



IBM Software Group

Become An OMEGAMON Power User

Session 14056

Friday, August 16th: 8:00 AM - 9:00 AM



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

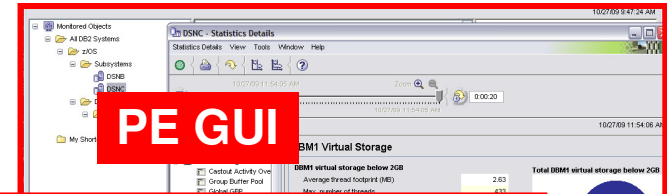
GUI Interfaces

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

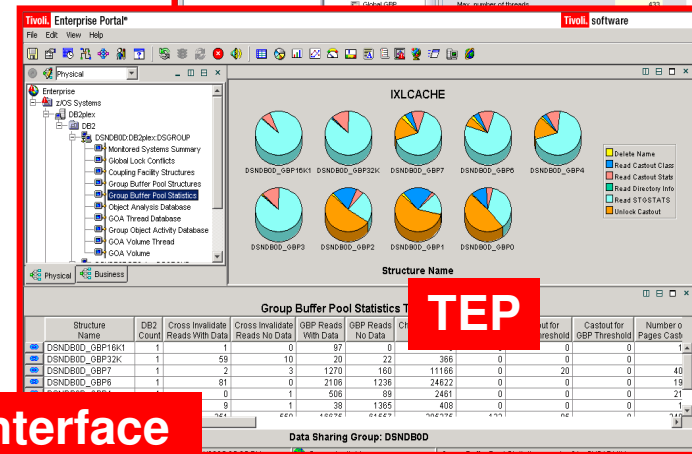
3270 interface

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

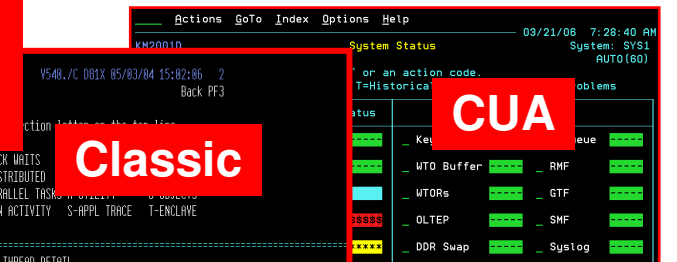
Each user interface offers particular capabilities and advantages



PE GUI

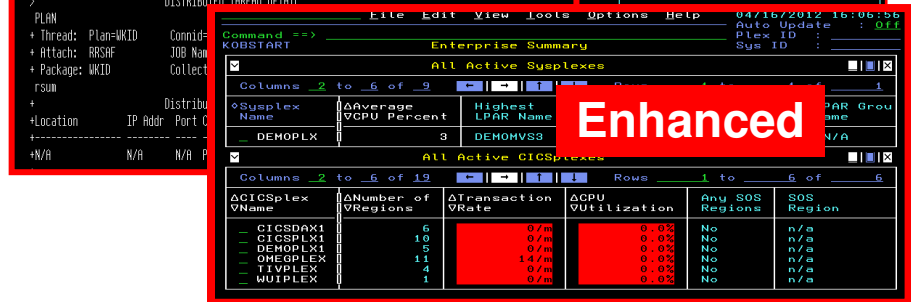


TEP



CUA

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
 - ▶ Automated screen facility - ASF

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, MEMBERS, 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) an
_ 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--  --n/a--
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 (TSF)
 - ▶ Execute classic screen spaces based upon classic exceptions (ASF)

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.

```

-----
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
+    >> 020170: 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 14:08:09
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.

Classic Exceptions May Be Used To Drive Screens Using Classic Interface And Automated Screen Facility

```

_____ KOIDIM4  VTM LOG OI-II
> 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
: 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)                SL=EDREGN
:   Boxattr=NONE         Cumulative=0
    
```

TXIQ classic exception

Threshold value

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

Execute screen EDREGN if exception is true

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
- 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

The screenshot shows a terminal window with a menu bar (File, Edit, View, Tools, Options, Help) and a status bar (01/25/2013 08:33:50). The main display area shows 'Enterprise Summary' and a table titled 'All Active CICSplexes'. The table has columns for CICSplex Name, Number of Regions, Transaction Rate, CPU Utilization, and SOS Regions. Two rows are visible: OMEGPLEX and RDZ.

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

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

Display
Fields May
Be
Highlighted

Tran rate
threshold

CPU
threshold

```

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
    
```

Critical

Warning

Critical

Warning

Panel Customization 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 Rows 1 to 18 of 18

ΔPlan	P/C	ΔAuth	ΔCorr	ΔElapsed	ΔCP CPU	ΔIn-DB2	ΔIn-DB2	ΔWait	ΔDB2	ΔGet	ΔUpdates	ΔCom
ΔPlan		ΔAuth	ΔCorr	ΔTime	VRate	Elapsed Time	CP CPU	Time	VSStatus	VPage	V	V
—	DISTSERV	QWT0006	db2jcc_appli	0.000s	0.0	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	WAIT-REMREQ	0	0	0
—	DISTSERV	QWT0006	db2jcc_appli	0.000s	0.0	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	WAIT-REMREQ	0	0	0
—	DISTSERV	QWT0007	db2jcc_appli	0.000s	0.0	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	WAIT-REMREQ	0	0	0
—	DISTSERV	QWT0005	db2jcc_appli	1h 03m	0.0	0.022s	0.000s	0.000s	WAIT-REMREQ	0	0	0
—	DISTSERV	QWT0007	db2jcc_appli	0.000s	0.0	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	WAIT-REMREQ	0	0	0
—	DISTSERV	QWT0003	db2jcc_appli	0.000s	0.0	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	WAIT-REMREQ	0	0	0
—	K02PLAN	DB2PM		3d 13h	0.0	45.243s	31.731s	9.898s	NOT-IN-DB2	149575	38416	0
—	DB2PM	DB2PM		3d 13h	0.0	0.834s	0.183s	0.560s	NOT-IN-DB2	3973	144	0
—	DB2PM	DB2PM		3d	0.0				NOT-IN-DB2	1495481	0	0
—	?RRSAF	OSCADMIN	DSNBADMT_DMN	3d	0.0				NOT-IN-DB2	30776	0	0
—	?RRSAF	OSCADMTN	DSNBADMT_II	3d	0.0				NO	0	0	0
—	DISTSERV	QWT0005	db2jcc_appli	0	0.0				WAIT-REMREQ	0	0	0
—	DISTSERV	QWT0005	db2jcc_appli	3d	0.0				WAIT-REMREQ	71	0	0

Scroll over 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 Rows 1 to 18 of 18

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

Moving The Workstation ID Column Modify The DISPLAYCOLS Command

```

File Edit Edit_Settings Menu Utilities Comp
EDIT KANWENU (ZDB2THRD)
000119 DISPLAYCOLS='TDIDPLAN,
000120 THDXPIND (CAPTION="P/C"), /*@D2A*/
000121 UTDIDAUTH (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 THDXBCM (CAPTION="In-DB2_Per_Commit"),
000136 TDIDWKID, /*@D2A*
000137 TDIDTXID, /*@D2A*
000138 TDIDEUID, /*@D2A*
Command ==>

```

```

File Edit Edit_Settings Menu Utilities Comp
EDIT UKANWENU (ZDB2THRD)
000119 DISPLAYCOLS='TDIDPLAN,
000120 THDXPIND (CAPTION="P/C"), /*@D2A*/
000121 UTDIDAUTH (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 THDXBCM (CAPTION="In-DB2_Per_Commit"),
000137 TDIDTXID, /*@D2A*
000138 TDIDEUID, /*@D2A*
Command ==>

```

The Newly Updated Panel

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

Command == ZDB2THRD

DB2 Active Threads for DSNB

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	QWT0006	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	0.534s	0.133s	0.560s	NOT-IN-DB2	
-	DB2PM	DB2PM	RRSAF	RRSAF	3d 13h	0.0	2m 27s	2m 11s	3.419s	NOT-IN-DB2	
-	?RRSAF	OSGADMIN	DSNBADMT_DMN	RRSAF	3d 13h	0.0	4.201s	3.656s	0.196s	NOT-IN-DB2	
-	?RRSAF	OSGADMIN	DSNBADMT_I1	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

Another Example Using ZOOMCOLS To Add Drill Down Support

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 ∇Name	ΔIMS ∇VID	Region Type	ΔTran ∇Name	Region Status	ΔRegion ∇Occupancy	ΔRegion ∇ID	ΔPSB ∇Name	ΔElapsed ∇Tran Time	Δ
IMSMSG1	IMS	Message		Idle	0.00%	2		N/A	
IMSMSG2	IMS	Message		Idle	0.00%	1		N/A	

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

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,
IMSPLXNM, LOCKWAITIR, SQGROUP'
ACTION=IMSID(I,"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=&IMSPLXNM

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
- 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
 - ▶ Historical trending
 - Real time and history with graphics

Leverage OMEGAMON As Part Of An Integrated Dashboard Monitoring Strategy

Tivoli Enterprise Portal | Welcome Ed Woods | Log out

Graphic View: CICS Status (Green), DB Status (Green), Operational Alerts (Blue), z/OS Status (Red), Network S Alerts (Yellow)

TWS Problem Jobs:

Jobstream	Sched Time	Status	Time Stamp	Jobstre
PAYROLLE2EA	201109120800	Error	20110919060205	C859060955
PAYROLLE2EA	201109130800	Error		
PAYROLLE2EA	201109140800	Error		

Potential Looping Task:

Job Name	Using CPU	CPU Loop Index	Using IFA	Using zIIP	CPU Wait	IF W
	5.4	93.3	0.0	0.0	0.6	0

Unavailable Task Status:

Resource Name	System	Observed Status	Desired Status	Automat Status
DEMO_CICS01	DEMOMVS3	SoftDown	Available	Idle
MSM	DEM			
NETV_PLEX	DEM			

Critical Messages:

System Message ID	Severity	Timestamp	DF
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:

Managed System	Average CPU Percent	RMF MVS CPU Percent	RMF LPAR CPU Percent	Total TCB%	To SR
DEMOPLX:MVSB:MVSSYS	1	1.8	1.8	3	
DEMOPLX:MVSC:MVSSYS	1	2.3	2.3	3	
DEMOPLX:MVSA:MVSSYS	6	4.9	4.9	20	

Important WTORs:

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

Callouts:

- TWS to track problem jobs
- Alerts
- Highlight potential issues
- System Automation task status
- System Automation critical messages
- System Automation WTORs
- OMEGAMON z/OS tracks CPU usage

Using TEP To Build A Dashboard The Navigation Tree Is Customizable

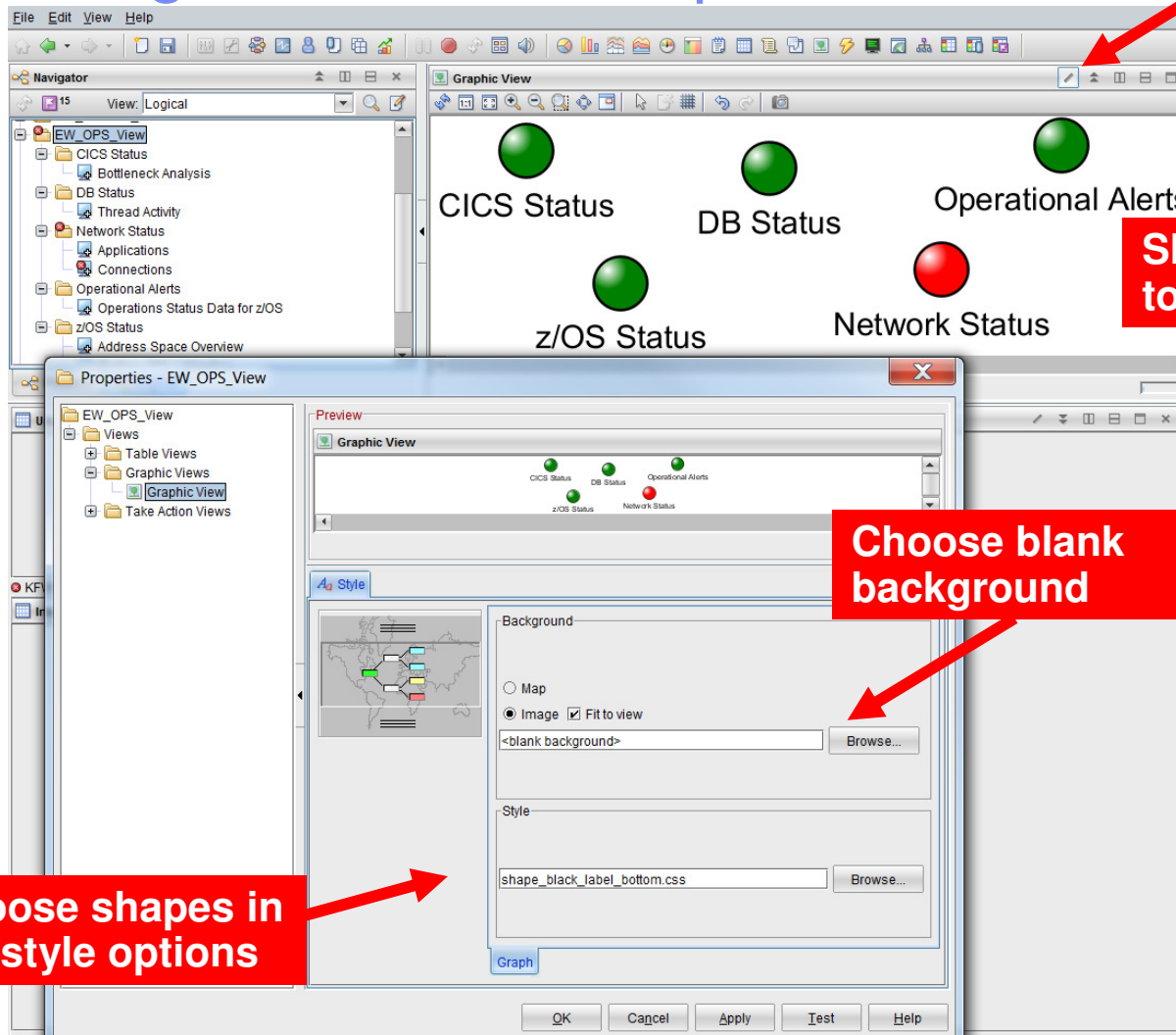
The screenshot shows the TEP (Total Event Processor) interface. The main window has a 'Navigator' pane on the left showing a hierarchical tree of system views. A red arrow points from the 'EW_OPS_View' folder in this tree to the 'Edit Navigator View' dialog box. The dialog box has two panes: 'Target View' (set to Logical) and 'Source View' (set to Physical). The 'Target View' pane shows a customized list of views, including 'EW_OPS_View' which is highlighted with a red arrow. The 'Source View' pane shows the default system categories like Linux, Windows, z/OS, and zEnterprise. A red box highlights the entire 'Edit Navigator View' dialog box.

The navigation tree is user customizable.

Focus on most critical managed systems.

Graphics View

Blank Background With Shapes



Shapes work well to highlight alerts

Choose blank background

Choose shapes in the style options

Queries Control Workspace Content – An Example

Query Editor

Description: CPU utilization measures for active address

Data Source: TEMS_HUB_JBM-1E477...

Last Modified: Fri, 06/13/2008 02:...

Last Modified by: SYSADMIN

Specification: CPU Percent

Managed System: CPU Percent

1 []

2 == \$NODE% > 2.0

3 []

4 []

Add attributes... Advanced...

z/OS CPU

CPU Percent	Job Name	Step Name	Proc Step	SvcClass	SvcClass Period	ASID	JESJOBID	TCB Percent	SRB Percent	IFA Percent	IFA on CP Percent	zIIP Percent
80.0	SWONGAL	STEP3		BATCH								
0.0	VCCTH00L	VCCTH00L	TEMS	STCCMS								
10.0	VC02H00L	VC02H00L	02CI	STC								
2.1	NET31	NET	NET31	SYSSTC								
0.4	TCPIPL	TCPIPL	TCPIP	SYSSTC								
0.0	CATALOG	CATALOG	IEFPROC	SYSTEM	1	0X0029		0.0	0.0	0.0	0.0	0.0
0.4	GRS	GRS		SYSTEM	1	0X0007		0.4	0.0	0.0	0.0	0.0

Default query returns info on all address spaces

Advanced Options

Correlation

Sort By: CPU_Percent

Ascending Descending

Group By: None

First/Last Functions

None First 10 Last

OK Cancel Help

z/OS CPU Address Spaces Over 2%

CPU Percent	Job Name	Step Name	Proc Step	Svc Class	SvcClass Period	ASID	JESJOBID	TCB Percent	SRB Percent	IFA Percent	IFA on CP Percent	zIIP Percent
80.0	SWONGAL	STEP3		BATCH								
2.1	NET31	NET	NET31	SYSSTC								
10.0	VC02H00L	VC02H00L	02CI	STC								

User defined query returns address spaces over 2% CPU usage

z/OS CPU Address Spaces - Top 10

CPU Percent	Job Name	Step Name	Proc Step	SvcClass	SvcClass Period	ASID	JESJOBID	TCB Percent	SRB Percent	IFA Percent	IFA on CP Percent	zIIP Percent
80.0	SWONGAL	STEP3		BATCH	2	0X002C	JOB15263	80.0	0.0	0.0	0.0	0.0
10.0	VC02H00L	VC02H00L	02CI	STC	2	0X00AC	STC14973	10.0	0.0	0.0	0.0	0.0
2.1	NET31	NET	NET31	SYSSTC		0X0068	STC14490	0.0	2.1	0.0	0.0	0.0
0.8	VCCTH00L	VCCTH00L	TEMS	STCCMS	2	0X00D0	STC15280	0.8	0.0	0.0	0.0	0.0
0.4	GRS											
0.4	XCFAS											
0.4	WLM											

User defined query returns top 10 address spaces using CPU sorted descending

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

The screenshot shows the Tivoli Enterprise Portal interface. A red box highlights the configuration for a situation named 'EW_Demo_Alert'. The configuration includes a table with the following data:

	Observed Status	Desired Status
1	!= Available	== Available
2		
3		

Below the table is the 'Situation formula editor' section, which includes a 'Situation Formula Capacity' indicator at 10%, a 'Sampling interval' field set to 0/0/1/0 (ddd hh mm ss), and a 'Sound' section with an 'Enable critical.wav' checkbox and 'Play' and 'Edit...' buttons. The 'State' section shows a 'Critical' status with a red 'X' icon and a 'Run at start' checkbox.

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

About Situations And Policies

- Situations are the building blocks of systems management logic in the Tivoli Enterprise Portal (TEP)
 - ▶ Situations may be used to highlight performance and availability problems within key operating systems, subsystems, and mission critical resources
 - ▶ Situation logic may be distributed to the agent (IRA architecture)
 - Situations typically run at the level of the agent (TEMA)
- Policies extend concepts established with situations and add additional functionality to the TEP
 - ▶ Situations remain the essential starting point
 - ▶ Policies add additional function and flexibility
 - ▶ Note - Policies run within the TEMS infrastructure

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 left pane shows a tree view with 'Detailed Thread Exception' expanded, containing 'EVW_Threat', 'MVS DB2', and two 'KDP_V' entries. The main area has tabs for 'Formula', 'Distribution', 'Expert Advice', 'Action', and 'Until'. The 'Formula' tab is active, showing a table with columns 'Getpage Count' and '1', '2', '3'. The first row contains the formula '> 1000'. Below the table is a 'Sampling interval' field set to '0 / 0 : 1 : 30'. To the right, there is a 'Sound' section with 'Enable critical.wav' checked and 'Play' and 'Edit...' buttons. Further right is a 'State' dropdown menu set to 'Critical' and a 'Run at startup' checkbox. At the bottom are 'OK', 'Cancel', 'Apply', and 'Help' buttons.

Start/stop situation (points to the 'Start Situation' button in the left pane)

Distribution tab to specify where situation runs. Expert advice is customizable. Action tab to execute command. (points to the 'Distribution', 'Expert Advice', and 'Action' tabs)

Specify alert criteria. This may include one or multiple attribute criteria. (points to the formula table)

Specify sampling interval (points to the 'Sampling interval' field)

Specify severity and whether to run at Omegamon startup (points to the 'State' dropdown and 'Run at startup' checkbox)

Situations

'Action' To Perform Commands And Corrections

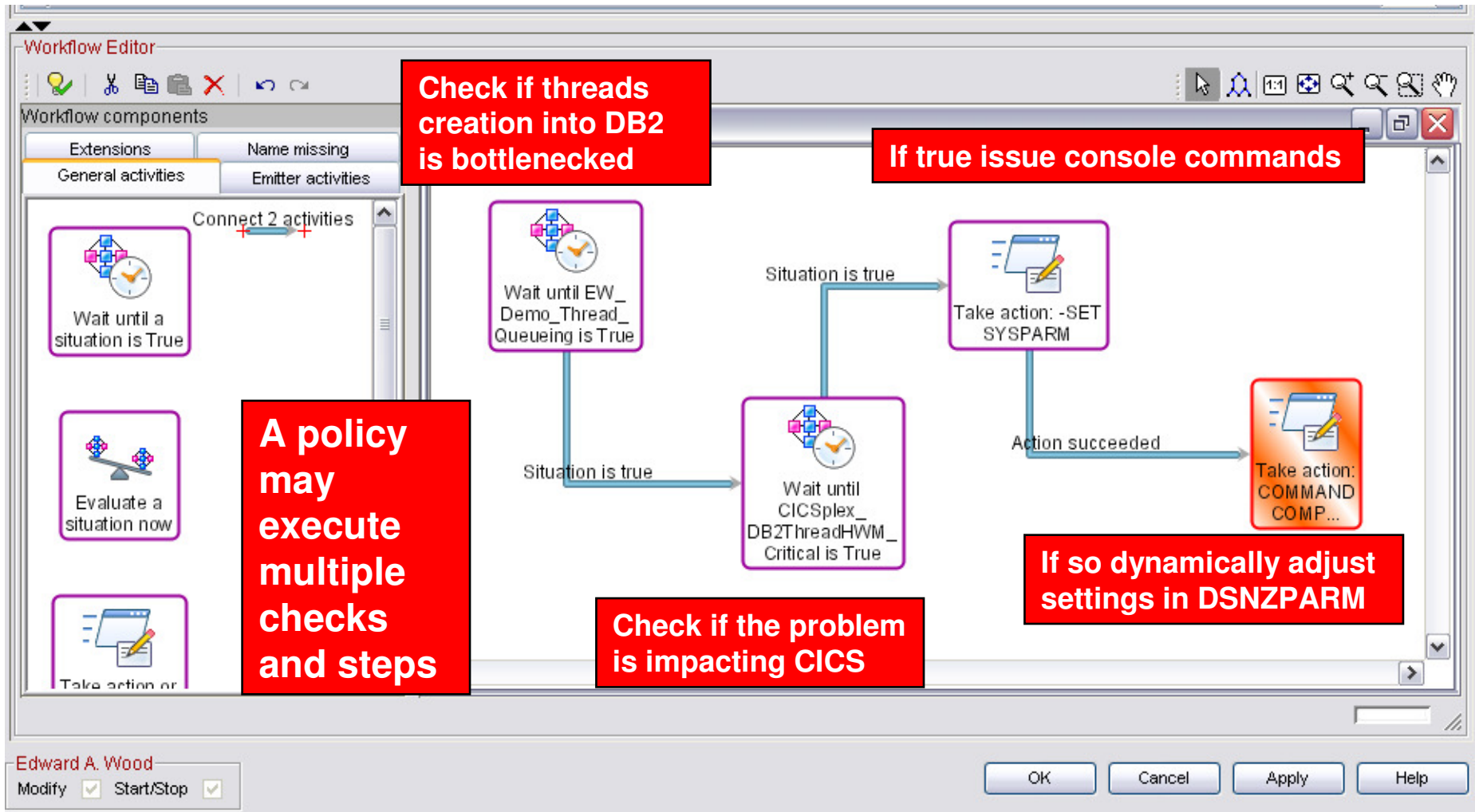
Where command is executed

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 Automated Performance Management

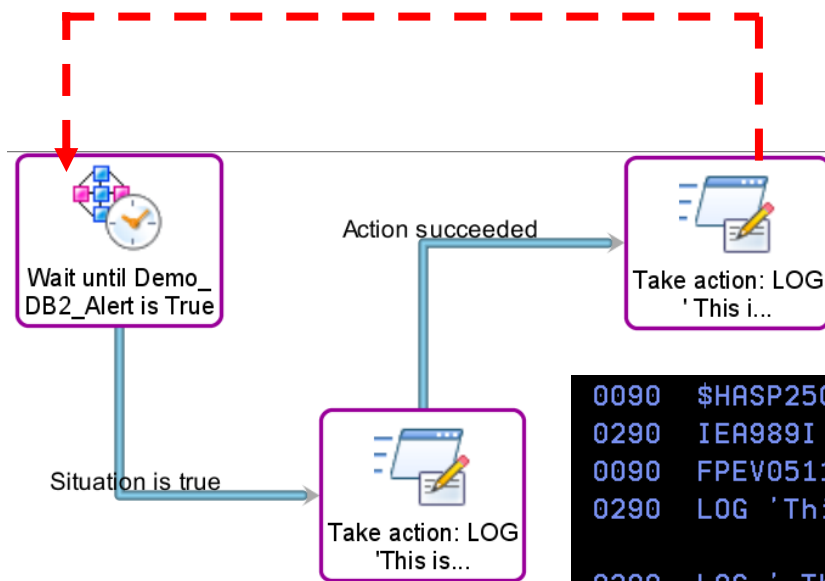


Basic Policy - Example Scenario

Have A Situation Trigger Multiple Commands

The screenshot displays the IBM Workflows Policy Editor interface. At the top, the 'Policy Details' section shows the policy name 'dnet581_demo_basic_pol' and a 'Restart' checkbox that is checked. A red callout box above this section reads 'Policy executes & restarts'. Below this, the 'Workflow Editor' section shows a 'Grapher View' of the workflow. The workflow starts with a 'Wait until Demo_DB2_Alert is True' activity, annotated with a red callout 'Check for DB2 Alert'. A transition labeled 'Situation is true' leads to a 'Take action: LOG 'This is...'' activity, annotated with 'Issue first command'. From there, a transition labeled 'Action succeeded' leads to a second 'Take action: LOG 'This i...'' activity, annotated with 'Issue second command'. The 'Workflow components' pane on the left shows the available activities: 'Wait until a situation is True', 'Evaluate a situation now', and 'Take action or Write message'. The bottom of the window shows the user 'Edward A. Wood' and standard 'OK', 'Cancel', 'Apply', and 'Help' buttons.

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=UNKNOW...51.
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=UNKNOW...51.
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

Policy Example

Multiple Situations, Multiple Commands

Policy Details

Undo	Edit Workfl...	Policy name	Distributed	Auto start	Save results	Correlate by
		DNET581_DEMO_POLICY	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Host Name

Workflow Editor

Workflow components

- Extensions
- Name missing
- General activities
- Emitter activities

DNET581_DEMO_POLICY - Grapher View

```

    graph TD
      S1[Wait until Demo_DB2_Alert is True] -- "Action succeeded" --> S2[Wait until MQSeries_MQ_Channel_Stopped is True]
      S1 -- "Situation is true" --> A1[Take action: LOG TEST ME...]
      S2 -- "Situation is true" --> A2[Take action: LOG TEST ME...]
  
```

Note – The DB2 alert and the MQ alert are independent events. The same would apply for two situations of the same agent type or managed system.

Correlate by host name

Check DB2 alert

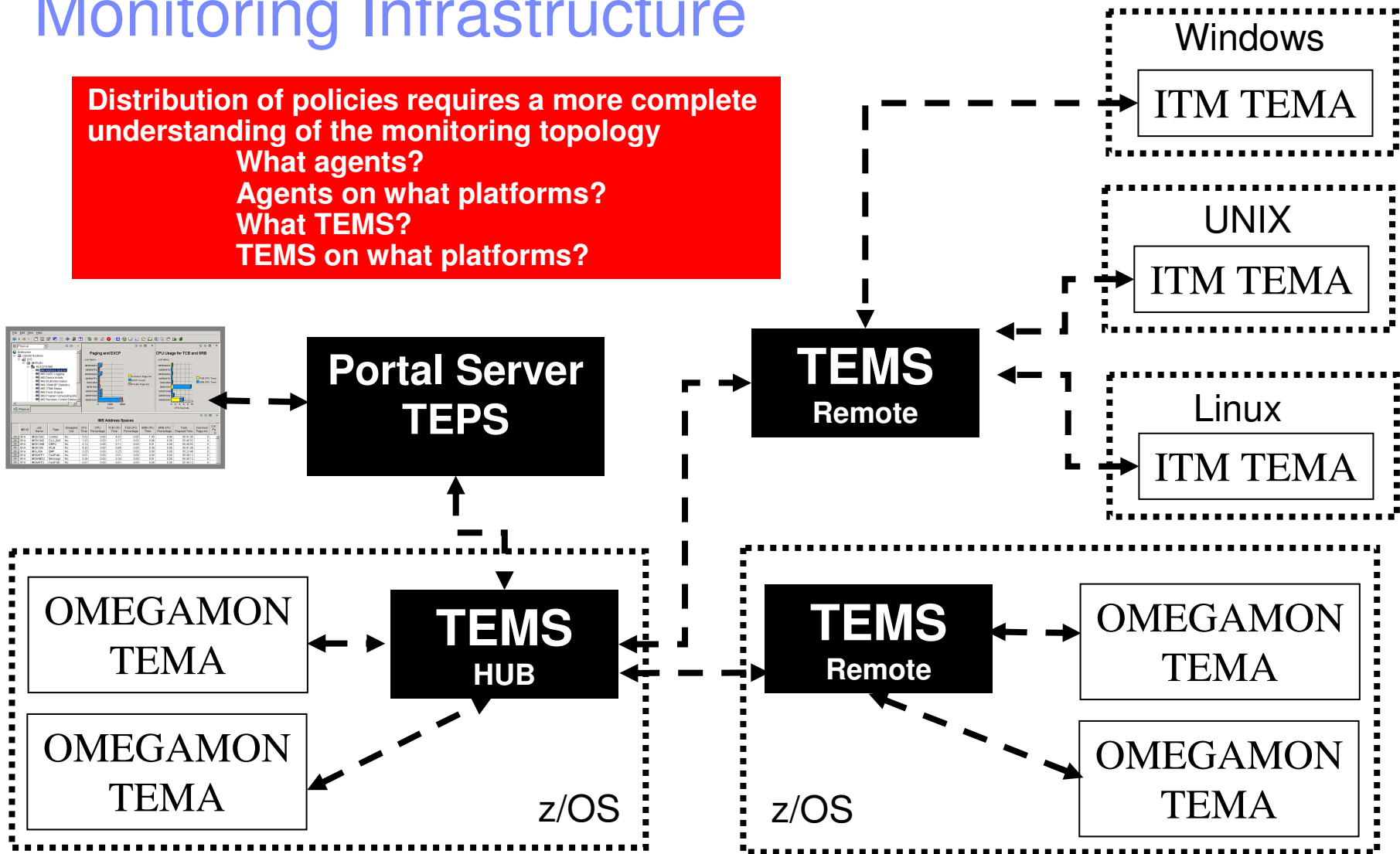
Check MQ alert

Issue command

Issue 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***

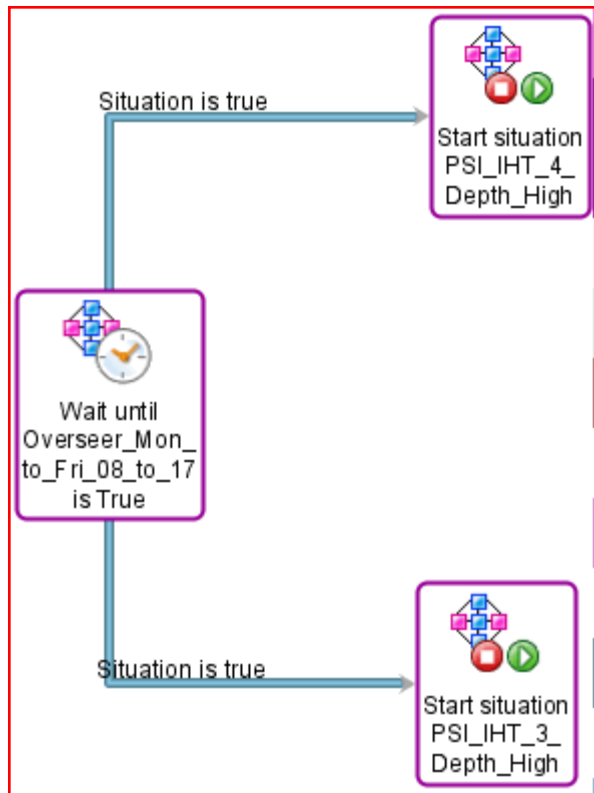
- ▶ Situations are the core alert building block of Tivoli monitoring
- ▶ Policies extend concepts established with situations and add additional functionality to the TEP
- ▶ Policies expand the integrated command and control capabilities of the TEP
 - Situations remain the essential starting point
- ▶ Policies add additional function and flexibility to situation capabilities

- ***Situations And Policies – What they are not***

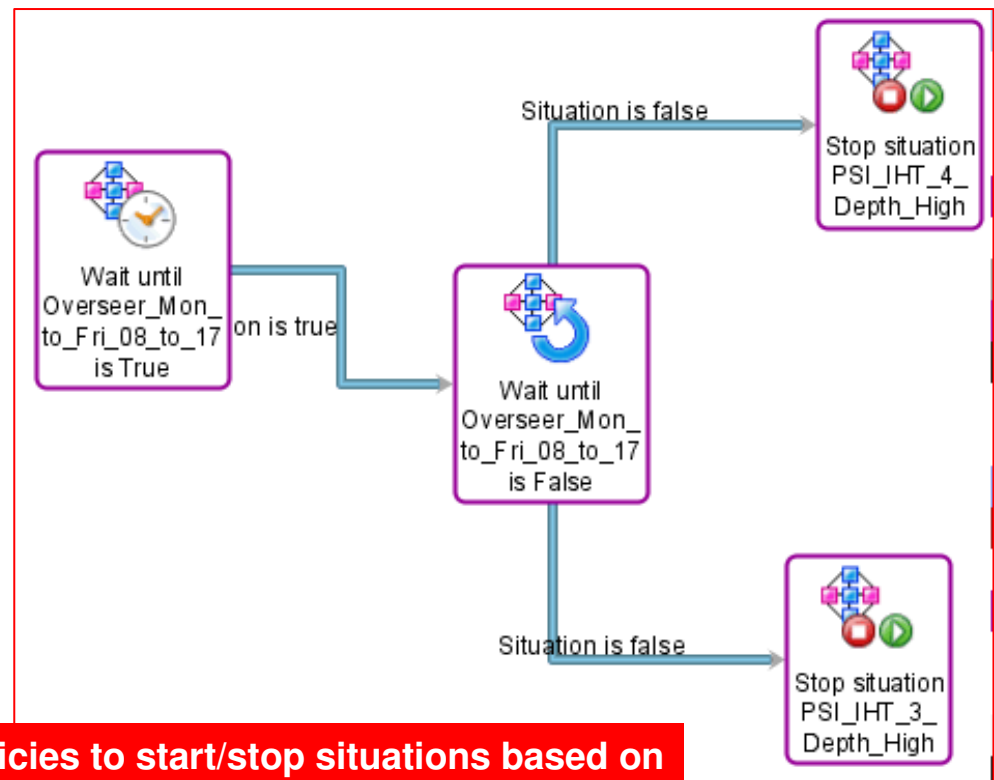
- ▶ The command capabilities of situations and policies are not a substitute for a full function automation engine such as IBM System Automation
 - Use situations and/or policies for basic detection and command/correction scenarios
 - Use situations and/or policies to drive SA automation execs when needed
 - For more detailed scripts (such as REXX) and analysis use System Automation

Example - Using A Policy To Manage Situations Based Upon Time Of Day Requirements

Overseer policy to start situations



Overseer policy to stop situations



Use policies to start/stop situations based on a variety of criteria

Time of day
Start specific analysis situations
and more.....

Another Example Using Policies To Manage The OMEGAMON PoT Workload

The screenshot displays the IBM Policy Center interface. The top section, 'Policy Details', shows the policy name 'POT_Reset_TEPS_Situations' with various configuration options like 'Distributed', 'Auto start', and 'Correlate by'. Below this is the 'Workflow Editor' for the policy, showing a 'Grapher View' with several workflow components. A 'Suspend execution for 6 hours' activity is connected to a 'Start policy POT_Workload_Control_STOP' activity via a 'sum' relationship. The 'Workflow components' pane on the left lists various activities such as 'Wait until a situation is True', 'Evaluate a situation now', 'Take action or Write message', 'Make a choice', 'Suspend execution', 'Start/Stop a policy', and 'Start/Stop a situation'.

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

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

Thank You!!

Session 14056

Check Out My Blog

http://tivoliwithaz.blogspot.com

The screenshot shows a browser window titled "Tivoli With A z - Microsoft Internet Explorer" displaying a blog post. The address bar shows "http://tivoliwithaz.blogspot.com/". The blog header features the title "Tivoli With A z" and a description: "This is a blog to discuss what is happening in the area of IBM z/Series, Tivoli, OMEGAMON monitoring, System Automation, and other relevant IBM Tivoli technology for z/OS performance and availability management." The author is identified as Ed Woods, IBM Corporation.

The main content is a blog post dated "Friday, February 5, 2010" titled "OMEGAMON DB2 Near Term History". It includes two screenshots of OMEGAMON DB2 NTH displays. The first screenshot shows the NTH menu options, and the second shows a table of record information.

The text of the blog post explains that OMEGAMON DB2 has a useful Near Term History (NTH) function. It provides an easy way 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. The amount of data being written to these files 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.

The post is signed "Posted by Ed Woods at 3:13 PM 0 comments".

On the right side of the blog, there is a section for "ED WOODS" with a bio: "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." Below this are links to "View my complete profile", "Links To My Articles" (including DB2 Thread Situations, OM XE For Mainframe Networks, Situation usage and best practices, Situation best practices - part 2, Article on policy automation, Article on monitoring DB2 dynamic SQL, and IMS historical performance analysis), and "Useful Links" (including Link to IBM Tivoli product information, Link To Tivoli User Group, Link to OPAL, and Tivoli System z Blog).