



## IBM OMEGAMON z/OS Management Console – What It Is and How to Give It a Test Drive.

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Today we have a nice interesting topic to cover in this session. First we will cover the IBM OMEGAMON z/OS Management Console product which is an introduction to the “new face on z/OS”. Then we will also discuss why you may want to give it a test drive. Then we will discuss the download and install if the IBM OMEGAMON z/OS Management Console 1.1.1 product.

## Agenda

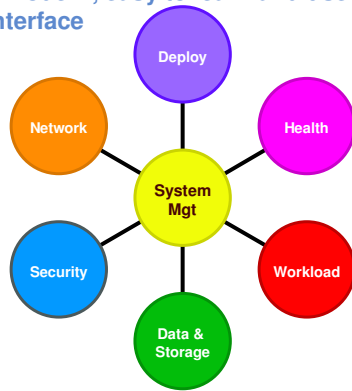
- **z/OS Systems Management**
  - ▶ New Face on z/OS
  - ▶ What is the OMEGAMON z/OS Management Console (zMC)?
  - ▶ How to test drive zMC
  - ▶ zMC 4.1.0 – next release information
  
- **OMEGAMON z/OS Management Console**
  - ▶ Getting going with zMC
  - ▶ Installation information
  - ▶ Product Publications

Here is the agenda for this session.

## 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 interface



### 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

Our goals are to eliminate or automate z/OS administrative and operational tasks for our users. Then if we simplify the tasks that remain with a modern, easy to learn and useful interface, z/OS management will be improved. We are looking to assist customers with tasks in each of these areas.

## Modernizing the “Face” of z/OS

### Today

**Expert-friendly, long learning curve for people new to platform**

- Multiple, inconsistent UIs – no central system management portal
- Many interfaces foreign to those new to platform
- Manual tasks requiring extensive documentation

### Tomorrow

System	Check	Check	Failed	Warn	Warn	Warn	Warn	Warn	Warn	Warn
LPAR0001	OSI	OSI - OS/390 - OS/390	OK	Yes	Yes	Yes	Yes	Yes	Yes	Yes
LPAR0002	OSI	OSI - OS/390 - OS/390	OK	Yes	Yes	Yes	Yes	Yes	Yes	Yes
LPAR0003	OSI	OSI - OS/390 - OS/390	OK	Yes	Yes	Yes	Yes	Yes	Yes	Yes
LPAR0004	OSI	OSI - OS/390 - OS/390	OK	Yes	Yes	Yes	Yes	Yes	Yes	Yes
LPAR0005	OSI	OSI - OS/390 - OS/390	OK	Yes	Yes	Yes	Yes	Yes	Yes	Yes
LPAR0006	OSI	OSI - OS/390 - OS/390	OK	Yes	Yes	Yes	Yes	Yes	Yes	Yes
LPAR0007	OSI	OSI - OS/390 - OS/390	OK	Yes	Yes	Yes	Yes	Yes	Yes	Yes
LPAR0008	OSI	OSI - OS/390 - OS/390	OK	Yes	Yes	Yes	Yes	Yes	Yes	Yes
LPAR0009	OSI	OSI - OS/390 - OS/390	OK	Yes	Yes	Yes	Yes	Yes	Yes	Yes
LPAR0010	OSI	OSI - OS/390 - OS/390	OK	Yes	Yes	Yes	Yes	Yes	Yes	Yes

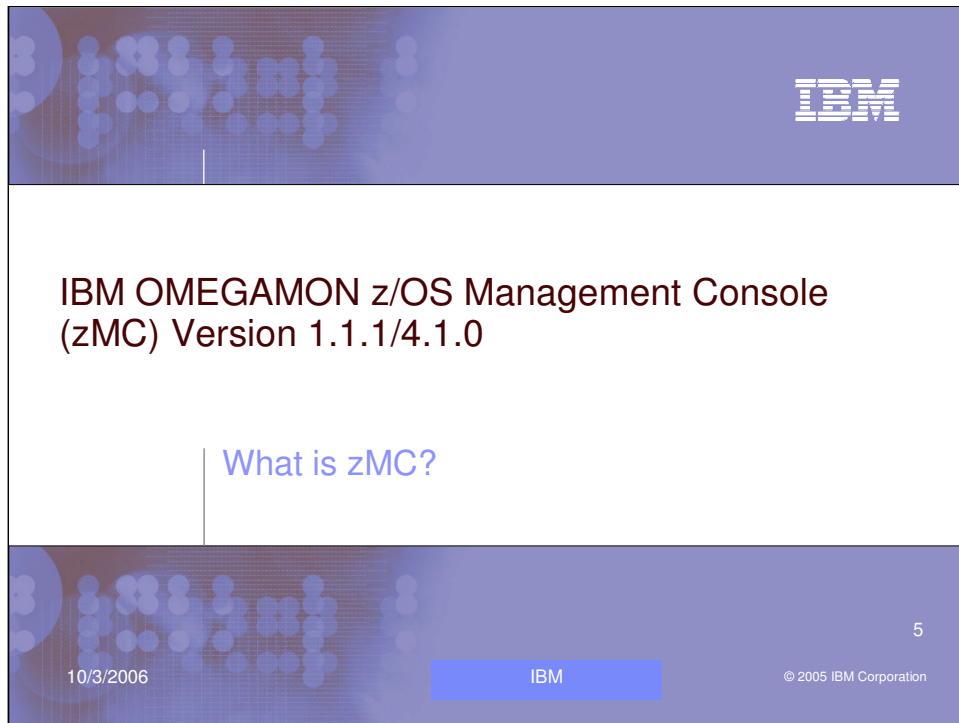
- ✓ **Central** z/OS management portal
- ✓ **Simplified, automated** task-oriented mgmt interface, with integrated user assistance
- ✓ **Modern** look & feel; more familiar to those new to platform
- ✓ Focus on **customer goals**
- ✓ **Optional** for those who prefer traditional interfaces

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There are many interfaces today for z/OS Management. While many are expert friendly they also have a long learning curve for people new to the z/OS platform. The many user interfaces are also inconsistent with no central kick off point of system management portal provided. To those new to the platform these interfaces may seem a little foreign. For any manual tasks we need to provide extensive documentation to help the users get the job done. This is not an ideal environment for bringing new users on to the platform.

We have moved to modernize the face of z/OS. We are moving to provide a central z/OS management portal that is a simplified interface. This interface is task oriented with user assistance. The new GUI has a modern look and fell and will be more familiar to new users on the platform. And OK for you power users who know today’s interfaces, we will keep this as an optional interface. The IBM OMEGAMON z/OS Management Console product is the beginning of modernizing the face of z/OS.





The image shows a presentation slide for IBM OMEGAMON z/OS Management Console (zMC) Version 1.1.1/4.1.0. The slide has a blue header and footer with a grid pattern. The main content area is white. The title is "IBM OMEGAMON z/OS Management Console (zMC) Version 1.1.1/4.1.0". Below the title is a blue question "What is zMC?". The footer contains the date "10/3/2006", the IBM logo, and the copyright notice "© 2005 IBM Corporation".

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IBM OMEGAMON z/OS Management Console  
(zMC) Version 1.1.1/4.1.0

What is zMC?

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Today, let me introduce you to IBM OMEGAMON z/OS Management Console (zMC) Version 1.1.1.

## IBM OMEGAMON® z/OS Management Console

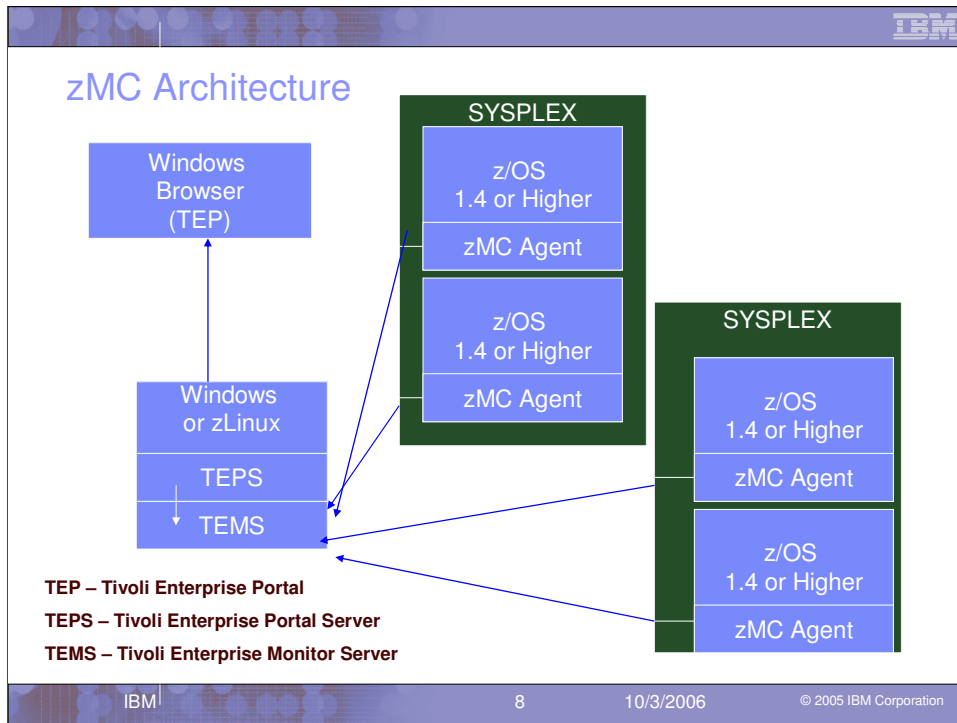
- Available at no charge for z/OS 1.4 and above
- Status of z/OS sysplexes and systems displayed using Tivoli® Enterprise Portal
- Integrated Health Checker reports
- Powerful features:
  - ▶ Event notification
  - ▶ Drill-down to problem details and expert advice
- Easy upgrade to comprehensive Tivoli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



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

## Version 1.1.1 – Available as of March 2006

- Provides functional data equivalency as current release of z/OS Health Checker
- Collects basic Sysplex and z/OS availability information
- Exploits Tivoli Enterprise Portal (TEP) capabilities
  - ▶ Enterprise Portal user interface
  - ▶ Situations and Events
  - ▶ Expert Advice
  - ▶ Built on TEP Intelligent Remote Agent (IRA) for z/OS LPAR data collection
  - ▶ Built on TEP “Probe” for Sysplex data collection
- Obtained via Download from Web @ no additional software cost to z/OS users
  - ▶ Installed and configured using standard ITM z/OS and Windows tools
  - ▶ Base configuration for OMEGAMON XE on z/OS or XE for z/OS Subsystem upgrade



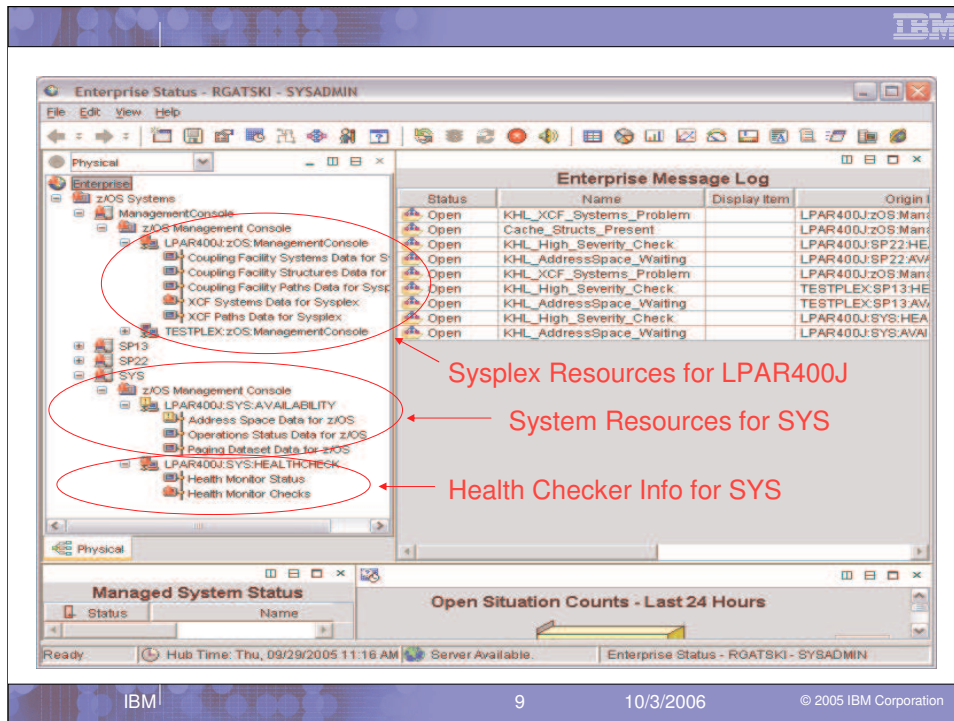
This slide shows an example of the overall architecture of the zMC product. Note that the TEMS can be configured to run in many different locations. This diagram just shows the potential for TEMS to be on Windows or Linux on System z. In fact, it can also run in z/OS as well as several other unix based platforms including Linux, SUN, HP, and AIX.

Also not shown is the potential for having remote TEMS which can be configured to run on one or more supported platforms. The use of remote TAMS is not needed for this particular application, however they can be used if installing into an environment that already has them defined.

TEPS currently runs on Windows or Linux on System z. This will be a user choice when installing the system.

As shown, multiple SYSPLEX environments can be monitored concurrently. Support will not be available for systems prior to z/OS 1.4.

The TEP can be run through a browser interface or by using the desktop client interface. Multiple TEP connections can be running concurrently with all of them connected to a single TEPS.



There are three major areas of information collected by the OMEGAMON z/OS Management Console product. The Sysplex Resource level which provides availability information at the Sysplex level. Then at the LPAR level we have availability information and the Health Checker collected information too. Now here you can see the power of the interface that allows red lights and yellow lights to be set when situations run against the tables collected by the zMC agent.

## 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:

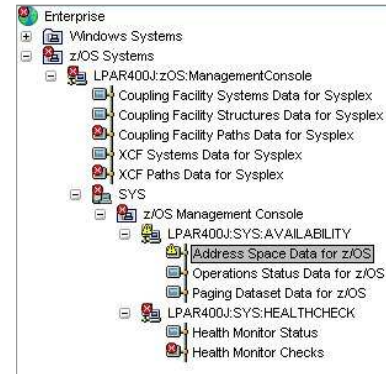
⊗ Critical, ⚠ Warning, or ⓘ Informational.

- User opens Event Workspace

- Gets more details about situation
- Reads expert advice (if provided)
- Takes action (optionally)



### Alerts appear in TEP Navigator:



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The goal here is to **show the integration of the Tivoli portal technology that sits on top of zMC**. This will bring a number of features **tuned towards the Subject Matter Expert**, including **situations that raise alerts (Critical, Warning or Informational) based on issues** that the user can then bring up the typical info they use to troubleshoot, a simple and flexible **graphing system** to make the metrics more digestible, and the ability to **link between views** to follow diagnostic techniques between subsystems. This base set of easy to use functions comes with both products I am going to discuss. It is a powerful easy to use interface now being used in many IBM offerings.

The image shows a screenshot of the IBM OMEGAMON z/OS Management Console. The interface has a dark blue header and footer with a grid pattern. The main content area is white. In the top right of the header is the IBM logo. The main content area contains the text "IBM OMEGAMON z/OS Management Console" and "Version 1.1.1/4.1.0". Below this, there is a blue link labeled "Health Checker Information". The footer contains the date "10/3/2006", the IBM logo, the page number "11", and the copyright notice "© 2005 IBM Corporation".

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IBM OMEGAMON z/OS Management Console  
Version 1.1.1/4.1.0

[Health Checker Information](#)

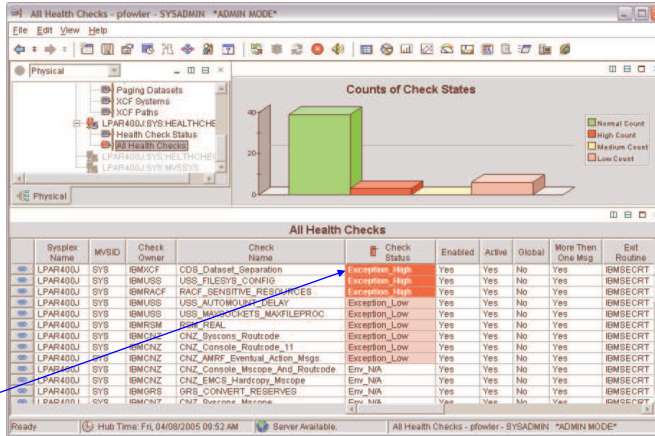
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Lets look in more detail at the Health Checker information provided.

## z/OS Health Checks in TEP with zMC 1.1.1/4.1.0

### zMC provides TEP based Health Checker

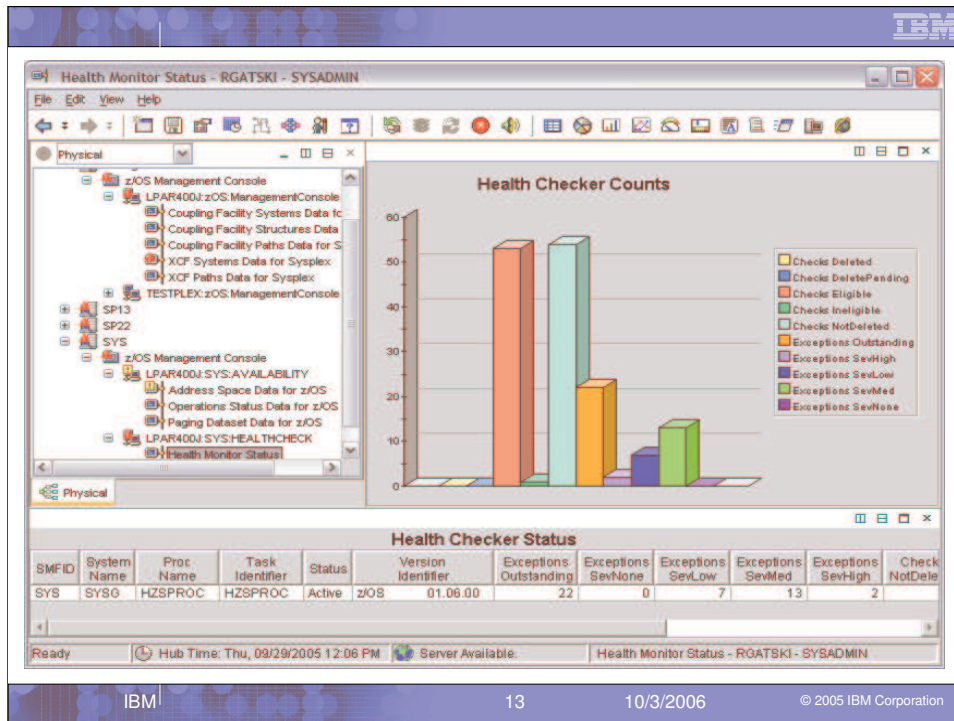
- Health Checker provides z/OS elements and products to check on configuration values and report what may be a deviation from best practices
- Displays health check statistics on the TEP
- Highlights check status
- Health Checker in SDSF is more text based (web download before z/OS 1.7)



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

The IBM OMEGAMON z/OS Management Console (zMC) offering provides the Health Checker information provided by in z/OS SDSF in the GUI interface of TEP. With z/OS 1.7 Health Checker is shipped with z/OS and when you use zMC you can see the check run status and also get the check details too. The Health Checker provides checking of z/OS best practices to your z/OS configuration values and reports on deviations.



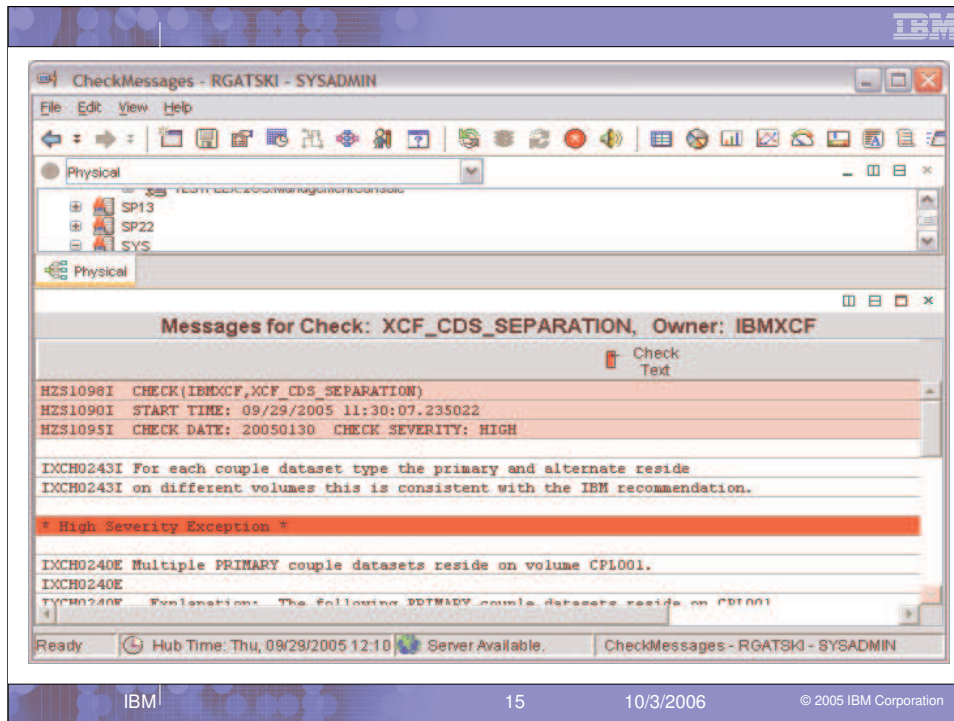


The zMC Health Monitor Status view gives an overview of the number of checks run and exceptions by severity code. Also it provides LPAR system information like SMFID, System name and z/OS version. If you want to take a more detailed look at the checks you would look at the next view.

The screenshot displays the 'Health Monitor Checks' application. The 'Health Checker Checks' table is as follows:

Check Owner	Check Name	Check State	Check Status	Result	Diag1
IBMXCF	XCF_CDS_SEPARATION	ACTIVE(ENABLED)	EXCEPTION-HIGH	12	00000000
IBMRACF	RACF_SENSITIVE_RESOURCES	ACTIVE(ENABLED)	EXCEPTION-HIGH	12	00000000
IBM CNZ	CNZ_SYSCONS_MSCOPE	ACTIVE(ENABLED)	EXCEPTION-MEDIUM	8	00000000
IBMUSS	USS_AUTOMOUNT_DELAY	ACTIVE(ENABLED)	EXCEPTION-MEDIUM	8	00000000
IBMUSS	USS_FILESYS_CONFIG	ACTIVE(ENABLED)	EXCEPTION-MEDIUM	8	00000000
IBMXCF	XCF_SFM_ACTIVE	ACTIVE(ENABLED)	EXCEPTION-MEDIUM	8	00000000
IBMXCF	XCF_SIG_STR_SIZE	ACTIVE(ENABLED)	EXCEPTION-MEDIUM	8	00000000
IBMXCF	XCF_CF_STR_PREFLIST	ACTIVE(ENABLED)	EXCEPTION-MEDIUM	8	00000000
IBMXCF	XCF_FDI	ACTIVE(ENABLED)	EXCEPTION-MEDIUM	8	00000000

In the Health Monitor Checks view you can see information on each check run including the check status code of high, medium, low or successful. You can see the LINK button on the left that will allow a drill down on a specific check for the real details on the check. So if we click on this LINK button for the XCF\_CDS\_SEPARATION check, lets see what we get.



This view in the detail information back from the check. We can see check start time, date, and severity. Then the text explains your values or information compared to the best practices. On this check we have multiple PRIMARY couple datasets on the same volume. This is not good if the volume has issues. We would have better availability if we split them on different volumes.

So there is a wealth of information on your system compared to best practices with the details from the many checks provided by the Health Checker. zMC provides the information in this GUI format and allows you to get Red and Yellow alerts via the situations run against the check data.



The slide features a dark blue header and footer with a grid of light blue dots. The IBM logo is in the top right. The main content area is white with the title 'IBM OMEGAMON z/OS Management Console Version 1.1.1/4.1.0' and a blue link 'LPAR Availability Information'. The footer contains the date '10/3/2006', the IBM logo, the page number '16', and the copyright notice '© 2005 IBM Corporation'.

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IBM OMEGAMON z/OS Management Console  
Version 1.1.1/4.1.0

[LPAR Availability Information](#)

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Lets take a look at the LPAR level availability information provided by zMC.

Address Space Data for z/OS - RGATSKI - SYSADMIN

View: Physical

Address Space Information

Job	Step Name	Proc Step	SvcClass	SvcClass Period	ASID	JESJOBID	W
*MASTER*			SYSTEM	1	0x0001	STC16572	Workin
PCAUTH	PCAUTH		SYSSTC	1	0x0002		Workin
RASP	RASP		SYSTEM	1	0x0003		Workin
TRACE	TRACE		SYSTEM	1	0x0004		Workin
DUMPSRV	DUMP-SRV	DUMPSRV	SYSTEM	1	0x0005		Workin
XCFAS	XCFAS	IEFPROC	SYSTEM	1	0x0006		Workin
GRS	GRS		SYSTEM	1	0x0007		Workin
SMSPDSE	SMSPDSE		SYSTEM	1	0x0008		Workin
SMVSAM	SM						Workin
CONSOLE	CONSOLE						Workin
WLM	WLM						Workin
ANTMAIN	A						Workin
ANTAS000	A						Workin
OMVS	C						Workin
IEFBCHAS	B						Workin
JESXCF	J						Workin
ALOCAS	A						Workin
KUSAS	J						Workin
DGLOOR	E						Workin
SMS	E						Workin
SMF	E						Workin
\$AFOP22	A						Workin
ASCH	AS						Workin
ATTRRS	ATTRRS	RRS	STC	2	0x0019		Workin
JES2MON	JES2MON	IEFPROC	SYSTEM	1	0x001A		Workin
TCPIP22	TCPIP22	TCPIP	SYSSTC	1	0x001B	STC16658	Workin
JES2	JES2	IEFPROC	SYSSTC	1	0x001C		Workin
LLA	LLA	LLA	SYSSTC	1	0x001D		Workin
LOGROUTE	LOGROUTE	LOGROUTE	STCPROD	1	0x001E	STC16564	Workin
HLDS22	HLDS22	TEMS	STCCMS	2	0x001F	STC16902	Workin
RMF22	RMF	IEFPROC	SYSSTC	1	0x0020	STC16567	Workin
VLF	VLF	VLF	SYSSTC	1	0x0021		Workin

LPAR-level reports are divided into AVAILABILITY and HEALTHCHECK nodes

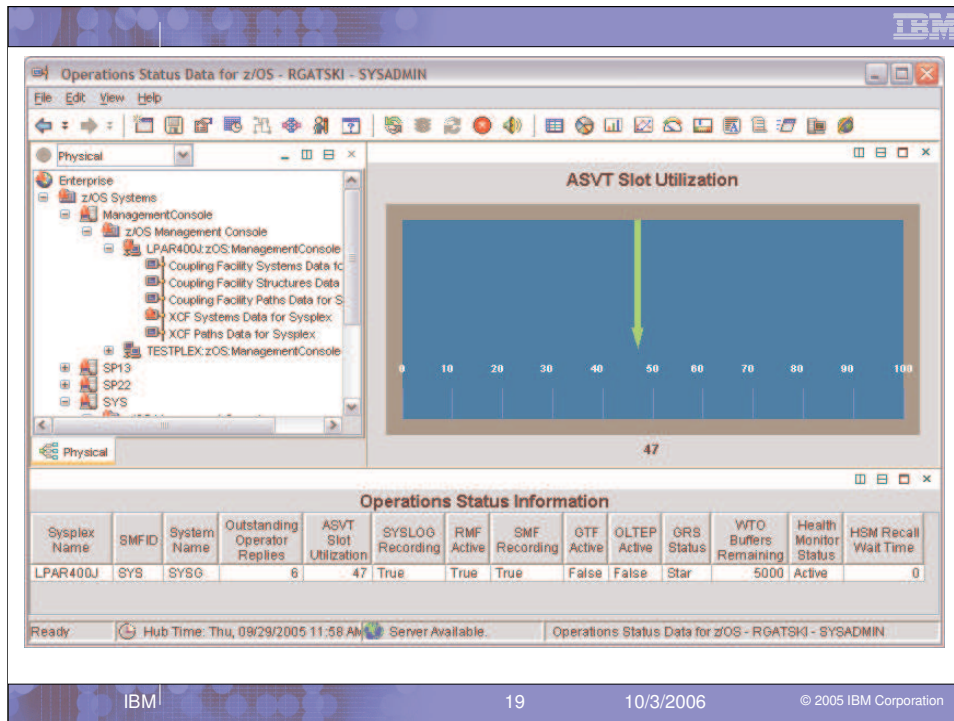
Hub Time: mar, 09/29/2006 09:41 AM Server Available Address Space Data for z/OS - RGATSKI - SYSADMIN

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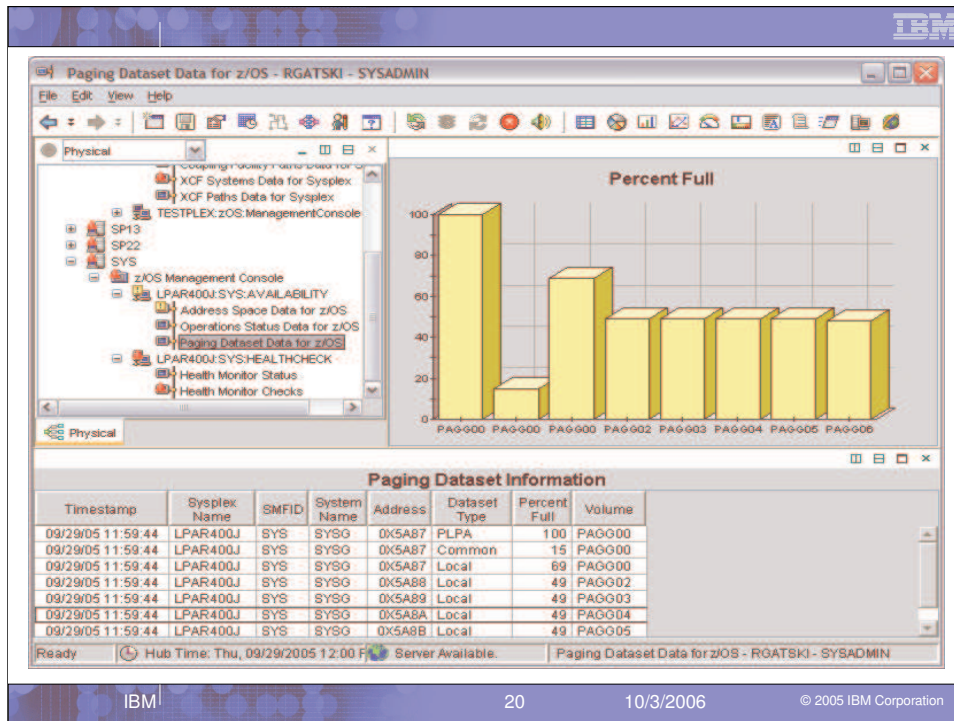
Job Name	Step Name	Proc Step	SvcClass	SvcClass Period	ASID	JESJOBID	Working
*MASTER*			SYSTEM	1	0x0001	STC24674	Working
PCAUTH	PCAUTH		SYSSTC	1	0x0002		Working
RASP	RASP		SYSTEM	1	0x0003		Working
TRACE	TRACE		SYSTEM	1	0x0004		Working
DUMPSRV	DUMPSRV	DUMPSRV	SYSTEM	1	0x0005		Working
XCFAS	XCFAS	IEFPROC	SYSTEM	1	0x0006		Working
GRS	GRS		SYSTEM	1	0x0007		Working
SMSPDSE	SMSPDSE		SYSTEM	1	0x0008		Working
SMSVSAM	SMSVSAM	IEFPROC	SYSTEM	1	0x0009		Working
CONSOLE	CONSOLE		SYSTEM	1	0x000A		Working
WLM	WLM	IEFPROC	SYSTEM	1	0x000B		Working
ANTMAIN	ANTMAIN	IEFPROC	SYSTEM	1	0x000C		Working
ANTAS000	ANTAS000	IEFPROC	SYSSTC	1	0x000D		Working
OMVS	OMVS	OMVS	SYSTEM	1	0x000E		Working
IEFSCHAS	IEFSCHAS		SYSTEM	1	0x0010		Working
JESXCF	JESXCF	IEFPROC	SYSTEM	1	0x0011		Working
ALLOCAS	ALLOCAS		SYSTEM	1	0x0012		Working
IOSAS	IOSAS	IEFPROC	SYSTEM	1	0x0013		Working
IXGLOGR	IXGLOGR	IEFPROC	SYSTEM	1	0x0014		Working
SMS	SMS	IEFPROC	SYSSTC	1	0x0015		Working
SMF	SMF	IEFPROC	SYSTEM	1	0x0016		Working
\$AFOPG	AFOPER	OGEXEC	STCPROD	1	0x0017	STC24664	Working
ASCH	ASCH	ASCH	SYSSTC	1	0x0018		Working

In the Address Space Information view you can see all the address spaces on this LPAR. Besides Job name, Step name, Proc name, Service Class, Service Class Period, ASID and JESJOBID, we provide a working or waiting indicator. While many Address Spaces may be in a normal wait for work or waiting for user input, if a system starts having a major issue the number of Address Spaces waiting could start to increase due to the issue.



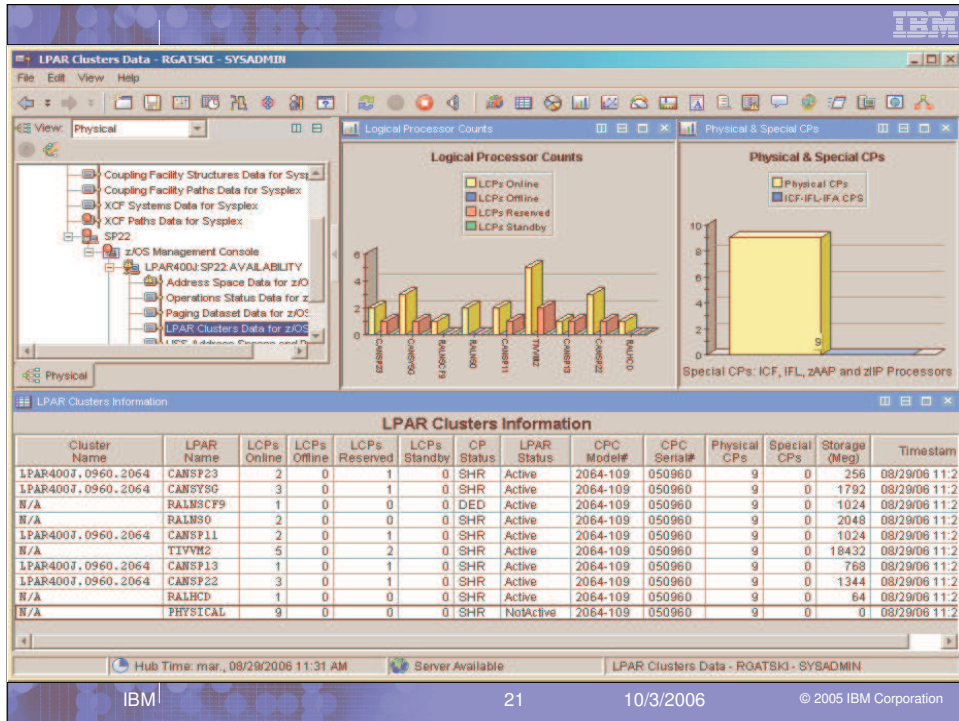


This is the Operations Status overview of an LPAR. It provides information that affects overall operations of a LPAR. Items like SMF Recording issues, GTF Active, ASVT Slot usage, Outstanding Operator replies all can have a major impact on the operations of a system. Many of our default situations are checking the details in this table looking for issues to alert you on.



The Paging Dataset view gives an update on all the paging datasets and the major item provided here is the percent full of each of the local datasets. As if they all became full, you could be in for a big problem.





USS Address Spaces and Processes - RGATSKI - SYSADMIN

View: Physical

USS (Dubbed) Address Spaces

Sysplex Name	SMFID	SysName	ASID	AVS Name	AVS Type	Step Name	Userid	Service Class
LPAR400J	SP22	SP22	00000E	OMVS	STC	OMVS		SYSTEM
LPAR400J	SP22	SP22	00001B	TCPIP22	STC	TCPIP22	TCPIP22	SYSBTC
LPAR400J	SP22	SP22	00001F	HLD522	STC	HLD522	HLD522	STCCMS
LPAR400J	SP22	SP22	000022	\$2NSD5ST	STC	\$2NSD5ST	\$2NSD5ST	STCPROD
LPAR400J	SP22	SP22	000026	NET36	STC	NET	NET36	SYSBTC
LPAR400J	SP22	SP22	000076	BPX0INIT	STC	BPX0INIT		SYSTEM
LPAR400J	SP22	SP22	000078	HLAG22	STC	HLAG22	HLAG22	STC
LPAR400J	SP22	SP22	000080	MQRGCHIN	STC	MQRGCHIN	MQRGCHIN	STC
LPAR400J	SP22	SP22	000081	SYSLOGD7	APPC	STEP1	BPX0INIT	OMVSDAEM
LPAR400J	SP22	SP22	000082	S3CMS11	STC	S3CMS11	S3CMS11	STC
LPAR400J	SP22	SP22	000083	\$PORT22	STC	\$PORT22	\$PORT22	STCPROD
LPAR400J	SP22	SP22	000084	OSNMPD22	STC	OSNMPD22	OSNMPD22	STC
LPAR400J	SP22	SP22	000085	IOBSNMP	STC	IOBSNMP	IOBSNMP	STC
LPAR400J	SP22	SP22	000086	SNMPQE22	STC	SNMPQE22	SNMPQE22	SYSBTC

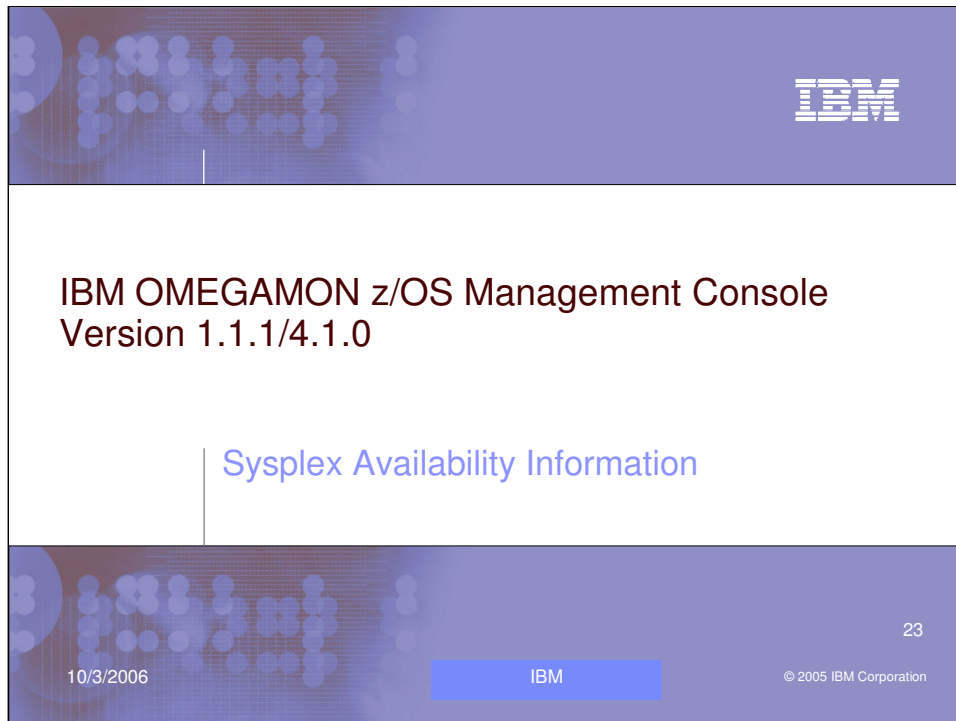
USS Processes

Sysplex Name	SMFID	SysName	Process Status	Process ID	Parent Process ID	ASID	Jobname	Command Name
LPAR400J	SP22	SP22	More Than One Open Task In Process	1	0	000076	BPX0INIT	BXPINPR
LPAR400J	SP22	SP22	More Than One Process In Addr Space	17104898	1	000080	MQRGCHIN	C5QXJST
LPAR400J	SP22	SP22	Multiple Tasks In Process + Multiple Processes In Addr Spa...	327683	1	00001B	TCPIP22	EZBTCPIP
LPAR400J	SP22	SP22	More Than One Process In Addr Space	33852116	1	000080	MQRGCHIN	C5QXDISP
LPAR400J	SP22	SP22	More Than One Process In Addr Space	327685	1	00001B	TCPIP22	EZBTSSL
LPAR400J	SP22	SP22	More Than One Process In Addr Space	327686	1	00001B	TCPIP22	EZBTMCTL
LPAR400J	SP22	SP22	More Than One Process In Addr Space	327687	1	00001B	TCPIP22	EZACFALG
LPAR400J	SP22	SP22	More Than One Process In Addr Space	327688	1	00001B	TCPIP22	EZASASUB
LPAR400J	SP22	SP22	Multiple Tasks In Process + Multiple Processes In Addr Spa...	327688	1	00001B	TCPIP22	EZBTMST
LPAR400J	SP22	SP22	More Than One Process In Addr Space	84713770	1	000080	MQRGCHIN	C5QXDISP

Hub Time: mar, 08/29/2006 11:33 AM Server Available

USS Address Spaces and Processes - RGATSKI - SYSADMIN

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IBM OMEGAMON z/OS Management Console  
Version 1.1.1/4.1.0

Sysplex Availability Information

10/3/2006

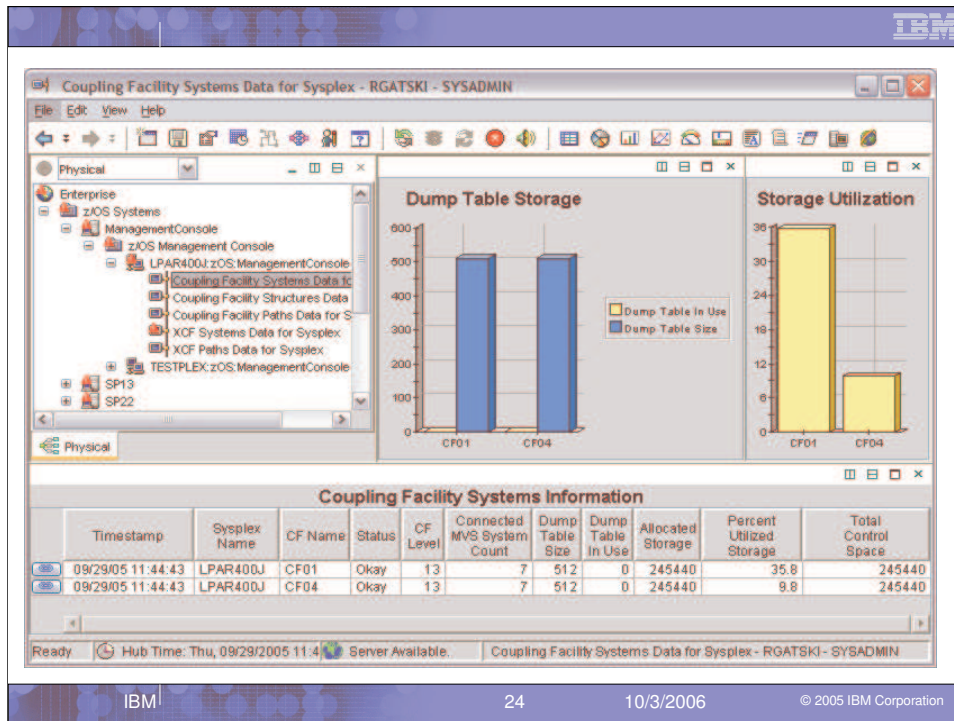
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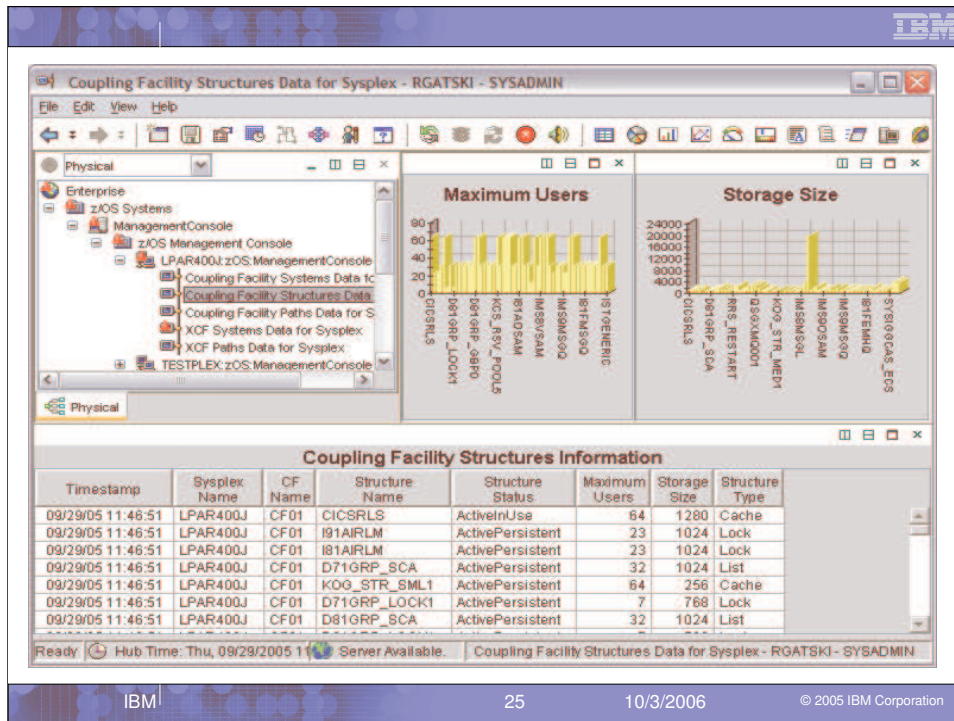
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Lets now view the Sysplex Availability information.



This view looks at the Coupling Facility Systems information on the LPAR400J sysplex. Items like CF Name, Level, Status, Number of z/OS connections, Allocated Storage and Percent Utilized are in this table. With the LINK button of the left you can look at the structures in the specific Coupling Facility.



The Coupling Facility Structures Data view shows each structure on the CF and items like Name, Status, Max users, Size and Type for the specific structure. Now with the TEP interface you can click on a column and sort it, for example it is simple to sort on Storage size so you can see the largest sized structures quickly.



Enterprise

- z/OS Systems
  - LPAR400J.z/OS.ManagementConsole
    - Coupling Facility Policy Data for Sysplex
    - Coupling Facility Systems Data for Sysplex
    - Coupling Facility Structures Data for Sysplex
    - Coupling Facility Paths Data for Sysplex
    - XCF Systems Data for Sysplex
    - XCF Paths Data for Sysplex
    - SYS
      - z/OS Management Console
        - LPAR400J.SYS.AVAILABILITY
          - Address Space Data for z/OS

Maximum Users

Storage Size

Coupling Facility Structures Information

Timestamp	Sysplex Name	CF Name	Structure Name	Page Size	Structure Type	Duplex	Auto Alter
08/16/06 16:31:19	LPAR400J	CF01	ISGLOCK	4096	List	Disabled	Yes
08/16/06 16:31:19	LPAR400J	CF01	SYSI0GCAS_ECS	64	List	Disabled	Yes
08/16/06 16:31:19	LPAR400J	CF01	IGWLOCK00	12	List	Disabled	Yes
08/16/06 16:31:19	LPAR400J	CF01	RRS_RM_DATA	32	List	Disabled	Yes
08/16/06 16:31:19	LPAR400J	CF01	RRS_MAIN_UR	32	List	Disabled	Yes
08/16/06 16:31:19	LPAR400J	CF01	RRS_DELAYED_UR	32	List	Disabled	Yes
08/16/06 16:31:19	LPAR400J	CF01	RRS_RESTART	32	List	Disabled	Yes
08/16/06 16:31:19	LPAR400J	CF01	RRS_ARCHIVE	32	List	Disabled	Yes

Hub Time: Wed, 08/16/2006 04:31 PM Server Available

Coupling Facility Structures Data for Sysplex - RGATSKI - SYSADMIN

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Enterprise

- z/OS Systems
  - LPAR400J.z/OS.ManagementConsole
    - Coupling Facility Policy Data for Sysplex
    - Coupling Facility Systems Data for Sysplex
    - Coupling Facility Structures Data for Sysplex
    - Coupling Facility Paths Data for Sysplex
    - XCF Systems Data for Sysplex
    - XCF Paths Data for Sysplex
  - SYS
    - z/OS Management Console
      - LPAR400J.SYS.AVAILABILITY
      - Address Space Data for z/OS

View: Physical

Maximum Users

Storage Size

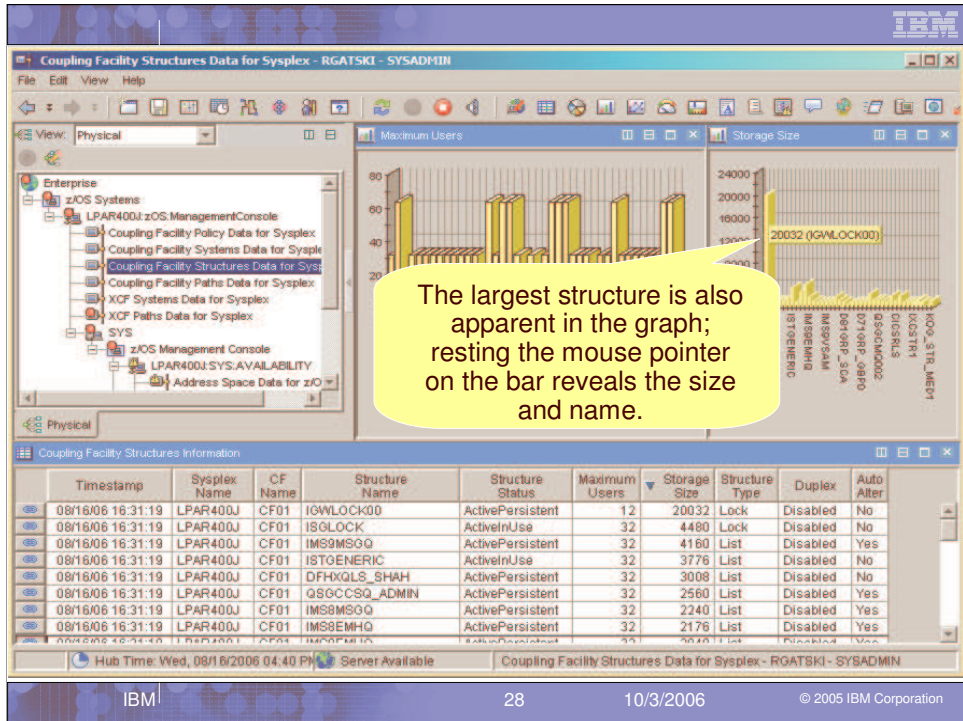
A single click sorts the table.

Coupling Facility Structures Information

Timestamp	Sysplex Name	CF Name	Structure Name	Structure Status	Maximum Users	Storage Size	Structure Type	Duplex	Auto Alter
08/18/06 18:31:19	LPAR400J	CF01	ISGLOCK00	ActivePersistent	12	20032	Lock	Disabled	No
08/18/06 18:31:19	LPAR400J	CF01	ISGLOCK	ActiveInUse	32	4480	Lock	Disabled	No
08/18/06 18:31:19	LPAR400J	CF01	IMS9MSOQ	ActivePersistent	32	4160	List	Disabled	Yes
08/18/06 18:31:19	LPAR400J	CF01	ISTOENERIC	ActiveInUse	32	3776	List	Disabled	No
08/18/06 18:31:19	LPAR400J	CF01	DFHXQLS_SHAH	ActivePersistent	32	3008	List	Disabled	No
08/18/06 18:31:19	LPAR400J	CF01	QSGCCSQ_ADMIN	ActivePersistent	32	2560	List	Disabled	Yes
08/18/06 18:31:19	LPAR400J	CF01	IMS9MSOQ	ActivePersistent	32	2240	List	Disabled	Yes
08/18/06 18:31:19	LPAR400J	CF01	IMS9EMHQ	ActivePersistent	32	2176	List	Disabled	Yes
08/18/06 18:31:19	LPAR400J	CF01	IMS9EMHQ	ActivePersistent	32	2040	List	Disabled	Yes

Hub Time: Wed, 08/18/2006 04:35 PM Server Available

Coupling Facility Structures Data for Sysplex - RGATSKI - SYSADMIN





Users of CF Structure - RGATSKI - SYSADMIN

View: Physical

- Coupling Facility Systems Data for Sysplex
  - Coupling Facility Systems Data for Sysplex
  - Coupling Facility Paths Data for Sysplex
  - XCF Systems Data for Sysplex
  - XCF Paths Data for Sysplex
- SP22
  - z/OS Management Console
    - LPAR400J:SP22:AVAILABILITY
      - Address Space Data for z/OS
      - Operations Status Data for z/OS
      - Paging Dataset Data for z/OS
      - LPAR Clusters Data for z/OS
      - USS Address Spaces and Processes
    - LPAR400J:SP22:HEALTHCHECK

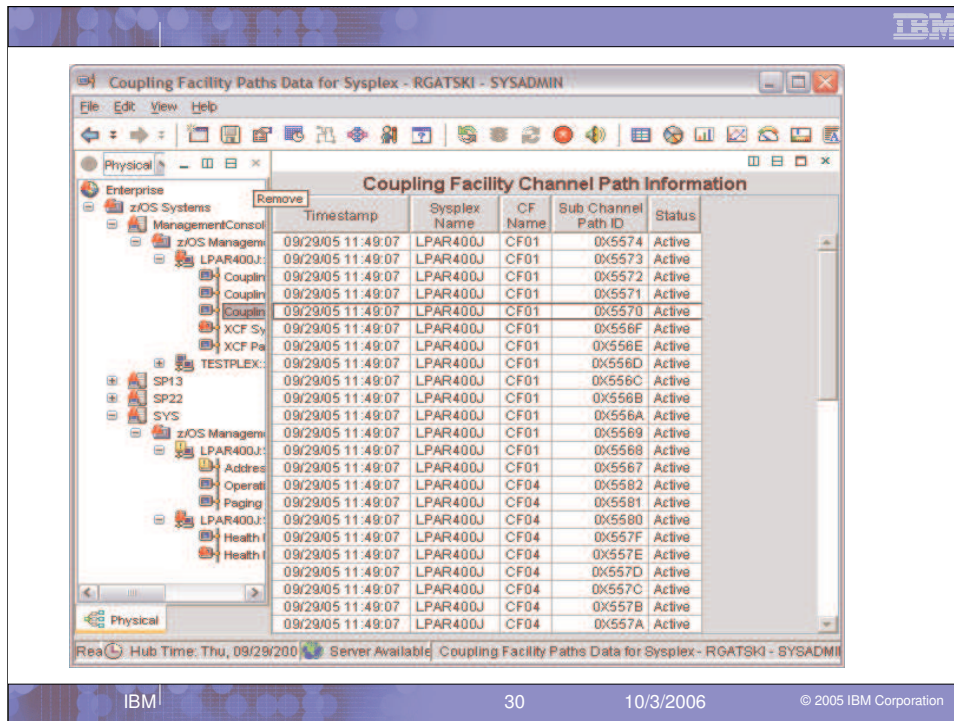
Physical

Users of CF Structure ISGLOCK

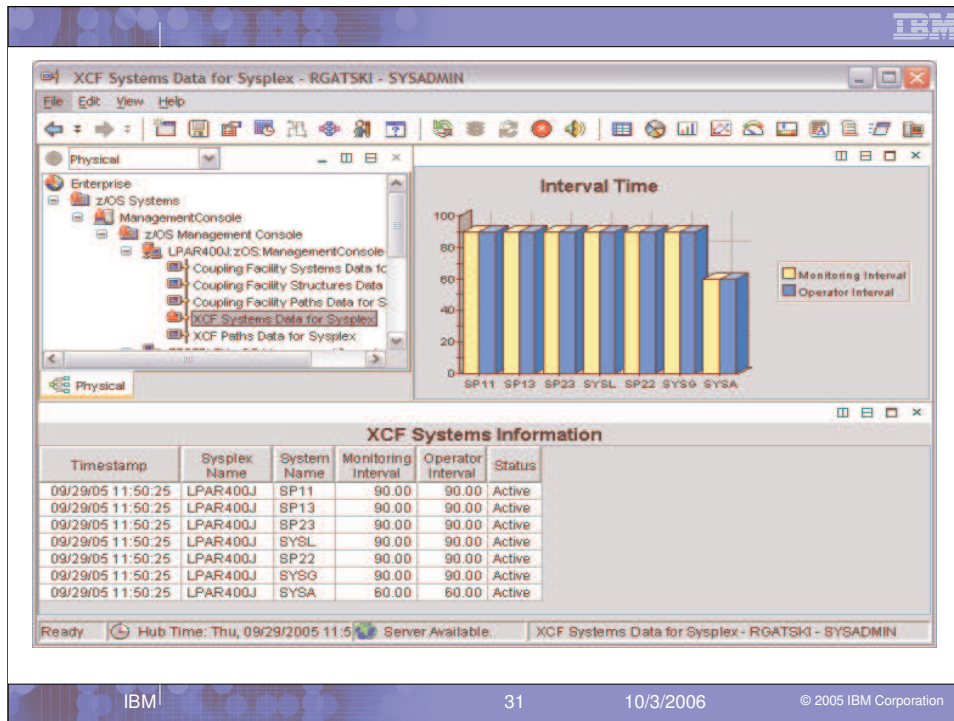
Address Space	ASID	Connection Name	System Name	Connection Status	AllowRebuild	Allow User Managed Duplexing	AllowAlter	Allow System Managed Processing	Suspend
GRS	0X0007	ISGLOCK#SP11	SP11	Active	Yes	No	No	No	N/A
GRS	0X0007	ISGLOCK#SP12	SP12	Active	Yes	No	No	No	N/A
GRS	0X0007	ISGLOCK#SP13	SP13	Active	Yes	No	No	No	N/A
GRS	0X0007	ISGLOCK#SP23	SP23	Active	Yes	No	No	No	N/A
GRS	0X0007	ISGLOCK#SP22	SP22	Active	Yes	No	No	No	N/A
GRS	0X0007	ISGLOCK#SYSL	SYSL	Active	Yes	No	No	No	N/A
GRS	0X0007	ISGLOCK#SYSG	SYSG	Active	Yes	No	No	No	N/A
GRS	0X0007	ISGLOCK#SYSA	SYSA	Active	Yes	No	No	No	N/A

Hub Time: mer., 09/06/2006 02:45 PM    Server Available    Users of CF Structure - RGATSKI - SYSADMIN

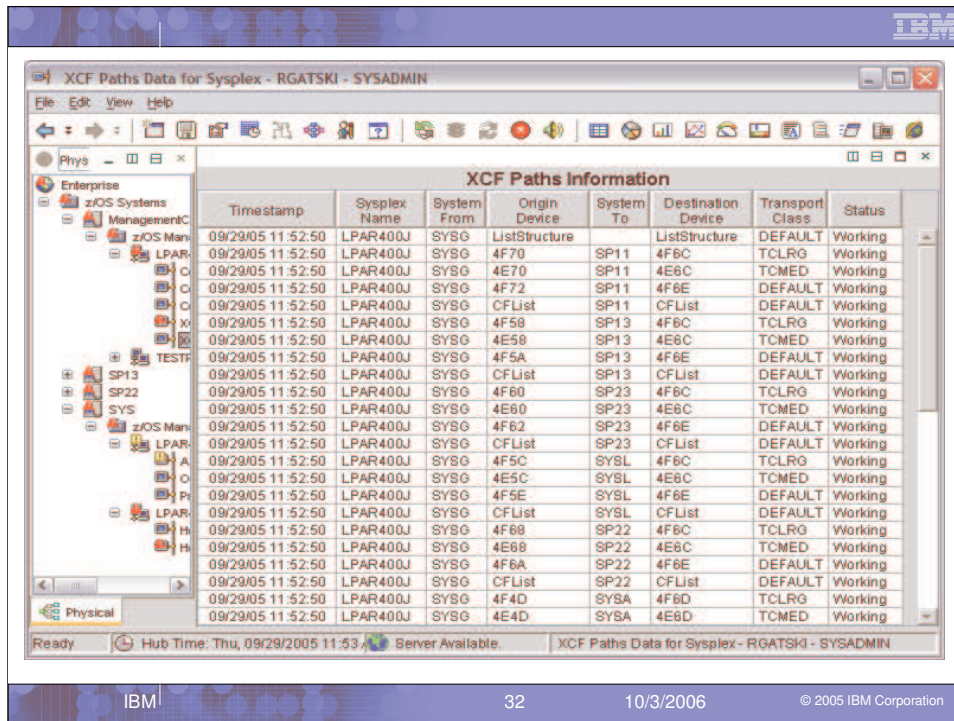
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In the Coupling Facility Paths view we are able to see the Sub Channel Path ID and the status of the path to the Coupling facilities.



The XCF Systems view shows the Systems in the Sysplex and the current XCF status.



In the XCF Paths view we can see for the Sysplex who is talking to whom and which Transport class is being used. The status of the path is also provided.

We have now completed our discussion of the availability information collected by zMC.

XCF Paths Data for Sysplex - RGATSKI - SYSADMIN

File Edit View Help

View: Physical

XCF Paths Information

Sysplex Name	System From	Origin Device	System To	Destination Device	Transport Class	Status
LPAR400J	SYSG	ListStructure	SP11	ListStructure	DEFAULT	Working
LPAR400J	SYSG	4F70	SP11	4F6C	TCLRG	Working
LPAR400J	SYSG	4E70	SP11	4E6C	TCMED	Working
LPAR400J	SYSG	4F72	SP11	4F6E	DEFAULT	Working
LPAR400J	SYSG	CFList	SP11	CFList	DEFAULT	Working
LPAR400J	SYSG	CFList	SP22	CFList	DEFAULT	Working
LPAR400J	SYSG	4E68	SP22	4E6C	TCMED	Working
LPAR400J	SYSG	4F8A	SP22	4F6E	DEFAULT	Working
LPAR400J	SYSG	CFList	SP22	CFList	DEFAULT	Working
LPAR400J	SYSG	4E5C	SYSL	4E6C	TCMED	Working
LPAR400J	SYSG	CFList	SYSL	CFList	DEFAULT	Working
LPAR400J	SYSG	4F4D	SYSA	4F6D	TCLRG	Working
LPAR400J	SYSG	4E4D	SYSA	4E6D	TCMED	Working
LPAR400J	SYSG	4E4E	SYSA	4E6E	DEFAULT	Working
LPAR400J	SYSG	CFList	SYSA	CFList	DEFAULT	Working

Enterprise

- z/OS Systems
  - LPAR400J.z/OS.ManagementConsole
    - Coupling Facility Policy Data for Sysplex
    - Coupling Facility Systems Data for Sysplex
    - Coupling Facility Structures Data for Sysplex
  - Paging Dataset Data for z/OS
  - LPAR Clusters Data for z/OS
  - USS Address Spaces and Processes
  - LPAR400J.SYS.HEALTHCHECK
    - Health Monitor Status
    - Health Monitor Checks

Hub Time: Wed, 08/16/2006 05:20 PM Server Available XCF Paths Data for Sysplex - RGATSKI - SYSADMIN

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Columns can be re-ordered by a drag and drop operation. Here, the Timestamp column has been moved all the way to the right (off the screen).





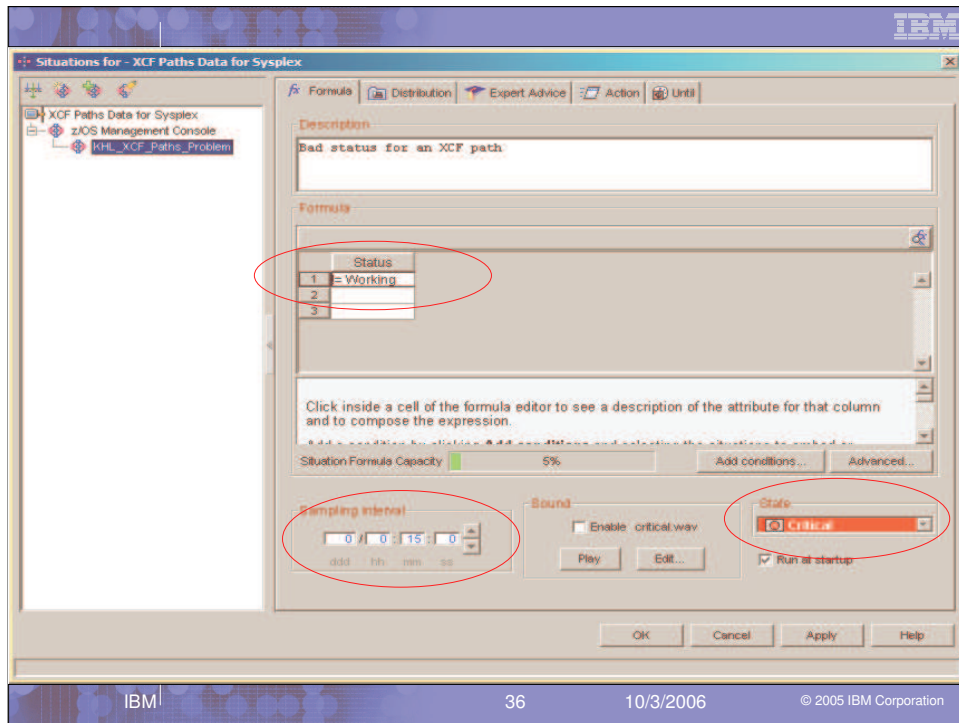
The screenshot shows the IBM XCF Paths Data for Sysplex - RGATSKI - SYSADMIN interface. A yellow callout box highlights a critical alert popup that appears when the mouse pointer rests on an alert indicator. The popup displays the following information:

**CRITICAL**  
 KHL\_XCF\_Paths\_Problem LPAR400J:zos:ManagementConsole 08/16/06 13:51:02

Below the popup, a table lists various XCF paths and their status. The table has columns for LPAR, SYS, Path, SP, Path, Status, and Mode.

LPAR	SYS	Path	SP	Path	Status	Mode
LPAR400J	SYSG	CFList	SP12	CFList	DEFAULT	Working
LPAR400J	SYSG	4F58	SP13	4F6C	TCLRG	Working
LPAR400J	SYSG	4F58	SP13	4F6C	TCLRG	Working
LPAR400J	SYSG	4F6A	SP22	4F6E	DEFAULT	Working
LPAR400J	SYSG	CFList	SP22	CFList	DEFAULT	Working
LPAR400J	SYSG	4E5C	SYSL	4E6C	TCMED	Working
LPAR400J	SYSG	CFList	SYSL	CFList	DEFAULT	Working
LPAR400J	SYSG	4F4D	SYSA	4F6D	TCLRG	Working
LPAR400J	SYSG	4E4D	SYSA	4E6D	TCMED	Working
LPAR400J	SYSG	4E4E	SYSA	4E6E	DEFAULT	Working
LPAR400J	SYSG	CFList	SYSA	CFList	DEFAULT	Working

The interface also shows a tree view on the left with nodes like 'Enterprise', 'z/OS', 'LPAR400J:SYS:HEALTHCHECK', and 'Health Monitor Checks'. The status bar at the bottom indicates 'Hub Time: Wed, 08/16/2006 05:28 PM', 'Server Available', and 'XCF Paths Data for Sysplex - RGATSKI - SYSADMIN'.





XCF Paths Information

Sysplex Name	System From	Origin Device	System To	Destination Device	Transport Class	Status
LPAR400J	SYSG	ListStructure	SP11	ListStructure	DEFAULT	Working
LPAR400J	SYSG	4F70	SP11	4F6C	TCLRG	Working
LPAR400J	SYSG	4E70	SP11	4E6C	TCMED	Working
LPAR400J	SYSG	4F72	SP11	4F6E	DEFAULT	Working
LPAR400J	SYSG	CFList	SP11	CFList	DEFAULT	Working
LPAR400J	SYSG	CFList	SP12	CFList	DEFAULT	Working
LPAR400J	SYSG	4F58	SP13	4F6C	TCLRG	Working
LPAR400J	SYSG	4F58	SP13	4F6C	TCMED	Working

CRITICAL  
KHL\_XCF\_Paths\_Problem LPAR400J:zos:ManagementConsole 08/16/06 13:51:02

Clicking the link here will provide additional details ...

Hub Time: Wed, 08/16/2006 05:28 PM Server Available XCF Paths Data for Sysplex - RGATSKI - SYSADMIN

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The screenshot shows the IBM Tivoli Monitoring console interface. The main window displays a tree view on the left with 'KHL\_XCF\_Paths\_Problem' selected. The central pane shows two tables: 'Initial Situation Values' and 'Current Situation Values'. Both tables list instances of 'Waiting for Comp' and 'Restarting' for the 'LPAR400J.zOS ManagementConsole' system, with timestamps from 08/16/06 13:51:02 and 08/16/06 17:37:20. The bottom pane shows a 'Take Action' dialog with a 'Situation Description' and 'Suggested Actions' section. A yellow callout box points to the 'Status' column in the tables, stating: 'The situation was monitoring for a "Status" value other than "Working".'

Status	Managed System	Timestamp	Sysplex Name	SMFID	System Name	System From
Waiting for Comp	LPAR400J.zOS ManagementConsole	08/16/06 13:51:02	LPAR400J	SYS	SYSG	SYSG
Waiting for Comp	LPAR400J.zOS ManagementConsole	08/16/06 13:51:02	LPAR400J	SYS	SYSG	SYSG
Restarting	LPAR400J.zOS ManagementConsole	08/16/06 13:51:02	LPAR400J	SYS	SYSG	SYSG
Restarting	LPAR400J.zOS ManagementConsole	08/16/06 13:51:02	LPAR400J	SYS	SYSG	SYSG
Waiting for Comp	LPAR400J.zOS ManagementConsole	08/16/06 13:51:02	LPAR400J	SYS	SYSG	SYSG

Status	Managed System	Timestamp	Sysplex Name	SMFID	System Name	System From
Waiting for Comp	LPAR400J.zOS ManagementConsole	08/16/06 17:37:20	LPAR400J	SYS	SYSG	SYSG
Waiting for Comp	LPAR400J.zOS ManagementConsole	08/16/06 17:37:20	LPAR400J	SYS	SYSG	SYSG
Restarting	LPAR400J.zOS ManagementConsole	08/16/06 17:37:20	LPAR400J	SYS	SYSG	SYSG
Restarting	LPAR400J.zOS ManagementConsole	08/16/06 17:37:20	LPAR400J	SYS	SYSG	SYSG
Waiting for Comp	LPAR400J.zOS ManagementConsole	08/16/06 17:37:20	LPAR400J	SYS	SYSG	SYSG

**Situation Description**  
Bad status for an XCF path

**Suggested Actions**  
The XCF Path identified is returning a status other than Working. The status may be the result either of dynamic reconfiguration or of a failure on the path. Notify the system programmer.

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Hub Time: Wed, 08/16/2006 05:40 PM    Server Available    KHL\_XCF\_Paths\_Problem - RGATSKI - SYSADMIN

The screenshot displays the IBM Sysplex Explorer interface. The main window shows a tree view on the left with 'KHL\_XCF\_Paths\_Problem' selected. The central pane contains two tables: 'Initial Situation Values' and 'Current Situation Values'. Both tables list the status of various XCF paths, with columns for Status, Sysplex Name, SMFID, System Name, and System From. The 'Initial Situation Values' table shows paths in 'Working' or 'Restarting' states. The 'Current Situation Values' table shows paths in 'Working' or 'Error' states. A 'Take Action' dialog is open at the bottom, showing a 'Name' dropdown set to '<Select Action>', a 'Command' field, and a 'Destination Systems' list. The dialog also displays a 'Situation Description' and 'Suggested Actions' section. The status bar at the bottom indicates the hub time as Wednesday, 08/16/2006 05:40 PM, and the server is available.

**Initial Situation Values**

Status	Sysplex Name	SMFID	System Name	System From
Working/Comp	LPAR400J	SYS	SYSG	SYSG
Working/Comp	LPAR400J	SYS	SYSG	SYSG
Restarting	LPAR400J	SYS	SYSG	SYSG
Working/Comp	LPAR400J	SYS	SYSG	SYSG

**Current Situation Values**

Status	Timestamp	Sysplex Name	SMFID	System Name	System From
Working/Comp		LPAR400J	SYS	SYSG	SYSG
Working/Comp		LPAR400J	SYS	SYSG	SYSG
Restarting	08/16/06 13:51:02	LPAR400J	SYS	SYSG	SYSG
Working/Comp	08/16/06 13:51:02	LPAR400J	SYS	SYSG	SYSG

**Take Action Dialog**

**Action:**  
 Name: <Select Action>  
 Command:   
 Arguments:

**Destination Systems:**

**Situation Description:**  
 Bad status for an XCF path

**Suggested Actions:**  
 The XCF Path identified is returning a status other than Working. The status may be the result either of dynamic reconfiguration or of a failure on the path. Notify the system programmer.

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The screenshot shows the IBM Systems Management console interface. The main window displays a tree view on the left and two data tables on the right. The top table, titled "Initial Situation Values", shows data for the time 08/16/06 13:51:02. The bottom table, titled "Current Situation Values", shows data for the time 08/16/06 17:37:20. A yellow callout box with the text "... scroll the reports to see all relevant columns." is overlaid on the bottom table. The bottom of the screen shows a status bar with the text "Hub Time: Wed, 08/16/2006 05:49 PM", "Server Available", "KHL\_XCF\_Paths\_Problem - RGATSKI - SYSADMIN", "40", "10/3/2006", and "© 2005 IBM Corporation".

System	Timestamp	Sysplex Name	SMFID	System Name	System From	Origin Device	System To	Destination Device	Transport Class
managementConsole	08/16/06 13:51:02	LPAR400J	SYS	SYSG	SYSG	4F88			TCLRG
managementConsole	08/16/06 13:51:02	LPAR400J	SYS	SYSG	SYSG	4E88			TCMED
managementConsole	08/16/06 13:51:02	LPAR400J	SYS	SYSG	SYSG	4F5C			TCLRG
managementConsole	08/16/06 13:51:02	LPAR400J	SYS	SYSG	SYSG	4F5E			DEFAULT
managementConsole	08/16/06 13:51:02	LPAR400J	SYS	SYSG	SYSG	4F8A			DEFAULT

System	Timestamp	Sysplex Name	SMFID	System Name	System From	Origin Device	System To	Destination Device	Transport Class
managementConsole	08/16/06 17:37:20	LPAR400J	SYS	SYSG	SYSG	4F88			TCLRG
managementConsole	08/16/06 17:37:20	LPAR400J	SYS	SYSG	SYSG	4E88			TCMED
managementConsole	08/16/06 17:37:20	LPAR400J	SYS	SYSG	SYSG	4F5C			TCLRG
managementConsole	08/16/06 17:37:20	LPAR400J	SYS	SYSG	SYSG	4F5E			DEFAULT
managementConsole	08/16/06 17:37:20	LPAR400J	SYS	SYSG	SYSG	4F8A			DEFAULT

**Suggested Actions**  
 The XCF Path identified is returning a status other than Working. The status may be the result either of dynamic reconfiguration or of a failure on the path. Notify the system programmer.

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**Initial Situation Values**

System	Timestamp	Sysplex Name	SMFID	System Name	System From	Origin Device	System To	Destination Device	Transport Class
managementConsole	08/16/06 13:51:02	LPAR400J	SYS	SYSG	SYSG	4F88			TCLRG
managementConsole	08/16/06 13:51:02	LPAR400J	SYS	SYSG	SYSG	4E88			TCMED
managementConsole	08/16/06 13:51:02	LPAR400J	SYS	SYSG	SYSG	4F5C			TCLRG
managementConsole	08/16/06 13:51:02	LPAR400J	SYS	SYSG	SYSG	4F5E			DEFAULT
managementConsole	08/16/06 13:51:02	LPAR400J	SYS	SYSG	SYSG	4F8A			DEFAULT

**Current Situation Values**

System	Timestamp	Sysplex Name	SMFID	System Name	System From	Origin Device	System To	Destination Device	Transport Class
managementConsole	08/16/06 17:37:20	LPAR400J	SYS	SYSG	SYSG	4F88			TCLRG
managementConsole	08/16/06 17:37:20	LPAR400J	SYS	SYSG	SYSG	4E88			TCMED
managementConsole	08/16/06 17:37:20	LPAR400J	SYS	SYSG	SYSG	4F5C			TCLRG
managementConsole	08/16/06 17:37:20	LPAR400J	SYS	SYSG	SYSG	4F5E			DEFAULT
managementConsole	08/16/06 17:37:20	LPAR400J	SYS	SYSG	SYSG	4F8A			DEFAULT

**Take Action**

Name: <Select Action>  
 Command:

Destination Systems:

**Situation Description**  
 Bad status for an XCF path

**Suggested Actions**  
 The XCF Path identified is returning a status other than Working. The status may be the result either of dynamic reconfiguration or of a failure on the path. Notify the system programmer.

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Hub Time: Wed, 08/16/2006 05:49 PM    Server Available    KHL\_XCF\_Paths\_Problem - RGATSKI - SYSADMIN

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The screenshot displays the 'XCF Paths Data for Sysplex - RGATSKI - SYSADMIN' application window. The main content area shows a list of alerts under the 'XCF Paths Information' tab. The alerts are categorized into CRITICAL and WARNING. A yellow callout box highlights the text: 'Resting the cursor over the alert symbol for the z/OS Systems node in the navigation tree provides info about all alerts in all z/OS systems.'

Alert Category	Alert Name	System From	Origin Device	System To	Destination Device	Transport Class	Timestamp
CRITICAL	KHL_XCF_Paths_Problem	LPAR400J:zOS:ManagementConsole					08/28/06 17:04:57
CRITICAL	KHL_High_Severity_Check	LPAR400J:SP22:HEALTHCHECK					08/28/06 17:04:29
WARNING	KHL_AddressSpace_Waiting	LPAR400J:SP22:AVAILABILITY					08/28/06 17:04:29

At the bottom of the window, there is a status bar with the following information: Hub Time: mer., 08/30/2006 04:18 PM, Server Available, XCF Paths Data for Sysplex - RGATSKI - SYSADMIN, IBM logo, page number 42, date 10/3/2006, and copyright © 2005 IBM Corporation.



The screenshot displays the Enterprise Status - RGATSKI - SYSADMIN interface. A yellow callout box highlights the text: "Raised situations are also summarized at the Enterprise workspace level".

**Situation Event Console**

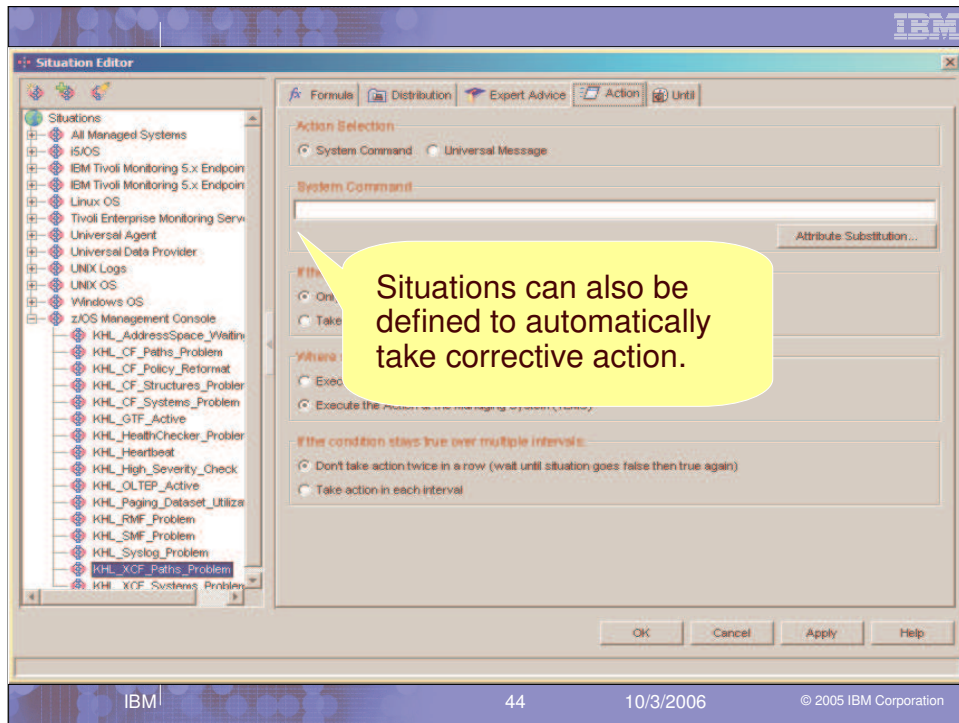
Severity	Status	Owner	Situation Name	Display Item	Source
Warning	Open		KHL_AddressSpace_Waiting		LPAR400J.SP22.AVAI...
Critical	Open		KHL_High_Severity_Check		LPAR400J.SP22.HEAL...
Critical	Open		KHL_XCF_Pathis_Problem		LPAR400J.ZOS.Manag...

**Message Log**

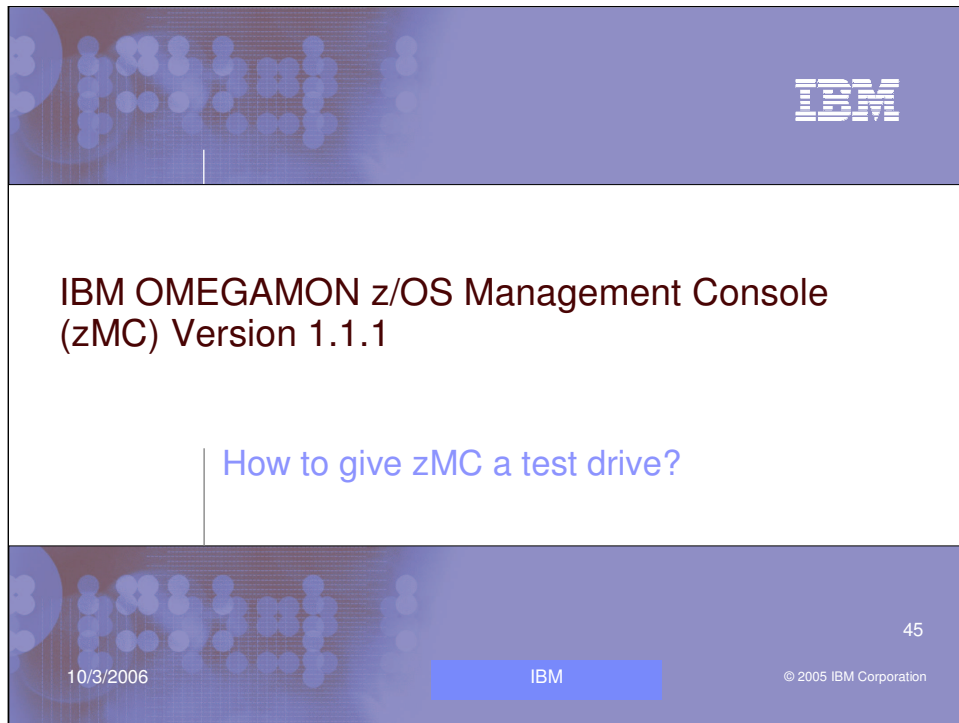
Status	Name	Display Item	Origin Node	Time
Open	HLSITUC0072_Warning		LPAR400J.SP22.HEALTHCHECK	08/...
Open	HLSITUC0063_Warning		LPAR400J.SP22.HEALTHCHECK	08/...
Open	HLSITUC0062_Critical		LPAR400J.SP22.HEALTHCHECK	08/...
Open	HLSITUC0060_Warning		LPAR400J.SP22.HEALTHCHECK	08/...
Open	HLSITUC0059_Critical		LPAR400J.SP22.HEALTHCHECK	08/...
Open	HLSITUC0051_Warning		LPAR400J.SP22.HEALTHCHECK	08/...
Open	HLSITUC0048_Critical		LPAR400J.SP22.HEALTHCHECK	08/...

Hub Time: Sun, 08/28/2006 01:29 PM | Server Available | Enterprise Status - RGATSKI - SYSADMIN

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IBM OMEGAMON z/OS Management Console  
(zMC) Version 1.1.1

How to give zMC a test drive?

10/3/2006

IBM

45

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The slide features a blue header and footer with a grid pattern. The main content area is white. The IBM logo is in the top right. The title is centered. The subtitle is centered below the title. The date is in the bottom left, the IBM logo is in the bottom center, and the page number and copyright are in the bottom right.

Lets discuss some reasons you may want to give the IBM OMEGAMON z/OS Management Console (zMC) Version 1.1.1 a test drive in your shop.

## Who may be a good candidate for zMC?

- 1) Small z Shop with need of some availability monitoring**
- 2) Current OMEGAMON XE for z/OS site that wants to add in z/OS Health Checker information**
- 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.**



Lets do a quick look at the Install and the Publications of the IBM OMEGAMON z/OS Management Console product.

## Platform Support and Pre-Req's

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

- z/OS 1.4 and Higher systems
- Supporting components required by and supplied with the Management Console package:
  - ▶ Installation/Configuration Assistance Tool (ICAT) Version 310
  - ▶ Tivoli Enterprise Monitor Server (TEMS) Version 610 with FP1 or higher
  - ▶ Tivoli Enterprise Portal (TEP) Version 610 with FP1 or higher
  - ▶ Tivoli Enterprise Portal Server (TEPS) Version 610 FP1 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

The product can be downloaded from the z/OS download site. Make sure you have z/OS 1.4 or higher to run the agent on. Then the zMC SMP/e package contains a FMID for Installation/Configuration Assistance Tool 3.1.0 (ICAT), The CL/Engine V190, the z/OS Tivoli Management Server (TEMS) V360, and the zMC Agent 1.1.1.

The Distributed packages needed are: DB2/UDB 8.2, Tivoli Enterprise Portal (TEP), Tivoli Enterprise Portal Server (TEPS) and the OMEGAMON z/OS Management Console 1.1.0 application. Also TEMS for other platforms besides z/OS is provided too.

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

- z/MC Pubs available at :

[publib.boulder.ibm.com/tividd/td/IBMOMEGAMONzOSManagementConsole1.1.1.html](http://publib.boulder.ibm.com/tividd/td/IBMOMEGAMONzOSManagementConsole1.1.1.html)

- ▶ **Planning, Installation, and Configuration Guide (GC32-1902-00)**

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: for 5698-A78**

Provides instructions for Installation of the z/OS side.

- ▶ **Using IBM OMEGAMON z/OS Management Console (SC32-9505-01)**

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.

There are many parts to the install. It is important to plan your install before you proceed. Read the Planning, Installation, and Configuration Guide manual and use the Program Directory too. Did I mention it was important to read and use the Planning, Installation, and Configuration Guide manual?

Now lets move on to discuss the new features in the OMEGAMON XE on z/OS 3.1.0 product.

The link to the manuals is provided so you can download them too.

## Follow Program Directory for z/OS

From the web site:

**z/OS Downloads – TEMS and zMC Agent**

Read Me – HL111.README.txt

OMEGAMON z/OS Mgt Console V1.1.1 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**  
LCD7-0907-01.zip (194.2MB)
- ▶
- ▶ **IBM OMEGAMON z/OS Management Console Data Files for z/OS CD-ROM electronic image in .tar format**  
LCD7-0907-01.tar (160.4MB)
- ▶
- ▶ **IBM Tivoli Monitoring Services on z/OS CD-ROM Vol 1. w/FP1 (Windows) electronic image**  
LCD7-0789-01.zip (351MB)
- ▶
- ▶ **IBM Tivoli Monitoring Services on z/OS CD-ROM Vol 5. w/FP1 (Linux on zSeries - Red Hat and SuSE) electronic image**  
LCD7-0836-01.tar (515.9MB)
- ▶
- ▶

## 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 zSeries 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 Services on z/OS CD-ROM Vol 1. w/FP1 (Windows) electronic image**

LCD7-0789-01.zip (351MB) 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**

LCD7-0907-01.zip (194.2MB) unzip and use setupwin32.exe

**Please do the Install/Configure in this order using the manual**

**Remember to Register for Product Support**

zMC 4.1.0 – new release

**Next release coming: 1Q2007**

**More Sysplex Level – CF details, duplex, policy**

**More Availability Information – USS Processes/Users**

**Lpar Cluster information**

**Dynamic Workspace Linking – OMEGAMON XE for z/OS**

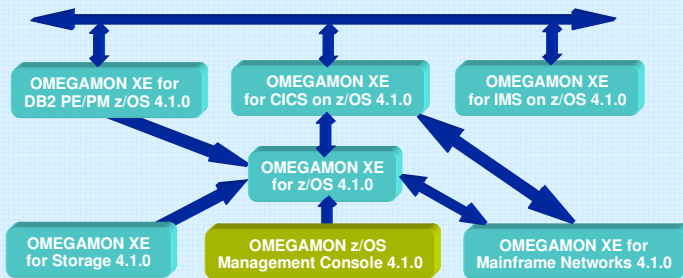
**Need – Beta Sites – see me**

## Dynamic Workspace Linking Functionality

**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



IBM

55

10/3/2006

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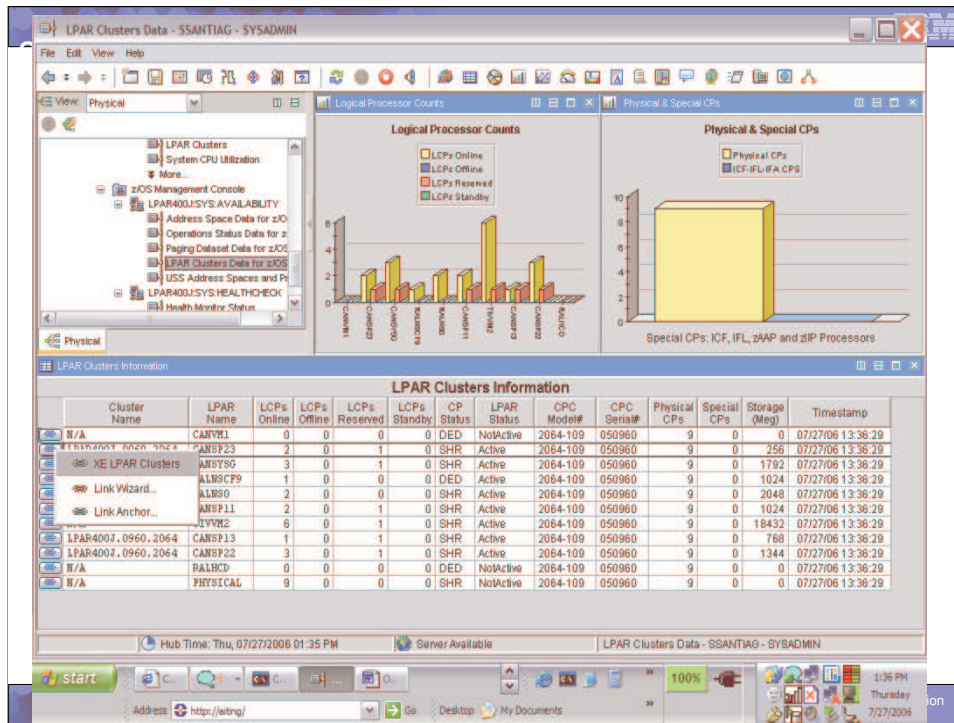
Dynamic Workspace Linking (DWL) is a new feature available in the OMEGAMON 4.1.0 products that provides for intelligently linking between different OMEGAMON products to help reduce problem resolution time.

The problem stated in this slide is focused on quickly isolating where a problem is happening.

A typical scenario to find a problem is stated in the scenario: link from a CICS transaction that has poor response time to the associated DB2 thread to determine if DB2 is causing the response time issue.

Solution: DWL can be used to quickly link between OMEGAMON XE on CICS to OMEGAMON XE on DB2 to isolate and resolve the response time issue.

The diagram shows the various DWL links provided with the OMEGAMON products and customers can also create custom links.



Linked to OMEGAMON XE on z/OS LPAR Clusters workspace (showing OM XE

The screenshot displays the 'LPAR Clusters - SSANTIAG - SYSADMIN' interface. It features a navigation tree on the left, two bar charts at the top, and several data tables below.

**LPAR Logical Utilization (e.g. Velocity)** Chart:

Cluster	Effective %Weight	Logical %Weight
CAN3P23	~40	~40
CAN3P29	~50	~50
CAN3P31	~40	~40
TI1VY02	~70	~70
CAN3P11	~50	~50
CAN3P22	~30	~30

**LPAR Physical Utilization** Chart:

Cluster	Physical %CPU	Physical %Weight
CAN3P23	~10	~10
CAN3P29	~15	~15
CAN3P31	~10	~10
TI1VY02	~50	~50
CAN3P11	~15	~15
CAN3P22	~10	~10

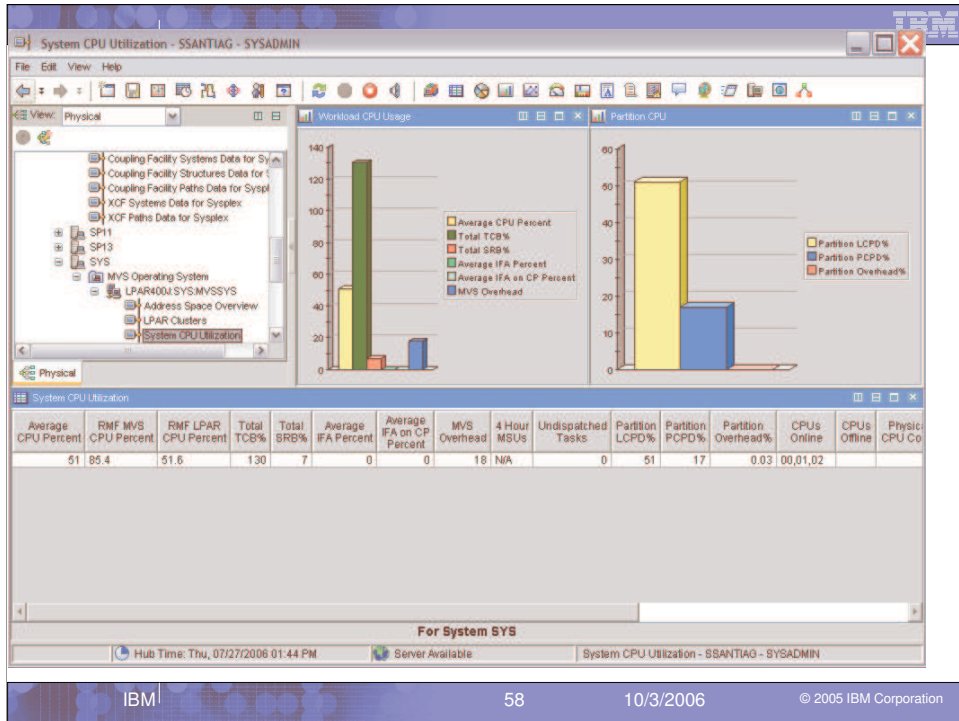
**CPC Status Table:**

CPC Model#	CPC Serial#	CPs %CPU	CPs %Overhead	CPs Weight	Physical CPs	Physical CPs	C MC	Cluster Name	Physical %CPU	Overhead %CPU	Current Weight	Physical %Weight	Cluster LPARs
2064-104	050600	99.9	1.1	1740	9	0	0	LPAR400J.0960.2064	30.7	0.4	450	38.2	5

**CPC LPARs Status Table:**

Cluster Name	LPAR Name	Physical %CPU	Overhead %CPU	Current Weight	Physical %Weight	CPU Index	Effective %Weight	Logical %Weight	Effective Weight Index	Logical %CPU	CPU %Ready	WLM Managed	Initial Weight	Max Wt
N/A	TI1VY02	N/A	N/A	0	0.0	N/A	N/A	0.0	N/A	N/A	N/A	NO	N/A	N/A
LPAR400J.0960.2064	CAN3P23	1.1	0.1	50	4.0	0.3	41.7	18.0	2.3	4.7	6.6	NO	50	50
LPAR400J.0960.2064	CAN3P29	17.0	0.0	175	14.1	1.2	58.3	42.3	1.4	51.1	36.6	YES	175	175
N/A	LPAR400J	11.1	0.0	DED	DED	N/A	N/A	N/A	N/A	100.0	N/A	N/A	N/A	N/A
N/A	TI1VY02	0.0	0.0	200	16.1	0.0	0.0	72.5	0.0	0.0	50.0	NO	200	200
LPAR400J.0960.2064	CAN3P11	0.9	0.1	50	4.0	0.2	53.4	18.0	0.0	0.0	50.0	NO	50	50
N/A	TI1VY02	57.2	0.1	590	47.6	1.2	86.9	71.4	0.0	0.0	50.0	NO	590	590

**System Information:** Hub Time: Thu, 07/27/2006 01:37 PM | Server Available | LPAR Clusters - SSANTIAG - SYSADMIN



USS Address Spaces and Processes - SSANTIAG - SYSADMIN

View: Physical

USS (Dubbed) Address Spaces

Sysplex Name	SMFID	SysName	ASID	AS Name	AS Type	Step Name	Userid	Service Class
LPAR400J	SYS	SYSG	0X000E	0RT9	STC	OMVS		SYSTEM
LPAR400J	SYS	SYSG	0X001B	TCPIP0	STC	TCPIP0	TCPIP0	SYSBTC
LPAR400J	SYS	SYSG	0X0022	KGNDS0ST	STC	KGNDS0ST	KGNDS0ST	SYBSTC
LPAR400J	SYS	SYSG	0X0027	NET25	STC	NET	NET25	SYBSTC
LPAR400J	SYS	SYSG	0X004C	IMS9CC00	BATC	IMS9CC00	IMS9DR91	IMSMPRS
LPAR400J	SYS	SYSG	0X0052	IMS9CC00	BATC	IMS9CC00	IMS9DR61	IMSMPRS
LPAR400J	SYS	SYSG	0X008C	NETV0	STC	NETV0	NETV0	STCPR00
LPAR400J	SYS	SYSG	0X0090	XCX31L	STC	XCX31L	XCX31L	STCCMS
LPAR400J	SYS	SYSG	0X0092	CIDFW00L	STC	CIDFW00L	CIDFW00L	STC
LPAR400J	SYS	SYSG	0X0093	WLAND2	TSO	WLAND2	WLAND2	TSO
LPAR400J	SYS	SYSG	0X0097	CICSR00L	STC	CICSR00L	CICSR00L	STCONLN
LPAR400J	RVS	RVSA	0X009A	NETV00C	RTD	NETV00C	NETV00C	STC

USS Processes

Sysplex Name	SMFID	SysName	Process Status	Process ID	Parent Process ID	ASID	Jobname	Command Name
LPAR400J	SYS	SYSG	More Than One Open Task In Process		1	0	0X000A	BPXFINPR
LPAR400J	SYS	SYSG	One Regular Task In One Process In Addr Space	16909390	1	0X00A1	K0RS00	KLU
LPAR400J	SYS	SYSG	One Regular Task In One Process In Addr Space	16909291	1	0X0097	CICSR00L	DFHSP
LPAR400J	SYS	SYSG	One Regular Task In One Process In Addr Space	131076	1	0X0027	NET25	ISTIPCTM
LPAR400J	SYS	SYSG	Multiple Tasks In Process - Multiple Processes In Addr Space	131077	1	0X001B	TCPIP0	EZBTCPIP
LPAR400J	SYS	SYSG	One Regular Task In One Process In Addr Space	16909395	1	0X008C	NETV0	DSATTMT
LPAR400J	SYS	SYSG	One Regular Task In One Process In Addr Space	60462729	1	0X0097	CICSR00L	DFHKT0CB
LPAR400J	SYS	SYSG	One Regular Task In One Process In Addr Space	131081	1	0X001B	TCPIP0	EZBTBSL
LPAR400J	SYS	SYSG	One Regular Task In One Process In Addr Space	131082	1	0X001B	TCPIP0	EZBTMCTL
LPAR400J	SYS	SYSG	One Regular Task In One Process In Addr Space	131083	1	0X001B	TCPIP0	EZACFALG
LPAR400J	SYS	SYSG	One Regular Task In One Process In Addr Space	131085	1	0X0090	XCX31L	K0SSRV0

Hub Time: Thu, 07/27/2006 01:45 PM Server Available

USS Address Spaces and Processes - SSANTIAG - SYSADMIN

Start

Address: http://eeting/

100% 1:46 PM Thursday 7/27/2006



OME MCH Management Console - Version 4.0 Coupling Facility Policy

Coupling Facility Policy Data for Sysplex - SSANTIAG - SYSADMIN

File Edit View Help

View: Physical

- XCF Paths Data for Sysplex
- XCF Systems Data for Sysplex
- z/OS Management Console
- Coupling Facility Policy Data for Sysplex
- Coupling Facility Systems Data for Sysplex
- Coupling Facility Structures Data for Sysplex
- Coupling Facility Paths Data for Sysplex
- XCF Systems Data for Sysplex
- XCF Paths Data for Sysplex
- SYS
  - MVS Operating System
  - z/OS Management Console
  - LPAR400LSYS.AVAILABILITY
  - Address Space Data for z/OS

Physical

Coupling Facility Policy

Policy Name	Date Time Activate	Reformat Required
CFRMPOL0	07/27/08 12:33:59	No

Hub Time: Not Available Server Available Coupling Facility Policy Data for Sysplex - SSANTIAG - SYSADMIN

OMEGAMON Management Console Version 410 Coupling Facility Structures

Coupling Facility Structures Data for Sysplex - SSANTIAG - SYSADMIN

File Edit View Help

Physical

z/OS Management Console

- Coupling Facility Policy Data for Sysplex
- Coupling Facility Systems Data for Sysplex
- Coupling Facility Structures Data for Sysplex**
- Coupling Facility Paths Data for Sysplex
- XCF Systems Data for Sysplex
- XCF Paths Data for Sysplex

SP11

SP13

SYS

MVS Operating System

- LPAR400/SYS/MVSSYS
- Address Space Overview

Maximum Users

Storage Size

Coupling Facility Structures Information

Timestamp	Sysplex Name	CF Name	Structure Name	Structure Status	Maximum Users	Storage Size	Structure Type	Duplex	Auto Alter
07/27/06 13:47:52	LPAR400J	CF01	I81F0GAM	Active/Use	64	1024	Cache	Disabled	Yes
07/27/06 13:47:52	LPAR400J	CF01	I81FVMSAM	Active/Use	64	1024	Cache	Disabled	Yes
07/27/06 13:47:52	LPAR400J	CF01	I81FEMHLL	Active/Use	32	1024	List	Disabled	Yes
07/27/06 13:47:52	LPAR400J	CF01	I81FEMHLL	Active/Persistent	23	1024	Lock	Disabled	Yes
07/27/06 13:47:52	LPAR400J	CF01	I81FEMHLL	Active/Persistent	32	1600	List	Disabled	Yes
07/27/06 13:47:52	LPAR400J	CF01	I81FEMHLL	Active/Persistent	32	1008	List	Disabled	Yes
07/27/06 13:47:52	LPAR400J	CF01	I81FEMHLL	Active/Use	64	1024	Cache	Disabled	Yes
07/27/06 13:47:52	LPAR400J	CF01	I81FEMHLL	Active/Use	32	1024	List	Disabled	Yes
07/27/06 13:47:52	LPAR400J	CF01	I81FEMHLL	Active/Use	64	1024	Cache	Disabled	Yes
07/27/06 13:47:52	LPAR400J	CF01	I81FEMHLL	Active/Use	32	1024	List	Disabled	Yes
07/27/06 13:47:52	LPAR400J	CF01	I81FEMHLL	Active/Persistent	32	1008	List	Disabled	Yes
07/27/06 13:47:52	LPAR400J	CF01	I81FEMHLL	Active/Use	32	1600	List	Disabled	Yes
07/27/06 13:47:52	LPAR400J	CF01	I81FEMHLL	Active/Persistent	32	1008	List	Disabled	Yes

Users of a CF Structure

- XIE Coupling Facility Structures Data for Sysplex
- Link Wizard...
- Link Anchor...

Hub Time: Thu, 07/27/2006 01:46 PM Server Available

Coupling Facility Structures Data for Sysplex - SSANTIAG - SYSADMIN

Start

Address http://e1mg/

100%

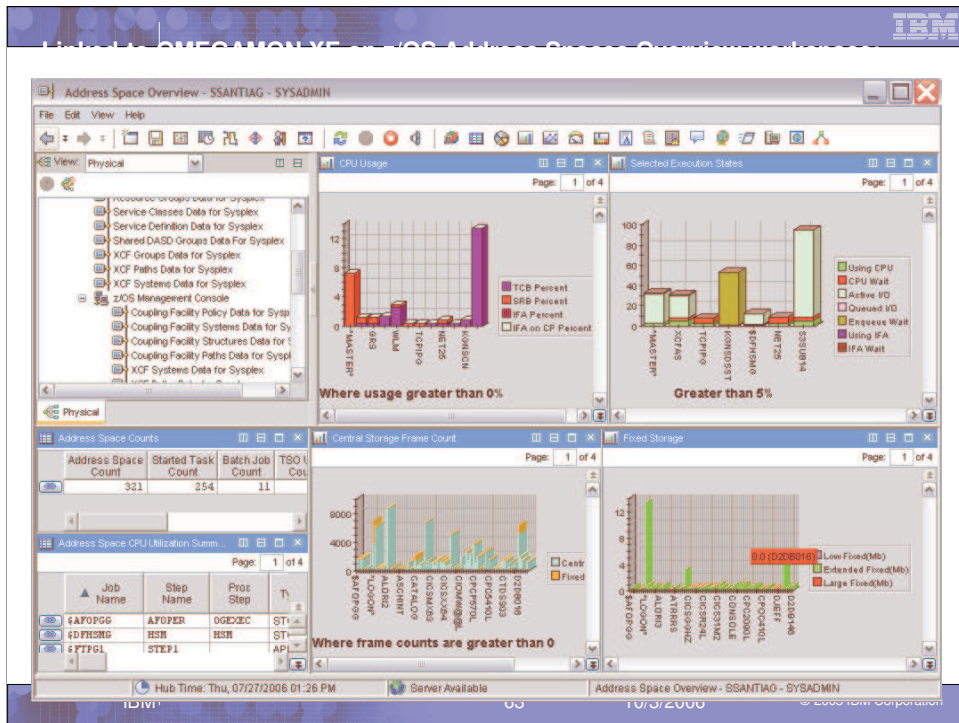
1:40 PM Thursday 7/27/2006

OMEGAMON Management Console Version 410 Address Spaces workspace

The screenshot displays the OMEGAMON Management Console interface. The main window is titled "Address Space Data for z/OS - SSANTIAG - SYSADMIN". On the left, a tree view shows a hierarchy of system components, including "z/OS Management Console", "MVS Operating Systems", and "LPAR400J.SYS.MVSSYS". The main area contains a table of job information with the following columns: Job Name, Step Name, Proc Step, SvcClass, SvcClass Period, ASID, JESJOBID, and Waiting. The table lists various system jobs such as \*MASTER\*, PCAUTH, RASP, TRACE, DUMPSRV, XCFAS, GRS, SMSPDSE, SMSVSDM, CONSOLE, WLM, ANTMAN, ANTAS000, OMVS, IEFSCAS, JESXCF, ALLOCAS, IOSAS, IOLOGR, SMS, and LLA. The status of each job is indicated in the "Waiting" column, with most showing "Working" and one showing "Waiting".

Job Name	Step Name	Proc Step	SvcClass	SvcClass Period	ASID	JESJOBID	Waiting
*MASTER*			SYSTEM	1	0x0001	STC03140	Working
PCAUTH	PCAUTH		SYSSTC	1	0x0002		Working
RASP	RASP		SYSTEM	1	0x0003		Working
TRACE	TRACE		SYSTEM	1	0x0004		Working
DUMPSRV	DUMPSRV	DUMPSRV	SYSTEM	1	0x0005		Working
XCFAS	XCFAS	IEFPROC	SYSTEM	1	0x0006		Working
GRS	GRS		SYSTEM	1	0x0007		Working
SMSPDSE	SMSPDSE		SYSTEM	1	0x0008		Working
SMSVSDM	SMSVSDM	IEFPROC	SYSTEM	1	0x0009		Working
CONSOLE	CONSOLE		SYSTEM	1	0x000A		Working
WLM	WLM	IEFPROC	SYSTEM	1	0x000B		Working
ANTMAN	ANTMAN	IEFPROC	SYSTEM	1	0x000C		Working
ANTAS000	ANTAS000	IEFPROC	SYSSTC	1	0x000D		Working
OMVS	OMVS	OMVS	SYSTEM	1	0x000E		Working
IEFSCAS	IEFSCAS		SYSTEM	1	0x0010		Working
JESXCF	JESXCF	IEFPROC	SYSTEM	1	0x0011		Working
ALLOCAS	ALLOCAS		SYSTEM	1	0x0012		Working
IOSAS	IOSAS	IEFPROC	SYSTEM	1	0x0013		Working
IOLOGR	IOLOGR	IEFPROC	SYSTEM	1	0x0014		Working
SMS	SMS	IEFPROC	SYSSTC	1	0x0015		Working
LLA	LLA	LLA	SYSTEM	1	0x0016		Working
XE Address Space Overview			STCPROD	1	0x0017	STC03130	Working
XE Address Space Bottleneck			SYSSTC	1	0x0018		Working
Link Wizard...			STC	2	0x0019		Working
Link Anchor...			SYSTEM	1	0x001A		Working
Link Anchor...			SYSSTC	1	0x001B	STC03244	Working
Link Anchor...			SYSSTC	1	0x001C		Working
LLA	LLA	LLA	SYSSTC	1	0x001D		Working
LOOROUTE	LOOROUTE	LOOROUTE	STCPROD	1	0x001E	STC03136	Working
TSO	TSO	STEP1	SYSSTC	1	0x001F	STC03240	Waiting
\$RMFG	RMF	IEFPROC	STCPROD	1	0x0020	STC03133	Working
VL	VL	VL	SYSSTC	1	0x0021		Working
KGNDRST	KGNDRST	CMR	RTC	2	0x0022	RTC03268	Working

The Windows taskbar at the bottom shows the Start button, a search bar, and several application icons. The system tray displays the time as 1:41 PM on Thursday, 7/27/2006, and the system health as 100%.



## Summary

- **z/OS Systems Management**
  - ▶ New Face on z/OS
  - ▶ What is the OMEGAMON z/OS Management Console (zMC)?
  - ▶ Why you should test drive zMC
  
- **OMEGAMON z/OS Management Console**
  - ▶ Getting going with zMC
  - ▶ Installation information
  - ▶ Product Publications