



IBM Software Group

OMEGAMON XE For IMS Power User Tips And Techniques

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Tivoli software



business on demand.

Agenda – OMEGAMON XE For IMS

- OMEGAMON - A Choice Of Capabilities And Technologies
- OMEGAMON XE For IMS Capabilities
- Power User Techniques For 3270 Interface
- Power User Techniques For Tivoli Enterprise Portal



What Is A Power User?

- As defined by Webopedia.Com
 - ▶ “A sophisticated user of personal computers. A power user is typically someone who has considerable experience with computers and utilizes the most advanced features of applications”
- Ed Woods' definition
 - ▶ A user of computer technology who takes that technology and customizes or crafts it to more fully fill their needs



OMEGAMON XE For IMS

Real Time Components And Facilities

- ***Real Time Monitor***
 - ▶ Subsystems, regions, resources, pools, DBs, Fast path
 - ▶ IMS Connect, OTMA
- ***Response Time Analysis (RTA)***
 - ▶ Transaction Response time by user defined groups
- ***Bottleneck Analysis***
 - ▶ Workload performance and task analysis
- ***Operator Assist & Integrated Console Facility***
 - ▶ Consolidation of IMS MTO consoles
- ***Online TRF***
- ***Trace Facilities***
- ***Exceptions & Alerts***
- ***Plex level information***
 - ▶ Integrated alert/automation
 - ▶ N-way, MSC



OMEGAMON XE For IMS Historical Facilities

- ***EPILOG Historical***
 - ▶ Historical analysis of transaction response, bottlenecks and IMS resources
 - ▶ Stored in VSAM Epilog Data Store (EDS) by group and time interval
- ***TRF Historical***
 - ▶ Detailed transaction & database data – individual transactions
 - ▶ Suitable for performance analysis & chargeback
- ***XE Historical***
 - ▶ Snapshot historical

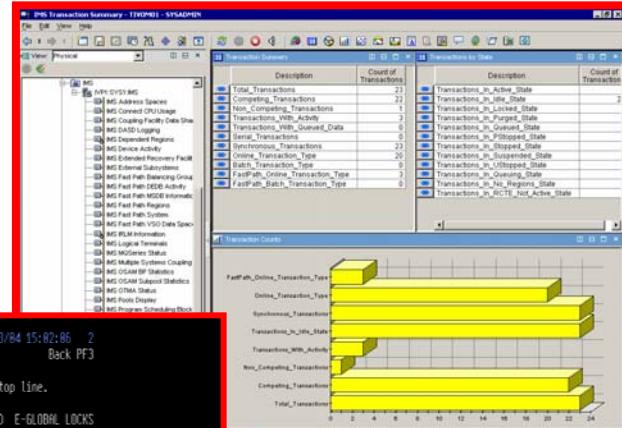


OMEGAMON XE For IMS

Choice Of Interfaces – Unique Capabilities

■ OMEGAMON XE GUI Interface

- ▶ Java client or web browser – Tivoli Portal
- ▶ Real time and historical
- ▶ Automation & alerts
- ▶ Plex level information (CF, n-way)



OMEGAMON Classic

- ▶ 3270 Interface command interface
- ▶ Real Time & Historical
- ▶ RTA, Dexan
- ▶ Exceptions

```

> Help PF1          ZTOEST VTH 02      V548/C 081X 85/83/84 15:82:86 2
> THREAD INFORMATION: Enter a selection letter on the top line.
> A-THREAD B-LOCK COUNTS C-LOCK WAITS D-LOCKS OWNED E-GLOBAL LOCKS
> F-CURRENT SOL G-SOL COUNTS H-DISTRIBUTED I-BUFFER POOL J-GROUP BP
> K-PACKAGES L-RES LIMIT M-PARALLEL TASKS N-UTILITY O-OBJECTS
> P-CANCEL THREAD Q-082 CONSOLE R-DSN ACTIVITY S-APPL TRACE T-ENCLAVE
> U-LONG NAMES

> DISTRIBUTED THREAD DETAIL
PLAN
+ Thread: Plan=WKID    Conid=RRSAF  Corrid=MYCORRID  Authid=PKENNN
+ Attach: RRSASF        JOB Name=..PKENNN          JOB Asid=53K
+ Package: WKID         Collection=
rsum
+           Distributed RRSAF Data
+Location   IP Addr Port Cbuser Svclsnm Prod ID Workstation
+N/A       N/A     N/A     PKENNEY N/A      N/A      MY_WORKSTATION_NAM
+Transaction name: MYRPL.EXE

```



OMEGAMON XE For IMS GUI Interface Versus 3270 – Strengths

- Tivoli Enterprise Portal (TEP) GUI Interface strengths and capabilities
 - ▶ Customizable high level overview of all IMS activity
 - Integrate information from a variety of sources
 - ▶ Data sharing performance information
 - ▶ The most flexible and customizable for alerts, automation, and corrective actions
- 3270 (Classic & CUA) Interface strengths and capabilities
 - ▶ Detailed analysis
 - Region and subsystem details
 - ▶ Display flexibility and granularity
 - ▶ Operator assist and I/CF facility



OMEGAMON XE For IMS GUI Interface Versus 3270 – When To Use

- Tivoli Enterprise Portal (TEP) GUI Interface
 - ▶ Correlation and high level analysis
 - ▶ Problem identification, notification, and isolation
 - ▶ Robust correlated alert generation
 - ▶ Integrated automation with corrective actions
- 3270 Classic and CUA Interface
 - ▶ Works best for deep dive detailed analysis
 - ▶ Command driven with the ability to build custom screen spaces
 - ▶ Screen logging and automated screen facility options
 - ▶ Classic alerts may drive actions and automation (with SA z/OS automation)



OMEGAMON IMS Classic 3270 Interface Main Menu

ZMENU VTM OI-II V550.M0 IMSA 09/13/06 13:56:32 0

> Help/News PF1 Exit PF3 Keys PF5 Command Mode PF1

> Return to CUA PA2 Colors PF18

> Enter a selection letter on the top line.

=====

> OMEGAMON for IMS Performance Monitor Main Menu

E EXCEPTIONS Current and potential system problems, latch conflicts

R RESPONSE TIME Transaction response times (RTA users)

B BOTTLENECKS Resource contention (bottleneck analysis) (DEXAN users)

M MONITOR IMS status, graphs, and time controlled operations

W WORKLOAD PSBs, DMBs, transactions, regions, and classes

L LINES Terminals, nodes, and lines

A ALL POOLS Communication, database, and program pools

C COMPONENTS I/O, logging, storage, and control blocks/modules

F FAST PATH IMS Fast Path information

O OTHER SYSTEMS DB2 interface and XRF information

T TOOLS Operator tools

P PROFILE Profile maintenance and session settings

Select letter options to navigate to different displays



Classic Interface

Major & minor commands

```
KOIRGNA VTM          OI-II      V550.M0 IMSA 09/13/06 14:04:45  0B
> Help PF1           Back PF3        Up PF7     Down PF8       Zoom PF11
> To Panel name, enter Version, profile, subsystem
> *-ALL REGIONS    B-CONTROL    C-DLI      D-DBRC      E-IRLM      F-MPP
> G-FASTPATH        H-BMP        I-DB2      J-USER LIST   K-DEPENDENT
=====
>                      All Regions
> For more information about a region (RGNA), logical terminal (TERM),
> transaction (TRAN), scheduling class (CLAS), current referenced database
> (CDMB), or printed specification block (PSBN), place the cursor on the
> appropriate MAJOR command
#RGNA      5
RGNA  IMSAMAST IMSADBRC  IMSADLI IMSAIRLM IMSAMSG1
rgid  --n/a-- --n/a--  --n/a-- --n/a--  1
term  --n/a-- --n/a--  --n/a-- --n/a-- 
tran  --n/a-- --n/a--  --n/a-- --n/a-- 
clas  --n/a-- --n/a--  --n/a-- --n/a-- --none--
cdmb --n/a-- --n/a--  --n/a-- --n/a-- --n/a--
```

MAJOR command

Minor commands



Classic Interface Examples

- Detailed IMS subsystem, transaction, and region analysis is a common usage of the Classic interface
 - ▶ Example - RGNA major commands with various minors
- Classic interface includes easy to use screen logging capabilities
 - ▶ Have screen spaces logged to OMEGAMON sysout for later review
- Classic interface includes timer and screen automation capabilities
 - ▶ Execute classic screen spaces at certain times of day (TSF)
 - ▶ Execute classic screen spaces based upon classic exceptions (ASF)



Creating A Custom Region Overview Screen

The RGNA major command shows all the regions in the IMS subsystem.

Options could include using RGND to just show dependent regions, etc.

```
>                                                 3/06 14:35:00  0B
>
>          This is a customized region screen
=====
RGNA  IMSAMAST  IMSADBRC  IMSADLI  IMSAIRLM  IMSAMSG1  IMSAMSG2
clas  --n/a--   --n/a--   --n/a--   --n/a--  --none--   --none--
cpu    13.51     .12      .12      .07      .05      .10
ocup   --n/a--   --n/a--   --n/a--   --n/a--   .00%     .01%
tran   --n/a--   --n/a--   --n/a--   --n/a--  --none--   --none--
term   --n/a--   --n/a--   --n/a--   --n/a--  --n/a--   --n/a-
.rc
```

There are 105 minors for the RGNA major command. Creating a custom region screen allows the user to create a targeted region screen, and include more relevant information on that screen.



Save The Customized Screen Space

```
/SAVE EDREGN_____  
EDREGN VTM OI-II V550.M0 IMSA 09/13/06 14:35:00 0B  
> This is a customized region screen  
=====  
RGNA IMSAMAST IMSADBRC IMSADLI IMSAIRLM IMSAMSG1 IMSAMSG2  
clas --n/a-- --n/a-- --n/a-- --n/a-- --none-- --none--  
cpu 13.51 .12 .12 .07 .05 .10  
ocup --n/a-- --n/a-- --n/a-- --n/a-- .00% .01%  
tran --n/a-- --n/a-- --n/a-- --n/a-- --none-- --none--  
term --n/a-- --n/a-- --n/a-- --n/a-- --n/a-- --n/a--  
.rc
```

Use the /SAVE command to save the custom screen space.

Use the /REP command to replace an existing screen.

To invoke the screen enter the screen name on the command line.

Make screens for various filter options needed.



Making Custom Screen Spaces

```
EWRGNA VTM OI-II V550.M0 IMSA 09/13/06 14:44:32
>
>                                         region screen
=====
RGNA IMSAMAST IMSADBRC IMSADLI IMSAIRLM IMSAMSG1
>.EXM
+ >> CB0170: 105 of 105 minor commands generated for RGNA <<
aenv  >> Environmental Display in Initialization <<
asid   X'00AC'  X'017B'  X'0095'  X'0081'
bfwt  --n/a--  --n/a--  --n/a--  --n/a--
call  --n/a-- 
cdmb  --n/a--  --n/a--  --n/a--  --n/a--
clas  --n/a--  --n/a--  --n/a--  --n/a-- --none--
cntn  --n/a--  --n/a--  --n/a--  --n/a--  no cont
coba  --n/a--  --n/a--  --n/a--  --n/a--  --no---
cpcb  --none-- 
cpu    13.59          .05
ctrm  ---N/A--- 
ctrn  ---N/A---  ---N/A---  ---N/A---  ---N/A---
ctsk  ---N/A--- 
dbpt  --n/a--  --n/a--  --n/a--  --n/a--
dbt   --n/a--  --n/a--  --n/a--  --n/a--
dedc  --n/a--  --n/a--  --n/a--  --n/a--
dedr  --n/a--  --n/a--  --n/a--  --n/a--
```

MAJOR command

Minor commands

Use the .EXM command to execute all the minors for a major

Custom screens may be made using major and minor commands and saved using the /SAVE command and updated using /REP.



Screen Logging

```
/LOG ON _____ KOIRGNA VTM LOG OI-II V550.M0 IMSA 09/13/06  
14:46:51 0B > Help PF1 Pack PF3 Up PF7 Down PF8 Zoom PF11  
> To view a topic below, enter a selection letter on the top line.  
> *-ALL REGIONS B-CONTROL C-DLI D-DBRC E-  
> G-FASTPATH H-BMP I-DB2 J-USER LIST K-  
=====  
> All Regions  
> For more information about a region (RGNA), logical terminal (VTM), transaction (TRAN), scheduling class (CLAS), current reference manager block (CDMB), or program specification block (PSBN), place the cursor on the item and press PF11.  
  
#RGNA 5  
  
RGNA IMSAMAST IMSADBC IMSADLI IMSAIRLM IMSAMSG1  
rgid --n/a-- --n/a-- --n/a-- --n/a-- 1  
term --n/a-- --n/a-- --n/a-- --n/a-- --n/a--  
tran --n/a-- --n/a-- --n/a-- --n/a-- --none--  
clas --n/a-- --n/a-- --n/a-- --n/a-- --none--  
cdmb --n/a-- --n/a-- --n/a-- --n/a-- --n/a--  
dbt .R .0 .0 .0 .0
```

Classic screens may be logged.

/LOG ON to turn on

/LOG OFF to turn off

Log output goes to sysout on the OMEGAMON collector address space.

Useful to snapshot some screens, or screens over a period of time.



Executing A Screen Space Based Upon A Timer TSF Command – Timed Screen Facility

```
KOIRGNA VTM LOG OI-II      V550.M0 IMSA 09/13/06 14:49:53  
.TSF01 TIME=1100 SS=EDREGN DAY=DAILY
```

.TSF01 command to enter a timer. Enter the time and the screen to execute.

```
KOIRGNA VTM LOG OI-II      V550.M0 IMSA 09/13/06 14:49:53  
.TSF00  
+ 1 TIME=1100 SS=EDREGN DAY=DAILY  
+ 2 TIME=0000 SS=*NONE* DAY=DAILY  
+ 3 TIME=0000 SS=*NONE* DAY=DAILY  
+ 4 TIME=0000 SS=*NONE* DAY=DAILY  
+ 5 TIME=0000 SS=*NONE* DAY=DAILY
```

.TSF00 command to list all the current timers that have been set.



TSF Requirements

- For TSF to operate the following is needed
 - ▶ An active OMEGAMON classic session
 - ▶ OMEGAMON running in auto update mode - /AUP ON
 - ▶ TSF has been set to ON - /TSF ON
- To log the screens execute by timer the Log needs to be set to ON

```
KOIOPEA VTM LOG OI-II      V550.M0 IMSA 09/13/06 14:51:57  0B
> Help PF1                      Back PF3          Save Profile PF22
=====
>                               SET DISPLAY OPTIONS
=====
> To change the value of an option, type the new value over the current one.
> Press ENTER to record the change.

OPTN
:   ASF           = ON        BELL           = ON
:   BELLINT       = 60.00     DATEFORMAT     = USA
:   FIRSTSCREEN   = KOINITZZ LOG             = ON
:   MINORCASE    = LOWER      SCREENCASE    = MIX
:   SCROLL        = PAGE      TSF             = ON
:   XLF           = ON        ZEROS          = ON
=====
```

Note Log is set to
ON and TSF is set
to ON.



A Note About Using Auto-update

```
KOIOPEB VTM LOG OI-II      V550.M0 IMSA 09/13/06 14:56:30  0B
> Help PF1                      Back PF3                  Save Profile PF22
=====
>                                     SET CONTROL FUNCTION OPTIONS
>
> To change the value of an option, type the new value over the current one.
> Press ENTER to record the change.

.SET
:   FGOLIMIT      =      64      FGOLOOP      = OFF
:   GDEVUCBS      =     200      INTERVAL      =      5.00
:   IODELAY        =       5      LOOPCOUNT    =     15000
:   LOOPTIME       =    10.00      PAGELIMIT    =      390
:   PEEKSIZE        =  16384      STATUSMODE   = OFF
:   OCMDMASTER     = ON
=====
```

The default auto update interval in Classic interface is 5 seconds.

RECOMMENDATION – Set the interval to a higher value – 30 or 60 seconds.



Classic Exceptions May Be Used To Interface With SA for z/OS Automation

```
KOIDIM4  VTM LOG OI-II  Y  
> Help PF1      Back PF3      Up PF7  
=====  
>  
          Set Message Queue Exceptions  
  
> To display the threshold of an exception, remove the > preceding XACB,  
> and type the exception name following LIST=.  
  
> To change the setting for an exception, type over the current setting  
> and press ENTER. To make your changes permanent, you must SAVE your  
> OMEGAMON profile.  
  
XACB LIST=TXIQ  
:  
+     DISPLAY Parameters:    THRESHOLD Parameters:    XLF Parameters:  
+:       State=ON           Threshold=8            Auto=OFF  
+:       Group=IM            Display=CLR2          Log=OFF  
+:       Bell=OFF            Attribute=NONE        Limit=0 (0)  
+:     BOX Parameters:      CYCLE Parameters:      Repeat=NO  
+:       Boxchar=NO BOX      ExNcyc=0             Persist=0  
+:       Boxclr=NONE         Stop=0 (0)           SS=  
+:       Boxattr=NONE        Cumulative=0
```

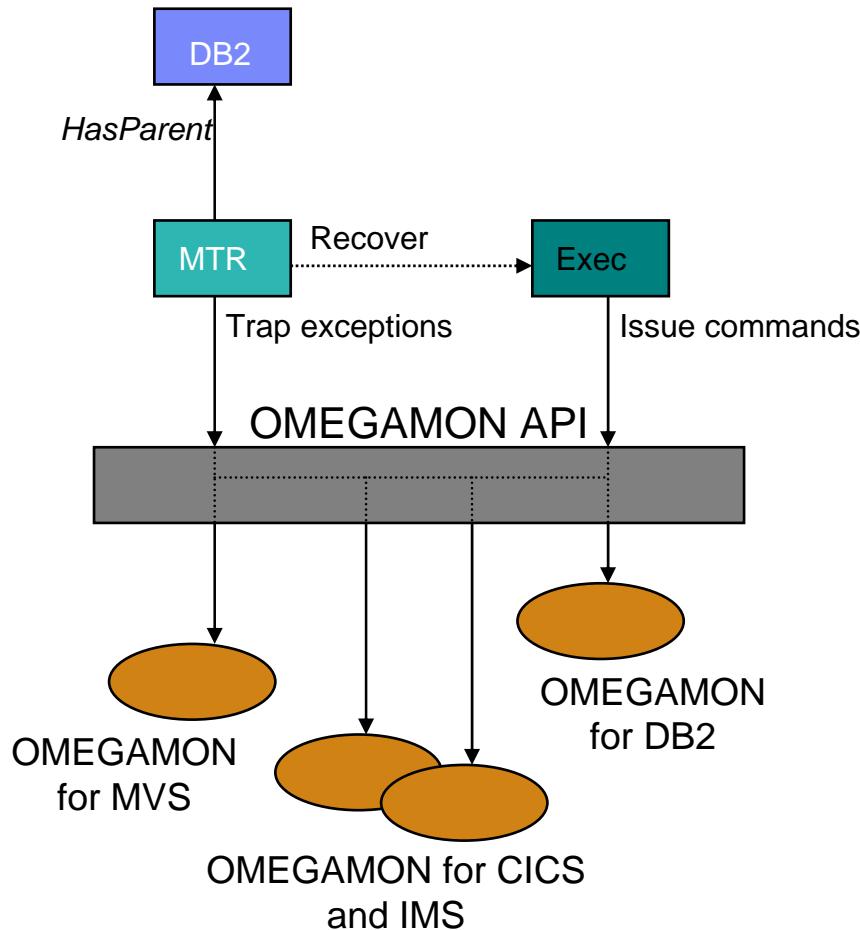
TXIQ classic exception

Threshold value

Thresholds may be stored in classic profiles. Classic exceptions may be referenced by automation.



OMEGAMON And SA Interoperation



- **Use of performance and availability information for application automation**
 - ▶ More facts, more accurate decisions
 - ▶ Sources: OMEGAMON MVS, DB2, CICS, IMS
- **Provides API to communicate with OMEGAMON monitors to**
 - ▶ Obtains and filters installation-defined exceptional conditions
 - ▶ Sends commands to OMEGAMON, for example to respond to such conditions
- **Provides exception monitor based on the Monitor Resource concept**
 - ▶ Monitors „interesting“ set of exceptions
 - ▶ Sets application health state based on existence of such exceptions
 - ▶ Provides means to react and resolve exceptional conditions



Tivoli Enterprise Portal (TEP) Interface Examples

- Monitoring view customization and flexibility
 - ▶ Create monitoring views specific to technical requirements
- Correlation and high level analysis
 - ▶ The ability to monitor form and integrated high level view
- Problem identification, notification, and isolation
 - ▶ Robust correlated alert generation
 - ▶ Ability to incorporate a broad array of information into an alert
- Flexible linking and cross navigation



Monitoring Flexibility And Customization

Create A Stopped And Bottlenecked Resource View

- Example - Use OMEGAMON XE to determine the likely cause of transaction workload queues
 - ▶ Include information on stopped resources that may be needed by the transactions
 - ▶ Include status and throughput information for key regions
 - ▶ Highlight potential problems using the TEP



TEP Workspace Customization

- OMEGAMON XE For IMS provides the ability to build customized real time displays (workspaces)
- Any of the product provided workspaces may be adjusted to meet user needs
- The user may make new workspaces as needed to target specific monitoring needs
 - ▶ Create workspaces to target specific technical problems
- These new workspaces are stored in the Tivoli Enterprise Portal (TEP) server
 - ▶ New workspaces may be used by any user with appropriate authority and access to the TEP



Leverage The Power Of OMEGAMON XE Create A 'Stopped Resource' Display

Tivoli Enterprise Portal Log out

File Edit View Help

File Explorer

Create a 'Stopped Resource' workspace to highlight if any key resources are being stopped

Easy to view from a single screen

IMS DB

- IMS IRLM Information
- IMS VSAM/OSAM Activity
- IMS TM

Physical Demo Business View

Dependent Region Overview

IMS ID	Region Name	Type	Transaction Name	PSB Name	Database Calls	Region Occupancy Percentage	Locks Held Count	BMP Checkpoint Count	Transaction Elapsed Time	Tr
IVP1	IMS91F11	FastPath	--None--	DFSIVP4	0	22.1	0	0	00:00:00	
IVP1	IMS91F12	FastPath	--None--	DFSIVP5	0	33.4	0	0	00:00:00	
IVP1	IMS91F13	FastPath	--None--	DBFSAMP3	0	0.10	0	0		
IVP1	IMS91M11	Message	--None--			88.3	0	0	00:00:00	
IVP1	IMS91M12	Message	--None--			81.1	0	0	00:00:00	

Note Region Occupancy %

Regions

Transactions Queued Or Stopped

Input Queue Length	Status	Program Type	Processing Status	IMS ID	Transaction Name	PSB Name	Multi Segment	Messages Enqueued

Transactions

Databases

DMBs Stopped

IMS ID	Database Name	DDName	Type	EXCP Count	Status	Message Ident

PSBs Stopped

IMS ID	PSB Name	Scheduling State	Active Count	PSB Resident Status	Scheduling Type
IVP1	DFSIVP34	Program_Stopped	0	NotInMemory	Serial

PSBs

Hub Time: Mon, 06/19/2006 08:38 AM

Server Available

EW IMS Stopped Resources - 9.73.221.32 - SYSADMIN

How To Create A Custom Workspace

The screenshot shows the Tivoli Enterprise Portal interface with a 'Properties' dialog box open. The dialog has tabs for 'Query', 'Filters', 'Thresholds', and 'Style'. The 'Filters' tab is selected, showing a grid of columns from the preview table ('Transactions Queued Or Stopped') and checkboxes to filter them. Arrows point from callout boxes to specific parts of the interface:

- An arrow points from the text "Go to 'Properties' and select the Filters Tab" to the 'Filters' tab in the dialog.
- An arrow points from the text "Select which columns are to appear in the workspace." to the column selection grid in the 'Filters' tab.
- An arrow points from the text "Query controls what data appears on the screen" to the 'Query' tab in the dialog.
- An arrow points from the text "Specify which conditions will be included" to the filter checkboxes in the 'Filters' tab.

Preview
Transactions Queued Or Stopped

Input Queue Length	Status	Program Type	Processing Status	IMS ID	Transaction Name	PSB Name	Multi Segment	Message Enqueued
1	Queued	Online	Non_Competing	IVP1				

Query **Filters** **Thresholds** **Style**

Filters

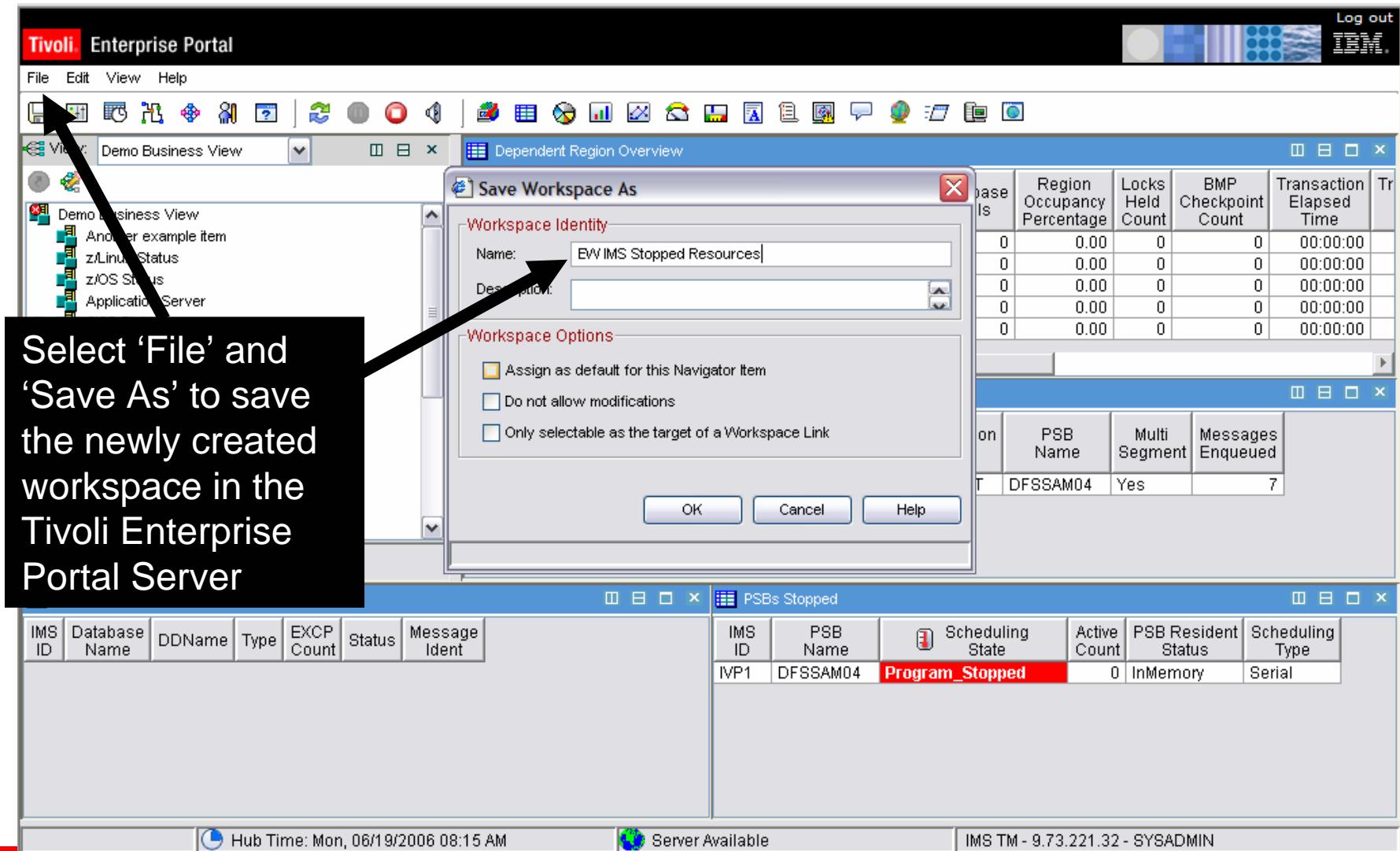
Input Queue Length	Status	Program Type	Processing Status	IMS ID	Transaction Name	PSB Name	S
	<input checked="" type="checkbox"/> == Queued	<input checked="" type="checkbox"/> == Queuing	<input checked="" type="checkbox"/> == Stopped				
3							
4							
5							

Data Snapshot

Input Queue Length	Status	Program Type	Processing Status	IMS ID	Transaction Name	PSB Name	S
0	Idle	Online	Non_Competing	IVP1	ADDINV	DFSSAM04	Ye
1	Queued	Online	Non_Competing	IVP1	ADDPART	DFSSAM04	Ye
0	Idle	Online	Competing	IVP1	CLOSE	DFSSAM05	Ye
0	Idle	Online	Competing	IVP1	DISBURSE	DFSSAM06	Ye
0	Idle	Online	Non_Competing	IVP1	DLETINV	DFSSAM04	Ye
0	Idle	Online	Non_Competing	IVP1	DLETPART	DFSSAM04	Ye
0	Idle	Online	Competing	IVP1	DSPALLI	DFSSAM07	Ye

OK Cancel Apply Test Help

Save The New Workspace



Correlation And Navigation

- Correlation may take many forms
 - ▶ An integrated graphic dashboard view
 - ▶ Intelligent linking and cross product navigation
 - Links may be from tabular detail views
 - Links may also be from graphics and icons
 - ▶ Intelligent alerts that integrate information from a variety of sources



Links May Be Built From Either Panel Detail Or Graphics

The link wizard will allow for building links to provide drill down navigation.

Link from icons or from other areas in the panel.

Note! All times are specified in Central Time. Date and time is Friday, December 9, 2005. Display calendar for: 1 week.

	12/09/05 07:28:46	0	BPO	4000	
Friday, December 9, 2005	00:00 AM - 12:00 PM	12/09/05 07:28:46	0	BP1	4000
Saturday, December 10, 2005	12:00 AM - 4:00 PM	12/09/05 07:28:46	0	BP2	4000

Link from the panel or link from an icon

z/OS Performance

z/OS Performance

Ready Hub Time: Fri. 12/09/2005 07:21 AM

File Edit View Help

Demo System

System Detailed Lock Co Subsys Log Manager Utility Jobs EDM Pool Buffer Pool Management Volume Activity

Take Action... Edit Action... Link Wizard... Export... Split vertically Split horizontally Remove Print Preview... Print... Properties...

DNE

Currently lo 63-1029 19

TEXT

28

Example – A Link From Panel Detail

File Edit View Help

Physical

IMS Device Activity

- IMS IRLM Informat
- IMS OSAM BP Stat
- IMS OTMA Status
- IMS Recovery Con
- IMS System Excep
- IMS System Inform
- IMS Transaction S
- IMS VSAM Activity
- IMS VSAM/OSAM A
- Startup Parameter
- MQSeries Status D
- Coupling Facility C

Transaction Summary

Description	Count of Transactions
Total_Transactions	325
Competing_Transactions	116
Non_Competing_Transactions	209
Transactions_In_Active_State	23
Show Transactions with Activity	0
Show ALL Omegamon XE Messages	3
Link Wizard...	322
Link Anchor...	22
FastPath_Batch_Transaction_Type	27
FastPath_Batch_Transaction_Typ	0

Transactions by State

Description	Count of Transactions
Transactions_In_Active_State	0
Transactions_In_Idle_State	300
Transactions_In_Locked_State	0
Transactions_In_Purged_State	0
Transactions_In_Queue	0
Transactions_In_PStopped_State	0
Transactions_In_Stopped_State	1
Transactions_In_Suspended_State	0
Transactions_In_UStopped_State	0
Transactions_In_Queueing_State	0
Transactions_In_No_Regions_State	24
Transactions_In_RCTE_Not_Active_State	0

Transaction Counts

Category	Count
Synchronous_Transactions	325
Transactions_In_Idle_State	300
Total_Transactions	325

5 06:38 PM Server Available. IMS Transaction Summary - hqdnt1.usca.ibm.com - EWOOD *ADMIN MODE*

Link navigation may be done from panel detail.

Example – drill down to see transaction status detail.

Link Navigation May Be From Graphic Icons

Tivoli Enterprise Portal

File Edit View Help

View: Demo Business Vi...

Graphic View

Application View

App Server
zLinux Status

Middleware
CPU Utilization

CICS
CICS Status

Network
Network Performance

DB2
DB2 Database

IMS
IMS DB

Operating System
z/OS Status

zLinux

Link navigation may be done from icons as well.

Demo Business View

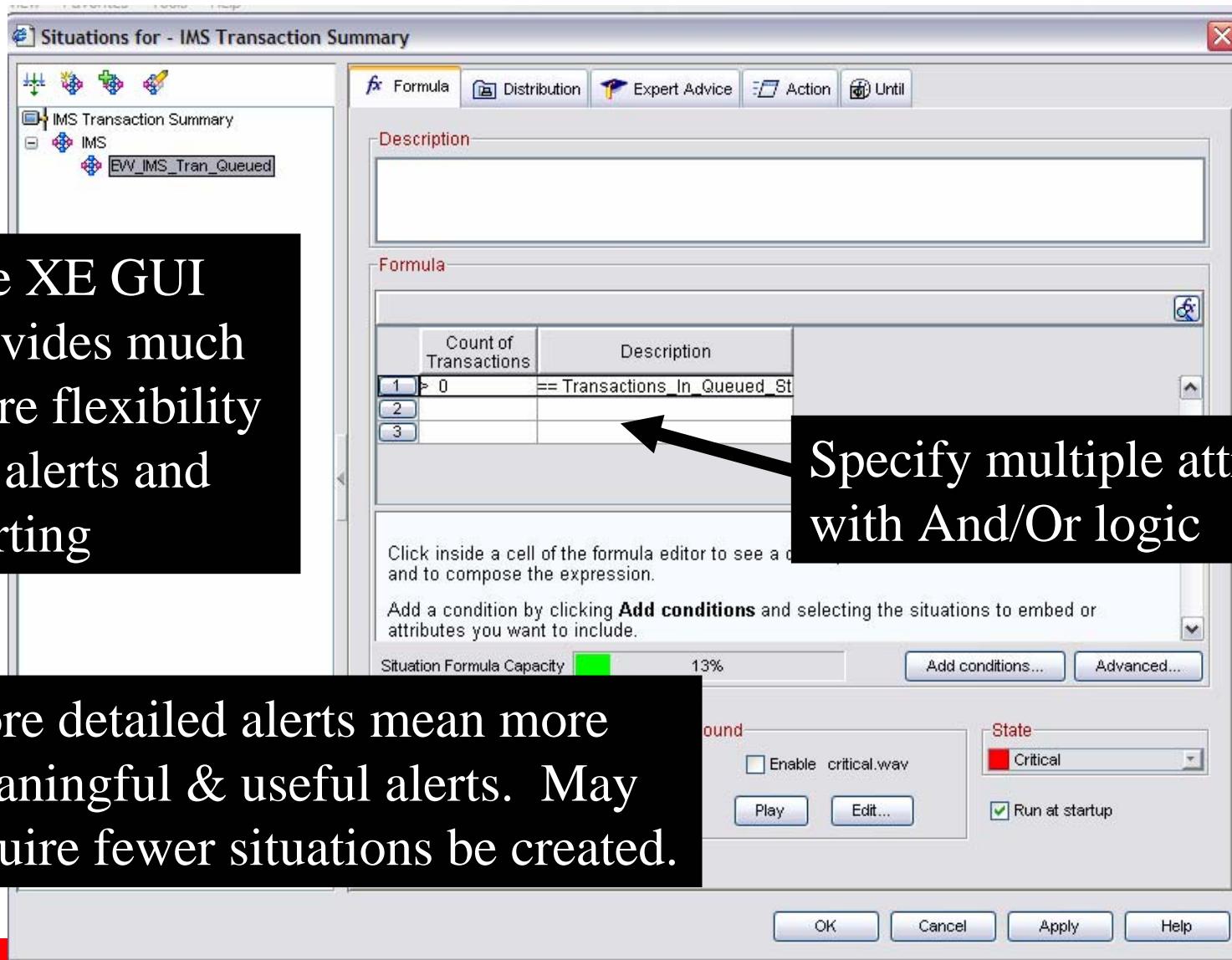
Situations Allow For Powerful And Flexible Alerts

- OMEGAMON XE situation capabilities allow for more intelligent alerts that integrate and correlate status and information
- Situations may incorporate Boolean logic
- Situations may be correlated with other situations
- Situations may in turn drive automated corrections



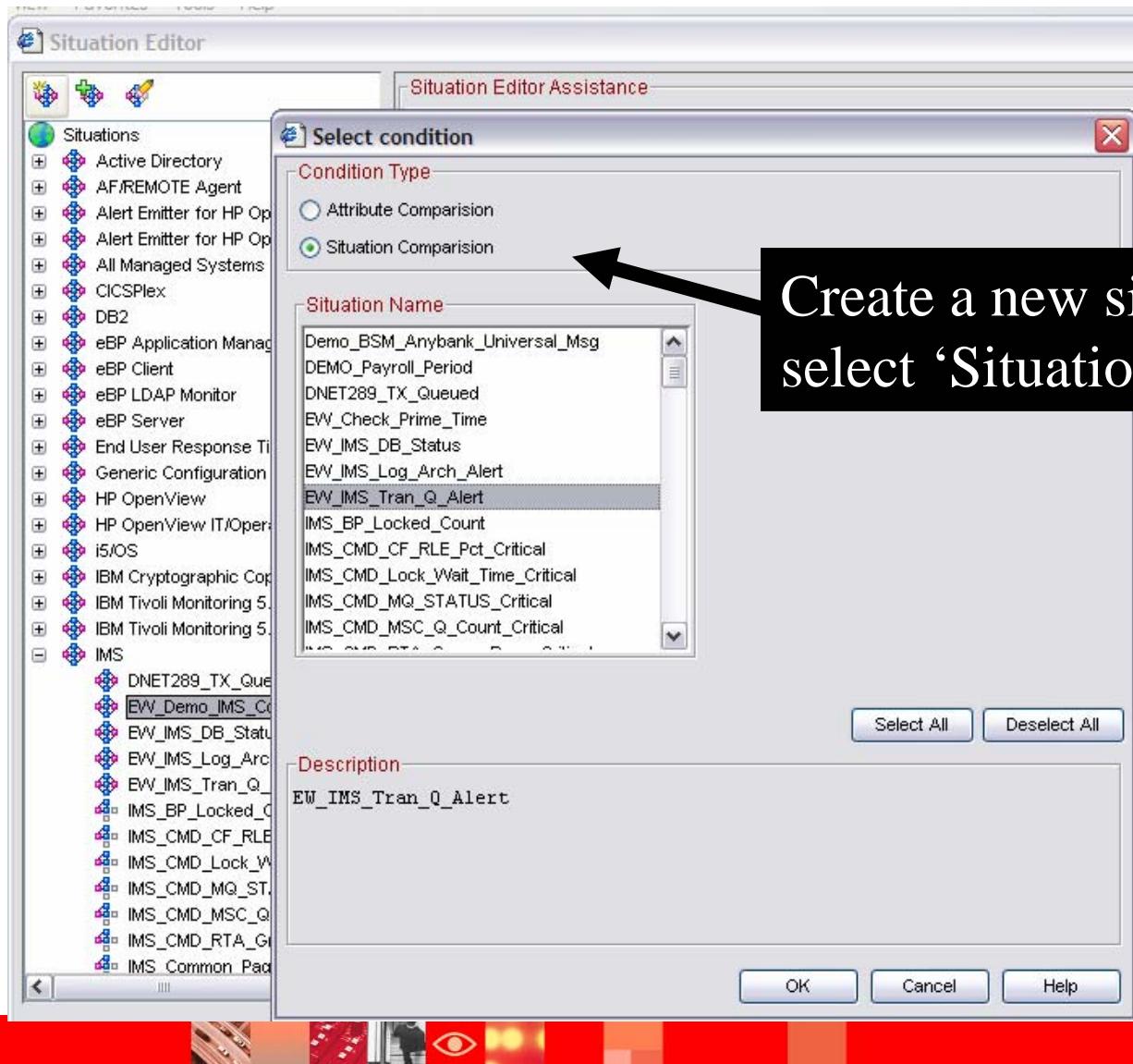
Using Boolean Logic For More Alert Flexibility

The XE GUI provides much more flexibility for alerts and alerting



More detailed alerts mean more meaningful & useful alerts. May require fewer situations be created.

Situation Correlation - Example



Create a new situation and
select 'Situation Comparison'

Correlated Alert Example

The screenshot shows the IBM Tivoli Situation Editor window. On the left is a tree view of situations, including Active Directory, AF/REMOTE Agent, Alert Emitter for HP OpenView, Alert Emitter for HP OpenView/IT, All Managed Systems, CICSplex, DB2, eBP Application Manager, eBP Client, eBP LDAP Monitor, eBP Server, End User Response Time, Generic Configuration, HP OpenView, HP OpenView IT/Operations, i5/OS, IBM Cryptographic Coprocessor, IBM Tivoli Monitoring 5.x Endpoint, IBM Tivoli Monitoring 5.x Endpoint, and IMS. Under IMS, several specific alerts are listed: DNET288_TX_Queue, EW_Demo_IMS_Corr_Alert, EW_IMS_DB_Status, EW_IMS_Log_Arch_Alert, EW_IMS_Tran_Q_Alert, IMS_BP_Locked_Count, IMS_CMD_CF_RLE_Pct_Critical, IMS_CMD_Lock_Wait_Time_Critical, IMS_CMD_MQ_STATUS_Critical, IMS_CMD_MSC_Q_Count_Critical, IMS_CMD_RTA_Group_Responsiveness, and IMS_Common_Packets_High.

The main area contains tabs for Formula, Distribution, Expert Advice, Action, and Util. The Formula tab is selected, showing a grid editor for defining conditions. Two conditions are defined:

1	EW_IMS_Tran_Q_Alert	EW_IMS_DB_Status
2	== True	== True
3		

A large callout box with a black arrow points from the text "Correlates two situations. Both must be true for this situation to be true." to the second condition cell in the grid.

At the bottom of the formula editor, there is descriptive text: "Click inside a cell of the formula editor to see a description of the attribute and to compose the expression." Below this, instructions say: "Add a condition by clicking **Add conditions** and selecting the situations to embed or attributes you want to include." A second callout box with a black arrow points from the text "Select 'Add Conditions' to add additional logic." to the "Add conditions..." button.

Other settings shown include "Situation Formula Capacity" at 7%, "Sampling interval" set to 0:0:15:0, and a checked "Run at startup" option.

Buttons at the bottom of the window include OK, Cancel, Apply, and Help.

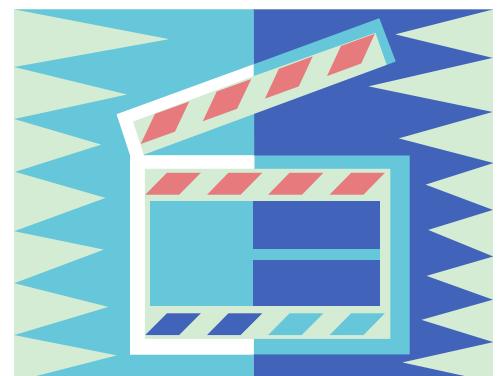
Correlates two situations. Both must be true for this situation to be true.

Select 'Add Conditions' to add additional logic.

OMEGAMON V4.1.0 – Trends and Directions

Objectives

- Customer Satisfaction
 - ▶ Globalization
 - ▶ Exploitation of new OS and middleware releases
 - ▶ Customer Enhancements
- Portfolio Simplification
 - ▶ Candle Management Workstation and OMEGAMON II continued movement to XE
 - ▶ Merging of functionality in product suites where it makes sense
- Integration
 - ▶ Dynamic Workspace Linking
 - ▶ Launch in Context
 - TSLA, TBSM, and more
 - ▶ Tivoli Data Warehouse – pruning and aggregation
- Serviceability
 - ▶ Problem Determination Guides
 - ▶ ICAT enhancements

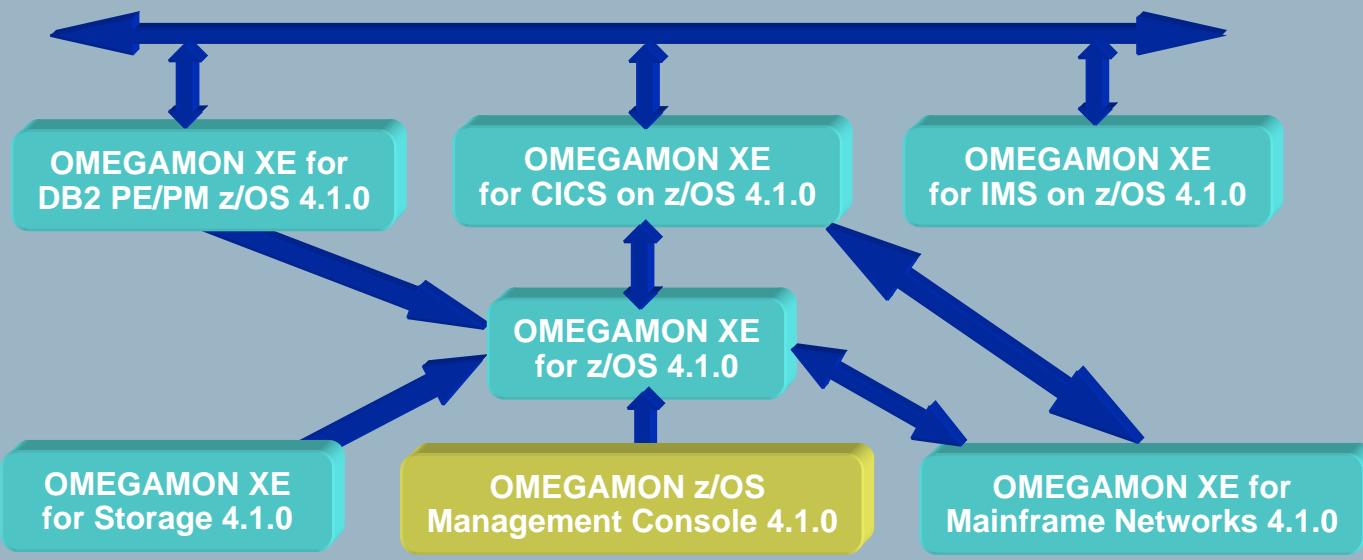


Dynamic Workspace Linking Functionality

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



Summary And General Recommendations

- Understand and exploit the strengths of OMEGAMON
- Tivoli Enterprise Portal (TEP) GUI Interface
 - ▶ Correlation and high level analysis
 - ▶ Problem identification, notification, and isolation
 - ▶ Robust correlated alert generation
 - ▶ Integrated automation with corrective actions
- 3270 Classic Interface
 - ▶ Deep dive detailed analysis
 - ▶ Command driven with the ability to build custom screen spaces
 - ▶ Screen logging and automated screen facility options



Thank You!!!!

