



# What's New with OMEGAMON z/OS Version 4.1 and How OMEGAMON can be used with z/OS Management Console

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#### Agenda

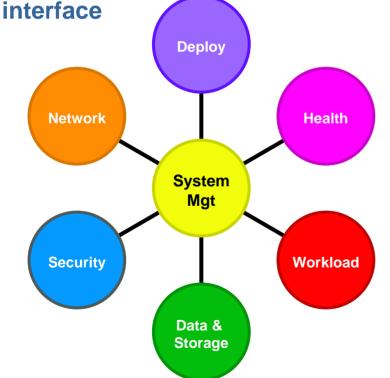
- z/OS Systems Management
  - New Face on z/OS
- Tivoli OMEGAMON XE on z/OS 4.1.0
  - What is new in XE on z/OS 4.1.0
  - DWL OMEGAMON z/OS
  - Problem Solving with XE
- zMC use with Tivoli OMEGAMON XE on z/OS 4.1.0
  - What is zMC?
  - DWL to XE
  - Using zMC and OMEGAMON XE together



#### z/OS Management Focus Areas

#### Goals

- •Eliminate, or automate z/OS administrative and operational tasks
- •Simplify the tasks that remain with a modern, easy to learn and useful



#### Assist customers with the following tasks:

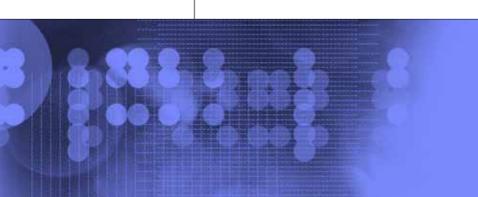
- Deployment: Plan, order, install, migrate, configure, update OS, SW products, HW devices:
  - Migrate to new releases and deploy "on demand" features
- Health and availability management:
  - Detect, diagnose, recover from and prevent
    z/OS problems.
- Data and storage management:
  - Deploy new storage devices; migrate data
  - Establish storage management policies that meet business goals.
- Workload management:
  - Define workload management policies and track policy execution
  - Monitor and control system activity: business applications, batch jobs, UNIX®processes, and other forms of work
- Network management:
  - Monitor, configure and administer network connections, servers, and security. Focus: IP and SNA over IP
- Security management:
  - Configure z/OS security and help protect resources and information from unauthorized use





#### Tivoli OMEGAMON XE on z/OS 4.1.0

#### What is new with XE on z/OS 4.1.0





# New Functions in OMEGAMON XE on z/OS Version 4.1.0

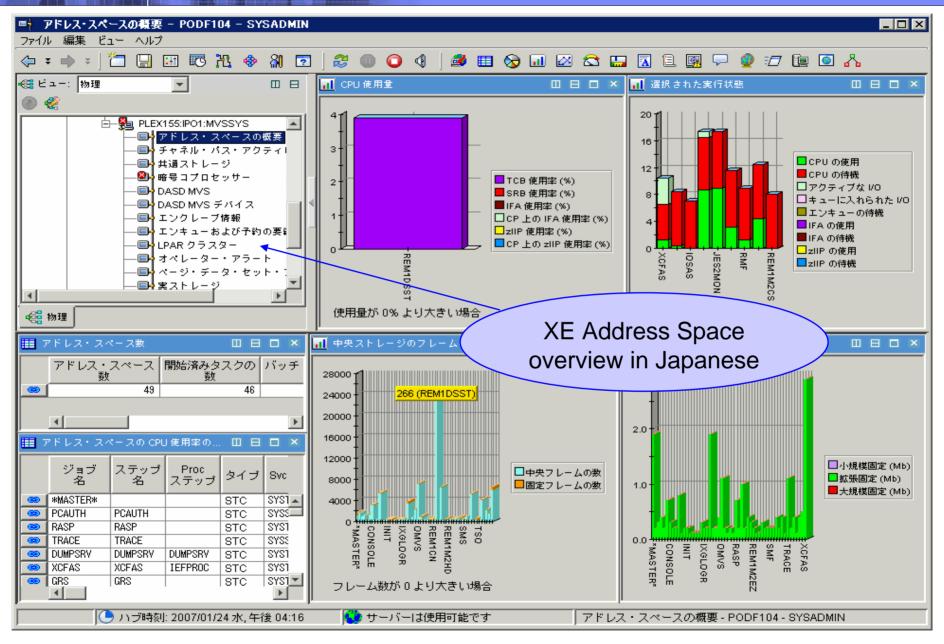
Translation into Chinese Simplified, Chinese Traditional, French, German, Italian, Japanese, Korean, Brazilian Portuguese, and Spanish

ISA Plug-In for product support

Integration of OMEGAMON XE for UNIX System Services

Integration of RMF (Coupling Facility Data)





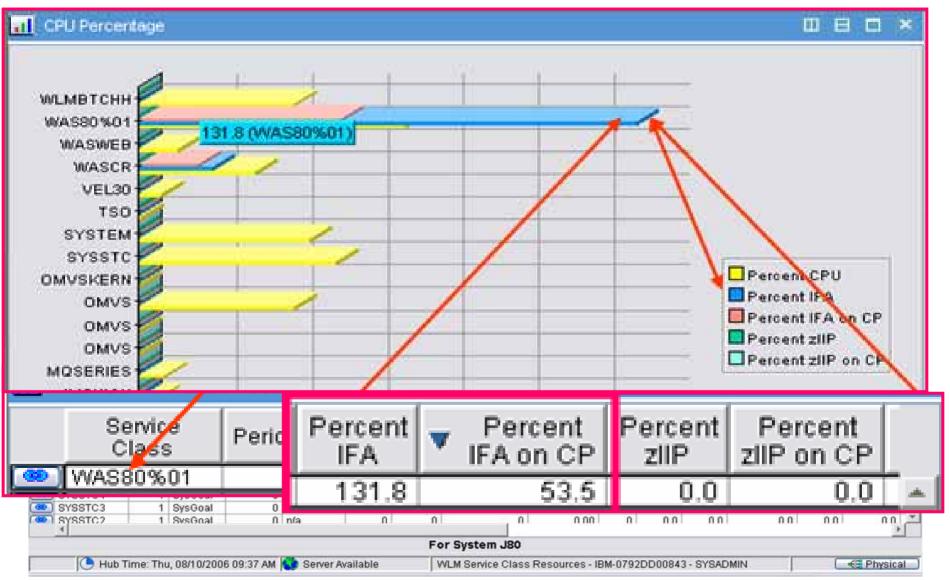


# New Functions in OMEGAMON XE on z/OS Version 4.1.0

- zAAP / zIIP Reporting
- Additional Real Storage Reporting
- Tape Mount Pending Time
- Coupling Facility Structure Duplex reporting
- Address Space I/O Rate
- Dynamic Workspace Linking

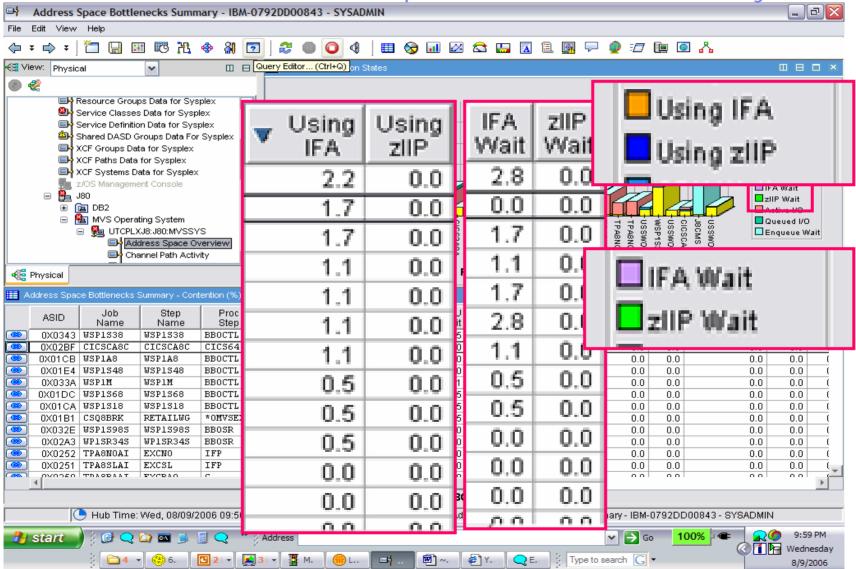


## OMEGAMON XE on z/OS Specialty Engine Support zIIP/zAAP – WLM Service Class Resources





## OMEGAMON XE on z/OS Specialty Engine Support zIIP/zAAP – Address Space Bottlenecks Summary





#### Dynamic Workspace Linking Function with 4.1.0

**Problem:** How do I quickly find a potential problem

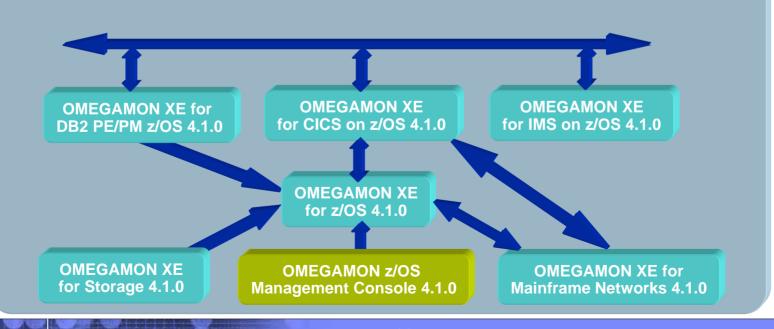
that requires multiple monitoring products?

Scenario: Dynamically link in context from CICS transaction

to the associated DB2 thread

Solution: Dynamic Workspace Linking

Product provided links & user customized







#### Tivoli OMEGAMON XE on z/OS 4.1.0

#### Problem Solving with XE







### High CPU Scenario

Bottleneck and Inspect Features in OM XE for zOS V4.1.0

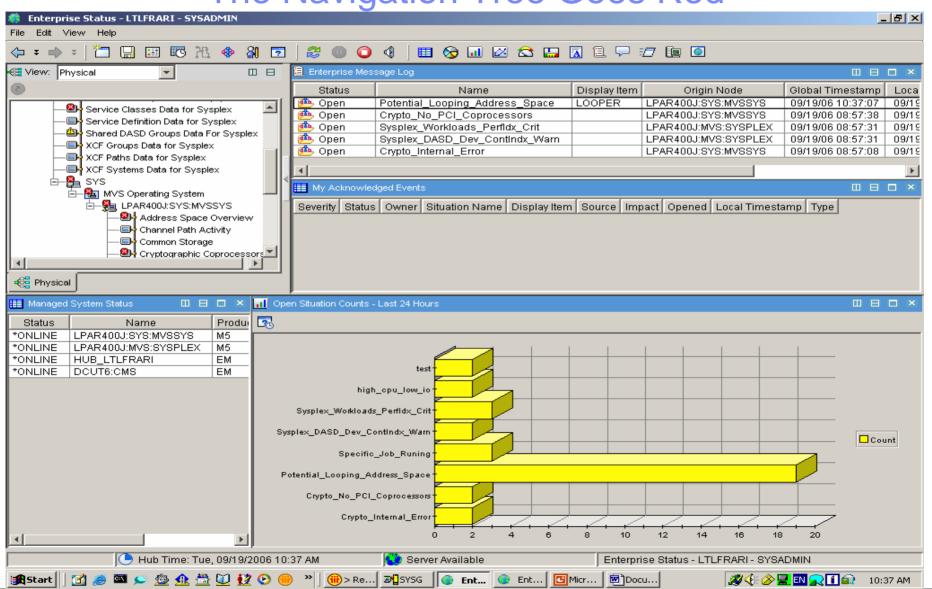


#### High CPU Scenario - Overview

The Navigation Tree Goes Red
A Situation Has Identified a Looping Job
Go Check It Out
Address Space Overview Shows Bottleneck Data
Display Links from Address Space Overview
Address Space CPU Utilization Shows LOOPER
Display Links from Address Space CPU Utilization
Link to Inspect Data Shows Hot Spot Offsets
You take action to cancel LOOPER

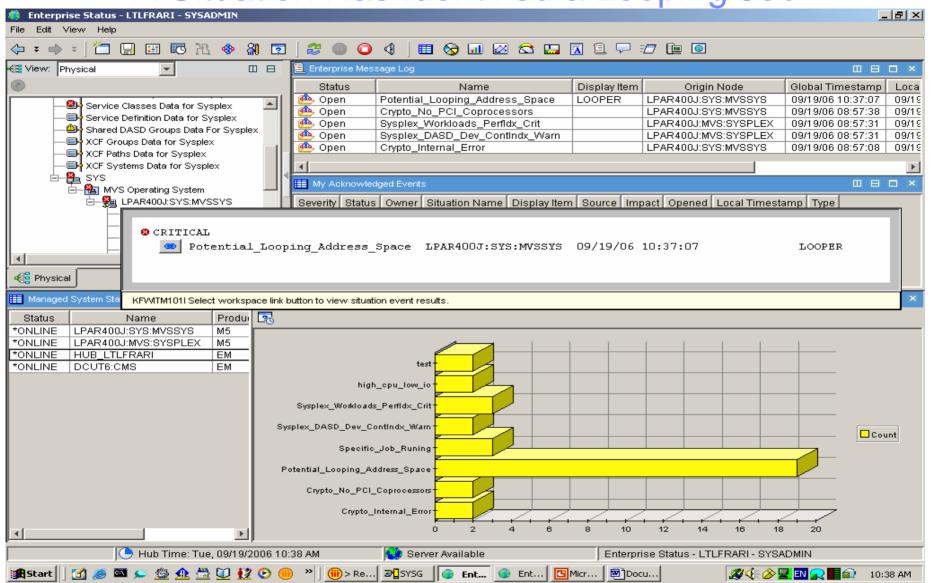


#### The Navigation Tree Goes Red



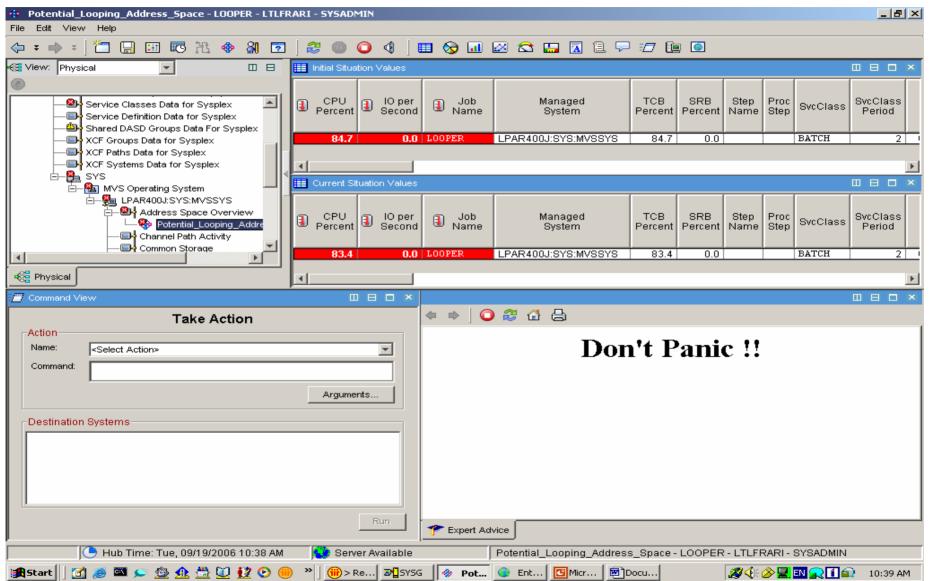


#### A Situation Has Identified a Looping Job



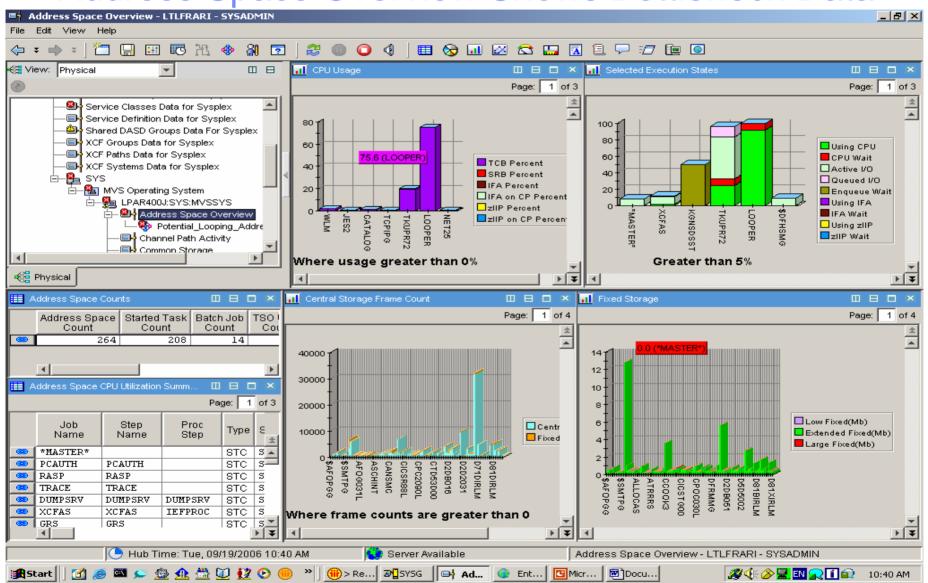


#### Go Check It Out



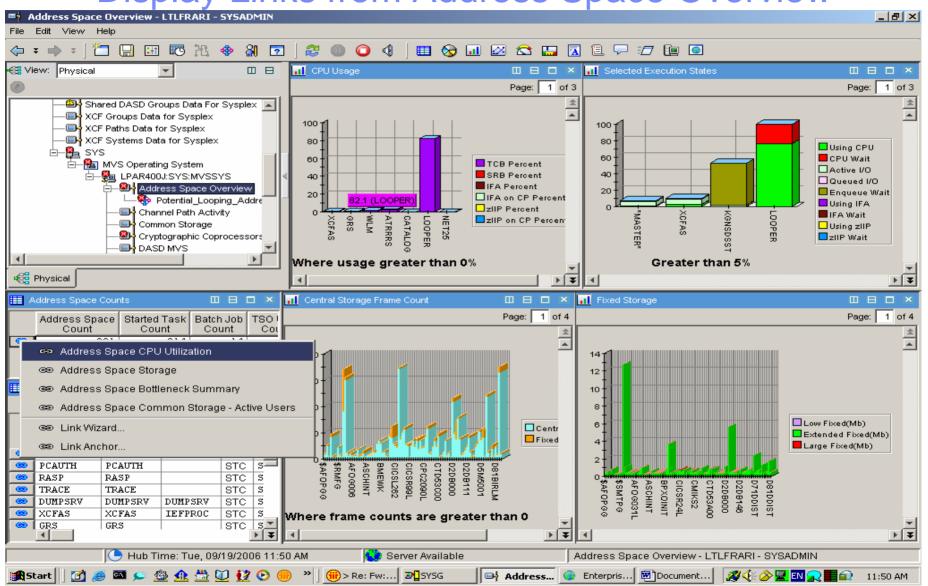


#### Address Space Overview Shows Bottleneck Data



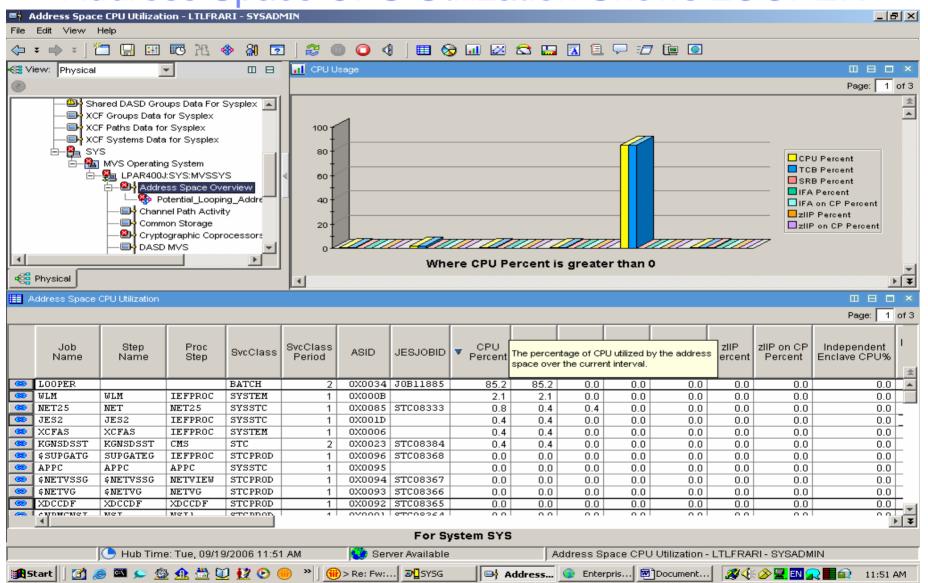


#### Display Links from Address Space Overview



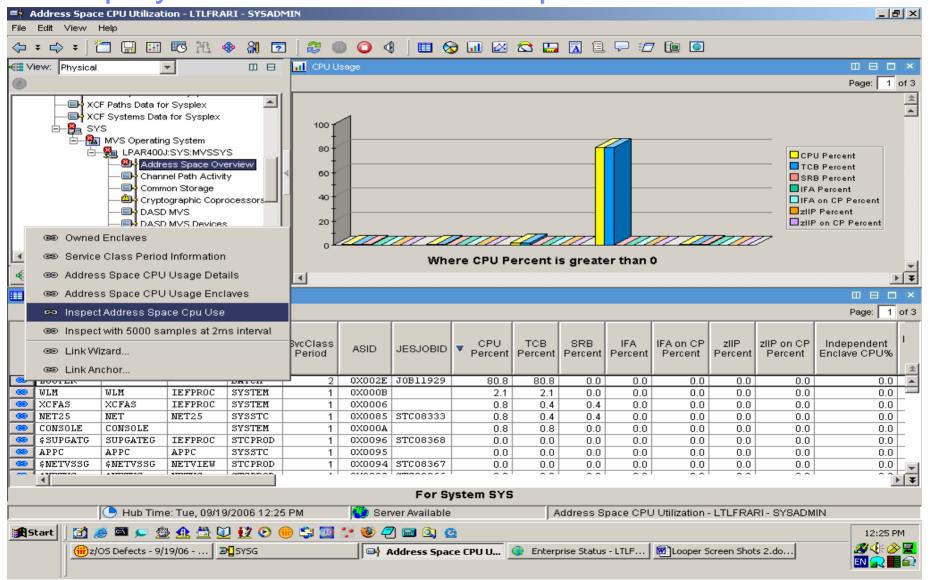


#### Address Space CPU Utilization Shows LOOPER



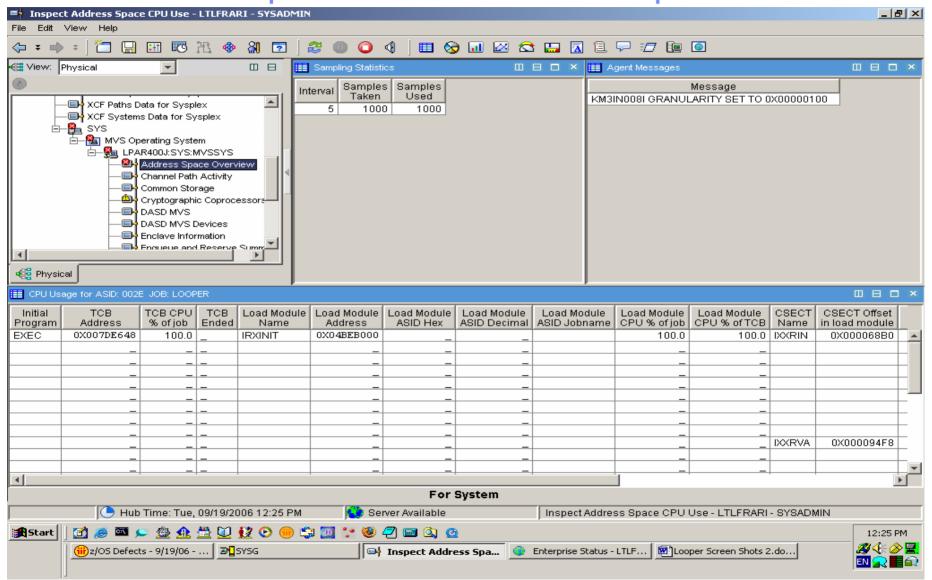


#### Display Links from Address Space CPU Utilization



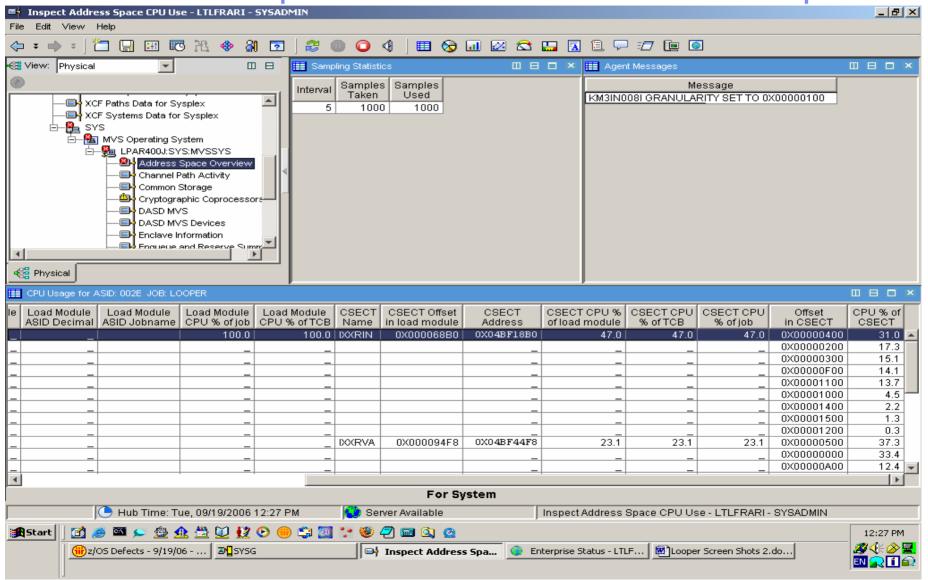


#### Link to Inspect Data Shows Hot Spot Offsets



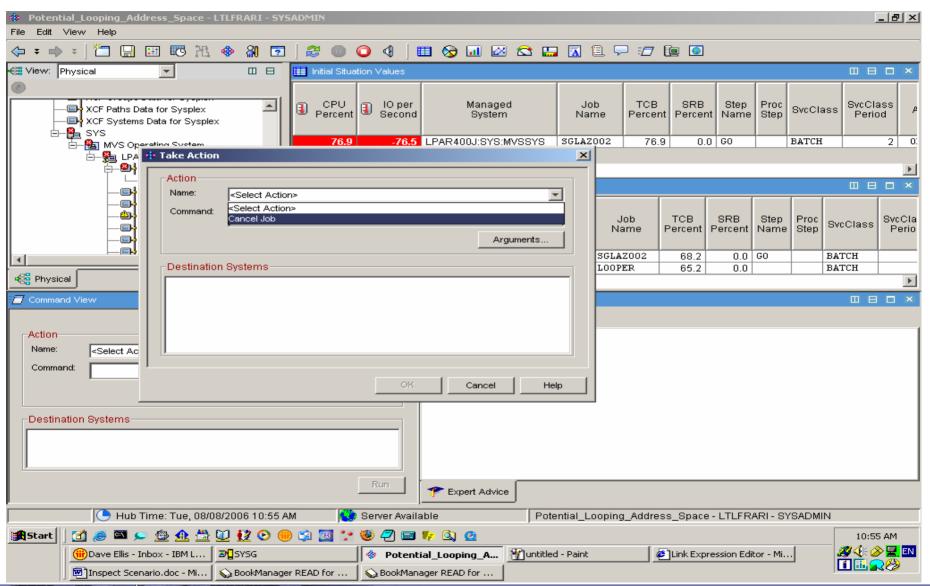


#### Additional Inspect Data Shows CSECT Hot Spots





#### You take action to cancel LOOPER







# IBM OMEGAMON z/OS Management Console (zMC) Version 4.1.0

#### What is zMC?



#### IBM OMEGAMON® z/OS Management Console

- Available at no charge for z/OS 1.4 and above
- Status of z/OS sysplexes and systems displayed using Tivoli® Enterprise Portal
- Integrated Health Checker reports
- Powerful features:
  - Event notification
  - Drill-down to problem details and expert advice
- Easy upgrade to comprehensive
  Tivoli Monitoring Services products
- Foundation for the future



Learn more at: <a href="http://www.ibm.com/servers/eserver/zseries/zos/zmc/">http://www.ibm.com/servers/eserver/zseries/zos/zmc/</a>



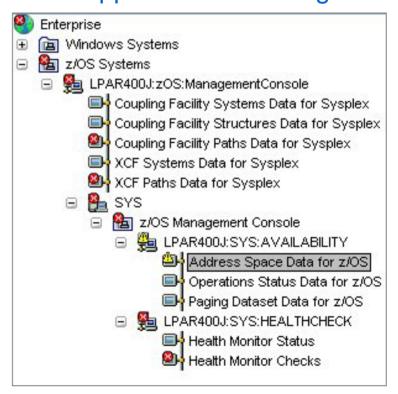
#### Managing Situations Using the zMC

#### Sequence of events:

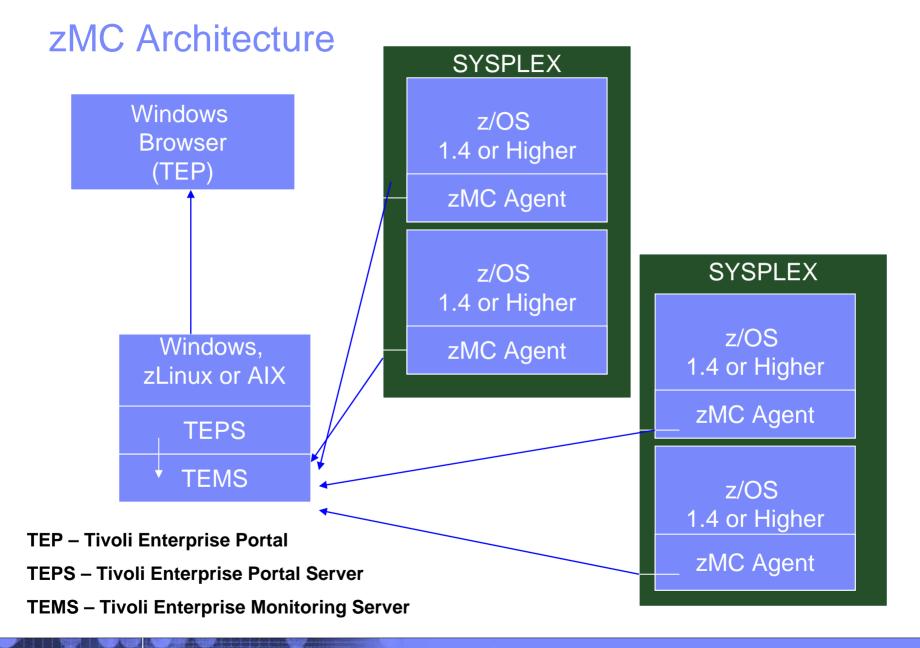
- -z/OS agents monitor for situations
  - 14 pre-defined situations shipped
  - Customers can create more
- If situation triggers, alert is raised Alert indicators:
- User opens Event Workspace
  - Gets more details about situation
  - Reads expert advice (if provided)
  - Takes action (optionally)



#### Alerts appear in TEP Navigator:









#### zMC 4.1.0 – new release

#### **GA** complete in January 2007:

More Sysplex Level – CF details, duplex, policy

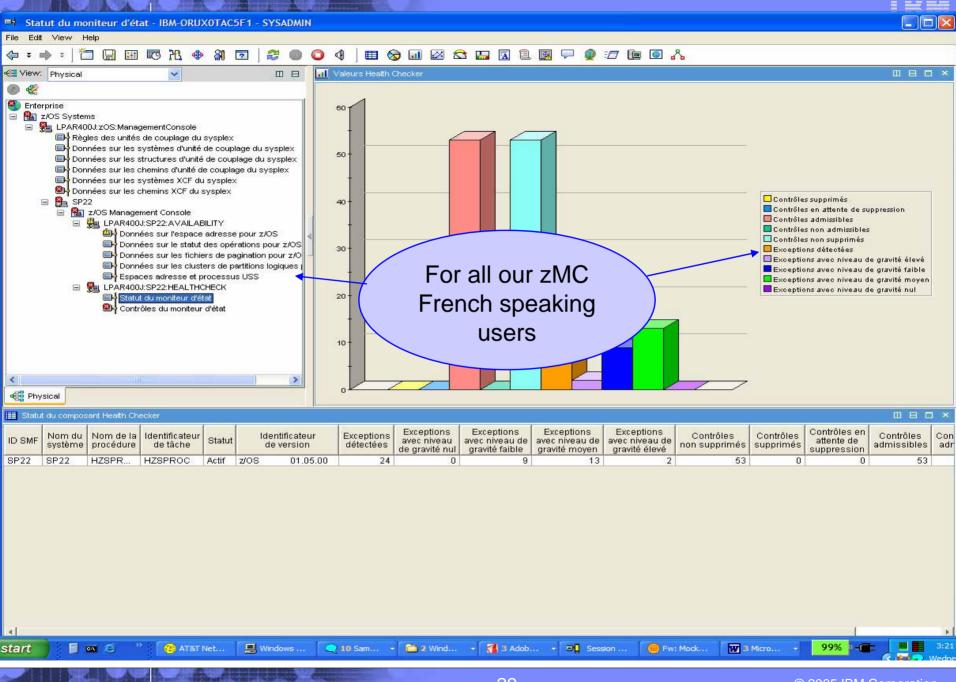
More Availability Information – USS Processes/Users

Lpar Cluster information

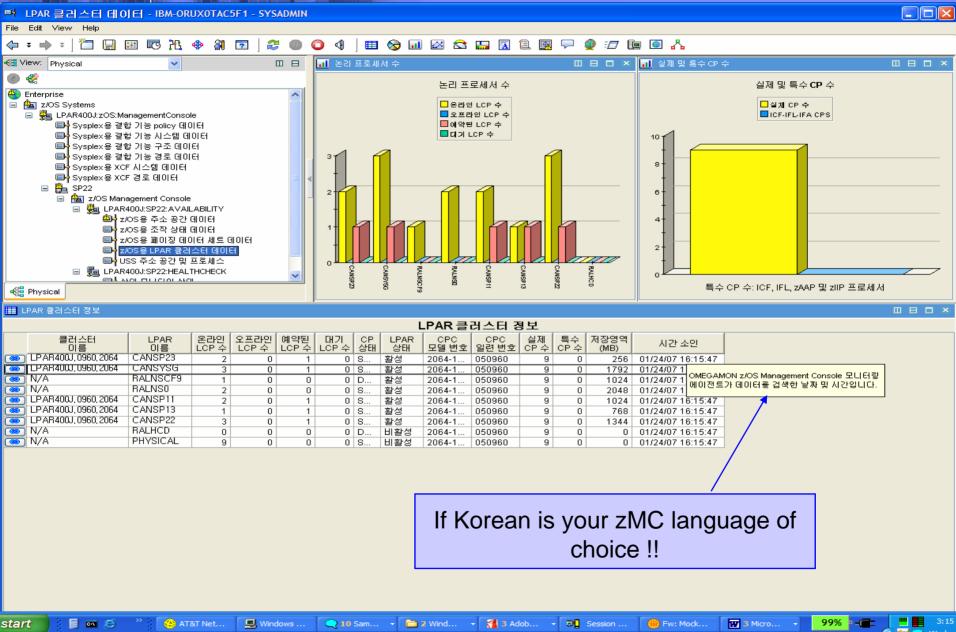
Dynamic Workspace Linking – OMEGAMON XE for z/OS

Translation: Chinese Simplified, Chinese Traditional, French, German, Italian, Japanese, Korean, Brazilian Portuguese, and Spanish

ISA Plug-In for product support





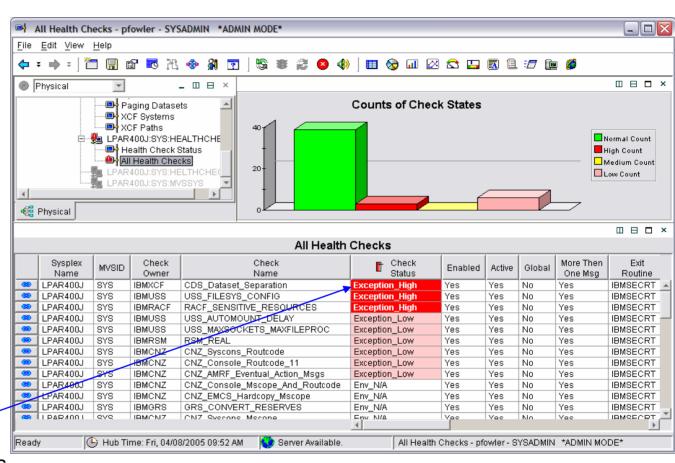




#### z/OS Health Checks in TEP with zMC 4.1.0

## zMC provides TEP based Health Checker

- Health Checker provides z/OS elements and products to check on configuration values and report what may be a deviation from best practices
- Displays health check statistics on the TEP
- Highlights check status
- Health Checker in SDSF is more text based (web download before z/OS 1.7)



This feature is unique to the IBM OMEGAMON z/OS Management Console (zMC)

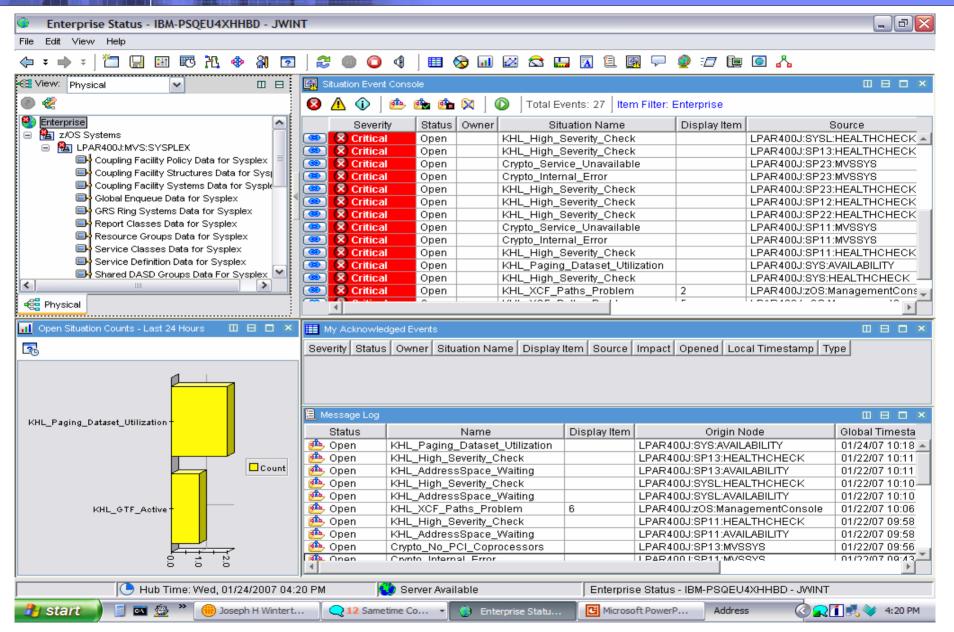


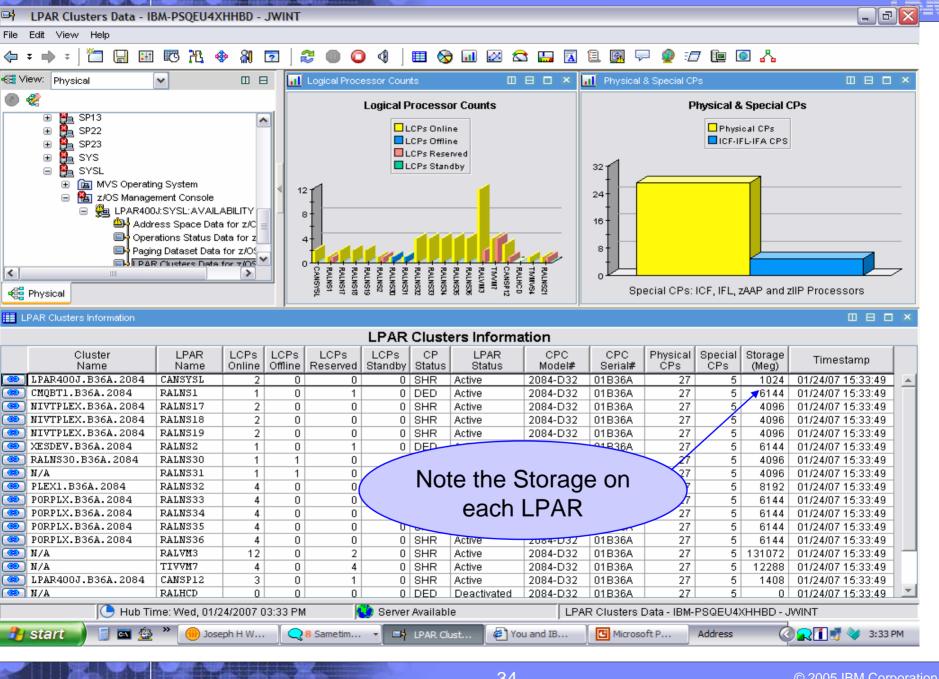


## IBM OMEGAMON z/OS Management Console Version 4.1.0

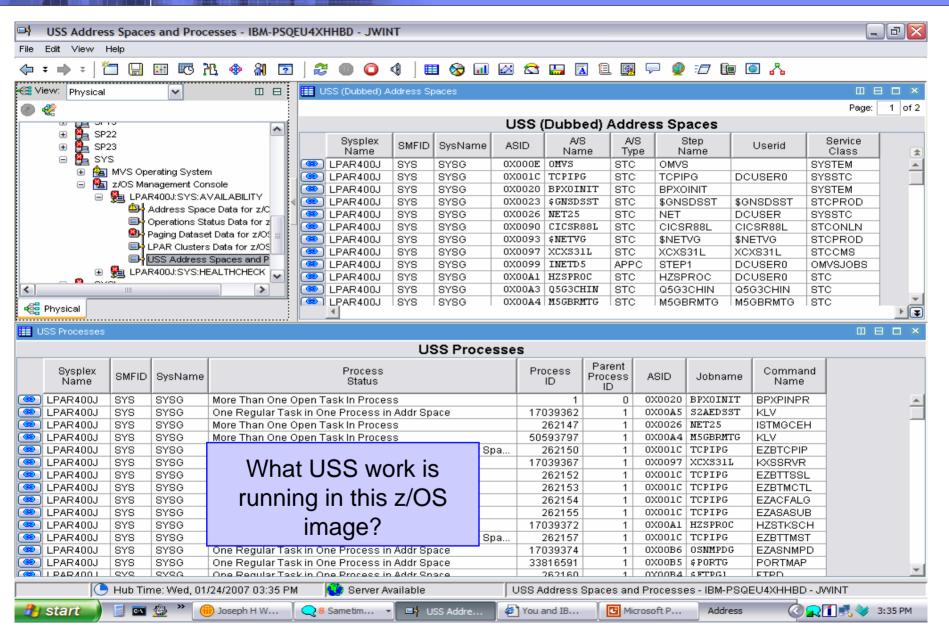
#### New LPAR Availability Information











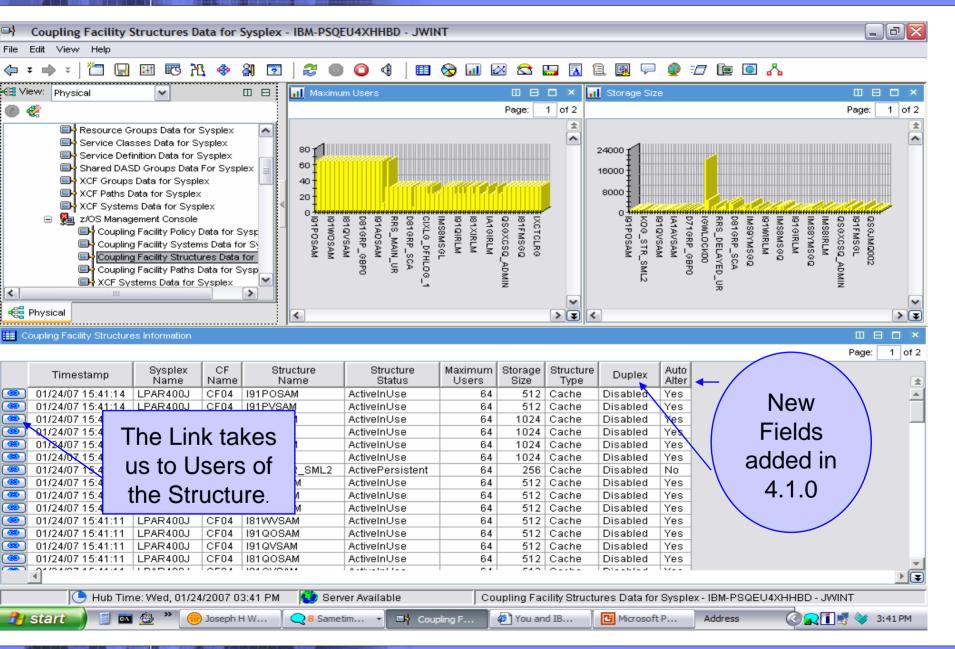




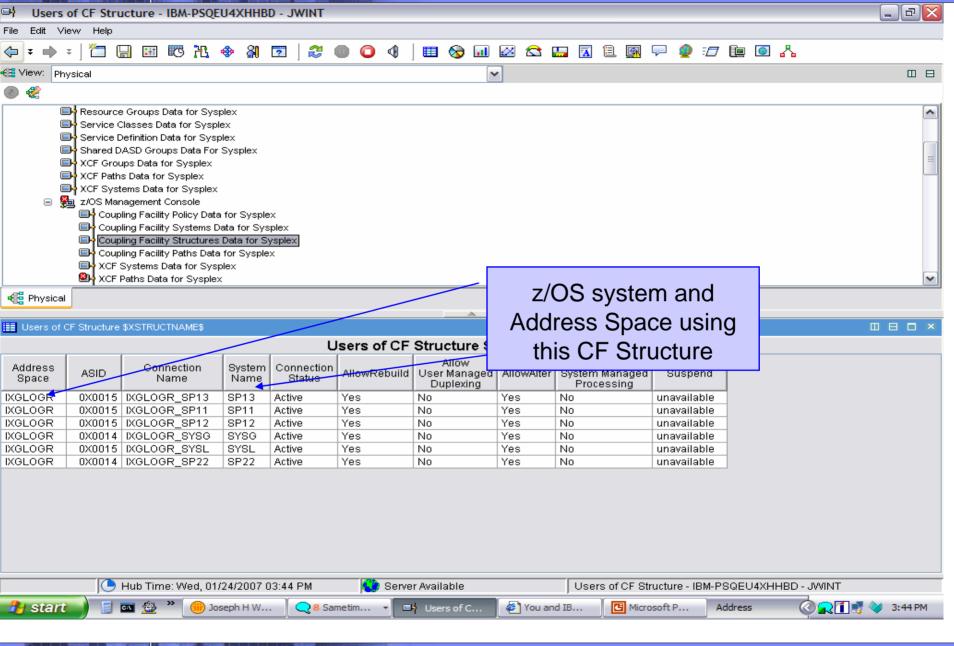
## IBM OMEGAMON z/OS Management Console Version 4.1.0

#### New Sysplex Availability Information

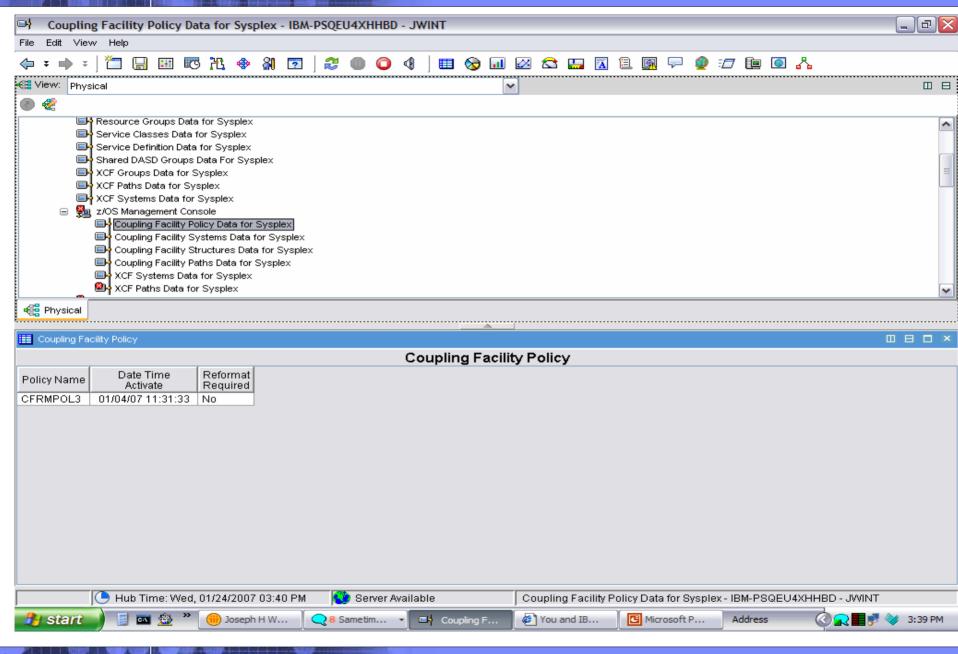














## Who may be a good candidate for zMC?

- 1)Small z Shop with need of some availability monitoring use to get them use to new interface
- 2)Current OMEGAMON XE for z/OS site that wants to add in z/OS Health Checker information and use z/MC for some availability alerting
- 3) Large z Shop training Distributed skilled people on z/OS
- 4) Any z Shop looking to run an application on System z9 on Linux on z. Put your TEMS, TEPS over on Linux on z.
- 5) New interface for Health Checker information for any shop.





## IBM OMEGAMON z/OS Management Console Version 4.1.0

#### Installation and Publications



## Platform Support and Pre-Reqs

#### http://www-03.ibm.com/servers/eserver/zseries/zos/downloads/

- z/OS 1.4 and Higher z/OS systems
- Supporting components required by and supplied with the Management Console package:
  - Installation/Configuration Assistance Tool (ICAT) Version 310
  - Tivoli Enterprise Monitoring Server (TEMS) Version 610 with FP4 or higher
  - Tivoli Enterprise Portal (TEP) Version 610 with FP4 or higher
  - Tivoli Enterprise Portal Server (TEPS) Version 610 FP4 or higher
- Other required components:
  - DB2/UDB 8.2
  - At least one PC or server running Windows XP Pro w/SP1 or higher or Windows 2000 w/SP3



# Publications- "Please use the Planning, Installation and Configuration Guide"

V4.1.0 z/MC Pubs available at :

http://publib.boulder.ibm.com/infocenter/tivihelp/v15r1

Planning, Installation, and Configuration Guide (GC32-1954-00)

Provides instructions for Planning, Installation and configuring the product on all supported platforms. It includes:

- a list of prerequisite steps to complete before configuring the product.
- an overview of the process for configuring the product.
- instructions for configuring the monitoring agent in a new or existing ITM 6.1 environment.
- Program Directory V4.1.0: (GI10-3381-00)

Provides instructions for Installation of the z/OS side.

**▶ OMEGAMON z/OS Management Console User's Guide (GC32-1955-00)** 

This book tells how to use the product to monitor z/OS systems. It also presents several product-specific monitoring scenarios and explains product messages.

The online help contains most of the information found in this book.



## Follow the Program Directory for z/OS zMC

From the web site:

z/OS Downloads - TEMS and zMC Agent

Read Me - HL410.README.txt

OMEGAMON z/OS Mgt Console V4.1.0 in pax format

Maintenance - PTF's

Program Directory



#### **Workstation Downloads**

- IBM OMEGAMON z/OS Management Console Data Files for z/OS CD-ROM electronic image in .zip format LCD7-6690-00.zip (65.5MB)
- IBM OMEGAMON z/OS Management Console Data Files for z/OS CD-ROM electronic image in .tar format LCD7-6690-00.tar (497.4MB)
- IBM Tivoli Monitoring CD-ROM Vol 1. w/FP4 (Windows) electronic image LCD7-0789-06.zip (397.7MB)
- IBM Tivoli Monitoring CD-ROM Vol 5. w/FP4 (Linux on zSeries - Red Hat and SuSE) electronic image LCD7-0836-06.tar (564.1MB)



#### **DB2/UDB Download**

- **DB2 UDB Enterprise Server Edition 8.2: Windows CD-ROM electronic image** LCD7-0901-00.zip (424.4MB)
- DB2 UDB Enterprise Server Edition 8.2: Linux for OS/390 (32-bit) CD-ROM electronic image LCD7-0889-00.tar (360.8MB)
- DB2 UDB Enterprise Server Edition 8.2: Linux for zSeries (64-bit) CD-ROM electronic image LCD7-0890-00.tar (344.8MB)

DB2/UDB is included as part of the zMC product use for your zMC use.



### What you need for TEP/TEPS on Windows:

- 1)DB2 UDB Enterprise Server Edition 8.2: Windows CD-ROM electronic image
- LCD7-0901-00.zip (424.4MB) unzip then use setup.exe
- 2) IBM Tivoli Monitoring CD-ROM Vol 1. w/FP4 (Windows) electronic image LCD7-0789-06.zip (397.7MB) unzip and use in windows directors.
- LCD7-0789-06.zip (397.7MB) unzip and use in windows directory setup.exe
- 3) IBM OMEGAMON z/OS Management Console Data Files for z/OS CD-ROM electronic image in .zip format LCD7-6690-00.zip (65.5MB) unzip and use setupwin32.exe

Please do the Install/Configure in this order using the manual Remember to Register for Product Support

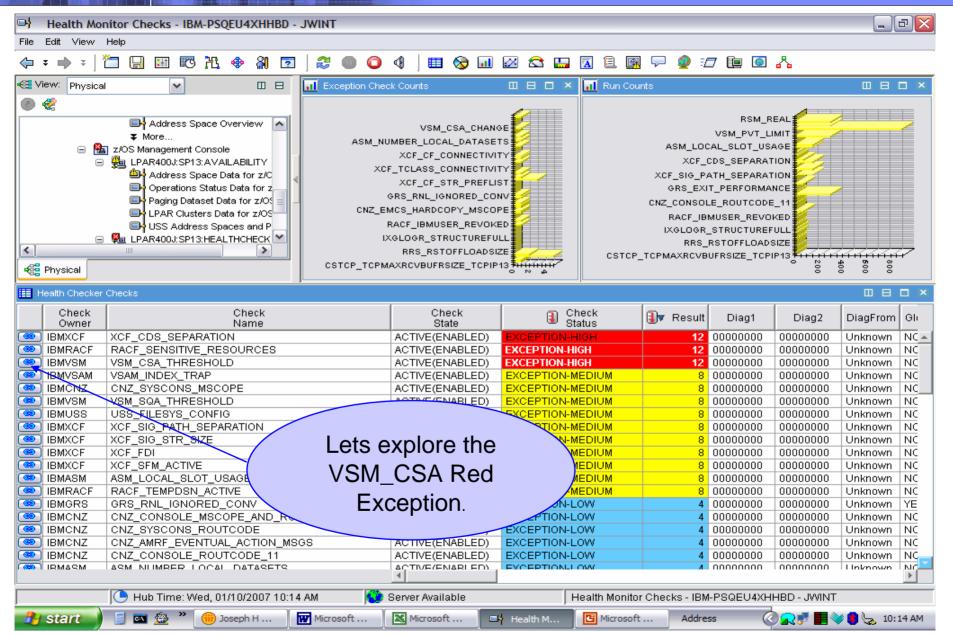




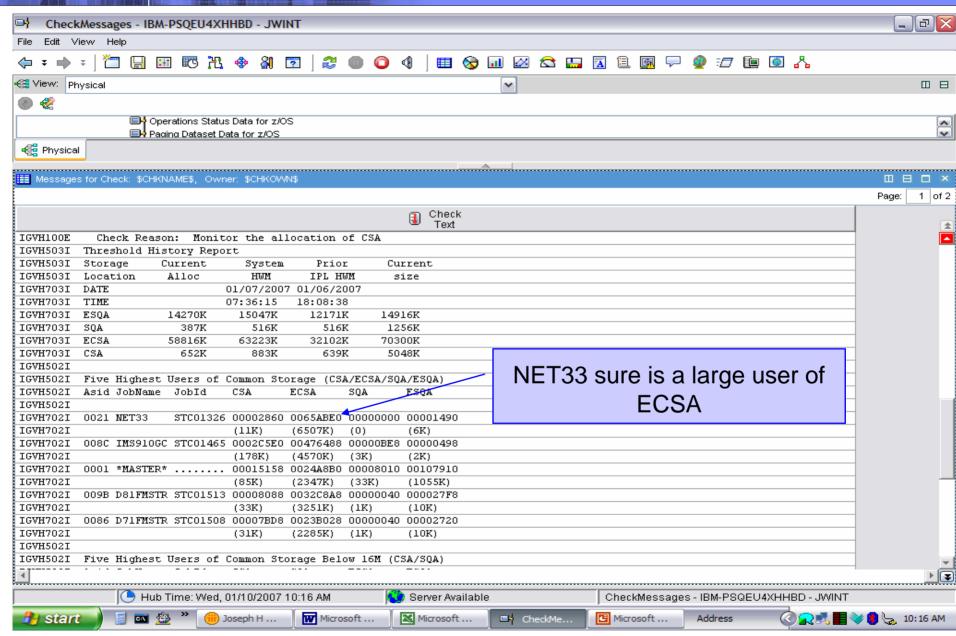
## Using zMC and OMEGAMON XE together

## Problem solving with zMC and XE

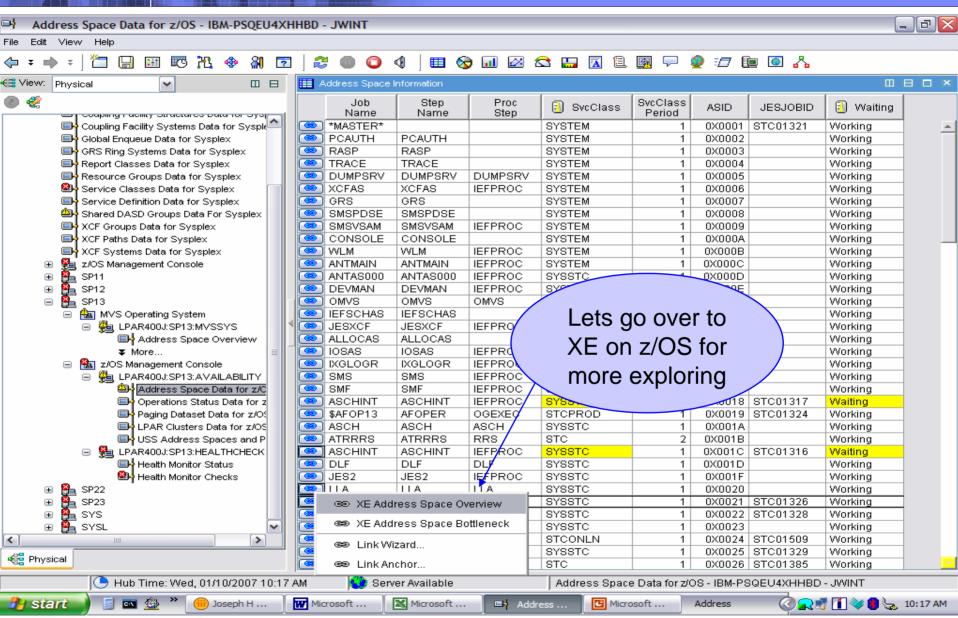




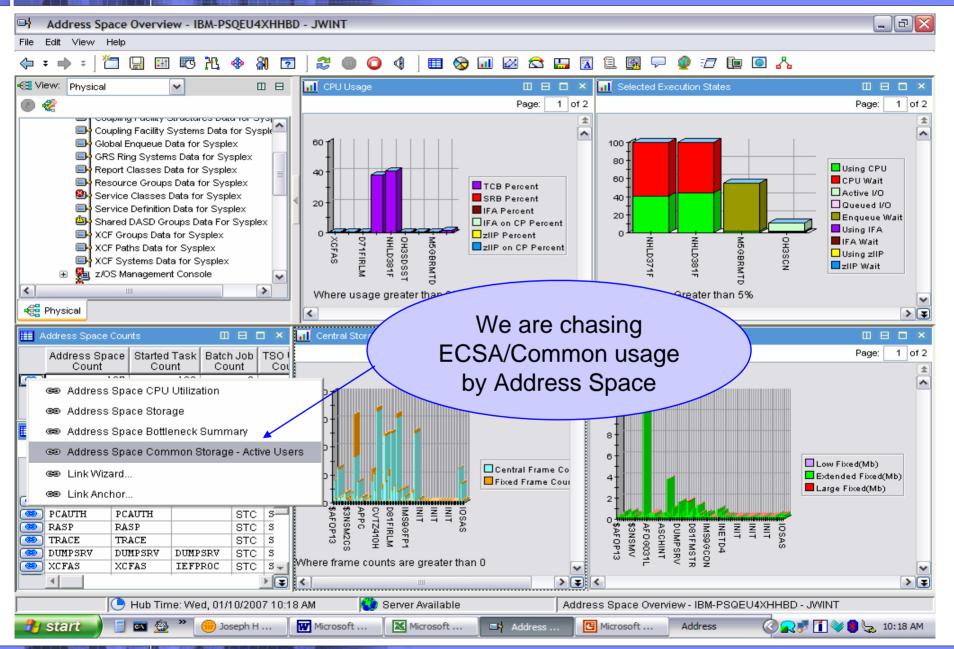




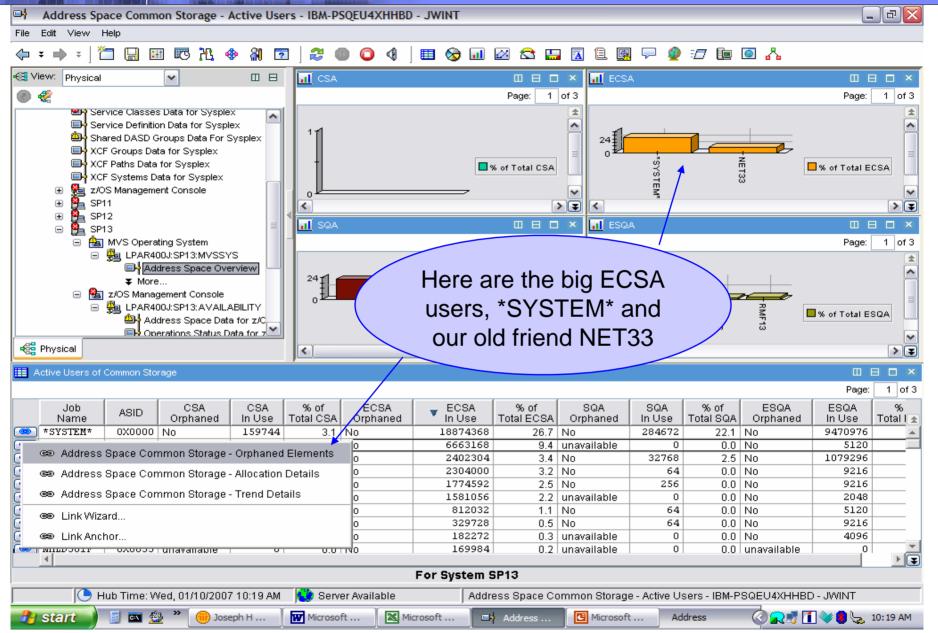


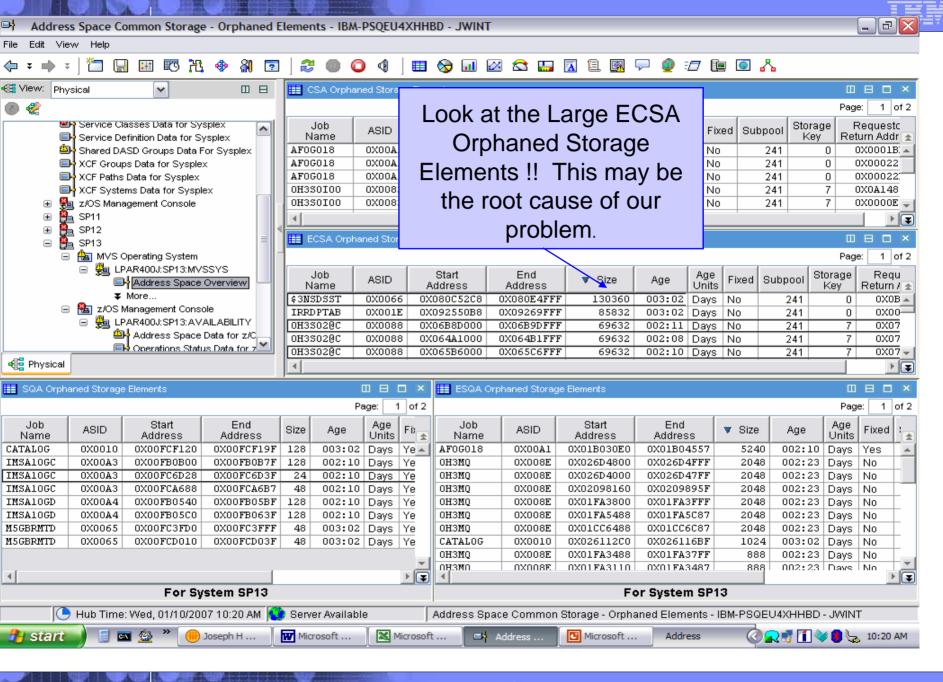




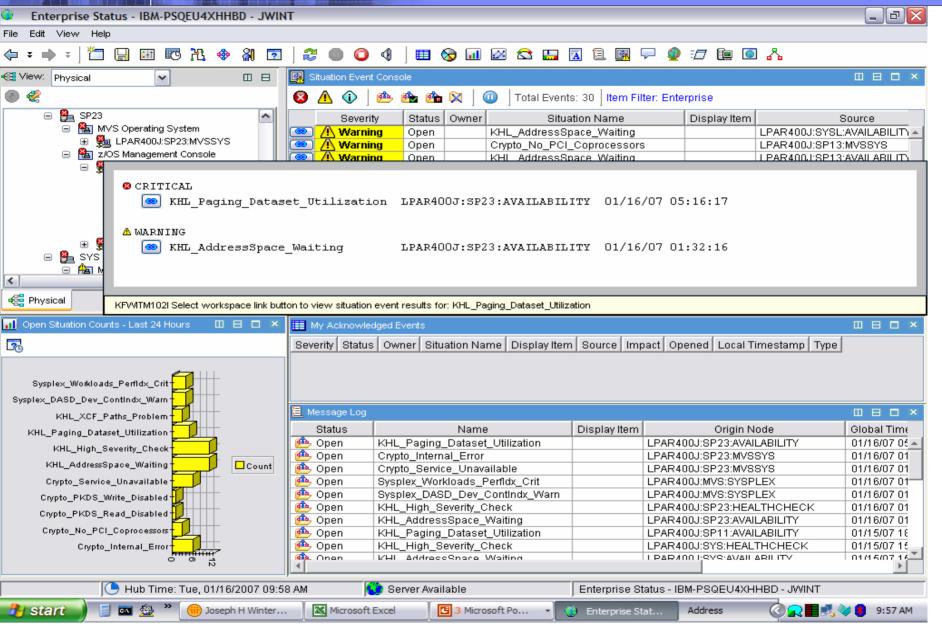




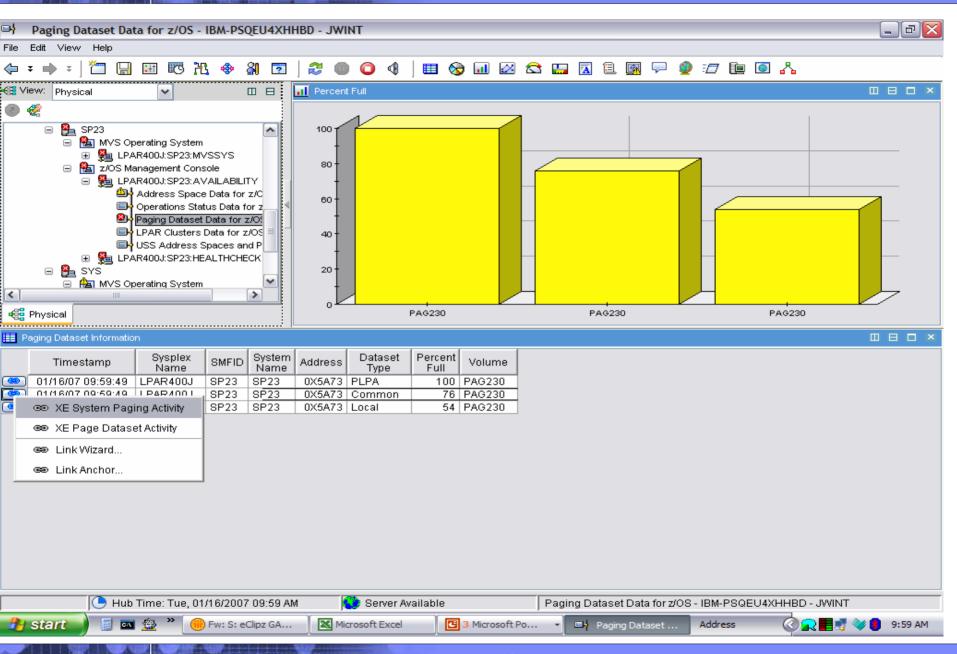




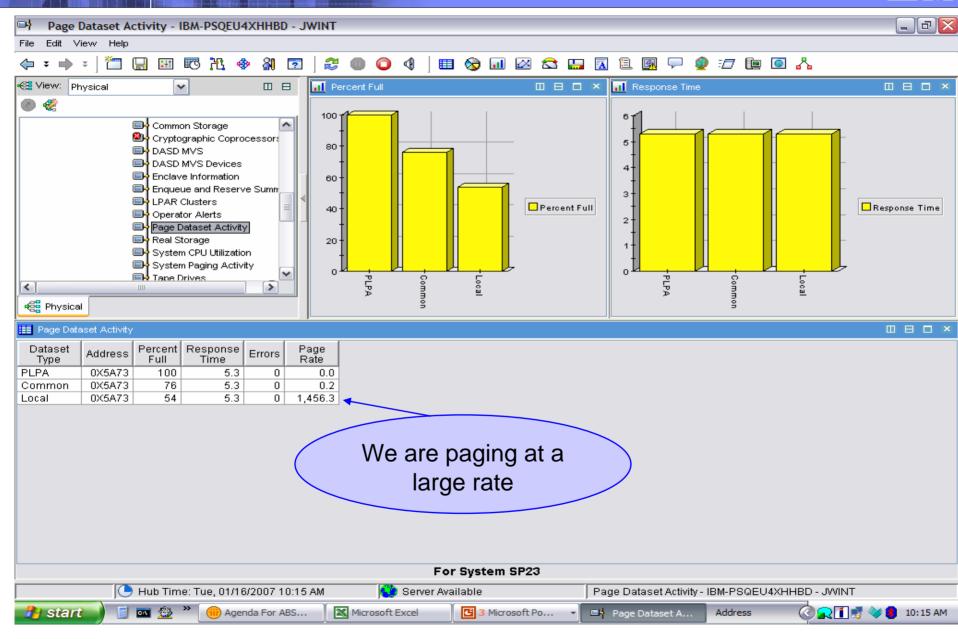




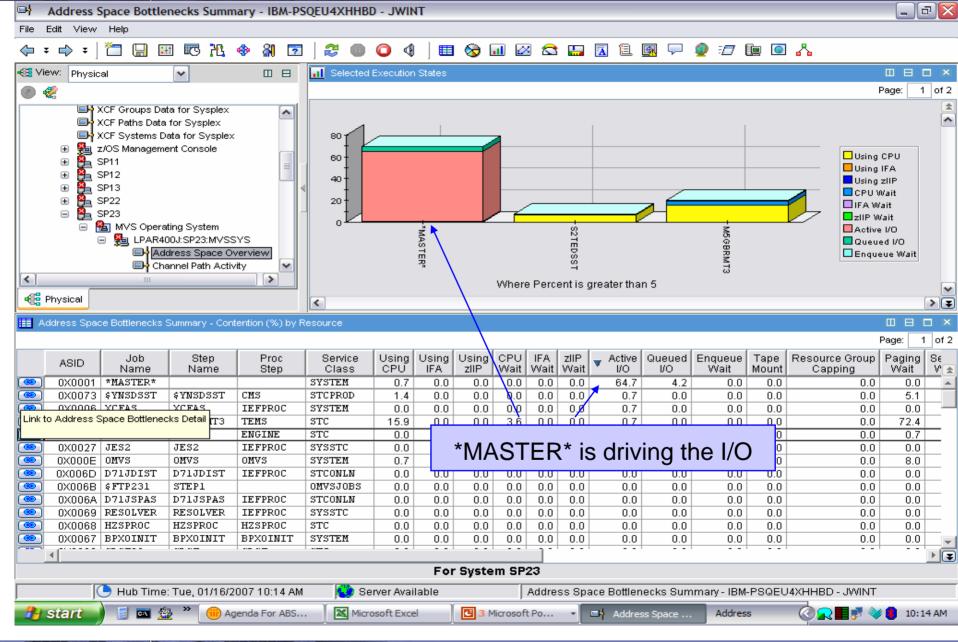




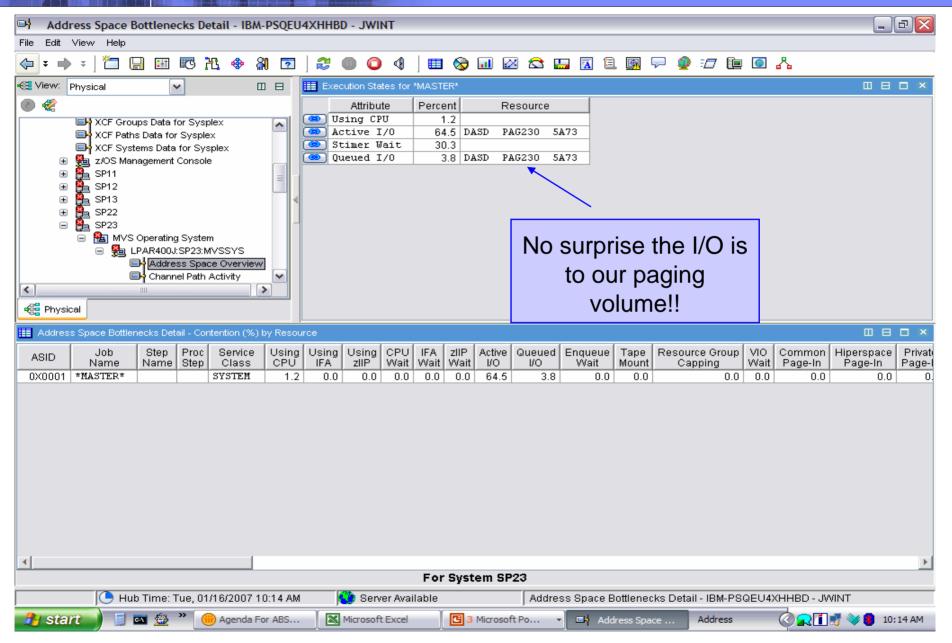




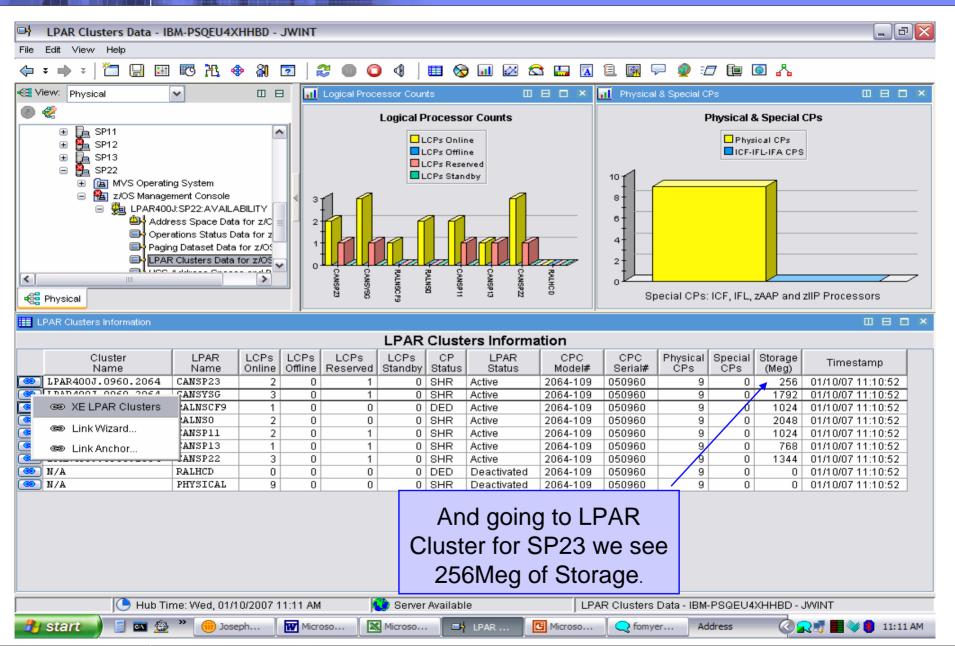




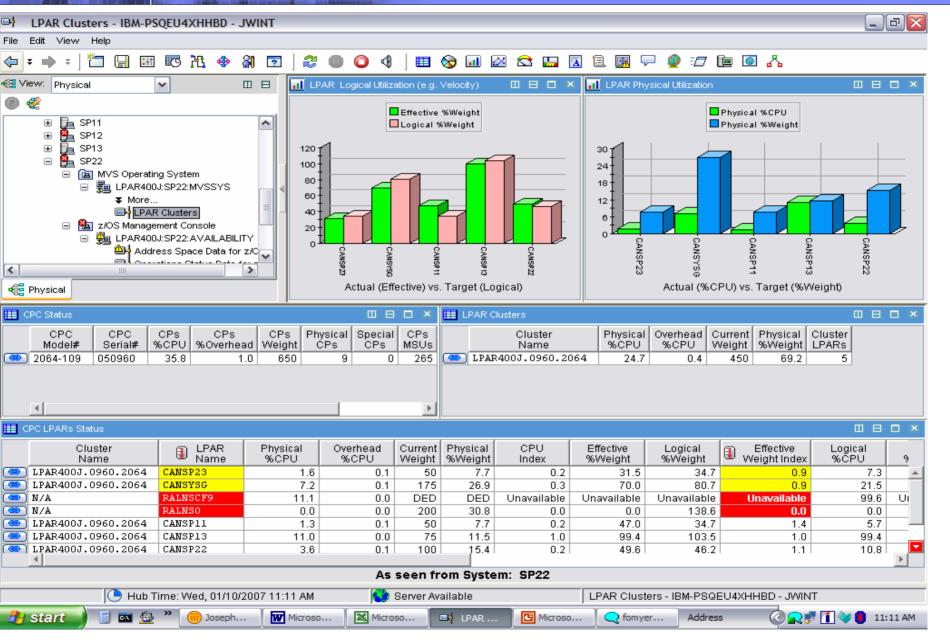




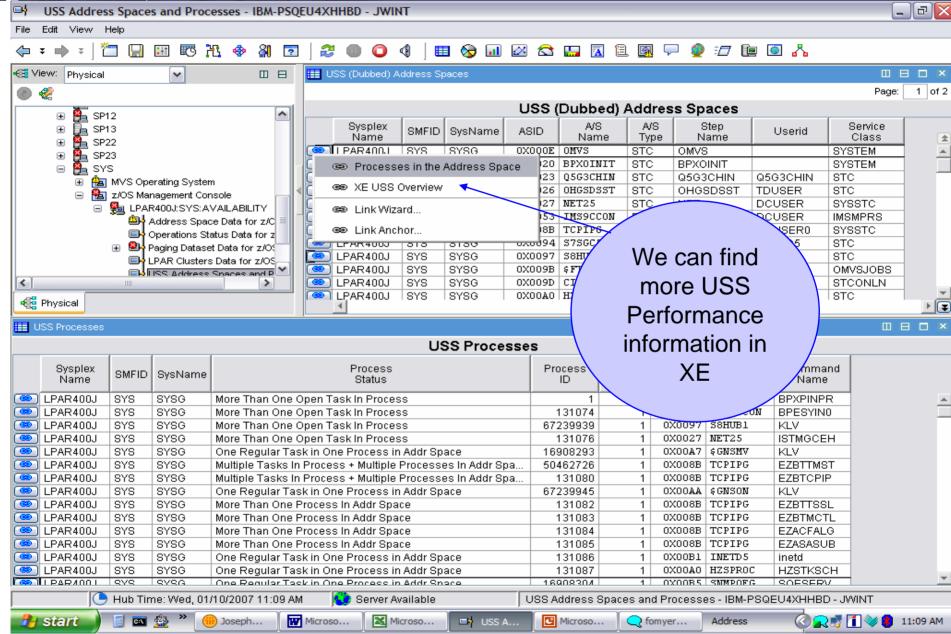




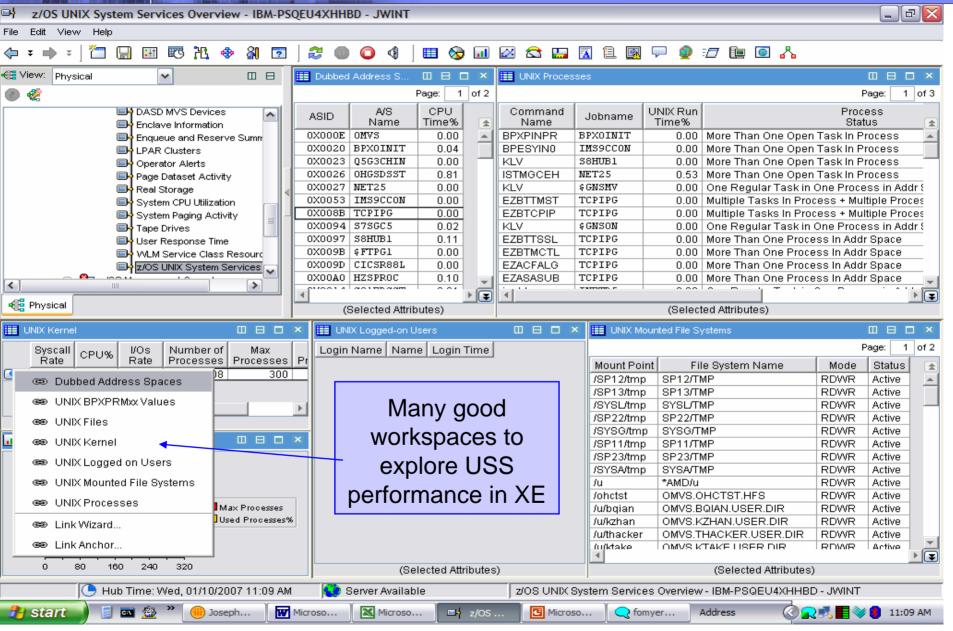




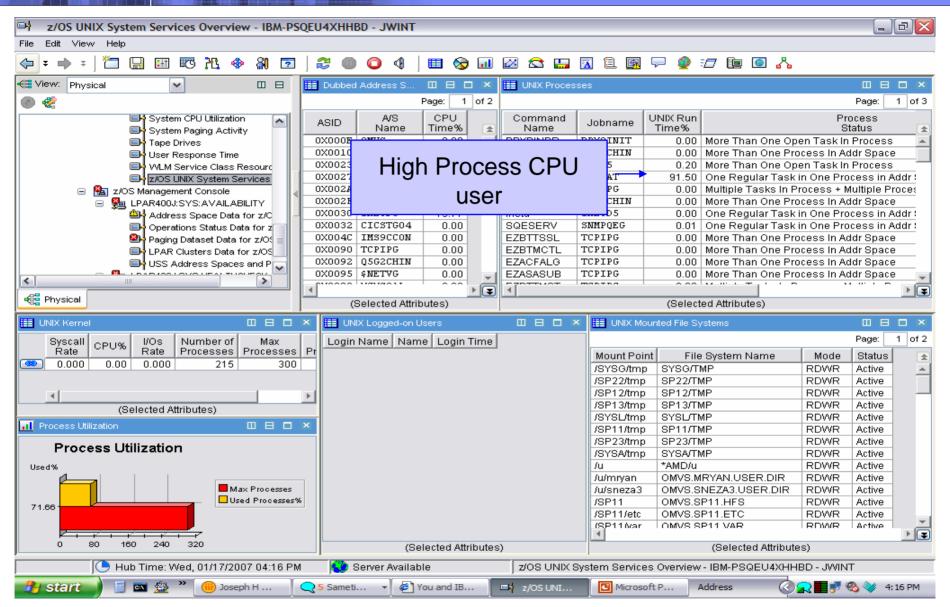




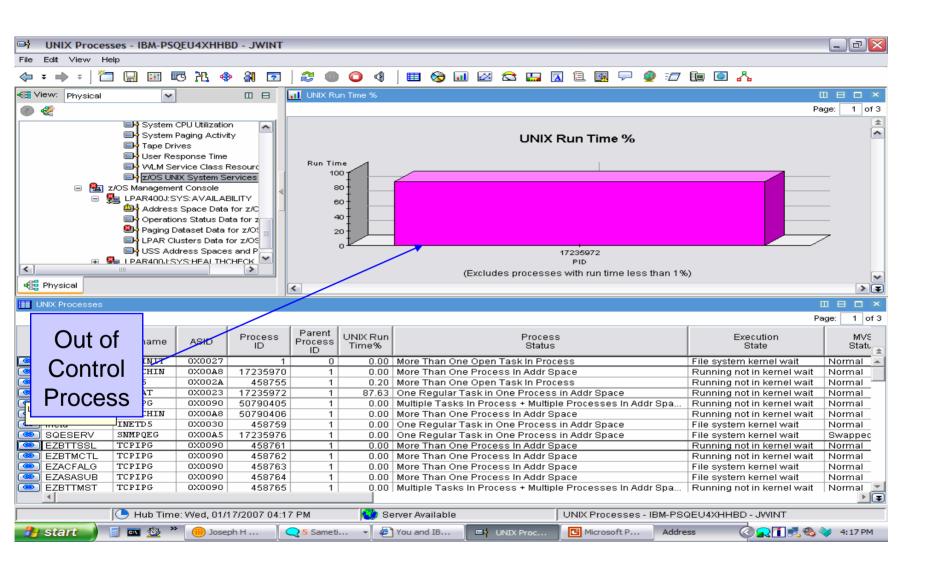




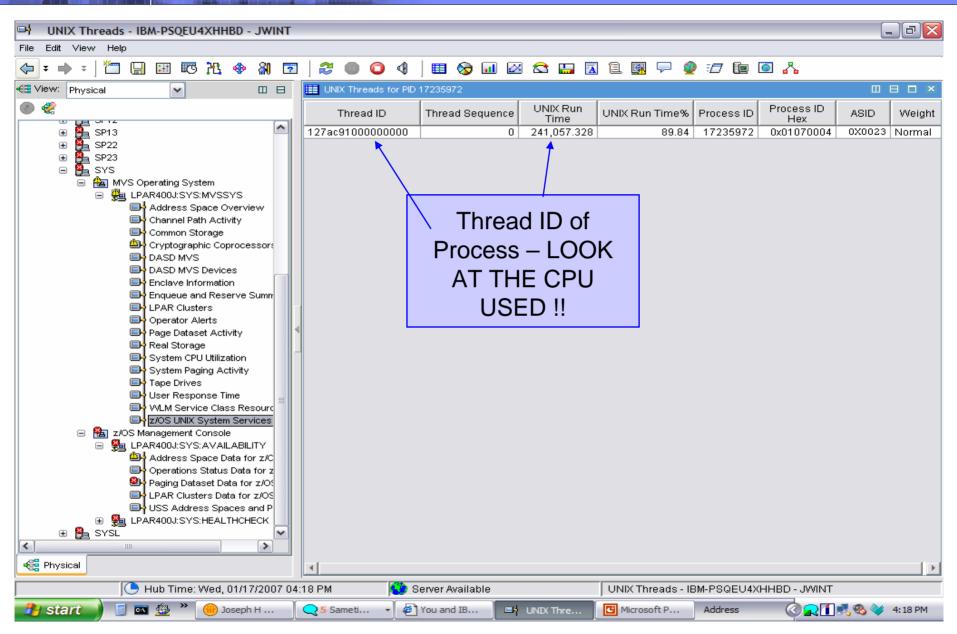




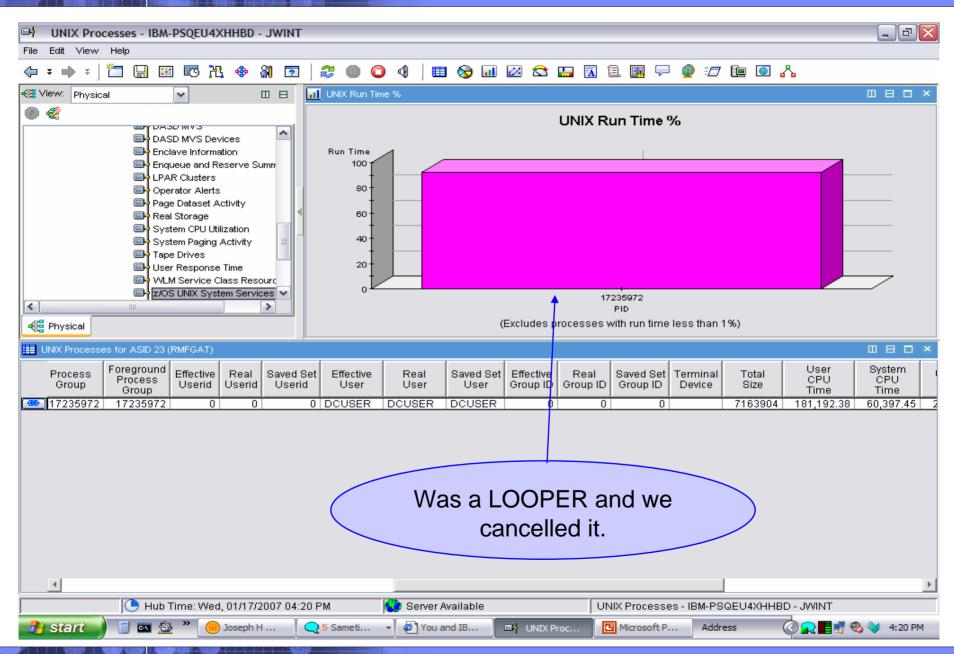














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