



IBM Software Group

# Improve System z Availability By Becoming An OMEGAMON Power User

Ed Woods  
IBM Corporation  
[woodse@us.ibm.com](mailto:woodse@us.ibm.com)

## Important Notice And Disclaimer

- THE INFORMATION CONTAINED IN THIS PRESENTATION IS PROVIDED FOR INFORMATIONAL PURPOSES ONLY.
- WHILE EFFORTS WERE MADE TO VERIFY THE COMPLETENESS AND ACCURACY OF THE INFORMATION CONTAINED IN THIS PRESENTATION, IT IS PROVIDED “AS IS”, WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED.
- IN ADDITION, THIS INFORMATION IS BASED ON IBM’S CURRENT PRODUCT PLANS AND STRATEGY, WHICH ARE SUBJECT TO CHANGE BY IBM WITHOUT NOTICE.
- IBM SHALL NOT BE RESPONSIBLE FOR ANY DAMAGES ARISING OUT OF THE USE OF, OR OTHERWISE RELATED TO, THIS PRESENTATION OR ANY OTHER DOCUMENTATION.
- NOTHING CONTAINED IN THIS PRESENTATION IS INTENDED TO, OR SHALL HAVE THE EFFECT OF:
  - CREATING ANY WARRANTY OR REPRESENTATION FROM IBM (OR ITS AFFILIATES OR ITS OR THEIR SUPPLIERS AND/OR LICENSORS); OR
  - ALTERING THE TERMS AND CONDITIONS OF THE APPLICABLE LICENSE AGREEMENT GOVERNING THE USE OF IBM SOFTWARE.

# Agenda

- What is a Power User?
- How to become A Power User
- OMEGAMON – Interfaces & Options
- OMEGAMON – Power User Examples
- OMEGAMON – Power User Resources

## What Is A Power User?

- As defined by Wikipedia
  - ▶ “A power user is a user of a personal computer who has the ability to use advanced features of programs which are beyond the abilities of "normal" users”
- Ed Woods’ definition
  - ▶ A user of computer technology who takes that technology and crafts it to more fully fill their needs

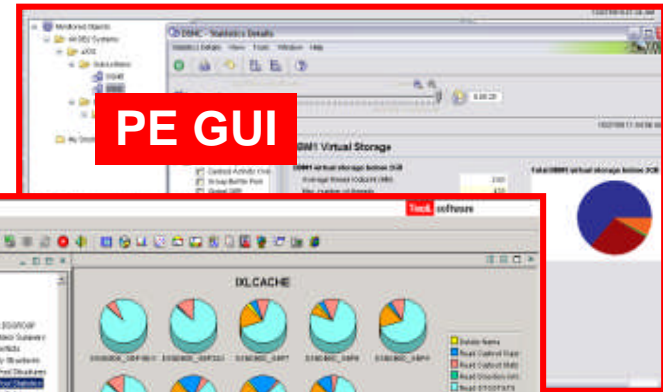
# OMEGAMON XE Options & Interfaces

- GUI Interfaces**

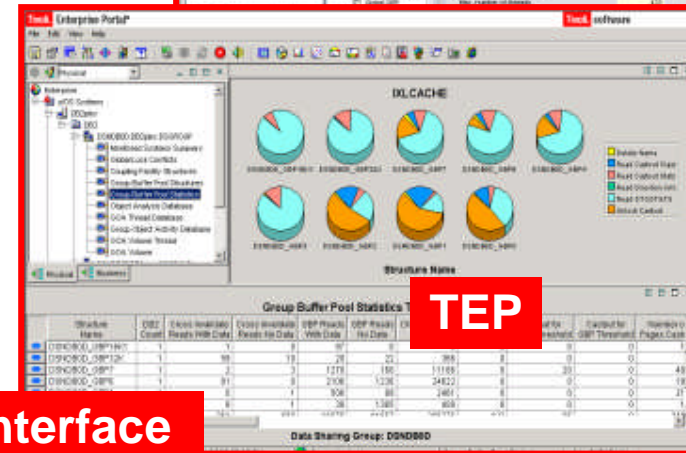
- ▶ Tivoli Enterprise Portal (TEP)
- ▶ OMEGAMON DB2 PE GUI
- ▶ Real time and historical
- ▶ Automation & alerts – Situations & Policies

- 3270 interface**

- ▶ OMEGAMON Classic, CUA and Enhanced 3270
- ▶ Real Time & Historical
- ▶ Warning & Critical exception alerts



**PE GUI**

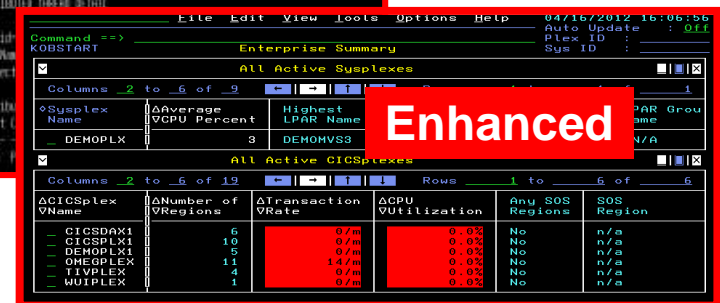


**TEP**

**Each user interface offers particular capabilities and advantages**



**Classic**



**Enhanced**

# OMEGAMON Classic Interface Usage And Considerations

- “Classic” Interface - the original OMEGAMON interface
  - ▶ The “Big Four” OMEGAMONs offer Classic interface
    - z/OS, CICS, DB2, IMS
- OMEGAMON Classic Interface is the original “Power User” interface
  - ▶ Fast and reliable
  - ▶ Powerful command driven
  - ▶ Flexible and customizable
- Typical Classic interface power user scenarios
  - ▶ Quickly create custom classic workspaces using major and minor commands
  - ▶ Screen logging
  - ▶ Timed screen facility – TSF

# Classic Interface Example

## OMEGAMON IMS - Classic 3270 Interface Main Menu

```
_____ ZMENU   VTM   OI-II   V510./C IMSA 07/30/13 13:36:33   B
> Help/News PF1           Exit PF3           Keys PF5           Command Mode PF12
> 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)
- H TRANS HISTORY ... Application Trace and Journal Facility
- M MONITOR ..... IMS status, graphs, and time controlled operations
- W WORKLOAD ..... PSBs, DMBs, transactions, regions, and classes
- Y OTMA ..... OTMA status, TEMPLERS, and TPIPEs
- 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 .... External subsystems (DB2 and MQ) and
- T TOOLS ..... Operator tools
- P PROFILE ..... Profile maintenance and session settings
>
```

Select letter options to  
navigate to different displays

# Classic Interface

## MAJOR And minor Commands

```

_____ KOIRGNA  VTM      OI-II    V510./C  IMSA 07/30/13 13:38:06  B
> 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-ESS      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 program specification block (PSBN), place the cursor on the
> appropriate MAJOR command
#RGNA          26
RGNA  IMSAMAST  IMSADBRC  IMSADLI  IMSAIRLM  CICSAOR1  CICSAOR1  CICSAOR1  CICSAOR1+
rgid  --n/a--   --n/a--   --n/a--   --n/a--   30        28        5         4
term  --n/a--   --n/a--   --n/a--   --n/a--   --n/a--   --n/a--   --n/a--   --n/a--
tran  --n/a--   --n/a--   --n/a--   --n/a--   --n/a--   --n/a--   --n/a--   none--
psbn  --n/a--   --n/a--   --n/a--   --n/a--   none--    none--    none--    none--
clas  --n/a--   --n/a--   --n/a--   --n/a--   none--    none--    none--    none--
cdmb  --n/a--   --n/a--   --n/a--   --n/a--   n/a--     n/a--     n/a--     n/a--
    
```



## 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 Timed Screen Facility (TSF)

# Creating A Custom Region Overview Screen

The MPP major command shows all the MPP message regions in the IMS subsystem.

Options could include using RGNA to show all the IMS regions, etc.

```

RCIDBL  VM  01  11  VS10.7C  IMS  07/30/13  13:41:50  B
MPP  IMSAMSG1  IMSAMSG2
clas  --none--  --none--
cpu   .01      .02
ocup  --init--  --init--
tran  --none--  --none--
term  --n/a--   --n/a--
.RC

```

The .RC option will repeat and wrap the commands

There are over 100 minors for the MPP 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  V510./C  IMSA  07/30/13  13:45:40
MPP  IMSAMSG1  IMSAMSG2
clas  --none--  --none--
cpu   .01      .02
ocup  --init--  --init--
tran  --none--  --none--
term  --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

```

II      V510./C IMSA 07/30/13 14:01:23
MPP    IMSAMSG1 IMSAMSG2
>.EXM
+      >> CD0170: 140 of 140 minor commands generated for MPP <<
acti   15:30 HR 15:30 HR
aenv   >> Environmental Display in Init
asid   X'0041'  X'0042'
auth   --n/a--  --n/a--
bftw   --n/a--  --n/a--
call   --n/a--
cdmb   --n/a--  --n/a--
chng   --n/a--  --n/a--
clas   --none--
cmd    --n/a--
cntn   --n/a--  --n/a--
coba   ---no---  ---no---
cpcb   --none--  --none--
cpu    .01      .02
cpup
ctrm   ---N/A---
ctrn   ---N/A---  ---N/A---
ctsk   ---N/A---
    
```

**MAJOR command**

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

**Minor commands**

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

## Screen Logging

```
/LOG ON _____ EDREGN VTM LOG OI-II V510./C IMSA
07/30/13 14:03:09
MPP  IMSAMSG1 IMSAMSG2
clas --none-- --none--
cpu   .01     .02
ocup  --init-- --init--
tran  --none-- --none--
term  --n/a--  --n/a--
.RC
```

**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 V510./C IMSA 07/30/13 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 V510./C IMSA 07/30/13 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 V510./C IMSA 07/30/13 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.**

# OMEGAMON

## Power User - Resources And References

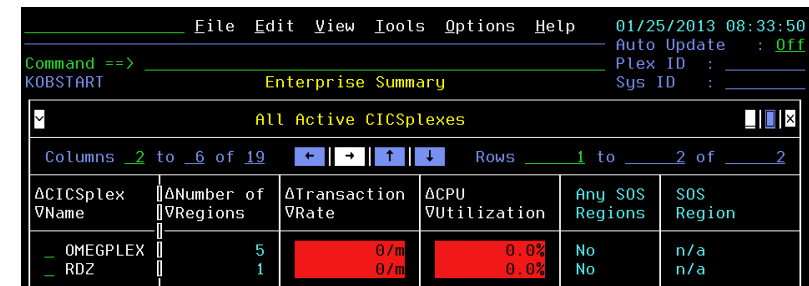
- OMEGAMON z/OS Classic Command Reference – SC27-4031
  - ▶ <http://www.ibm.com/e-business/linkweb/publications/servlet/pbi.wss?CTY=US&FNC=SRX&PBL=SC27-4031-00>
- OMEGAMON IMS Classic Command Reference – SC27-4437
  - ▶ <http://www.ibm.com/e-business/linkweb/publications/servlet/pbi.wss?CTY=US&FNC=SRX&PBL=SC27-4437-01>
- OMEGAMON DB2 Classic Command Reference -
  - ▶ [http://pic.dhe.ibm.com/infocenter/tivihelp/v42r1/topic/com.ibm.omegamon.xe.pe\\_db2.doc\\_5.1.1/ko2ci\\_book.pdf](http://pic.dhe.ibm.com/infocenter/tivihelp/v42r1/topic/com.ibm.omegamon.xe.pe_db2.doc_5.1.1/ko2ci_book.pdf)
- OMEGAMON CICS Users Guide – SC14-7474
  - ▶ <http://www.ibm.com/e-business/linkweb/publications/servlet/pbi.wss?CTY=US&FNC=SRX&PBL=SC14-7474-00>



# OMEGAMON Enhanced 3270 UI

## The Newest OMEGAMON User Interface

- All the core OMEGAMONs offer support for the Enhanced 3270 UI
  - ▶ OMEGAMON z/OS, CICS, IMS, DB2, Storage, Mainframe Networks, Messaging
- Enhanced 3270 UI offers many advantages
  - ▶ Speed of native 3270 user interface for z/OS based monitoring
  - ▶ Superior integration across the monitoring environment
  - ▶ Ease of use
- Enhanced 3270 UI power user scenarios
  - ▶ Highlighting critical thresholds of monitored fields
  - ▶ Modifying how data is displayed on a panel
  - ▶ Adding zoom navigation to a critical field
  - ▶ Adding options to popup navigation



ΔCICSplex VName	ΔNumber of VRegions	ΔTransaction VRate	ΔCPU VUtilization	Any SOS Regions	SOS Region
OMEGPLEX	5	0/m	0.0%	No	n/a
RDZ	1	0/m	0.0%	No	n/a

# Enhanced 3270 UI – Common Customization Options

File Edit View Tools Navigate Help 11/15/2013 14:05:05  
 Auto Update : Off  
 Command ==> CICSplex : CICSDA02  
 KCPRGNO CICS Region Overview Region : CICSDA02

**CICSDA02** **Highlight critical fields**

System ID.....	MVSE	CICS Region Name.....	CICSDA02
Worst Region Service Class	n/a	Region's Worst Perf. Index	0.00%
CPU Utilization.....	0.0%	CICS TOD Updated.....	Yes
Transaction Rate.....	0/m	Maximum Tasks Percent....	1%
Enqueue Waits.....	0	Queued Remote Requests...	0
SOS.....	No	Stg. Violations last hour.	0
AIDs.....	0	ICEs.....	4
Current VSAM String Waits.	0	Current VSAM Buffer Waits.	0
Any Current WS Faults....	No	Any Current WS Timeouts...	No
CICS TOD Clock.....	14:05:04	CICS Version.....	6.8.0

**z/OS Information**

Largest Contiguous LSQA...	1396K	Largest Contiguous OSCOR..	1396K
Page Rate.....	0.0/s	I/O Rate.....	0.0/s
Working Set Size.....	32292K	Region Status.....	N/S

**Highest CPU Tasks** **Customize popup options** **Change field sequence**

Rows 1 to 3 of 3

ΔTransaction VID	ΔCPU Time	ΔElapsed Time	Task State	Wait Type	Resource Type	+Resource Name
- COIE	8.125s	2d 17h	Suspend	TaskCntl	USERWAIT	EMST
- CONL	0.027s	2d 17h	Suspend	TaskCntl	USERWAIT	Work
- COIO	0.000s	2d 17h	Suspend	TaskCntl	USERWAIT	Work

File Edit View Tools Options Help 01/25/2013 08:33:50  
 Auto Update : Off  
 Command ==> Plex ID :  
 KOBSTART Enterprise Summary Sys ID :

All Active CICSplexes

Columns 2 to 6 of 19 Rows 1 to 2 of 2

ΔCICSplex ▽Name	ΔNumber of ▽Regions	ΔTransaction ▽Rate	ΔCPU ▽Utilization	Any SOS Regions	SOS Region
_ OMEGPLEX	5	0/m	0.0%	No	n/a
_ RDZ	1	0/m	0.0%	No	n/a

Highlight  
Monitored  
Fields

Menu Utilities Compilers Help

BROWSE RKANPAR(KCPTHRSH) - 0 Line 00000026 Col 001 080

```

*****
IF ( OMCICS.KCPPLX.TRANRATE GT 1000/MIN OR
    OMCICS.KCPPLX.TRANRATE LT 100/MIN
)
THEN DO
    STATUS ( CRITICAL 9 )
ENDDO
IF ( OMCICS.KCPPLX.TRANRATE EQ 900/MIN<>1000/MIN OR
    OMCICS.KCPPLX.TRANRATE EQ 100/MIN<>300/MIN
)
THEN DO
    STATUS ( WARNING 4 )
ENDDO
IF ( OMCICS.KCPPLX.CPUUTIL GT 300.0% OR
    OMCICS.KCPPLX.CPUUTIL LT 10.0%
)
THEN DO
    STATUS ( CRITICAL 9 )
ENDDO
IF ( OMCICS.KCPPLX.CPUUTIL EQ 200.0%<>300.0% OR
    OMCICS.KCPPLX.CPUUTIL EQ 10.0%<>20.0%
)
THEN DO
    STATUS ( WARNING 4 )
ENDDO
    
```

Thresholds control highlighting

Tran rate  
threshold

CPU  
threshold

Critical

Warning

Critical

Warning

# Fields May Be Moved

## Example - The Default OMEGAMON DB2 KDPTHRD Panel

File Edit View Tools Options Help 04/22/2013 09:32:30

Command => KDPTHRD DB2 Active Threads for DSNB

Auto Update : Off  
SMF ID : MVSE  
DB2 ID : DSNB

Columns 2 to 13 of 21

ΔPlan	P/C	ΔAuth	ΔCorr	ΔElapsed Time	ΔCP CPU	ΔIn-DB2	Elapsed Time	ΔIn-DB2	CP CPU	ΔWait Time	ΔDB2	ΔGet	ΔUpdates	ΔCom
—	DISTSERV		QWT0006	db2jcc_appli	0.000s	0.0	0.000s	0.000s	0.000s	0.000s	WAIT-REMREQ	0	0	0
—	DISTSERV		QWT0005	db2jcc_appli	0.000s	0.0	0.000s	0.000s	0.000s	0.000s	WAIT-REMREQ	0	0	0
—	DISTSERV		QWT0006	db2jcc_appli	0.000s	0.0	0.000s	0.000s	0.000s	0.000s	WAIT-REMREQ	0	0	0
—	DISTSERV		QWT0003	db2jcc_appli	0.000s	0.0	0.000s	0.000s	0.000s	0.000s	WAIT-REMREQ	0	0	0
—	DISTSERV		QWT0007	db2jcc_appli	0.000s	0.0	0.000s	0.000s	0.000s	0.000s	WAIT-REMREQ	0	0	0
—	DISTSERV		QWT0006	db2jcc_appli	0.000s	0.0	0.000s	0.000s	0.000s	0.000s	WAIT-REMREQ	0	0	0
—	DISTSERV		QWT0005	db2jcc_appli	1h 03m	0.0	0.022s	0.000s	0.000s	0.000s	WAIT-REMREQ	0	0	0
—	DISTSERV		QWT0007	db2jcc_appli	0.000s	0.0	0.000s	0.000s	0.000s	0.000s	WAIT-REMREQ	0	0	0
—	DISTSERV		QWT0007	db2jcc_appli	0.000s	0.0	0.000s	0.000s	0.000s	0.000s	WAIT-REMREQ	0	0	0
—	DISTSERV		QWT0003	db2jcc	0.000s	0.0	0.000s	0.000s	0.000s	0.000s	MREQ	0	0	0
—	DISTSERV		QWT0005	db2jcc	0.000s	0.0	0.000s	0.000s	0.000s	0.000s	MREQ	0	0	0
—	K02PLAN		DB2PM	DB2PM							DB2	149575	38416	
—	K02PLAN		DB2PM	DB2PM							DB2	3973	144	
—	DB2PM		DB2PM	DB2PM							DB2	1495481	0	
—	?RRSAF		OSCADMIN	DSNBADM							DB2	30776	0	
—	?RRSAF		OSCADMIN	DSNBADM							MREQ	0	0	
—	?RRSAF		QWT0005	db2jcc							MREQ	71	0	
—	DISTSERV		QWT0005	db2jcc							MREQ	0	0	

Rows 1 to 18 of 18

The panel before  
Scroll may be required to see workstation ID

File Edit View Tools Options Help 04/22/2013 09:32:52

Command => KDPTHRD DB2 Active Threads for DSNB

Auto Update : Off  
SMF ID : MVSE  
DB2 ID : DSNB

Columns 13 to 20 of 21

ΔPlan	ΔCommits	ΔSync Reads	ΔPrefetch Requests	ΔElapsed Per Commit	In-DB2 Per Commit	Workstation ID	Transaction ID	+End User ID	
—	DISTSERV	0	0	0	0.000s	0.000s	ibm-b8ccae07100	db2jcc_application	QWT0006
—	DISTSERV	0	0	0	0.000s	0.000s	ibm-b8ccae07100	db2jcc_application	QWT0005
—	DISTSERV	0	0	0	0.000s	0.000s	ibm-b8ccae07100	db2jcc_application	QWT0006
—	DISTSERV	0	0	0	0.000s	0.000s	ibm-b8ccae07100	db2jcc_application	QWT0003
—	DISTSERV	0	0	0	0.000s	0.000s	ibm-b8ccae07100	db2jcc_application	QWT0007
—	DISTSERV	0	0	0	0.000s	0.000s	ibm-b8ccae07100	db2jcc_application	QWT0006
—	DISTSERV	38	0	0	1m 39s	0.000s	ibm-b8ccae07100	db2jcc_application	QWT0005
—	DISTSERV	38	0	0	1m 39s	0.000s	ibm-b8ccae07100	db2jcc_application	QWT0007
—	DISTSERV	38	0	0	1m 39s	0.000s	ibm-b8ccae07100	db2jcc_application	QWT0003
—	DISTSERV	38	0	0	1m 39s	0.000s	ibm-b8ccae07100	db2jcc_application	QWT0005
—	K02PLAN	15389	96	13	19.974s	0.002s	RRSAF		DB2PM
—	K02PLAN	7	286	407	12h 11m	0.026s	RRSAF		DB2PM
—	DB2PM	358342	88	153721	0.857s	0.000s	RRSAF		DB2PM
—	?RRSAF	5125	21	1	59.979s	0.000s	RRSAF	DSNBADMT_DMN	OSCADMIN
—	?RRSAF	1	0	0	3d 13h	0.000s	RRSAF	DSNBADMT_II	OSCADMIN
—	DISTSERV	1	0	0	3d 13h	0.000s	ibm-b8ccae07100	db2jcc_application	QWT0005
—	DISTSERV	3035	25	1	1m 41s	0.000s	ibm-b8ccae07100	db2jcc_application	QWT0005

# How To Move The Workstation ID Column Modify The DISPLAYCOLS Command

Note – updated panel s/b stored in UKANWENU

```

File Edit Edit_Settings Menu Utilities Comp
EDIT
000119 DISPLAYCOLS= 'TDIDPLAN,
000120 THDXPIND (CAPTION="P/C"), /*@D2A*/
000121 UTDIDAUT (CAPTION="Auth ID",W=8), /*@
000122 TDIDCORR (CAPTION="Corr ID"),
000123 THDXETIM,
000124 THDXCPUR, /*@
000125 WHNDBTIM (CAPTION="In-DB2_Elapsed_Time"), /*@
000126 WHNDBTCT (CAPTION="In-DB2_CP_CPU"), /*@
000127 THWTTOTW,
000128 TDIDDB2S,
000129 THDXGETP,
000130 THDXUPDT,
000131 THDXCOMT,
000132 THDXREAD,
000133 THDXPFCH,
000134 THDXELCM (CAPTION="Elapsed_Per_Commit"),
000135 THDXDBCM (CAPTION="In-DB2_Per_Commit"),
000136 TDIDWKID, /*@D2A*
000137 TDIDTXID, /*@D2A*
000138 TDIDEUID, /*@D2A*
Command ==>
    
```

Edit to move up column reference

Before

```

File Edit Edit
EDIT
000119 DISPLAYCOLS= 'TDIDPLAN,
000120 THDXPIND (CAPTION="P/C"), /*@D2A*/
000121 UTDIDAUT (CAPTION="Auth ID",W=8), /*@
000122 TDIDCORR (CAPTION="Corr ID"),
000123 TDIDWKID, /*@D2A*
000124 THDXETIM,
000125 THDXCPUR, /*@
000126 WHNDBTIM (CAPTION="In-DB2_Elapsed_Time"), /*@
000127 WHNDBTCT (CAPTION="In-DB2_CP_CPU"), /*@
000128 THWTTOTW,
000129 TDIDDB2S,
000130 THDXGETP,
000131 THDXUPDT,
000132 THDXCOMT,
000133 THDXREAD,
000134 THDXPFCH,
000135 THDXELCM (CAPTION="Elapsed_Per_Commit"),
000136 THDXDBCM (CAPTION="In-DB2_Per_Commit"),
000137 TDIDTXID, /*@D2A*
000138 TDIDEUID, /*@D2A*
Command ==>
    
```

After

# The Newly Updated Panel

File Edit View Tools Options Help 04/22/2013 09:35:39

Command == ZDB2THRD

Auto Update : Off  
SMF ID : MVSE  
DB2 ID : DSNB

Columns 2 to 12 of 21

Rows 1 to 20 of 20

ΔPlan	P/C	ΔAuth	ΔCorr	Workstation ID	ΔElapsed Time	ΔCP CPU Rate	ΔIn-DB2 Elapsed Time	ΔIn-DB2 CP CPU	ΔWait Time	ΔDB2 Status	ΔGet Page
-	DISTSERV	QWT0006	db2jcc_appli	ibm-b8ccae07100	0.000s	0.0	0.000s	0.000s	0.000s	WAIT-REMREQ	
-	DISTSERV	QWT0005	db2jcc_appli	ibm-b8ccae07100	0.000s	0.0	0.000s	0.000s	0.000s	WAIT-REMREQ	
-	DISTSERV	QWT0006	db2jcc_appli	ibm-b8ccae07100	0.000s	0.0	0.000s	0.000s	0.000s	WAIT-REMREQ	
-	DISTSERV	QWT0003	db2jcc_appli	ibm-b8ccae07100	0.000s	0.0	0.000s	0.000s	0.000s	WAIT-REMREQ	
-	DISTSERV	QWT0007	db2jcc_appli	ibm-b8ccae07100	0.000s	0.0	0.000s	0.000s	0.000s	WAIT-REMREQ	
-	DISTSERV	QWT0005	db2jcc_appli	ibm-b8ccae07100	0.000s	0.0	0.000s	0.000s	0.000s	WAIT-REMREQ	
-	DISTSERV	QWT0005	db2jcc_appli	ibm-b8ccae07100	1h 12m	0.0	0.025s	0.000s	0.000s	WAIT-REMREQ	
-	DISTSERV	QWT0007	db2jcc_appli	ibm-b8ccae07100	0.000s	0.0	0.000s	0.000s	0.000s	WAIT-REMREQ	
-	DISTSERV	QWT0007	db2jcc_appli	ibm-b8ccae07100	0.000s	0.0	0.000s	0.000s	0.000s	WAIT-REMREQ	
-	DISTSERV	QWT0003	db2jcc_appli	ibm-b8ccae07100	0.000s	0.0	0.000s	0.000s	0.000s	WAIT-REMREQ	
-	DISTSERV	QWT0005	db2jcc_appli	ibm-b8ccae07100	0.000s	0.0	0.000s	0.000s	0.000s	WAIT-REMREQ	
-	DISTSERV	QWT0006	db2jcc_appli	ibm-b8ccae07100	0.000s	0.0	0.000s	0.000s	0.000s	WAIT-REMREQ	
-	ADB	KLTAYLO	KLTAYLO	TSO	27.800s	0.0	0.007s	0.005s	0.001s	SWAPPED-OUT	
-	KO2PLAN	DB2PM	RRSAF	RRSAF	3d 13h	0.0	45.340s	31.797s	9.920s	NOT-IN-DB2	
-	KO2PLAN	DB2PM	RRSAF	RRSAF	3d 13h	0.0	0.834s	0.183s	0.560s	NOT-IN-DB2	
-	DB2PM	DB2PM	RRSAF	RRSAF	3d 13h	0.0	2m 27s	2m 11s	3.419s	NOT-IN-DB2	
-	?RRSAF	OSCADMIN	DSNBADMT_DMN	RRSAF	3d 13h	0.0	4.201s	3.656s	0.196s	NOT-IN-DB2	
-	?RRSAF	OSCADMIN	DSNBADMT_II	RRSAF	3d 13h	0.0	0.000s	0.000s	0.000s	NOT-IN-DB2	
-	DISTSERV	QWT0005	db2jcc_appli	ibm-b8ccae07100	0.000s	0.0	0.000s	0.000s	0.000s	WAIT-REMREQ	
-	DISTSERV	QWT0005	db2jcc_appli	ibm-b8ccae07100	3d 13h	0.0	2.051s	0.708s	0.183s	WAIT-REMREQ	

The Workstation ID column has been moved to the front of the panel

Note – In this example a new panel (ZDB2THRD) was created versus changing the product provided KIPTHRD panel

You may call up the new panel by entering the =panelname on the command line

# Another Example Using ZOOMCOLS To Add Drill Down Support

File Edit View Tools Navigate Help 11/18/2013 08:21:39

Command -> KIPHLTI

**Before**

IMS Health  
IMS System Health for IMS IMSA

Columns 2 to 11 of 11

IMS ID	MVS ID	ENQ Rate	DEQ Rate	Tran Queue	Lock Waiters	Longest Lock	Dep Regions	CPU Percent	I/O Rate	Paging Rate
IMS	MVSE	0.00	0.00	0	0	0.000s	2	0.00%	0.00	0.00

File Edit View Tools Options Help 05/08/2013 08:31:12

Command ==> ZIMS

**After**

IMS Health  
IMS System Health for IMS IMSA

Columns 2 to 11 of 11

IMS ID	MVS ID	ENQ Rate	DEQ Rate	Tran Queue	Lock Waiters	Longest Lock	Dep Regions	CPU Percent	I/O Rate	Paging Rate
IMS	MVSE	0.00	0.00	13	0	0.000s	2	0.00%	0.00	0.00

## How To Add ZOOMCOLS Support To A Field

```

File Edit Edit_Settings Menu Utilities Compilers Test Help
EDIT          UKANWENU(ZIMS) - 01.12      Columns 00001 00072
000046 DISPLAYCOLS=' IMSID,
000047 MVSID (CAPTION="MVS\ID"),
000048 ENQRATE (CAPTION="ENQ\Rate"),
000049 DEQRATE (CAPTION="DEQ\Rate"),
000050 TRANQUEUE (CAPTION="Tran\Queue"),
000051 LOCKWAIT (ALIGNRIGHT,CAPTION="Lock\Waiters"),
000052 LOCKELAP (ALIGNRIGHT,CAPTION="Longest\Lock"),
000053 REGCOUNT (ALIGNRIGHT,CAPTION="Dep\Regions"),
000054 TOTCPU (CAPTION="CPU\Percent",PERCENT),
000055 IORATE (CAPTION="I/O\Rate"),
000056 PAGERATE (CAPTION="Paging\Rate") '
000057 ZOOMCOLS=' ENQRATE (KIPDEPS) , DEQRATE (KIPDEPS) ,
000058 TRANQUEUE (KIPTRNS) , LOCKWAIT (KIPLLKs) , LOCKELAP (KIPLLKs) ,
000059 REGCOUNT (KIPDEPS) , TOTCPU (KIPADRS) , IORATE (KIPADRS) , PAGERATE (KIPADRS) '
000060 KEYCOLS=' IMSID, MVSID, LOCKWAIT, LOCKWAITPI, DSGROUP, PLEXNAME,
000061 IMSPLXNM, LOCKWAITIR, SQGROUP '
000062 ACTION=IMSID(!,"IMS Commands (ICMD)",KIPCMD)
000063 ACTION=IMSID(A,"Address Spaces",KIPADRS)
000064 ACTION=IMSID(B,"IMS Bottlenecks",ZIMSBTLP)
000065 ACTION=MVSID(C,"Coupling Facility",KIPCFS10)
Command ==>

```

Add after DISPLAYCOLS

Specify the field and the destination panel



# ZOOMCOLS Enables Drill Down In Context For More Detail

File Edit View Tools Options Help 05/08/2013 08:31:12

Command ==> ZIMS

IMS Health

IMS System Health for IMS IMSA

Columns 2 to 11 of 11

IMS ID	MVS ID	ENQ Rate	DEQ Rate	Tran Queue	Lock Waiters	Longest Lock	Dep Regions	CPU Percent	I/O Rate	Paging Rate
IMS	MVSE	0.00	0.00	13	0	0.000s	2	0.00%	0.00	0.00

File Edit View Tools Options Help 05/08/2013 08:33:09

Command ==> KIPDEPS

IMS Dependent Regions

All Dependent Regions for IMS IMSA

Columns 2 to 13 of 23

ΔRegion VName	ΔIMS VID	Region Type	ΔTran VName	Region Status	ΔRegion VOccupancy	ΔRegion VID	ΔPSB VName	ΔElapsed VTran Time
IMSMSG1	IMS	Message		Idle	0.00%	2		N/A
IMSMSG2	IMS	Message		Idle	0.00%	1		N/A

# Another Example

## Adding Navigation Options To A Popup

```

File Edit View Tools Options Help 05/13/2013 16:20
Command ==>
KIPHLTI
Options Menu
Select an option and then press ENTER
1. ! IMS Commands (ICMD)
2. A Address Spaces
3. C Coupling Facility
4. D Dependent Regions
5. I System Information and Resources
6. L Lock Conflicts
7. S Health Details
8. Z All Monitored Systems (IMON)

```

**Before**

```

File Edit View Tools Options Help 05/13/2013 16:20
Command ==>
ZIMS
Options Menu
Select an option and then press ENTER
1. ! IMS Commands (ICMD)
2. A Address Spaces
3. B IMS Bottlenecks
4. C Coupling Facility
5. D Dependent Regions
6. E External Subsystems and DBCTL
7. G Critical Datasets
8. H Database Overview - FP, HALDB, Full Function
9. I System Information and Resources
10. L Lock Conflicts
11. M Multiple Systems Coupling - MSC
12. O OTMA
13. P IMS Pools
14. R IMS Response Time
15. S Health Details
16. Z All Monitored Systems (IMON)

```

**After**

## Adding Popup Navigation Options

```
Menu Utilities Compilers Help
BROWSE                                UKANWENU (ZIMS)                Line 00000060 Col 001 080
KEYCOLS='IMSID, MVSID, LOCKWAIT, LOCKWAITPI, DSGROUP, PLEXNAME,
IMSPLEXNM, LOCKWAITIR, SQGROUP'
ACTION=IMSID(!,"IMS Commands (ICMD)",KIPCMD)
ACTION=IMSID(A,"Address Spaces",KIPADRS)
ACTION=IMSID(B,"IMS Bottlenecks",ZIMSBTLP)
ACTION=MVSID(C,"Coupling Facility",KIPCFS10)
ACTION=IMSID(D,"Dependent Regions",KIPDEPS)
ACTION=IMSID(E,"External Subsystems and DBCTL",ZIMSEXT)
ACTION=IMSID(G,"Critical Datasets",ZIMSDSN)
ACTION=IMSID(H,"Database Overview - FP, HALDB, Full Function",ZIMSDB)
ACTION=IMSID(I,"System Information and Resources",KIPRESPU)
ACTION=IMSID(L,"Lock Conflicts",KIPLOK10)
ACTION=IMSID(M,"Multiple Systems Coupling - MSC",ZIMSMSC)
ACTION=IMSID(O,"OTMA",ZIMSOTMA)
ACTION=IMSID(P,"IMS Pools",ZIMSPPOOL)
ACTION=IMSID(R,"IMS Response Time",ZIMSRTA)
ACTION=IMSID(S,"Health Details",KIPHLTD,DEFAULT)
ACTION=IMSID(Z,"All Monitored Systems (IMON)",KIPMONS)
<ONACTION>
SET ZOMEGNAV1=&IMSPLEXNM
Command ==>                               Scroll ==> PAGE
```

Each line represents an option in the popup

# OMEGAMON

## Power User - Resources And References

- Enhanced 3270 Interface Guide - SC22-5426-00
  - ▶ [http://pic.dhe.ibm.com/infocenter/tivihelp/v15r1/index.jsp?topic=%2Fcom.ibm.omegamon\\_share.doc\\_623fp1%2Fsource%2Fe3270%2Fe3270\\_interface.htm](http://pic.dhe.ibm.com/infocenter/tivihelp/v15r1/index.jsp?topic=%2Fcom.ibm.omegamon_share.doc_623fp1%2Fsource%2Fe3270%2Fe3270_interface.htm)
- Other resources
  - ▶ Ed Woods' blog - many examples of e3270ui customization
    - <http://Tivoliwithaz.blogspot.com>

## Tivoli Enterprise Portal – The TEP Power User Considerations

- The “TEP” is the GUI interface for OMEGAMON monitoring
  - ▶ All the core OMEGAMONs offer support for the TEP
  - ▶ Critical systems managements tools offer support for the TEP
    - System Automation, NetView, Tivoli Workload Scheduler
    - IBM distributed monitoring (ITM) exploits the TEP
- The “TEP” provides powerful functions and capabilities
  - ▶ Flexible and customizable
- Typical TEP interface power user scenarios
  - ▶ Integrated systems management dashboard view
  - ▶ Integrated performance automation

# Leverage OMEGAMON As Part Of An Integrated Dashboard Monitoring Strategy

The screenshot shows the Tivoli Enterprise Portal interface with several monitoring panels:

- Graphic View:** Displays status indicators for CICS Status (green circle), DB Status (green circle), Operational Alerts (blue text), z/OS Status (red circle), and Network S (yellow triangle).
- TWS Problem Jobs:** A table listing jobstreams and their statuses.
 

Jobstream	Sched Time	Status	Time Stamp	Jobstre
PAYROLLE2EA	201109120800	Error	20110919060205	C85906095C
PAYROLLE2EA	201109130800	Error		
PAYROLLE2EA	201109140800	Error		
- Potential Looping Task:** A table showing CPU usage metrics.
 

Job Name	Using CPU	CPU Loop Index	Using IFA	Using zIIP	CPU Wait	IF
	5.4	93.3	0.0	0.0	0.6	0
- Unavailable Task Status:** A table showing task status for various resources.
 

Resource Name	System	Observed Status	Desired Status	Automat Status
DEMO_CICS01	DEMOMVS3	SoftDown	Available	Idle
MSM	DEM			
NETV_PLEX	DEM			
- Critical Messages:** A table listing system messages.
 

System Message ID	Severity	Timestamp
DEMOMVS	Unusual	08/17/11 20:11:21 DF
DEMOMVS	Unusual	08/17/11 20:11:50 EE
DEMOMVS	Unusual	08/17/11 20:11:50 EE
DEMOMVS	Unusual	08/17/11 20:11:51 EE
- System CPU Usage:** A table showing CPU usage for managed systems.
 

Managed System	Average CPU Percent	RMF MVS CPU Percent	RMF LPAR CPU Percent	Total TCB%	To
DEMOPLXCMVSB:MVSSYS	1	1.8	1.8	3	
DEMOPLXCMVSC:MVSSYS	1	2.3	2.3	3	
DEMOPLXCMVSA:MVSSYS	6	4.9	4.9	20	
- Important WTORs:** A table listing system warnings.
 

Resource System	Severity	Reply ID	Message ID	Message
DEMOMVS	UNUSUAL	125	HWSC00001	*IMS CONNECT RE
DEMOMVS				ADY* IMS
DEMOMVS				NNECT RE
DEMOMVS				REPLY W

Red callout boxes highlight specific features:

- Alerts:** Points to the Graphic View status indicators.
- Highlight potential issues:** Points to the 'Potential Looping Task' table, specifically the 'CPU Loop Index' value of 93.3.
- TWS to track problem jobs:** Points to the 'TWS Problem Jobs' table.
- System Automation task status:** Points to the 'Unavailable Task Status' table.
- System Automation critical messages:** Points to the 'Critical Messages' table.
- System Automation WTORs:** Points to the 'Important WTORs' table.
- OMEGAMON z/OS tracks CPU usage:** Points to the 'System CPU Usage' table.

# Using TEP To Build A Dashboard The Navigation Tree Is Customizable

The screenshot shows the TEP (Total Environment Performance) software interface. On the left, the 'Navigator' window displays a tree view of system components under the 'Logical' view. The 'EW\_OPS\_View' is selected. On the right, the 'Edit Navigator View' dialog box is open, showing a 'Target View' of 'Logical' and a 'Source View' of 'Physical'. The 'Enterprise' folder in the target view is expanded, showing a list of views including 'EW\_OPS\_View'. A red box highlights the 'Edit Navigator View' dialog, and red arrows indicate the relationship between the Navigator tree and the Edit Navigator View tree.

**The navigation tree is user customizable.**

**Focus on most critical managed systems.**



# Graphics View

## Blank Background With Shapes

The screenshot displays the IBM Operations Navigator interface. The main window shows a 'Graphic View' with five status indicators: CICS Status, DB Status, Operational Alerts, z/OS Status, and Network Status. A red arrow points to the 'Graphic View' toolbar. A red callout box states: "Shapes work well to highlight alerts".

The 'Properties - EW\_OPS\_View' dialog is open, showing the 'Style' tab. The 'Background' section has 'Image' selected with 'Fit to view' checked. The background field contains '<blank background>' and a 'Browse...' button. A red callout box points to this field: "Choose blank background". The 'Style' section has a field containing 'shape\_black\_label\_bottom.css' and another 'Browse...' button. A red callout box points to this field: "Choose shapes in the style options".



# Exploit Filter Options To Add Detail Example – Add System Automation To The Dashboard

**Threshold tab controls highlighting**

**Filters and queries control the panel content**

Resource Name	System	Observed Status	Desired Status	Automation Status	Automation Flag	Hold Flag	Des
DEMO_CICS01	DEMOMVS3	SoftDown	Available	Idle	Yes	No	CICS R
NETVIEW	DEMOMVS	Problem	Available	Idle	Yes	No	Networ
NETVIEW	DEMOMVS2	Problem	Available	Idle	Yes	No	Networ
TWSDCENTA	DEMOMVS	HardDown	Available	Idle	Yes	No	TWSD
DEMOMN2	DEMOMVS	SoftDown	Available	Idle	Yes	No	Acti
DEMOMN3	DEMOMVS	SoftDown	Available	Idle	Yes	No	Acti

Resource Name	System	Observed Status	Desired Status	Automation Status	Automation Flag
1	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Available	<input checked="" type="checkbox"/>	
2	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Available	<input checked="" type="checkbox"/>	
3	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Available	<input checked="" type="checkbox"/>	
4	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Available	<input checked="" type="checkbox"/>	

Resource System	Severity	Reply ID	Message ID	Message Text
DEMOMVS	UNUSUAL	6	HWSC0000I	*IMS CONNECT READY* IMSCCON
DEMOMVS	UNUSUAL	23	KO2H0001W	DB2S NEAR-TERM HISTORY DATA COLLECTOR
DEMOMVS	NORMAL	20	DFS996I	*IMS READY* IMSD
DEMOMVS	NORMAL	21	DFS996I	*IMS READY* IMST
DEMOMVS	UNUSUAL	7	HWSC0000I	*IMS CONNECT READY* IMSBCON
DEMOMVS	UNUSUAL	4	HWSC0000I	*IMS CONNECT READY* IMSDCON

# Tivoli Enterprise Portal

## Performance Automation Integrated Within The Portal

- The Portal provides manual commands and corrections
  - ▶ 'Take Action' provides for manual command capability
  - ▶ Commands may be predefined
- The Portal enables automated commands and corrections
  - ▶ Implement machine speed corrective actions, issue alerts, and allow for later human intervention
  - ▶ Use for automated commands for dynamic subsystem management and 'tweaks' as the workload and system changes
  - ▶ Two core types of automated actions
    - **Situations** - Use for simple "fire and forget" type of scenarios
    - **Policies** – Use for more sophisticated performance automation scenarios

# Situations - A Basic Example

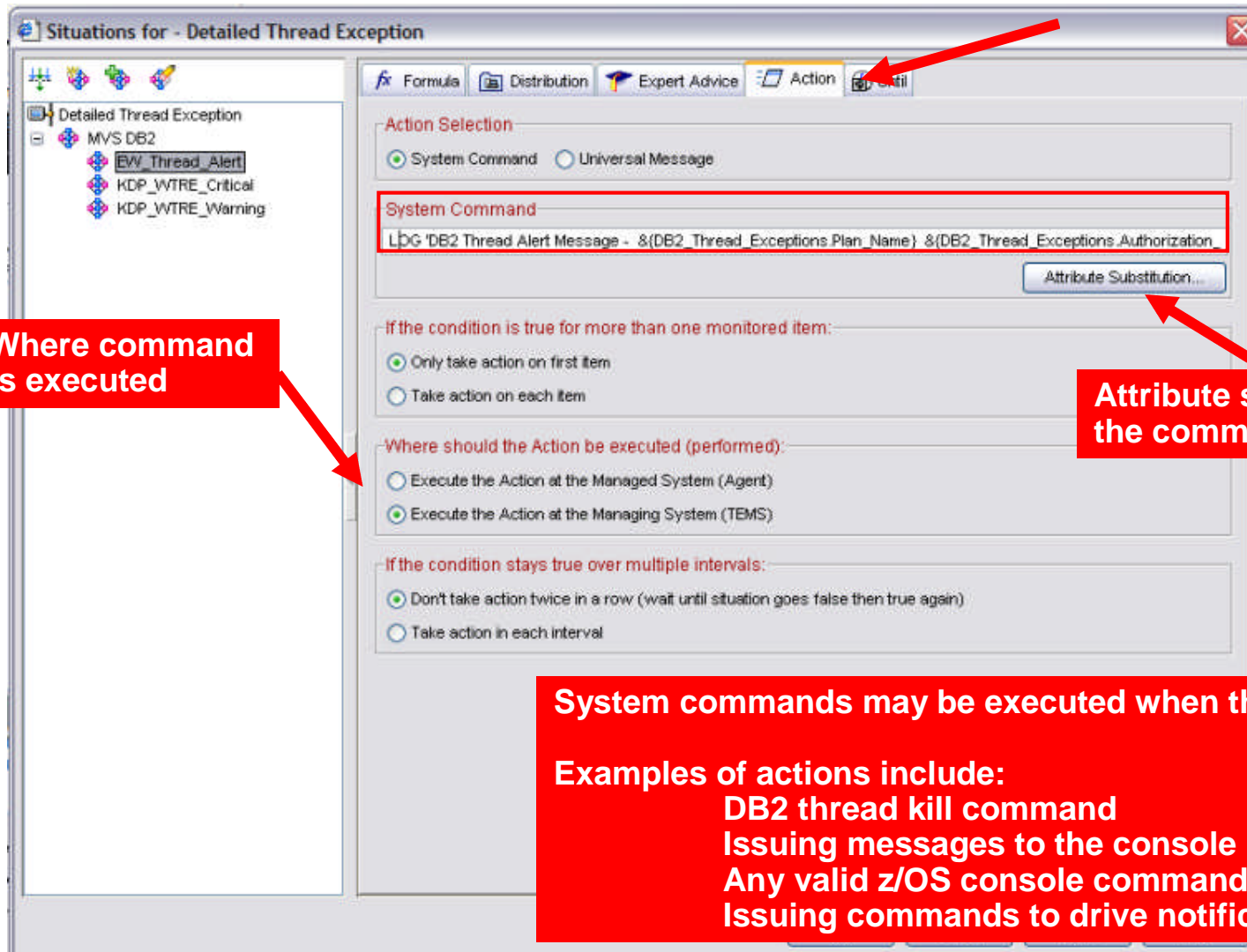
## Alert On DB2 Threads With More Than 'n' Getpages

The screenshot shows the 'Situations for - Detailed Thread Exception' dialog box. The interface includes a tree view on the left, a 'Formula' tab, and a 'Distribution' tab. A context menu is open over the tree view, and several red callout boxes provide instructions on how to use the dialog.

- Start/stop situation:** A red callout box points to the context menu options: 'Create New...', 'Create Another...', 'Start Situation', 'Stop Situation', 'Delete Situation', 'Associate', and 'Dissociate'.
- Distribution tab to specify where situation runs. Expert advice is customizable. Action tab to execute command.** A red callout box points to the 'Distribution', 'Expert Advice', and 'Action' tabs.
- Specify alert criteria. This may include one or multiple attribute criteria.** A red callout box points to the 'Formula' editor where the condition 'Getpage Count > 1000' is entered.
- Specify sampling interval:** A red callout box points to the 'Sampling interval' field, which is set to 0:01:30 (dd:hh:mm:ss).
- Specify severity and whether to run at Omegamon startup:** A red callout box points to the 'State' dropdown menu, which is set to 'Critical', and the 'Run at startup' checkbox.

# Situations

## 'Action' To Perform Commands And Corrections



**Where command is executed**

**Attribute substitution in the command line**

**System commands may be executed when the situation is true**

**Examples of actions include:**

- DB2 thread kill command**
- Issuing messages to the console**
- Any valid z/OS console command**
- Issuing commands to drive notification**





# Policies Expand The Concept Of Situations

## Allow Multiple Situations Checks And Commands

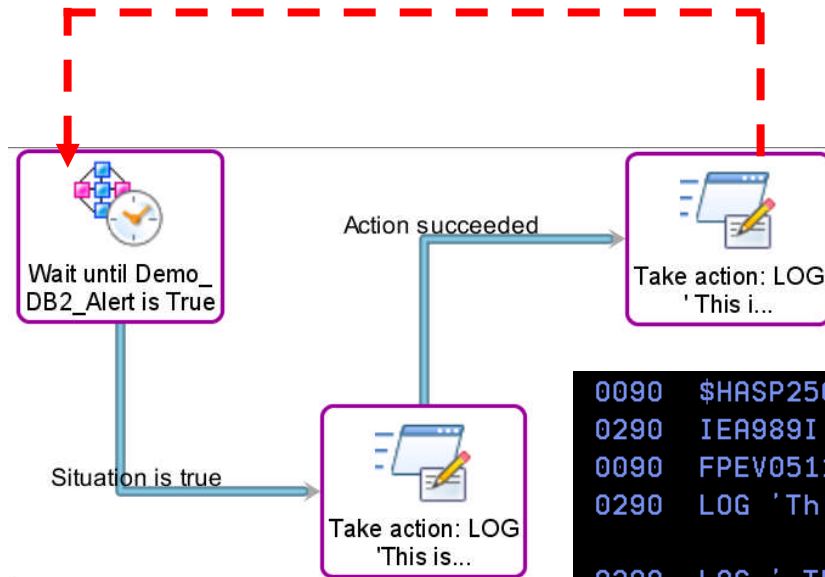
**Policy executes & restarts**

**Check for DB2 Alert**

**Issue first command**

**Issue second command**

# Policy Command Execution



**In the example the policy will:**

- Check the situation status
- Execute the first command
- Execute the second command
- Restart

**Note – The interval of the situation will have an impact on the duration of the policy**

```

0090 $HASP250 DNET145 PURGED -- (JOB KEY WAS C1C5C854)
0290 IEA989I SLIP TRAP ID=X33E MATCHED. JOBNAME=
0090 FPEV0511I DSNB HISTORY DATA SET WRAPPED, 4272 INTERVALS STORED
0290 LOG 'This is a test message - DB2 message ADHPLAN3'
0290 LOG ' This is a second test message'
0290
0290
0290 IEA989I SLIP TRAP ID=X33E MATCHED. JOBNAME=
0290 LOGON
0290 LOG 'This is a test message - DB2 message ADHPLAN3'
0290 LOG ' This is a second test message'
0281 $HASP100 DNET581 ON TSOINRDR
0090 $HASP373 DNET581 STARTED
0090 IEF125I DNET581 - LOGGED ON - TIME=10.06.27
    
```

**First command**

**Second command**

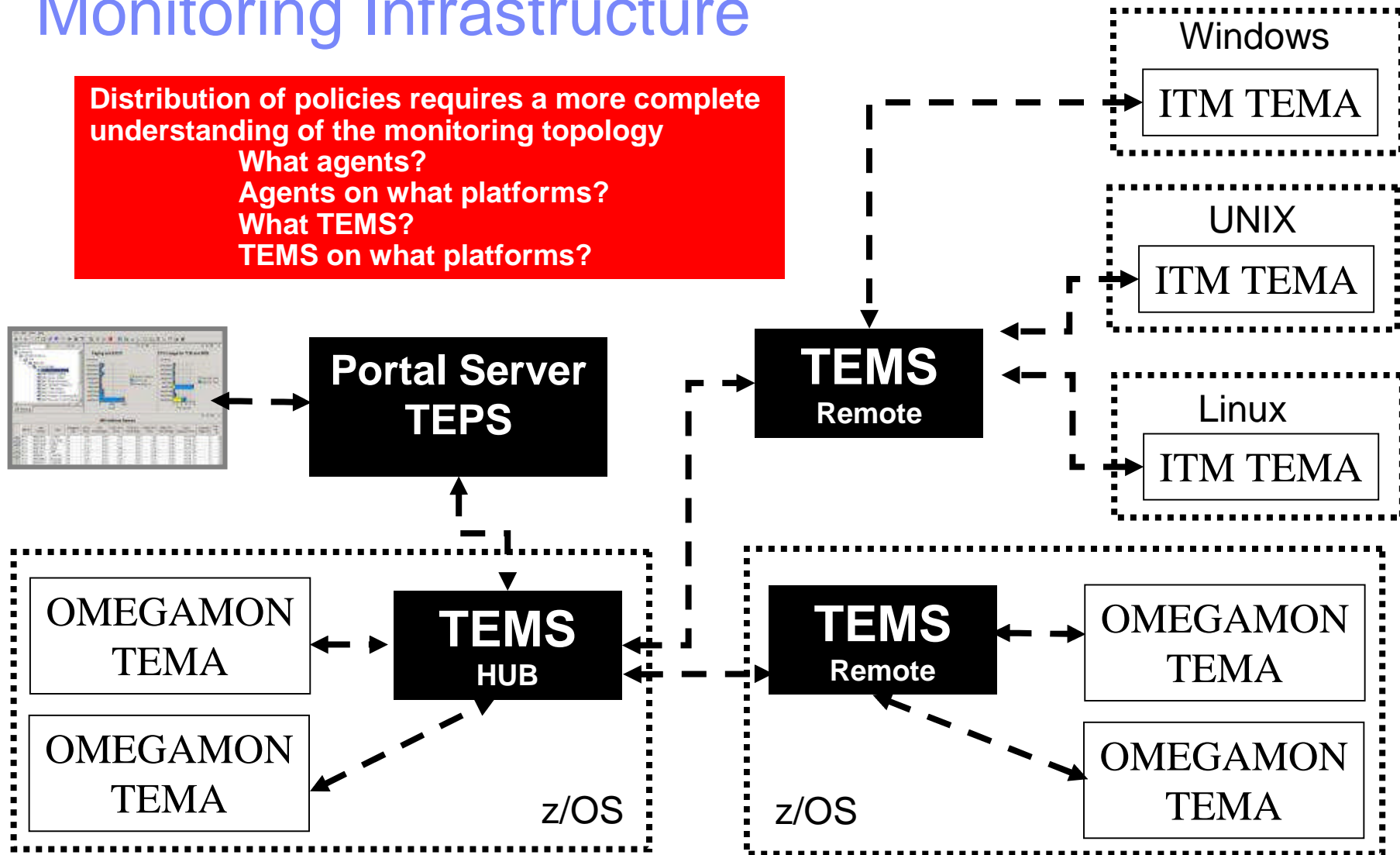
**Restart**

**First command**

**Second command**

# Policies Require An Understanding Of The Monitoring Infrastructure

Distribution of policies requires a more complete understanding of the monitoring topology  
 What agents?  
 Agents on what platforms?  
 What TEMS?  
 TEMS on what platforms?





# Recommendations And Best Practices Situations And Policies What They Are And What They Are Not

- ***Situations And Policies – What they are***
  - ▶ Situations are the core alert building block of Tivoli monitoring
  - ▶ Policies extend concepts established with situations and add additional functionality to the TEP
  - ▶ Policies expand the integrated command and control capabilities of the TEP
    - Situations remain the essential starting point
  - ▶ Policies add additional function and flexibility to situation capabilities
- ***Situations And Policies – What they are not***
  - ▶ The command capabilities of situations and policies are not a substitute for a full function automation engine such as IBM System Automation
    - Use situations and/or policies for basic detection and command/correction scenarios
    - Use situations and/or policies to drive SA automation execs when needed
    - For more detailed scripts (such as REXX) and analysis use System Automation

# Another Example Using Policies To Manage The OMEGAMON PoT Workload

**Policy Details**

Undo	Edit Workflow	Policy name	Distributed	Auto start	Save results	Correlate by	Limit restarts	Restart	Description
		POT_Reset_TEPS_Situations	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Uncorrelated	<input type="checkbox"/>	<input type="checkbox"/>	Run SQL to Delete DIL* situations. Bounce TEPS

**Workflow Editor**

Workflow components:

- General activities: Wait until a situation is True, Evaluate a situation now, Take action or Write message, Make a choice, Suspend execution, Start/Stop a policy, Start/Stop a situation
- Extensions
- Emitter activities

**POT\_Workload\_Control\_START - Grapher View**

```

    graph TD
      A[Start situation POT_Missing_IMS_Workload] --> B[Start policy POT_CICS_WORKLOAD]
      A --> C[Start policy POT_DB2_DBMO_WORKLOAD]
      A --> D[Start policy POT_MQ_WORKLOAD]
      A --> E[Start policy POT_ZOS_WORKLOAD]
      B --> F[Suspend execution for 6 hours]
      C --> F
      D --> F
      E --> F
      F --> G[Start policy POT_Workload_Control_STOP]
  
```

**Use a policy to start/stop other policies**

**Use a policy to start/stop situations**

# OMEGAMON

## Power User - Resources And References

- Other relevant OMEGAMON presentations
  - ▶ Top 10 Problem Solving Scenarios Using IBM OMEGAMON and the Tivoli Enterprise Portal  
[ftp://ftp.software.ibm.com/software/systemz/telecon/22jul/July\\_22\\_Telecon\\_Top\\_10\\_Problem\\_Solving\\_Scenarios\\_-\\_OMEGAMON\\_and\\_Tivoli\\_Enterprise\\_Portal.pdf](ftp://ftp.software.ibm.com/software/systemz/telecon/22jul/July_22_Telecon_Top_10_Problem_Solving_Scenarios_-_OMEGAMON_and_Tivoli_Enterprise_Portal.pdf)
  - ▶ Leveraging Tivoli Enterprise Portal  
[ftp://ftp.software.ibm.com/software/os/systemz/summit/handouts/Track\\_5\\_-\\_06\\_-\\_Leveraging\\_Tivoli\\_Enterprise\\_Portal.pdf](ftp://ftp.software.ibm.com/software/os/systemz/summit/handouts/Track_5_-_06_-_Leveraging_Tivoli_Enterprise_Portal.pdf)

### Tivoli Enterprise Portal Customization Tips and Techniques

[ftp://ftp.software.ibm.com/software/systemz/pdf/June\\_26\\_Telecon\\_Tivoli\\_Enterprise\\_Portal\\_Customization\\_Tips\\_and\\_Techniques.pdf](ftp://ftp.software.ibm.com/software/systemz/pdf/June_26_Telecon_Tivoli_Enterprise_Portal_Customization_Tips_and_Techniques.pdf)

## Summary

- Being a “Power User” means leveraging the most powerful capabilities of a technology
- OMEGAMON provides a choice of interfaces and options
  - ▶ Each interface (Classic, e3270ui, TEP) offers a unique set of capabilities
  - ▶ Leverage the appropriate interface to address requirements
    - Classic
      - Speed, reliability, power user function and flexibility
    - E3270ui
      - Speed, integration, ease of use
    - TEP
      - Integrated views, dashboards, alerts, integrated automation

# OMEGAMON

## Power User - Resources And References

- Various Share Conference OMEGAMON presentations
  - ▶ DB2 Performance Tuning Using Omegamon DB2 Performance Expert - Use Case Examples and Practical Applications  
<https://share.confex.com/share/120/webprogram/Session12693.html>
  - ▶ Automated Performance Management Using IBM Tivoli: Techniques And Best Practices ( a new presentation I created for this Share event)  
<https://share.confex.com/share/120/webprogram/Session12880.html>
  - ▶ Tuning Tips To Lower System z Costs with OMEGAMON Monitoring  
<https://share.confex.com/share/119/webprogram/Session11791.html>
  - ▶ Understanding The Impact Of The Network On z/OS Performance  
<https://share.confex.com/share/119/webprogram/Session11900.html>
- Other presentations
  - ▶ Top 10 Problem Solving Scenarios Using IBM OMEGAMON and the Tivoli Enterprise Portal  
[ftp://ftp.software.ibm.com/software/systemz/telecon/22jul/July\\_22\\_Telecon\\_Top\\_10\\_Problem\\_Solving\\_Scenarios\\_-\\_OMEGAMON\\_and\\_Tivoli\\_Enterprise\\_Portal.pdf](ftp://ftp.software.ibm.com/software/systemz/telecon/22jul/July_22_Telecon_Top_10_Problem_Solving_Scenarios_-_OMEGAMON_and_Tivoli_Enterprise_Portal.pdf)

# Check Out My Blog

## <http://tivoliwithaz.blogspot.com>

Friday, February 5, 2010

### OMEGAMON DB2 Near Term History

OMEGAMON DB2 has a very useful Near Term History (NTH) function. NTH provides an easy way to be able to retrieve and review DB2 Accounting and Statistics records from the past few hours of DB2 processing. The data is stored in a set of VSAM files allocated to the OMEGAMON collection task. How far back the history goes depends upon the size of the files and the amount of data being written to these files. Now some of the data volume is driven by the DB2 workload activity. Accounting records are typically written when a DB2 thread terminates processing, and it is the Accounting data that is often looked at by the analyst when studying what DB2 applications have been doing. Statistics records are created on a time interval basis. Usually, you will have much more accounting data than statistics data. Also, OMEGAMON has the ability to pull in additional trace IFCIDs to get information on things such as dynamic SQL activity.

To understand the amount of data being gathered by NTH, there are displays that show the number of records written to the NTH files, by type. In the example I show, you see an example of common NTH settings/options, and then you see the record count in the NTH record information display. If you look carefully you see that 'Perf-Dyn SQL' has a lot of records written relative to the other record types. This is a good way to understand the impact of enabling certain collection options, such as dynamic SQL collection, and see how many trace records are being gathered, as a result.

Posted by Ed Woods at 3:13 PM 0 comments

**ED WOODS**

I'm an IT Specialist with IBM Corporation supporting Tivoli Performance solutions on z/OS. Please note that comments made on this blog are my own, and do not necessarily reflect the position of IBM Corporation.

[View my complete profile](#)

**Links To My Articles**

- [DB2 Thread Situations](#)
- [QM.XE For Mainframe Networks](#)
- [Situation usage and best practices](#)
- [Situation best practices - part 2](#)
- [Article on policy automation](#)
- [Article on monitoring DB2 dynamic SQL](#)
- [IMS historical performance analysis](#)

**Useful Links**

- [Link to IBM Tivoli product information](#)
- [Link To Tivoli User Group](#)
- [Link to OPAL](#)
- [Tivoli System z filelog](#)



# Learn more at Pulse 2014, Feb 23-26

Sessions, Labs and Demos on OMEGAMON family

**Pulse**2014  
The Premier Cloud Conference

**February 23 – 26**

MGM Grand – Las Vegas, Nevada

#ibmpulse



<https://www-01.ibm.com/software/tivoli/pulse/>

## Thank You for Joining Us today!

Go to [www.ibm.com/software/systemz/events/calendar](http://www.ibm.com/software/systemz/events/calendar) to:

- ▶ Replay this teleconference
- ▶ Replay previously broadcast teleconferences
- ▶ Register for upcoming events