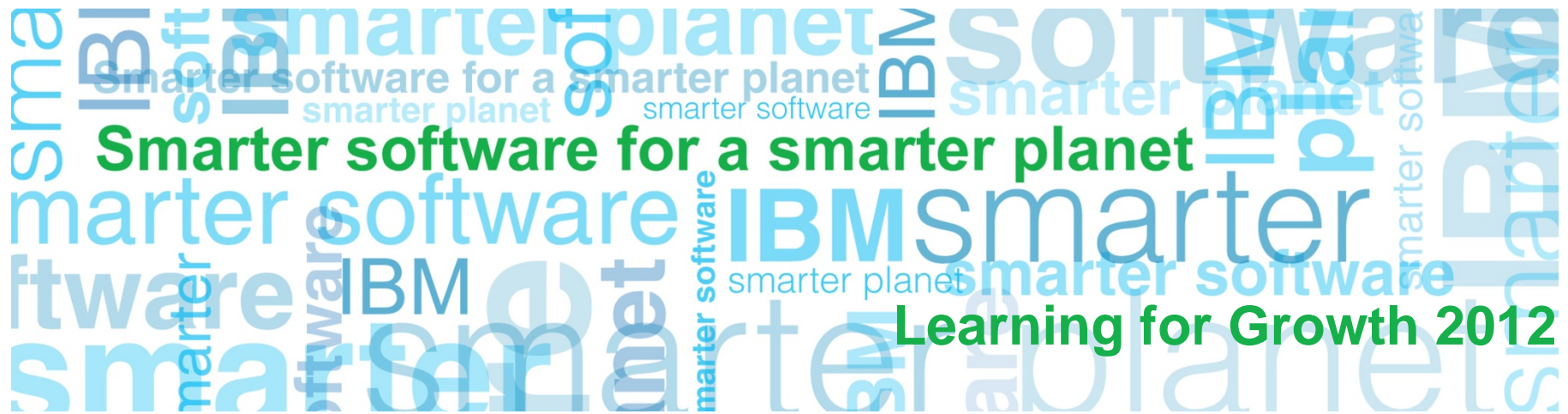


Selling the WebSphere Portfolio on System z

Presenter: Al Grega, WW Sales Executive – WebSphere on System z



Learning objectives:

After completing this Web lecture, you will :

- Have a better understanding of the System z platform
- Understand the benefits of running WebSphere workloads on System z
- Learn the advantages that WebSphere products have on System z



Agenda

Understanding the System z Platform

Why WebSphere on z/OS?

Where to start selling?

Resources

First and Foremost... The Mainframe is NOT Dead!

"I predict that the last mainframe will be unplugged on March 15, 1996."

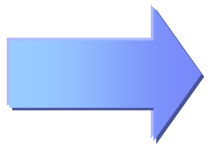
- Stewart Alsop, former InfoWorld columnist (now at Fortune Magazine), March, 1991



But there are other nasty myths out there....

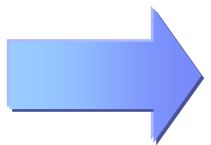
Why customers stay on their Mainframes?

Availability



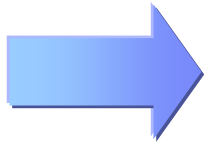
System z has 99.999% availability... unscheduled downtime for a large WW retailer, bank, etc. means Millions of dollars lost each minute

Security



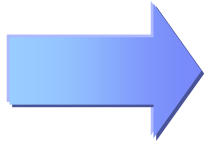
z/OS has NO* security vulnerabilities and is secure enough for the US Government (EAL5** rating)

System z is **Green!**



Today's System z requires: less floor space, fewer software licenses, fewer administrators and requires less electricity (operating and cooling)

IBM's Commitment to the Platform



IBM has continually updated the Mainframe since its introduction in 1964 including today's versatile System z Enterprise Systems

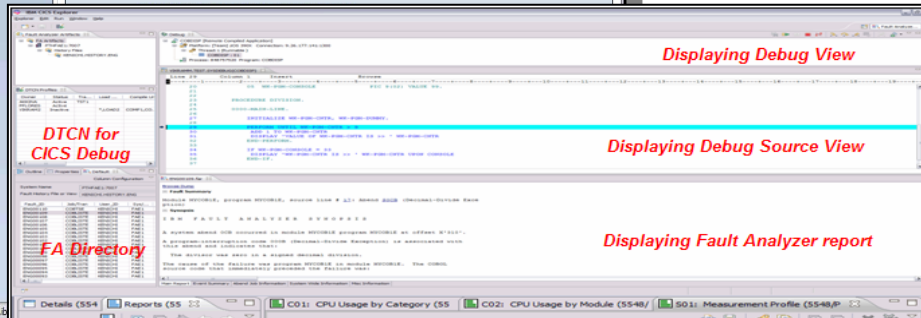
*Source: <http://www.securityfocus.com/>

**Common Criteria Evaluation Assurance Level 5 (EAL5) awarded by International Standards Organization

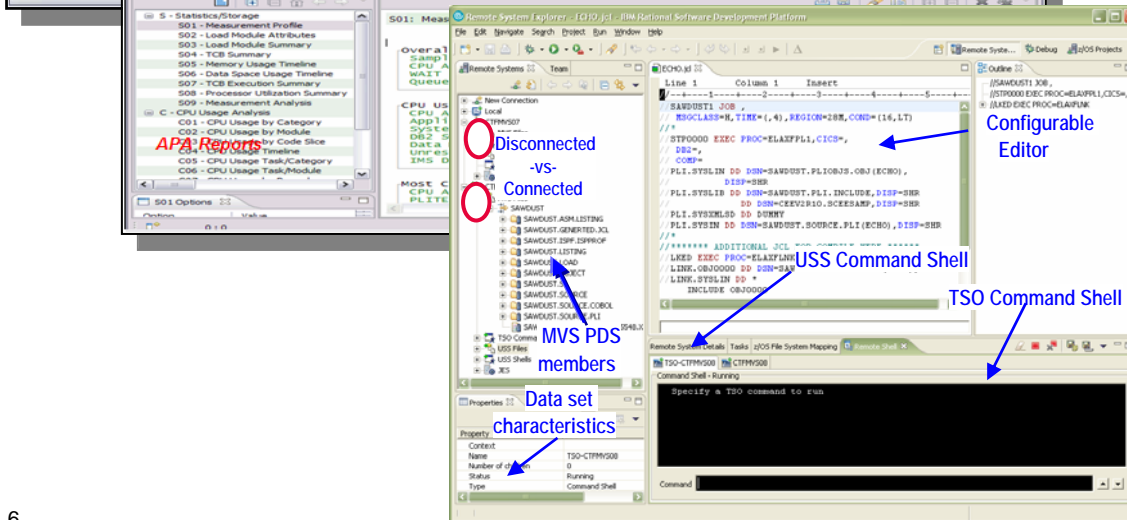
By the Way... Goodbye Green Screens!



- **IBM z/OS Management Facility**
 - Web-based Management console for z/OS
 - Zero priced feature of z/OS
 - Helps new System Programmers and Administrators manage z/OS more easily
 - **Attracts new talent!**



- **CICS Explorer**
 - Manage CICS Regions with Eclipse based Graphical User Interface
 - CICS/PD Tools plug-ins available for CICS Explorer (Plug-ins for RDz available too!)
 - CICS Agility and Modernization is **HOT!** Averages >\$2M/year for mainframe users
 - **Attracts new talent!**

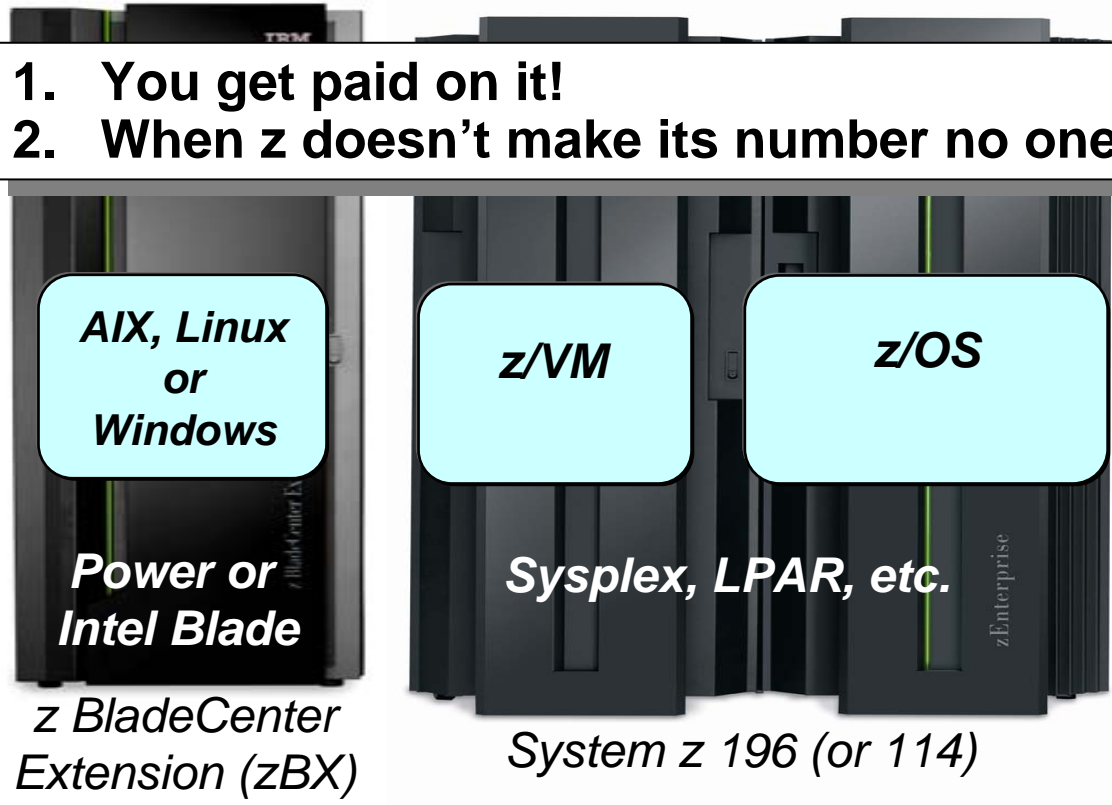


- **Rational Developer for z (RDz)**
 - Code and Debug COBOL, PL/1 and Basic Assembler Language with same tool as Java
 - Eclipse based development tool - same User Interface for all development teams
 - **Attracts new talent!**

Why care about selling the WebSphere Portfolio on System z

WebSphere Portfolio, WebSphere System z and BPM Sales reps get paid on ALL AIM software on System z except for MLC products (i.e. CICS)

1. You get paid on it!
2. When z doesn't make its number no one does!



- zBX**
- PVU Pricing
 - Based on the type and # of processors used

- zLinux**
- PVU Pricing
 - Based on the type and # of processors used

- z/OS**
- OTC – VU Pricing
 - Size of the system/CEC/LPARs
 - Other licensing options available for customers that are IPLA subcap eligible
 - Contact your zWebSphere Geo Leader for assistance

A quick word about MLC and why it's important to IBM, SWG and You

Revenue

- MLC revenue for CICS/IMS/DB2 Runtimes and Mainframe Compilers accounts for substantial income every year for IBM and SWG. From a senior executive : **'It keeps the lights on'**

Currency

- System z has 38.8% of the market share of 250K+ Server Market in the latest IDC Report
- System z MLC Software has the highest profitability of all software, funding tremendous amounts of research and product development.
- Current **MLC Software fuels OTC purchases** putting IBM in a unique position to provide OTC Tooling on 1st Day of Announce, giving us a significant competitive edge.



Agenda

Understanding the System z Platform

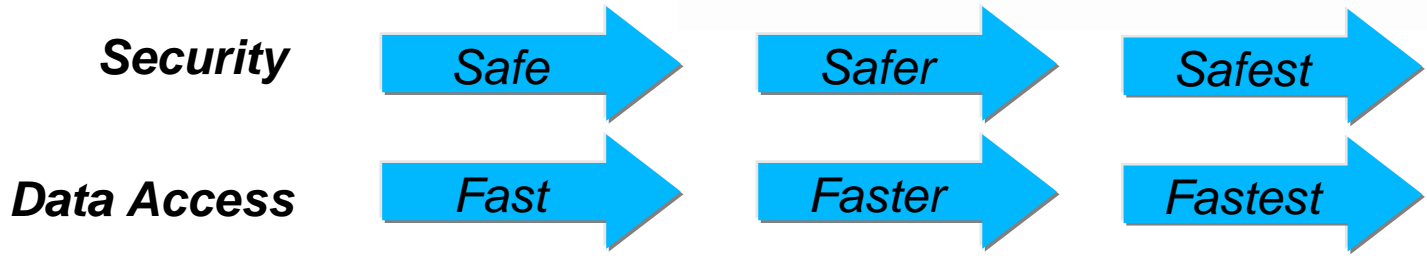
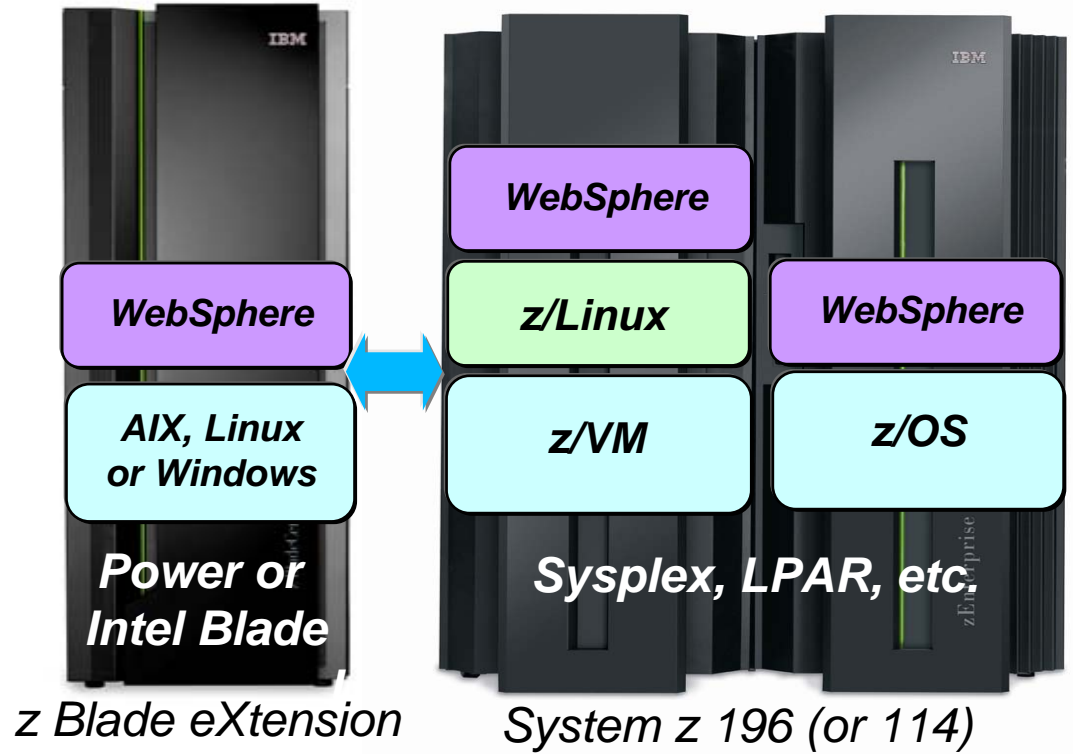
Why WebSphere on z/OS?

Where to start selling?

Resources

WebSphere products run in every System z environment!

System z is the Ultimate Server consolidation platform



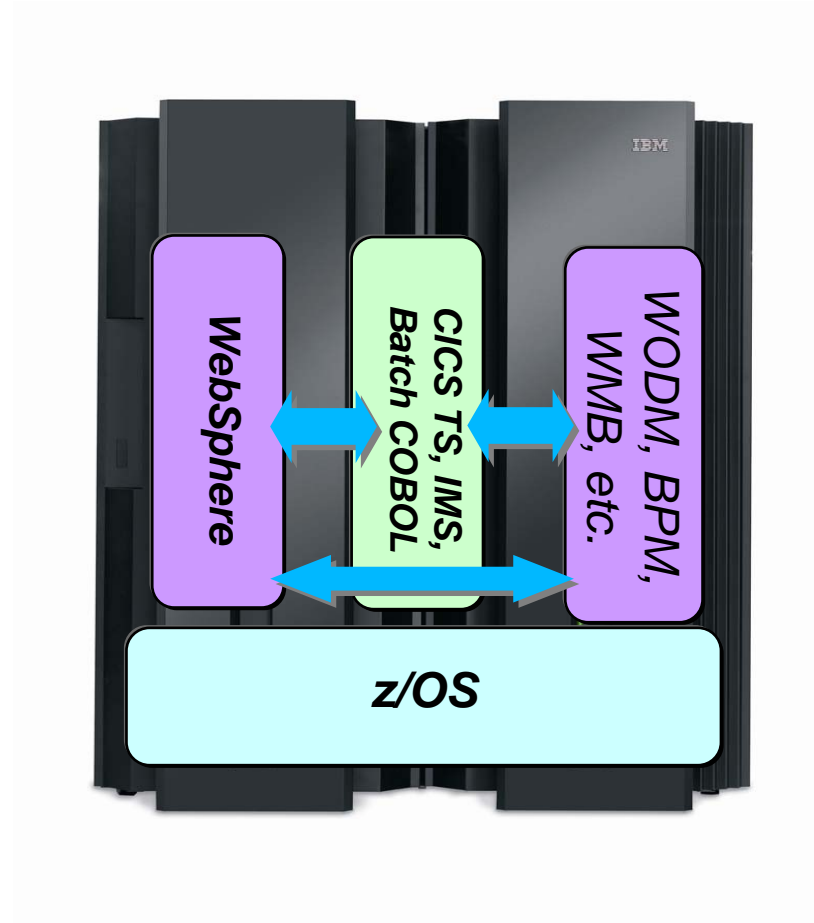
What's so special about WebSphere Solutions on z/OS? Co-location!

▪ Performance & Efficiency

- Fastest data access
 - WebSphere Optimized Local Adapters (WOLA)
 - Cross Memory Data Transfer vs. Web Services
- Reduced Latency
 - Not restricted by network speed
- Reduced CPU Utilization
 - CPU doesn't have to handle network traffic

▪ Operational Benefits

- Highest Security
 - No passing of security credentials across networks
- Single Thread of Execution
 - Reduces over head and increases scalability
- Easier Workload Management
 - Managed within an single Work Load Manager (WLM) classification

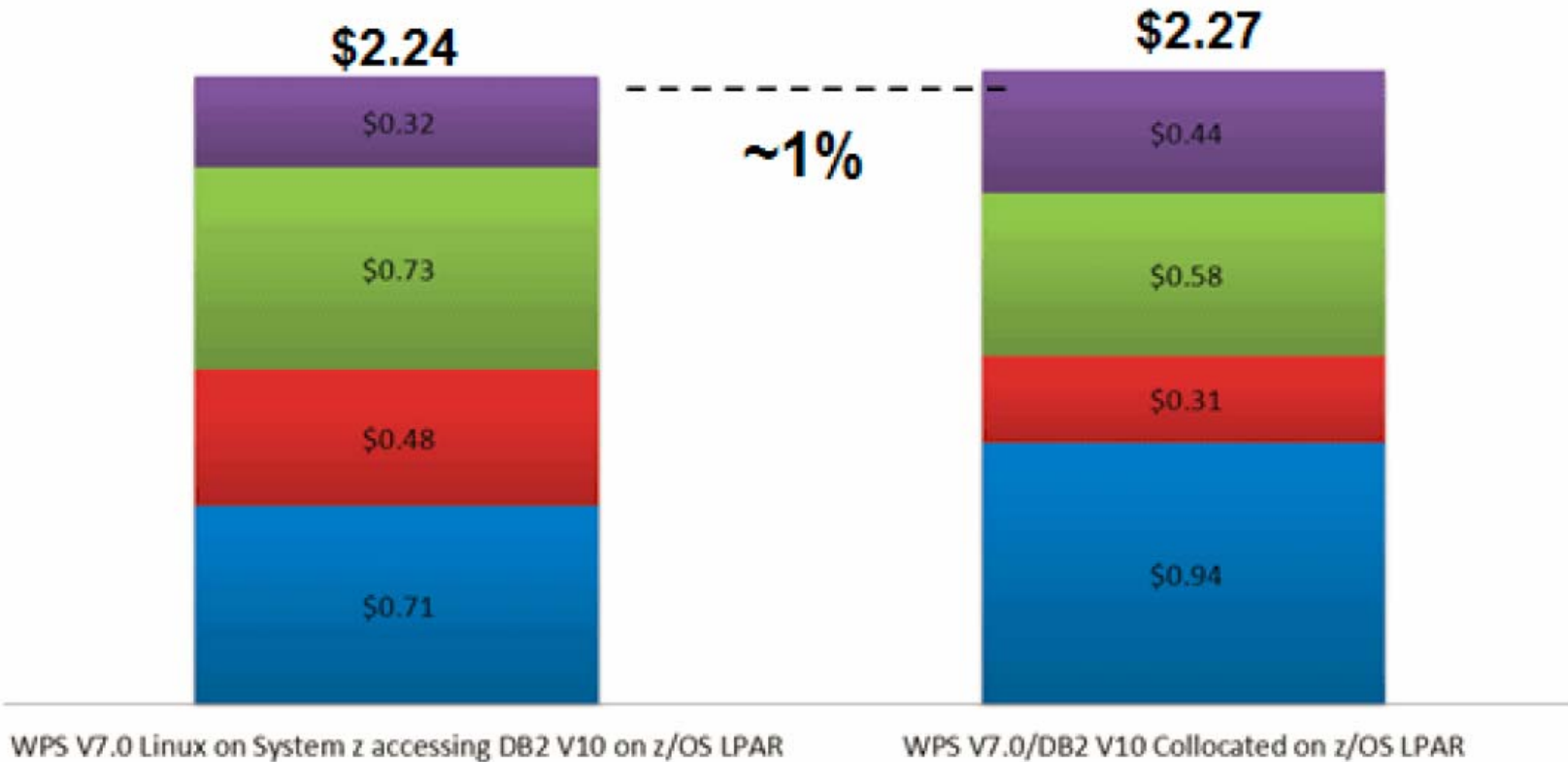


White Paper: ftp://public.dhe.ibm.com/itsolutions/SOA/ValueofCoLocation_WP101476.pdf

Continuous Price Performance Improvements of BPM on z/OS

Average Cost* of 10K Transactions

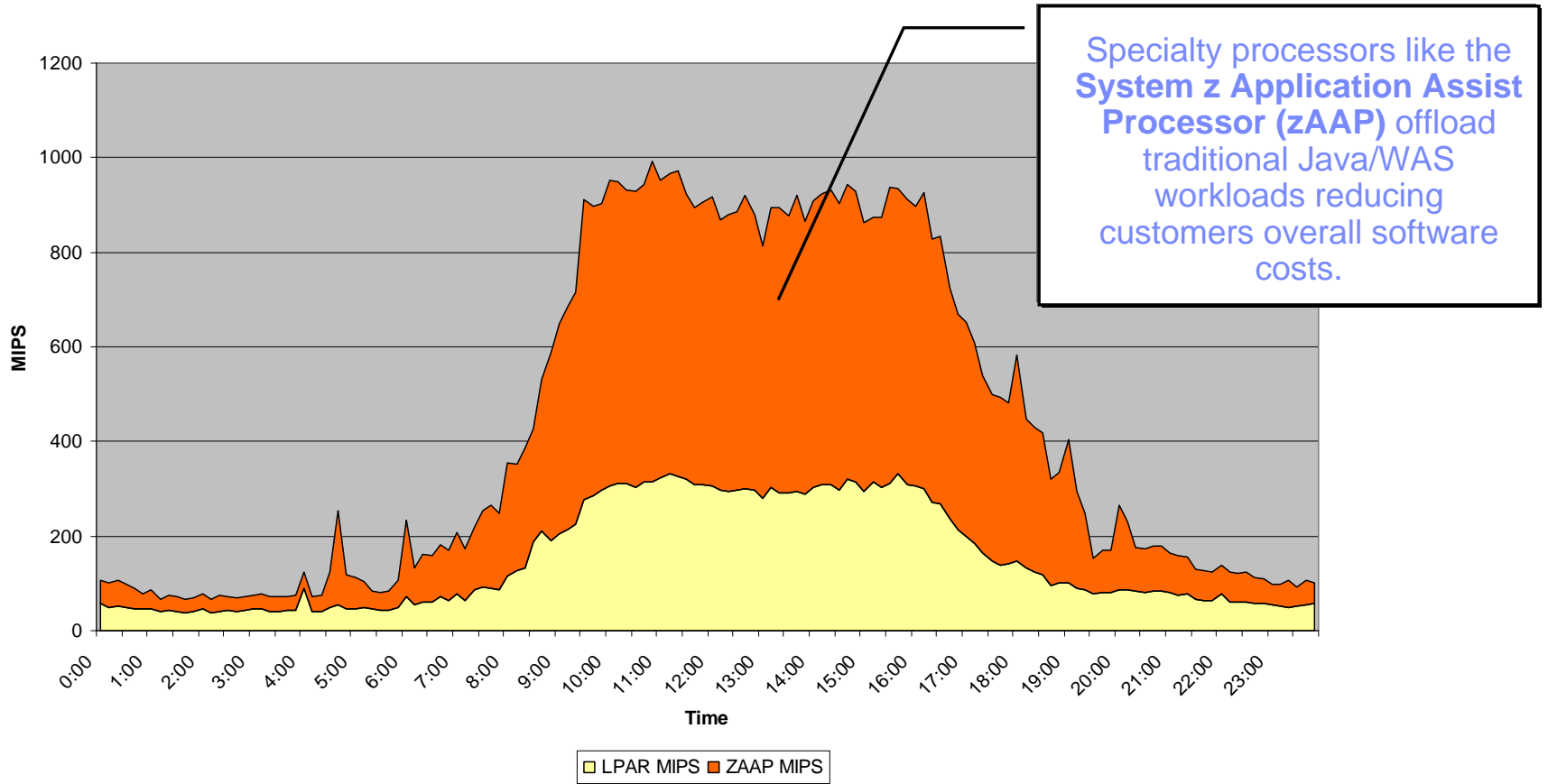
■ General Purpose Processors
 ■ Specialty Processors
 ■ MLC & OS (Linux + z/VM and/or z/OS)
 ■ WPS



*Based on measurements of 176,000, 262,000, 352,000 business services per hour.

Source: https://w3-connections.ibm.com/files/app?lang=en_US#/file/2325b394-9025-44ae-9789-2f17d2e8146c

Software on z/OS doesn't have to be expensive

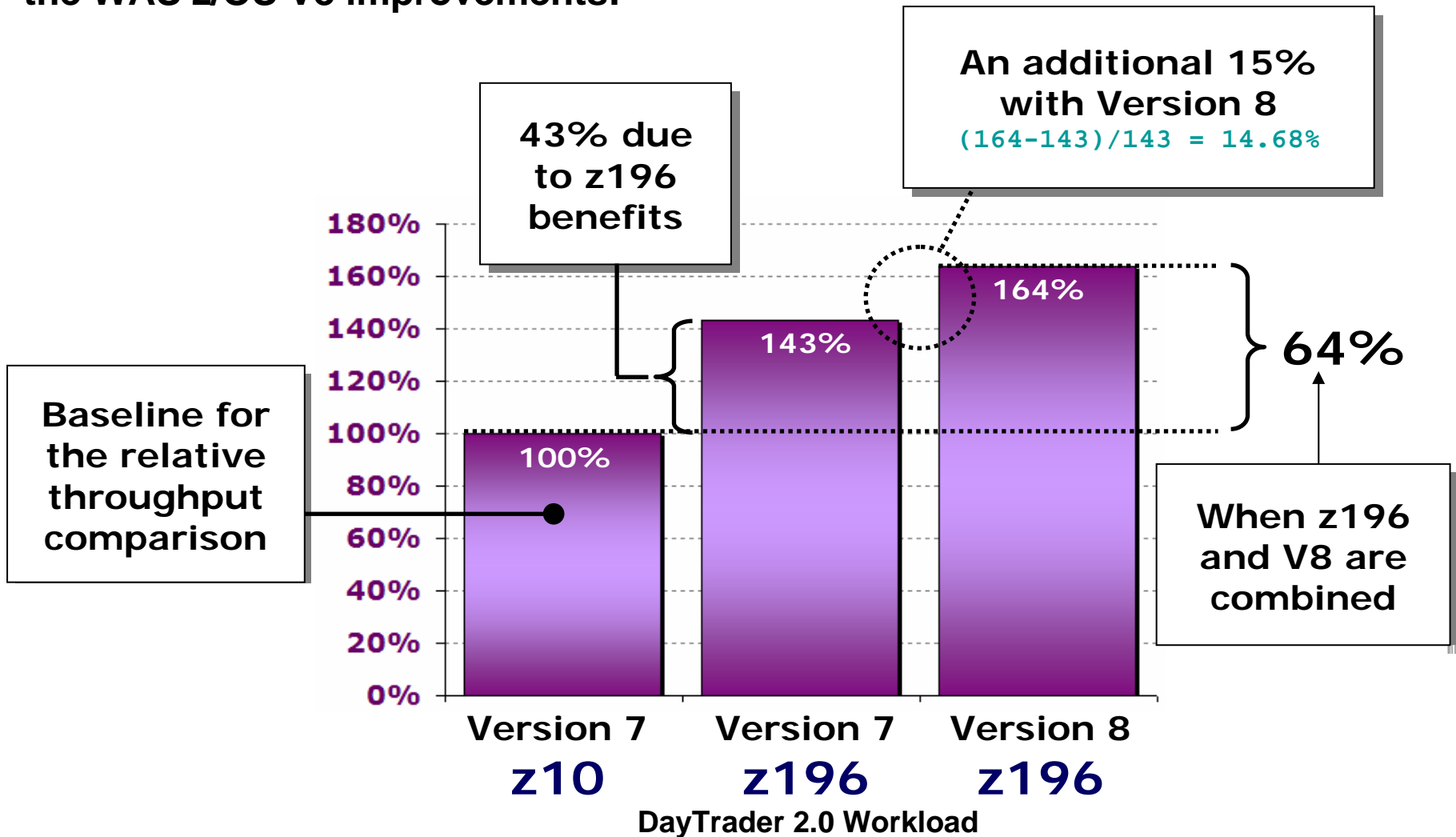


“Costs reduced both by usage of zAAPs (66% offload achieved) and running Java on z10 (approx 8% reduction in CPU workload / NKS)”

Source: Large AP Bank

High Performance: Benefit of z196 and WAS z/OS V8

Here we see the benefits of both the z196 hardware improvements as well as the WAS z/OS V8 improvements:

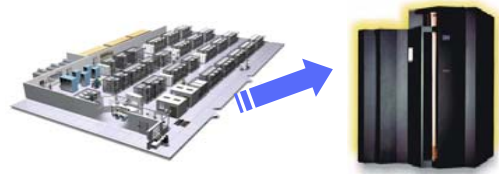


So where does stuff run best?

- *Mixed Workloads (CICS, IMS, WAS, WODM, BPM, etc.)*
- *Unpredictable Workload Spikes (High Trans. Apps)*
- *Standalone Workloads (HTTP, File Serving, Web Services DP XI50z)*
- *Low Networking Latency (Backend Data/App Access)*
- *Speedy Deployment (ISP Packages, Department Systems, etc.)*



Why Sell WAS on System z



- Competitive Threat
 - Eliminate Threat of Open Source- Not targeting a Linux on z solution
 - Replace Competitive BEA- convert to WAS
 - Use the BEA TARGET "List of Accounts" and Customer IFL lists

- Soft \$avings
 - Extreme Flexibility: faster server provisioning time (minutes instead of months)
 - Easy and "free" to upgrade servers
 - Simpler software maintenance disaster recovery

- Hard \$avings
 - Reduced Competitive Threat of Open Source
 - Reduced space, power, and cooling
 - Reduced hardware acquisition and upgrade costs

Why customer wants
WebSphere solutions on
z/OS and Linux on z?
Save Money.

Who cares?
The CIO,
not the techies

Tools Opportunity at Large US Insurance Company

- The Deal:
 - 2010:
 - CICS \$5-\$6M
 - PD Tools \$8-\$12M
 - Roughly 20-25% of the full deal value of \$73M
 - 2011 :
 - PD Tools \$5M, basically 30% of full deal value of \$17M+
- Opportunity Identification:
 - Focus: Customer had been trying to roll out Debug, this had features they wanted
 - Identified competitor weaknesses as customer wanted to move forward on CICS, IMS and other Z Tooling
 - Incumbent held up the migration because they couldn't support the newer versions of our Z Tooling
 - Partnered with Rational on RDz (Rational Developer for z) and RAA (Rational Asset Analyzer)
 - Customers wanted to reduce the amount of time on development, testing and support of legacy applications

Tools Opportunity at Large US Insurance Company continued

- Closing the deal:
 - Focused on:
 - Engaging for full range of solution with Rational team
 - Taking out competition with cost savings and development improvement
 - Developing a conversion roadmap

- Resources utilized:
 - Pamela (PJ) Baron- Americas Sales Lead
 - Dan Brown z Technical Manager
 - Jackie Davis- Tech Lead
 - Tamara Bettoni- Project Lead- Enablement
 - Dick Hatton- Z SSR
 - Roy Decker- Rational Sales Specialist

Agenda

Understanding the System z Platform

Why WebSphere on z/OS?

Where to start selling?

Resources

Where to start selling:

- If they Don't have WebSphere Application Server on z/OS or zLinux start there... it lays the foundation for the rest of the WebSphere portfolio
 - **BPM:** Memory based adapters (WOLA) allow business processes to access legacy applications faster than any other method
 - **WODM:** Sell on System z when clients need to roll out automated decision Enterprise wide: higher availability and security helps meet any SLA plus CICS TS V4+ can act as an event source
 - **Messaging:** low or no network latency between WMB or WMQ on System z partitions. MQ-FTE can be centrally managed without vulnerabilities of FTP
 - **Datapower:** runs in a zBX and lowers a customer's MLC costs for web services and XML parsing workloads
 - **CICS Tools & PD Tools:** increase application developers and system administrators productivity, these deals can be **Huge!**
 - **Icing Tools:** are crucial for synchronizing applications between systems helping System programmers be more productive

Call to Action

1. Everyone needs to sell software on System z

- When the System z and IBM z Software doesn't make its number, the brand doesn't make its number
- Why? These deals are huge!

2. System z is not dead

- Stop talking about green screens:
 - Legacy applications are applications that work
 - Instead tell customers all the ways they can be modernized
- And it doesn't have to be expensive:
 - The new Prescriptive Use Case V3.5 shows how we've lowered the cost of co-located applications on z/OS

3. Engage your geography leaders for help

- Don't pass up huge opportunities just because you're a little uncertain about the platform
- Leverage the "Mind the Gap" data for Opportunity Identification or to fine tune invitation lists for local events

Summary

- Many industries couldn't exist without System z
 - IBM is constantly enhancing the System z to support the latest technology
 - System z has the highest security rating in the Industry
 - System z is the Greenest platform on Earth: Energy Star Approved!
 - System z is a huge source of IBM Software Revenue so sell with it and not against it

- WebSphere has unique benefits on System z
 - WAS 8 and the System z Enterprise Systems is 64% better than before
 - Specialty processors for WebSphere workloads that lower MLC costs
 - Not all competitors support System z, Selling our software in System z keeps them out of your accounts

- The WebSphere Portfolio has many unique benefits on System z
 - CICS and Application Development tools that out pace the competition
 - Unique support features for IBM BPM and WODM solutions and faster Messaging
 - And much more...

Agenda

Understanding the System z Platform

Why WebSphere on z/OS?

Where to start selling?

Resources

zWebSphere Geography Leaders

- **Worldwide**
 - Heather Johnson-Dunnings, hjd@us.ibm.com
 - Al Grega, algrega@us.ibm.com
- **North America:**
 - Dale Grossman, dgrossman@us.ibm.com
 - Frank Mongelluzzo, fmongell@us.ibm.com
- **Europe:**
 - Sylvie Gillespie, gillesps@fr.ibm.com
 - Olaf Hendrik Kappel, kappel@de.ibm.com
- **Japan** – Shigeto Kudo, KUDOS@jp.ibm.com
- **Asia Pacific** - Roger Braem, rbraem@nz1.ibm.com
- **CEE** – Peter Brabec, brabec_peter@at.ibm.com
- **MEA** – Open (contact Al Grega or Heather Johnson-Dunnings)
- **Latin America** – Rita Figari Jordan, rita@pe.ibm.com

If you have a WebSphere opportunity on System z and need help contact your local Geography Sales Leader

System z: Just the Facts

The screenshot shows the IBM website interface for System z. At the top, there's a navigation bar with the IBM logo, a search bar, and a location selector set to 'United States'. Below this is a large green banner with the headline 'FACT: Shrink IT costs up to 50% with IBM System z.' in purple text. A secondary navigation bar contains tabs for 'Overview', 'Analytics', 'Transactions', 'App servers', and 'Consolidation'. The main content area is titled 'The facts that really matter' and includes a sub-header 'Thinking about migrating to System z? You're in good company.' followed by a paragraph about IT service demand and a list of five benefits. To the right of the text is a 3D pie chart showing 'Uptime' as a large green slice and 'Downtime' as a small red slice. Further right is a 'Contact IBM' section with a 'Request a quote' button and an 'E-mail IBM' button. Below that is an 'Analyst report' section for Forrester Research, Inc. with a 'Get report' link. At the bottom right, there's a section for 'Experience zEnterprise System freedom by design' with a 'Register now' link. The footer of the page contains the text 'Migration does not have to be a risk.'

http://www-01.ibm.com/software/data/info/breakfree/facts/consolidation2.html?csr=agus_mtccompsystemz-20110916&cm=k&cr=google&ct=USBRB301&S_TACT=USBRB301&ck=why_mainframe&cmp=USBRB&mkwd=snuGfxZpl_8395038681_432ioy2691

In-depth Follow-on Sales Education

- **WebSphere on z Community Site:**
 - <https://w3-connections.ibm.com/communities/service/html/communityview?communityUuid=7f34250c-1d97-4be4-b389-f230037e3235>

- **WebSphere on System z**
 - Selling WebSphere on System z (75 minute deeper dive): http://w3.tap.ibm.com/medialibrary/media_set_view?id=13836
 - WebSphere on z114: http://w3.tap.ibm.com/medialibrary/media_view?id=123466

- **Business Events and Rules on System z**
 - WODM for z/OS: http://w3.tap.ibm.com/medialibrary/media_view?id=132755

- **Messaging on System z**
 - WebSphere MQ FTE: http://w3.tap.ibm.com/medialibrary/media_view?id=115985

- **Datapower on System z:**
 - XI50z: http://w3.tap.ibm.com/medialibrary/media_view?id=106946

In-depth Follow-on Technical Sales Education

▪ **WebSphere on System z**

- Selling WebSphere on System z (75 minute deeper dive)
- Position WebSphere on System z (Alan Little)
 - http://w3.tap.ibm.com/medialibrary/media_view?id=136047
 - Elevator Pitch: http://w3.tap.ibm.com/medialibrary/media_view?id=136048

▪ **Business Agility on System z**

- BPM for z/OS Update: http://w3.tap.ibm.com/medialibrary/media_view?id=135933
- WODM for z/OS: http://w3.tap.ibm.com/medialibrary/media_view?id=136697
- IBM Business Monitor: http://w3.tap.ibm.com/medialibrary/media_view?id=135929
- WESB: http://w3.tap.ibm.com/medialibrary/media_view?id=136698
- WSRR: http://w3.tap.ibm.com/medialibrary/media_view?id=135932

▪ **Messaging on System z**

- WebSphere MQ Update: http://w3.tap.ibm.com/medialibrary/media_view?id=135943
- WebSphere Message Broker: http://w3.tap.ibm.com/medialibrary/media_view?id=135937

▪ **Datapower on System z:**

- Introduce & Position XI50z: http://w3.tap.ibm.com/medialibrary/media_view?id=136246

System z isn't your father's Mainframe

| | Today's Mainframe | Yesterday |
|------------------------------------|--|---|
| System Programming | Metal "C" <i>C language</i> | Assembler Language |
| System Administration | z/OS Management Facility <i>Graphical Systems Management</i> | 3270 System Console (text based interface) |
| CICS Administration and Operations | CICS Explorer and CICS Tools <i>Graphical plug-ins for CICS application discovery, CICS configuration management, CICS region provisioning, CICS performance and terminal session management</i> | 3270 System Console (text based interface) Competitive Products |
| Application Development | PD Tools <i>Graphical plug-ins for Performance & Fault Analysis, Debugging code and File Management</i> Rational Developer for z <i>Graphical COBOL/PL1 development</i> Rational Asset Analyzer <i>Graphical Application Mapping/Documentation and Business Rules Mining</i> Rational Team Concert <i>Team Development, Change Management, Application Lifecycle Management</i> | ISPF (text based interface) Competitive Products |

Top 3 Reasons Why System z for Business Process Management?

- WOLA Adapters
 - Zero network latency: Access Batch and CICS Assembler, Cobol, PLI, C or C++ applications via memory
- Co-Location on z/OS with key Mainframe Transaction Applications
 - It's Faster and handles more throughput (see latest Prescriptive Use Case results)
- Availability
 - Business Processes are new age applications, they need to be available 99.999% of the time!

OI Hints:

- Look for customers trying to consolidate data centers or Intel server farms

Top 3 Reasons for Decision Management on System z?

- Rules Execution Server on z/OS
 - Natively deploy rules on z/OS or in a CICS Region

- Rule Mining Capabilities
 - Rational Asset Analyzer can mine for business rules in legacy COBOL and export to WODM

- COBOL Code Generation
 - Let's customer deploy rules as executable COBOL code

OI Hints:

- Look for recent CICS v4.x upgrades
- Look for customers using COBOL Code Generators
- Look for customers running RAA today, or using RDz for COBOL development

Top 3 Reasons for Connectivity/Messaging Solutions on System z

- Shared Queues
 - WMB and WMQ can access queues from any LPAR in a Sysplex

- Asynchronous communications with CICS/IMS/Batch
 - No network latency (WMQ and WMB)
 - Applications can leverage WMQ bridge queues in CICS and IMS

- Highly Secure Auditable z/OS File Access and Transfer
 - WMQ File Transfer Edition offers highly secured, centrally managed file transfer without the vulnerabilities of File Transfer Protocol (FTP)

OI Hints:

- Customer needs to integrate distributed applications with Mainframe applications
- Anybody that says “CICS” and wants to start CICS Transactions from a Web Application
- When ESB functions are required between web based apps and CICS apps

Top 3 Reasons for Datapower zXI50 on System z

- Offload processor intensive workloads
 - Easy and Highly secure handling of services reduces customers MLC charges

- Easier Workload Management
 - HMC Console Integration: Single point of control for everything running on System z including zXI50's running on a System z BladeCenter Extension (zBX)

- Networking
 - Little or no network latency with the 10GB end-to-end internal network

OI Hints:

- Customers with large server farms handling web services back to mainframe
- Disgruntle MLC customers looking for ways to minimize costs but still stay on z

Top 3 Reasons to sell CICS Tools on System z

- Investment protection - protects customer investments in their CICS applications and data through modernization
 - How can I discover what is running in production? Interdependency Analyzer
 - How can I modernize my VSAM applications? VSAM Transparency
- Business agility - quickly discover CICS assets, manage CICS definitions, uncover scalability issues for competitive advantages
 - What CICS resources can I reuse? Interdependency Analyzer
 - How can I better predict/trend performance levels? Performance Analyzer
- Security and compliance - supports highest levels of CICS security, enable audit trails of CICS resource changes with back-out capabilities
 - How to monitor configuration changes? Configuration Manager
 - How can I better limit application access/security? IBM Session Manager
- **OI Hint:**
 - *53% of customer spend in CICS shops is on application/infrastructure modernization*

Top 3 Reasons to sell Problem Determination (PD) Tools on System z

Business (Vendor Issues)

- Pricing Issues
 - Upgrade fees
 - Rising maintenance fees
 - Unplanned budget overages
 - Long term contracts

Technical (Product Issues)

- Ongoing enhancements
 - Integration with other products and hardware
 - Eclipse Plug-ins provide alternative/superior interface and integration capabilities
 - Subsystem and Language toleration simultaneous with subsystem/language availability, exploitation within a few months
 - Product support
 - Administrative complexity

▪ **Application Development Environment**

- Unable to deploy new applications on the platform that best meets business needs (z/OS)
- Forced to consider other platforms for application hosting for affordable tools and utilities
- Reuse traditional assets in the Internet world
- Security and compliance - supports highest levels of security, enable audit trails

▪ **OI Hint:**

- *Nearly 50% of z/OS customer base still uses Compuware related problem determination tools. Some others use Computer Associates or Macro 4 tools.*
- *Customer needs to stay current with ever changing subsystem levels and language levels on System z*
- Look for customers investing in Rational Developer for z (RDz) and RDz Unit Test

Top 3 Reasons to sell Icing Tools on System z

- Icing Tools on System z Help Customers reduce their TCO
 - ISV Replacement with Icing tools can reduce customer operational cost
 - CA Easytrieve – IBM Migration Utility
 - CA Date Simulator, Compuware Xpediter Xchange - Hourglass
 - CA PDSEMan (partial replacement) – ISPF Productivity Tool
 - MVS Thruput Manager - OSEM

- Icing Tools enhance operations
 - Business Process Synchronization on z/OS – Hourglass
 - z/OS JES exit upgrades, batch productivity, ISV “penalty box” – OSEM
 - 3270 development & system programmer productivity – ISPF Productivity Tool

- Icing Tools complement PD Tools
 - Useful complement for PD Tools and CICS Tools for productivity: Hourglass & ISPF Productivity Tool