper look inside Business Process Management for z/OS

3

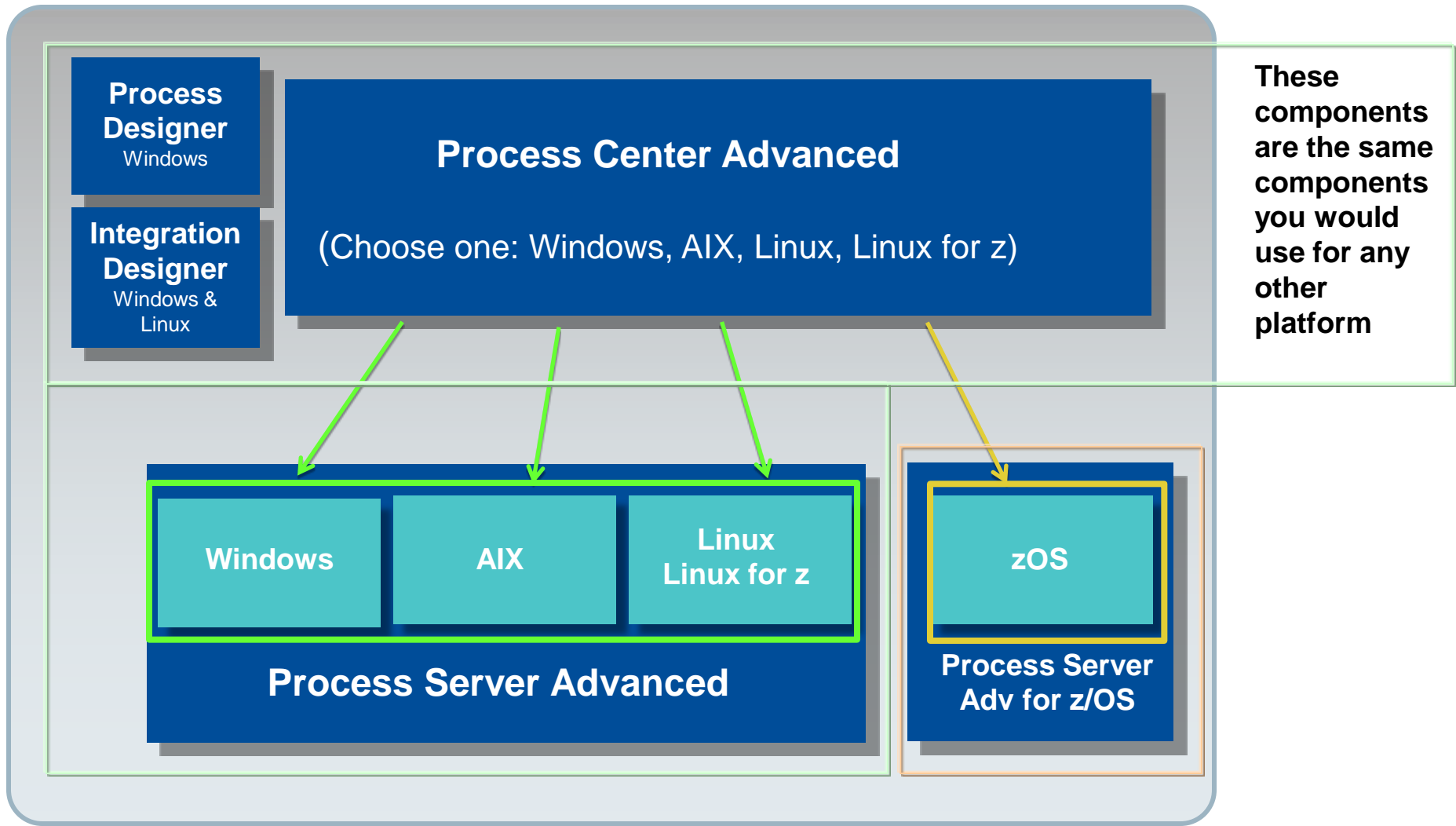
Customer viewpoint



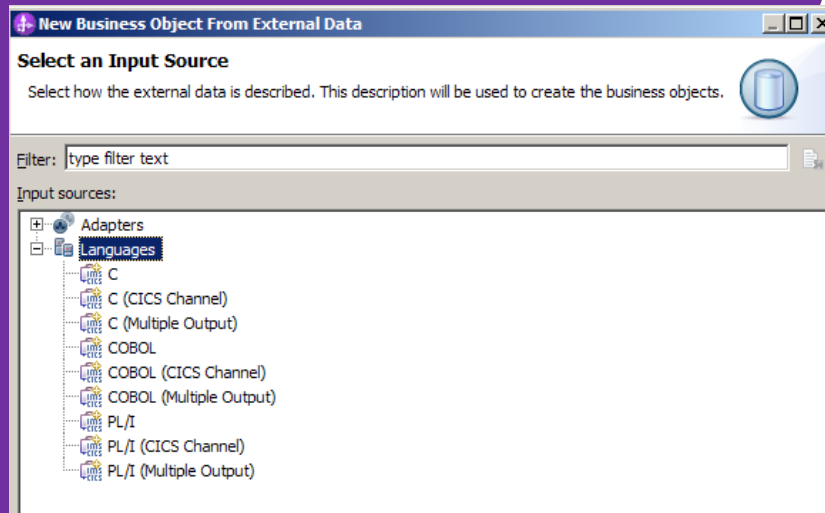
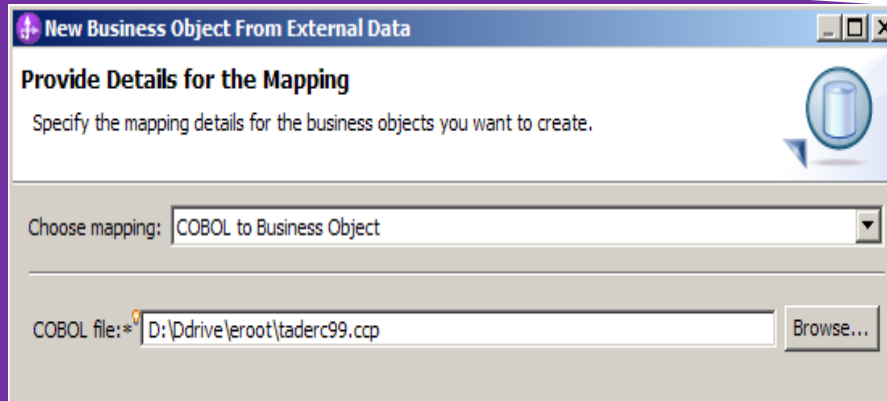
Integrating simplicity and scalability in the zEnterprise



IBM BPM V7.5 for z/OS is optimized for zEnterprise



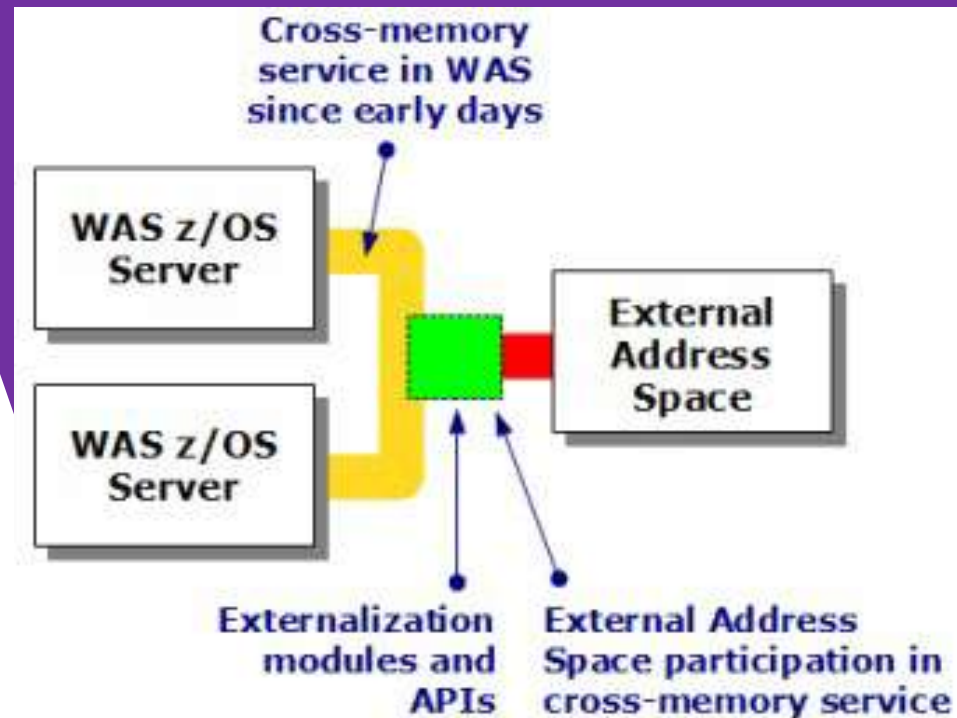
IBM BPM V7.5 for z/OS leverages native z/OS data structures



- Reference data from COBOL copybook
- Support for language such as C, COBOL, PL/1, Channel Records, multiple output
- SOA service abstractions create reusable services for processes and other clients

IBM BPM V7.5 facilitates fast communication with z apps

- 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



IBM BPM V7.5 for z/OS is easy to install and run

- Guided Configuration-- Spreadsheet based tool to simplify configuration

1 IBM WebSphere and BPM for z/OS V7.5	
2 Configuration Variables	
3	
4 Target z/OS variables for WebSphere and BPM	
5	Enter the number of systems for configuration: 2
6	
7	Sysplex name: WBDPLEX
8	System name (1): WBD1
9	System name (2): WBD2
10	DMGR system name: WBD3
11	One letter node (LPAR) qualifier for system (1): a
12	One letter node (LPAR) qualifier for system (2): ← Missing required data
13	
14	One letter node (LPAR) qualifier for Job Manager: a
15	
16	Two character cell abbreviation: w8
17	
18	Save customization dataset HLQ for system (1): BOSS.W8
19	Enter Save Customization Dataset HLQ for System (2): BOSS.W8
20	
21	PROCLIB dataset name for system (1): boss.wbisf.proclib
22	PROCLIB Dataset Name for System (2): boss.wbisf.proclib
23	Shared PROCs (Y N): Y
24	

Sysplex refers to a tightly-coupled cluster of independent instances of the z/OS operating system.
Example: WBDPLEX

75 Installation paths by platform			
76	Platform	Web Server Install Directory Path	Web Server Plugin Path
77	linux	/opt/IBM/HTTP Server	/opt/IBM/Web Sphere/Plugins
78	windows	C:\Program Files\IBM\HTTP Server	C:\Program Files\IBM\Web Sphere\Plugins
79	aix	/usr/IBM/HTTP Server	/usr/IBM/Web Sphere/Plugins
80	hpux	/opt/IBM/HTTP Server	/opt/IBM/Web Sphere/Plugins
81	solaris	/opt/IBM/HTTP Server	/opt/IBM/Web Sphere/Plugins
82	os390	/usr/lpp/internet	/etc/webserver1/Plugins
83	os400	/QIBM/ProdData/Web Sphere/Plugins/V61/webserver	/QIBM/ProdData/Web Sphere/Plugins/V61/webserver
84			

Modernize and streamline business processes for efficiency

- **Monitor metrics, business situations, and events** in real-time
- **User customizable dashboards** to ensure targeted, relevant information
- **Interact directly with processes** in real-time
- **Predict future values** of KPIs based on historic and cyclic trends
- **Trigger alerts** when predicted values indicate a problem detection



IBM Business Monitor for z/OS

Agenda

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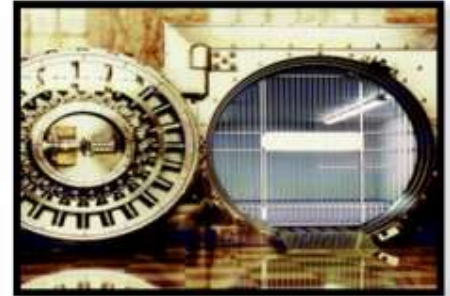
Business processes and System z

2

A deeper look inside Business Process Management for z/OS

3

Customer viewpoint



Customers use the BPM engine to transform complex and layered processes, deliver better service

Client Pains

- Inflexible systems inhibit responsiveness
 - Difficult to use existing business logic for new services
- Siloed resources prevent sharing
 - Lack of integration

Real Results

- zEnterprise allows multi-tier application integration
- Automatically prioritizes and routes work
- Monitors for critical business events and initiates actions
- Unmatched scalability and 85%-100% utilization

Bank turned to IBM to implement a new IT solution to automate and integrate data-driven processes

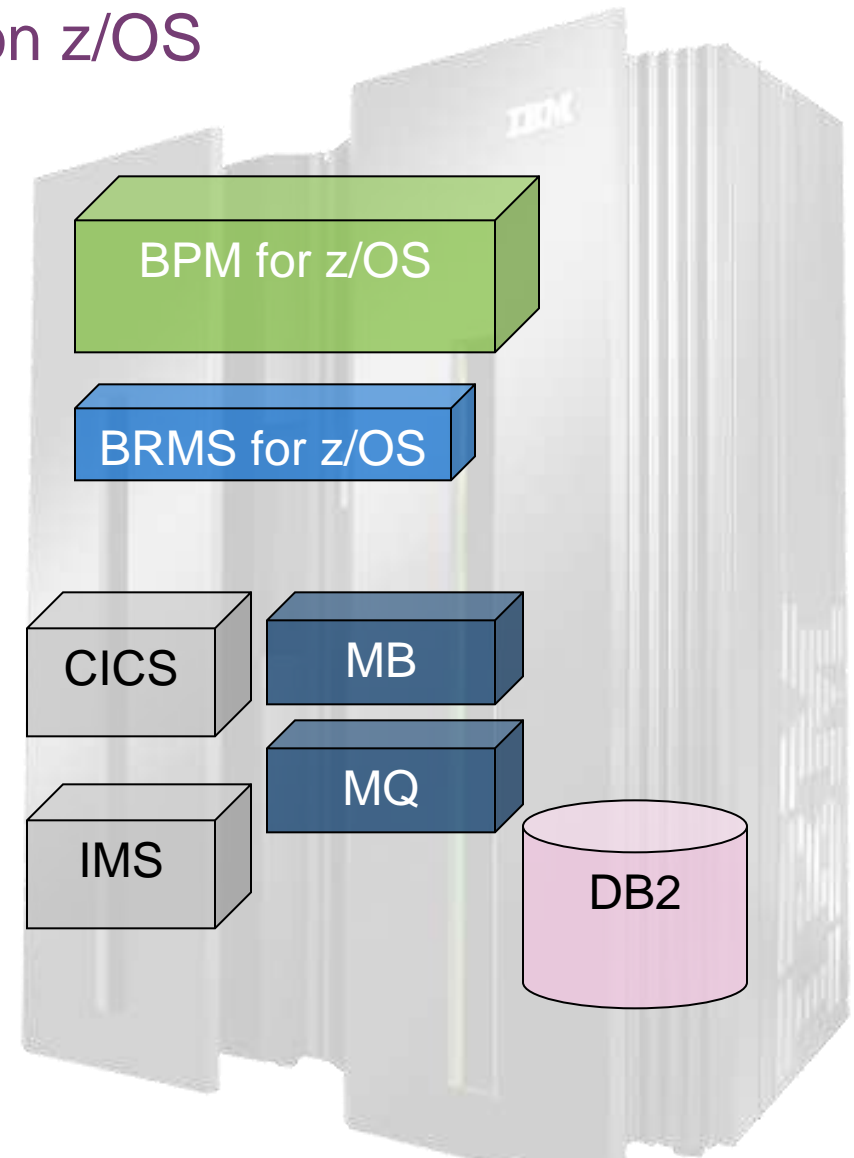


Processes that frequently interact with DB2 z/OS, CICS, IMS benefit most from colocation on z/OS

Process management enables automated and efficient service-oriented implementations

Running on System z delivers:

- Enterprise class operation
- Performance improvements
- Virtual network between assets on z
- Enhanced security
- Consistent backup and recovery
- Process integrity
- Continuous availability



System z is the undisputed platform leader in availability, security, utilization, manageability, and scalability

Enabling Agile Business Processes on System Z

IBM Business Process Manager V7.5 for z/OS



Apply



Simplify



Unify



- **Apply** co-location of processes that frequently interact with CICS, IMS, or DB2
- **Simplify** operations by centralizing process assets
- **Unify** process deployment and shared process services



What's Next?



IBM BPM for z/OS rounds out the process-related offerings for zEnterprise:

- IBM Business Rules for z/OS
- IBM Business Monitor for z/OS
- IBM ESB for z/OS
- IBM Message Broker for z/OS



Also, check out some recent IBM BPM for z/OS collateral:

- IBM BPM for z/OS White Paper
<http://public.dhe.ibm.com/common/ssi/ecm/en/zsw03193usen/ZSW03193USEN.PDF>
- IBM BPM for z/OS Newsletter
http://www-01.ibm.com/software/solutions/soa/newsletter/september2011/bpm_mainframe.html
- IBM BPM for z/OS Webcast
<http://www-01.ibm.com/software/os/systemz/webcast/may18/>
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