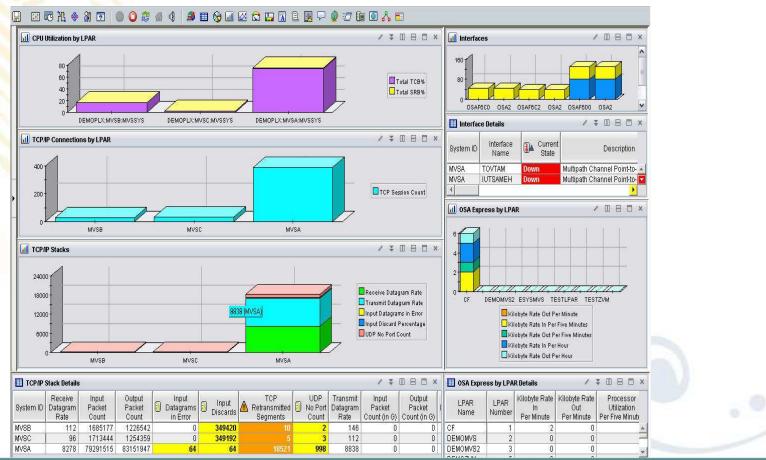
Top 10 tips for getting more out of OMEGAMON XE

Ernie Gilman IBM Sr. Consulting I/T Specialist egilman@us.ibm.com

Abstract: Top 10 OMEGAMON XE Tips for the TEP

Once you have installed the Tivoli Enterprise Portal (TEP), there are some simple changes you can make to dramatically enhance OMEGAMON's effectiveness. This presentation will illustrate how easy it is to customize the TEP and how quickly it can be done.



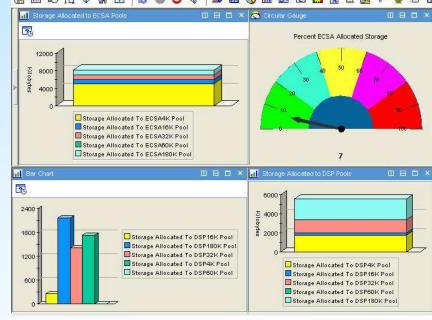
Agenda: Top 10 OMEGAMON XE Tips for TEP

TEP top 10 TIPs	Benefit
Cross LPAR Views	View all LPARs in one View
Creating a New Navigator View	Organize workspaces by user and problem
Cross Application Workspaces	Integrate many views into one
Eliminate Multiple pages	Compact simplified views
Filter Queries	Faster Views
Customizing Tables and Charts	Highlight only what you need to see
Situations	Alert only on problems that need action
Тороlоду	Verify Installation fix levels and connectivity
Built-in Tutorials	TEP Online Education
Tuning and ITMSUPER	Tune OMEGAMON Infrastructure

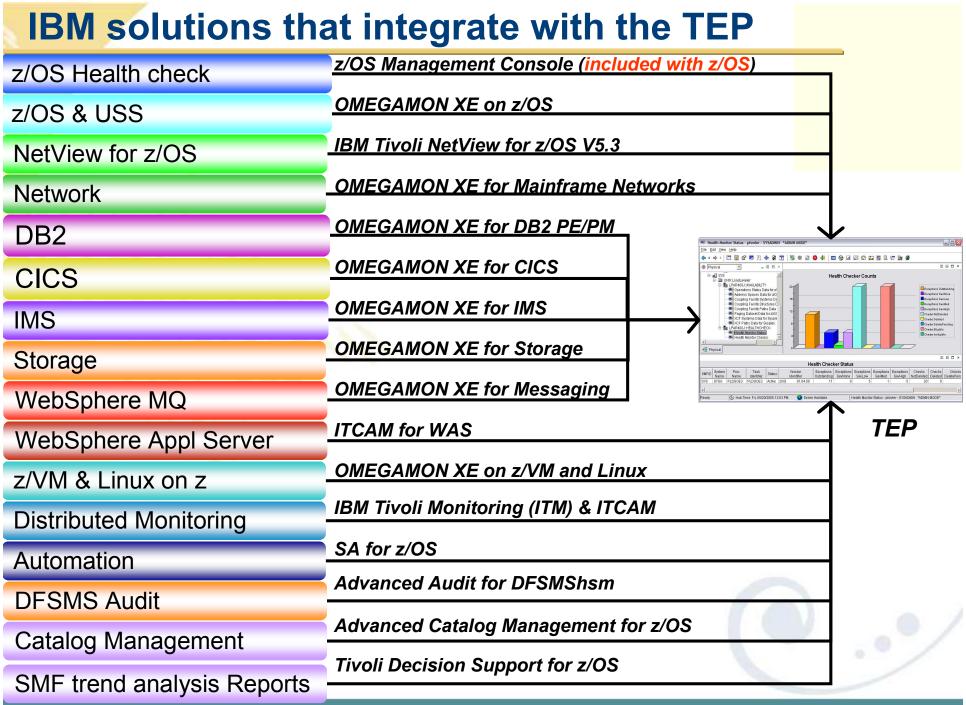
What is the Tivoli Enterprise Portal (TEP)?

Common user interface

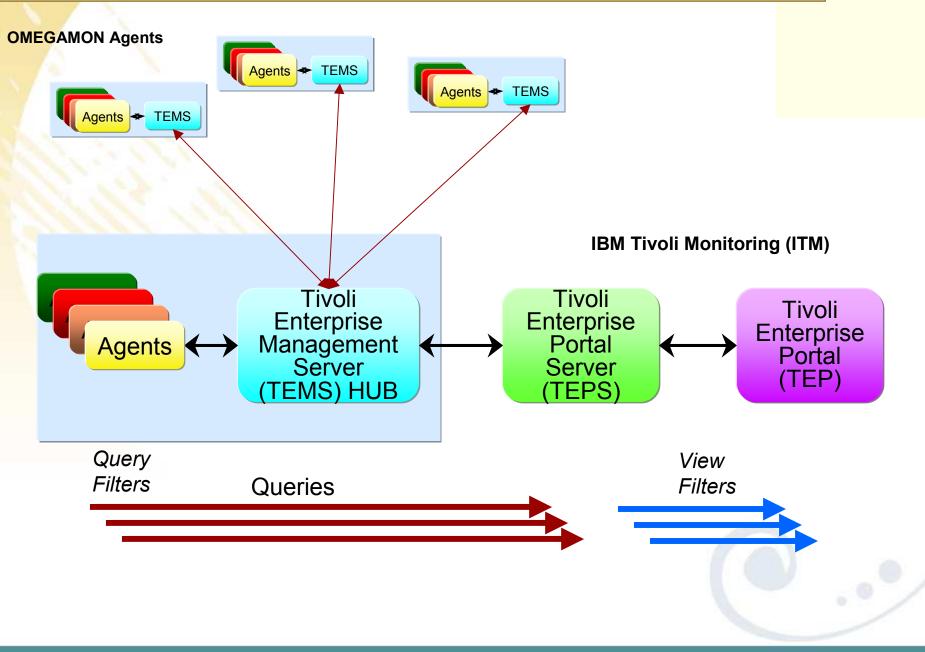
- Manage z/OS and distributed resources from a single browser interface.
- Displays data in graphs, charts and table formats
- View real time and historical data, at the same time
- Easy to configure, right from the TEP
- Out of the box Best Practices
 - Workspaces, Situations, and Expert Advice

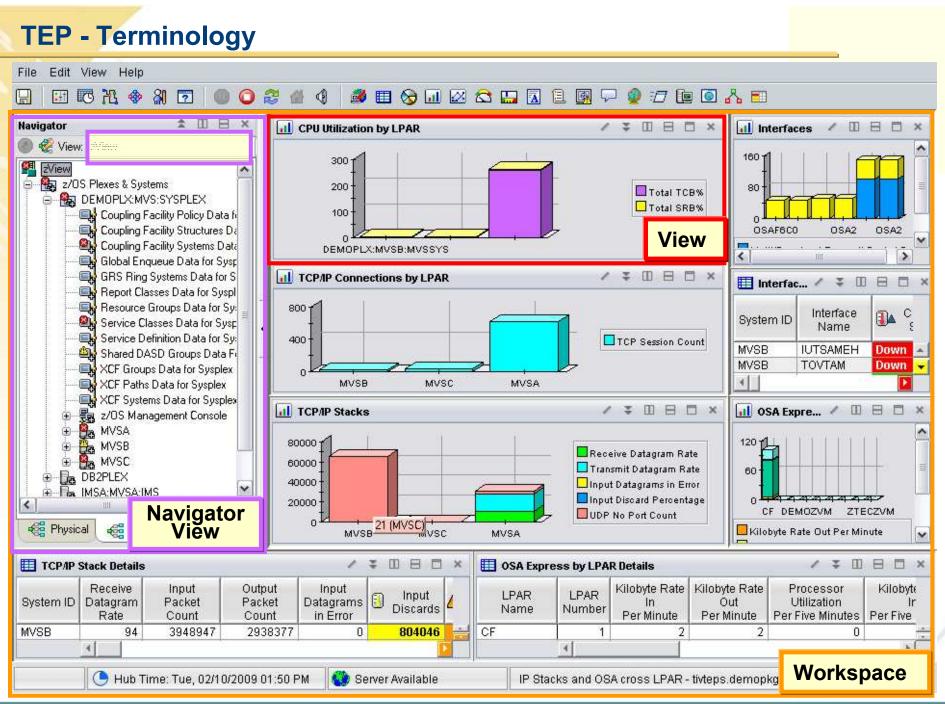


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OMEGAMON XE TEP Infrastructure



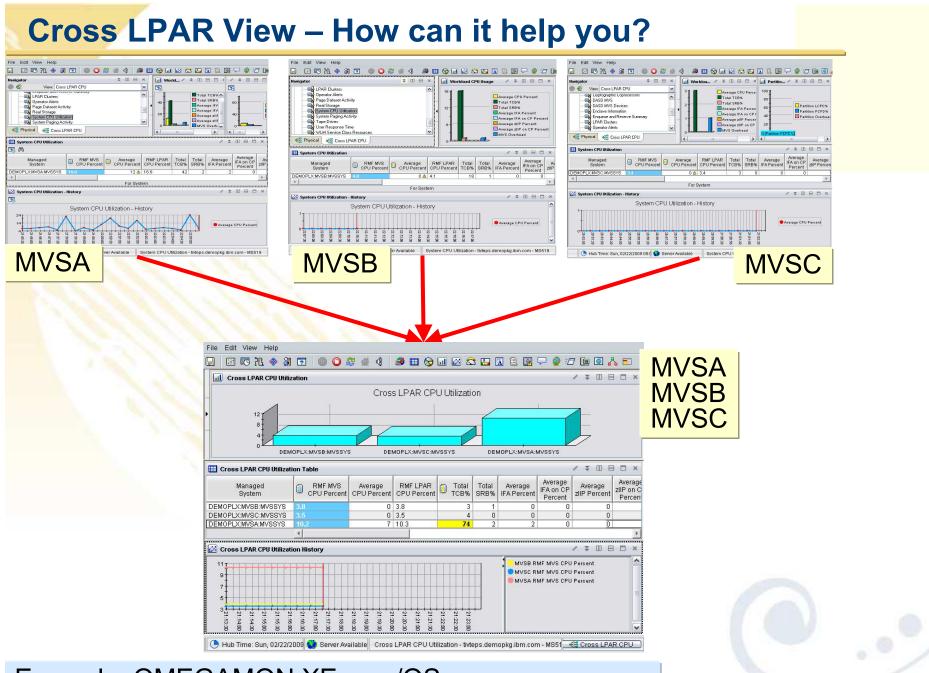


Top 10 Tips

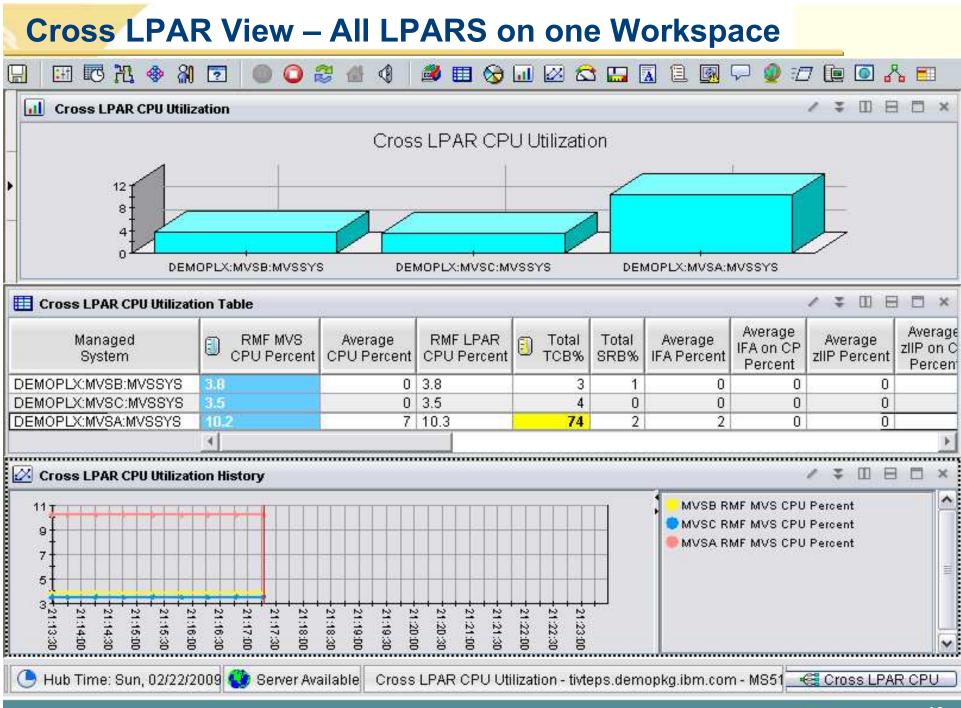
- 1. Cross LPAR Views
- **2.** Creating a New Navigator View
- **3.** Cross Application Workspaces
- 4. Eliminate Multiple pages
- 5. Reduce Query data
- 6. Customizing Tables and Charts
- 7. Situations
- 8. Topology
- 9. Built-in tutorials
- 10. Tuning and ITMSUPER





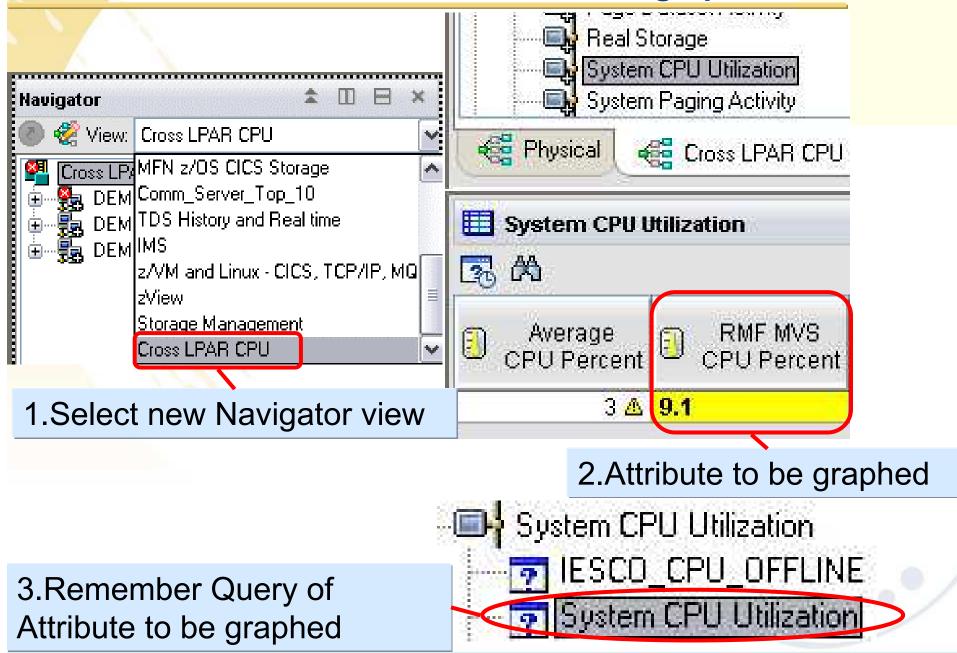


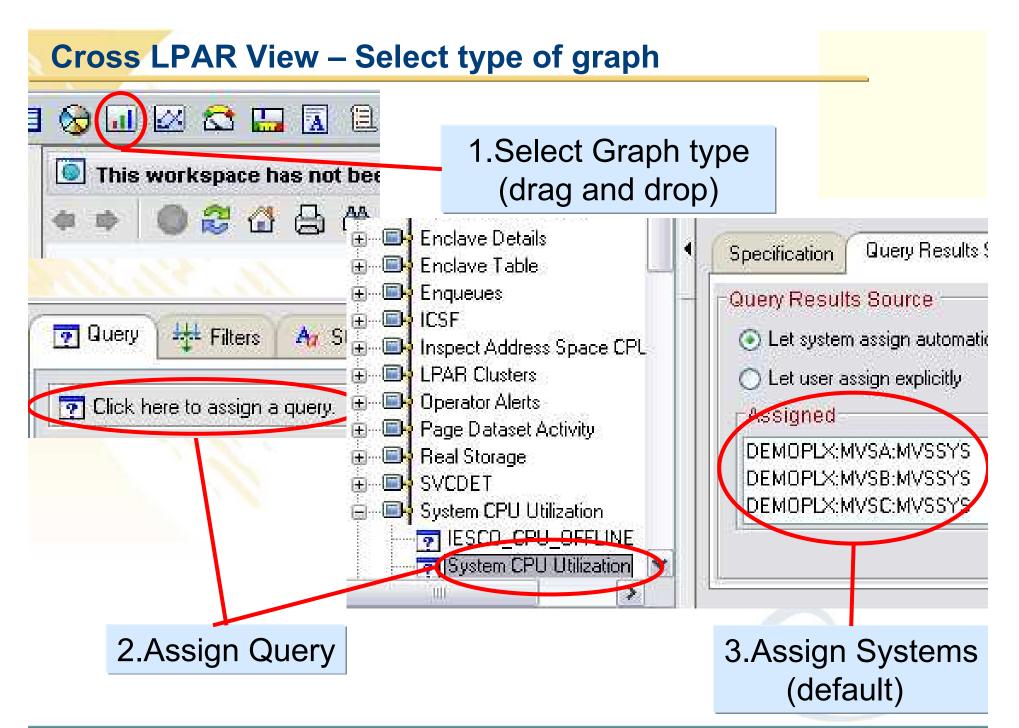
Example: OMEGAMON XE on z/OS Default Physical drill down to see one LPAR at a time



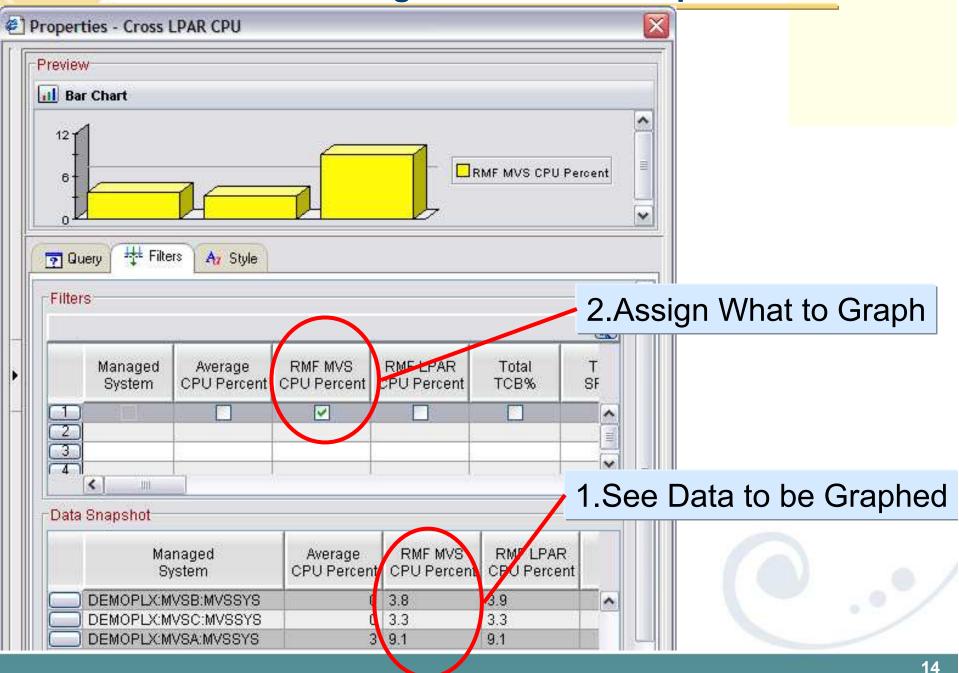
Cross LPAR	/iew – Start with New Navigator View
Navigator	1.Edit Navigator Views
	2. Create a New Navigator View
± € z/OS	escription: Show how to create a new Navigator View
🕘 Edit Navigator Vi	ew
Target View: Cross LPA	SA:MVSSYS Image: Algorithm of the second

Cross LPAR View – Choose attributes to graph





Cross LPAR View – Assign Attribute to Graph



Cross LPAR View – Customize Graph Properties - Cross LPAR CPU Preview CPU Utilization OPLX:MVSC:MVSS OPLX:MVSA:MVSS OPLX:MVSB:MVSS 1.Enter Name of window Hers Filters Az Style 🛜 Query "CPU Utilization" Text: Size: Font: Style: Dialog 10 Plain V v ××× 9999 222 v Orientation Vertical Horizontal 2.Assign axis to display Attribute Managed System Y Category Axis - General Axis Label Category Axis

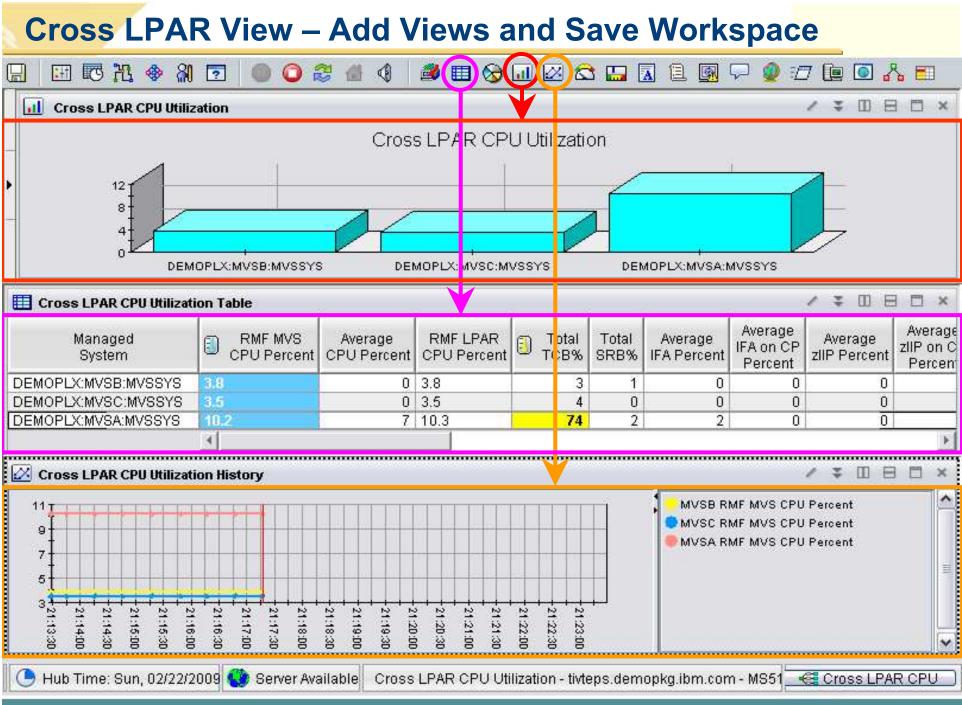


Chart Customization – Style Property Tab Details

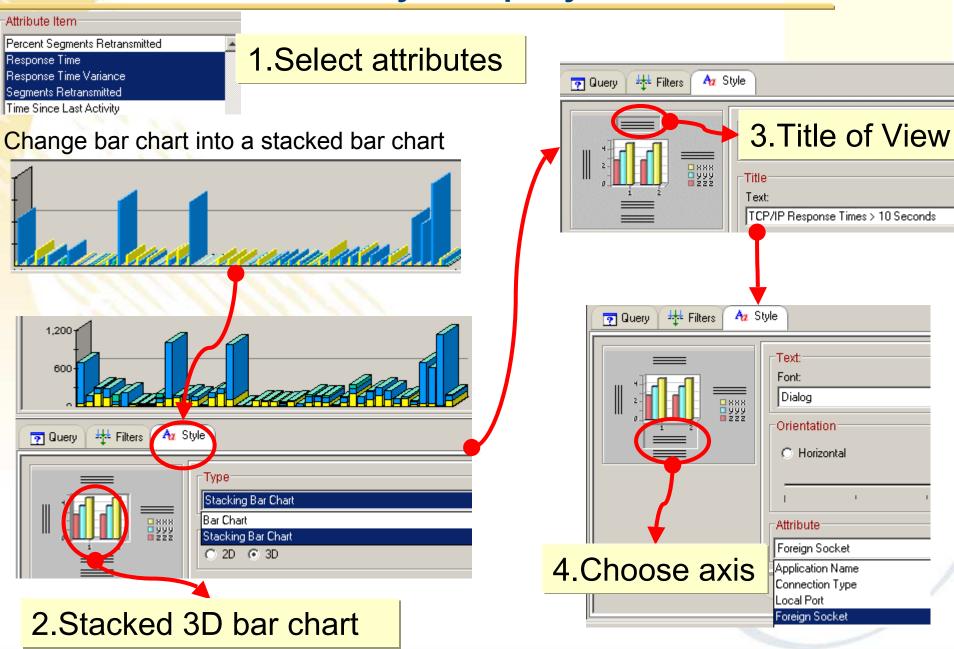
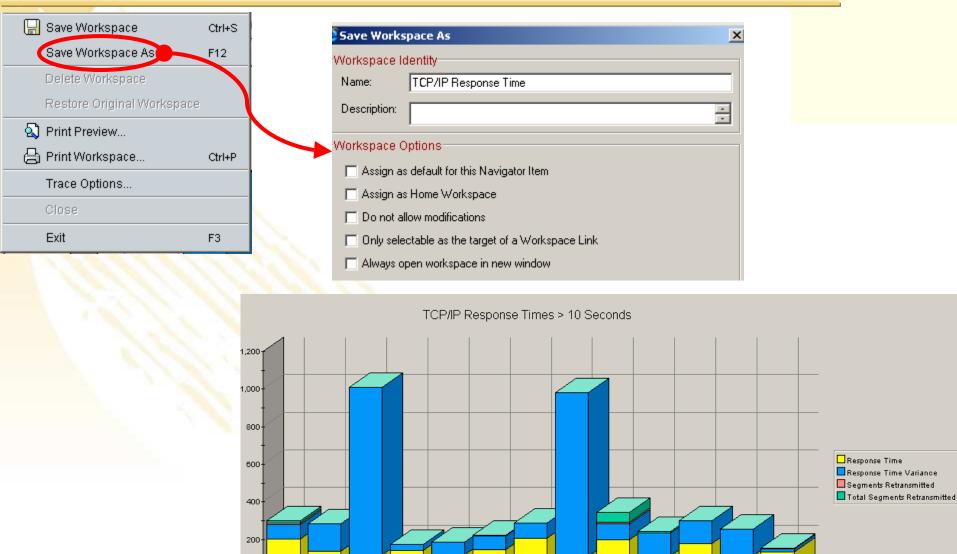


Chart Customization – Save Workspace



9.20.202.20:2809

4

46.26:21323

9.27.132.90:3219

9.52.108.43:1446

9.52.105.98:4492

9.20.202.17:3965

9.20.202.20:9100

9.152.196.87:4039

.42.46.17:2186

42.46.26:2249

42.46.26:2250

152.196.87:2731

Chart Customization – Select Workspace

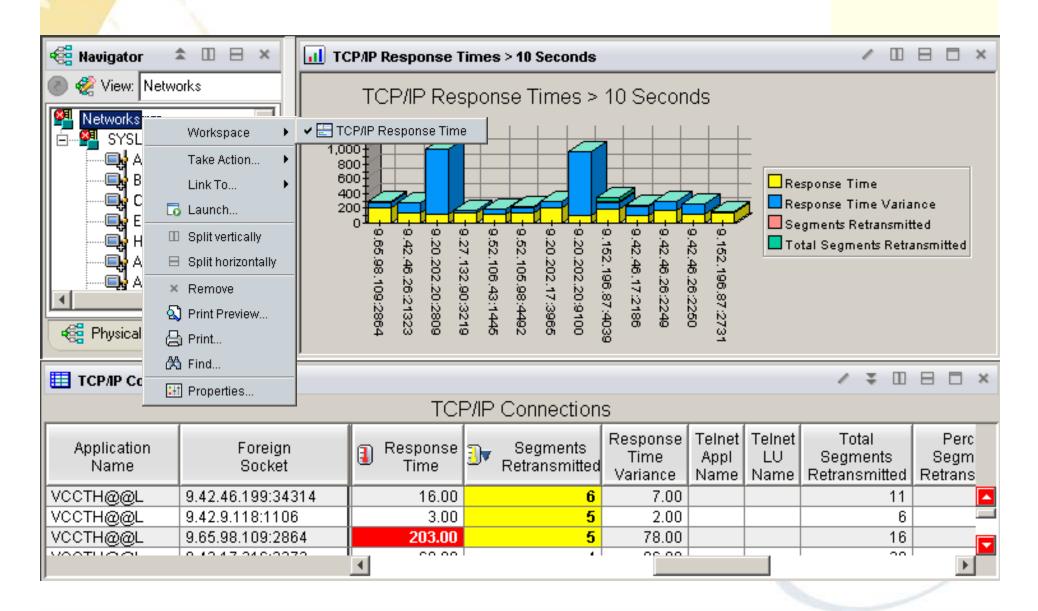
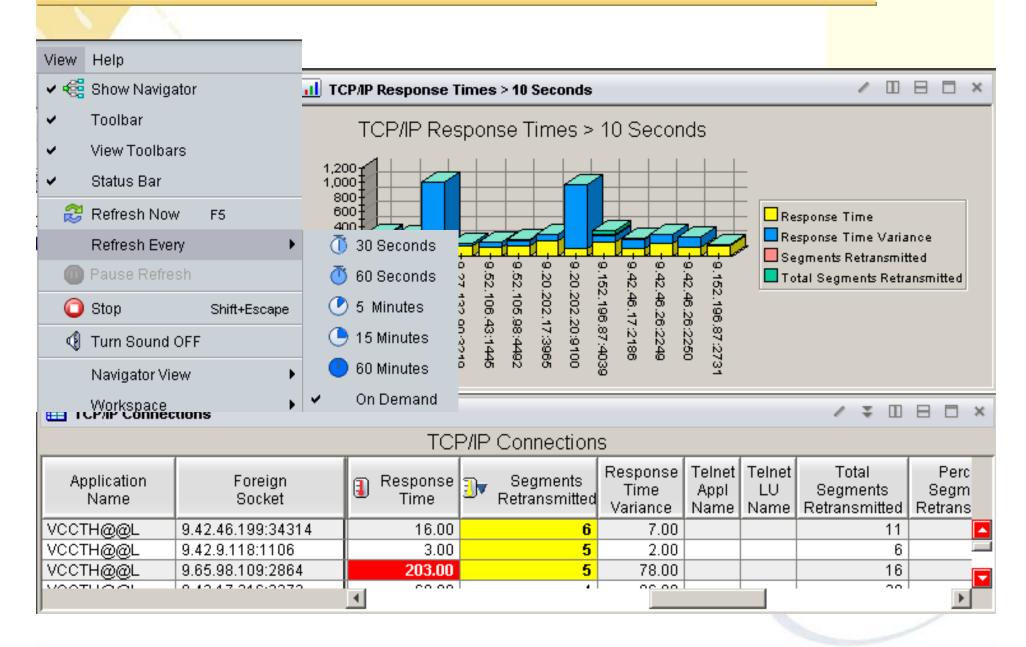


Chart Customization – AutoRefesh



Examples of OMEGAMON cross system workpaces

•OMEGAMONon z/OS

•CPU Utilizaiton for all LPARs

•Top Jobs by CPU for all LPARs

•OMEGAMON for DB2

•Top Thread Exceptions for all DBs all LPARs

•OMEGAMON MFN

•IPStack Status all stacks

•All HPR with ABR Yellow or Red for all Stacks

•Worst TCP/IP Connection Response times all Stacks

•FTPs by duration and bytes

•OMEGAMON on z/VM and Linux

•Top Linux CPU and Memory for all systems

•OMEGAMON CICS

•Region overview cross system

•Dumps cross Region and LPAR

•Top Transactions by CPU cross system cross LPAR

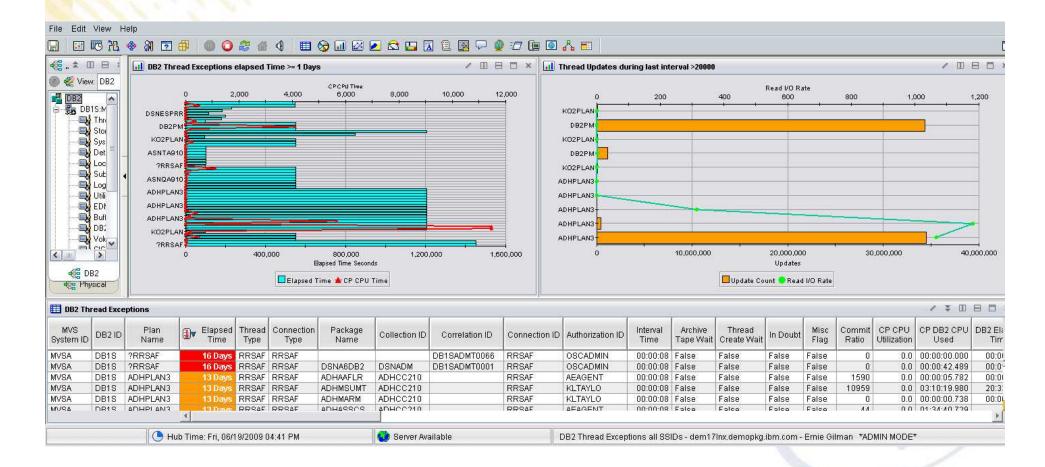


OMEGAMON for DB2 Thread Exceptions

Thread Exceptions across all systems

•Elapsed time

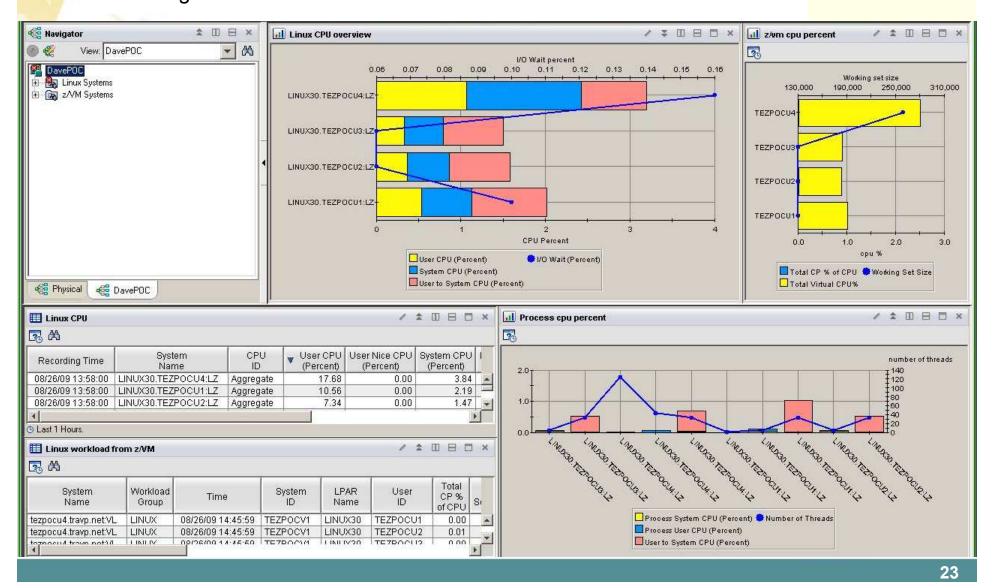
•Overlay I/O, Updates, CPU Time



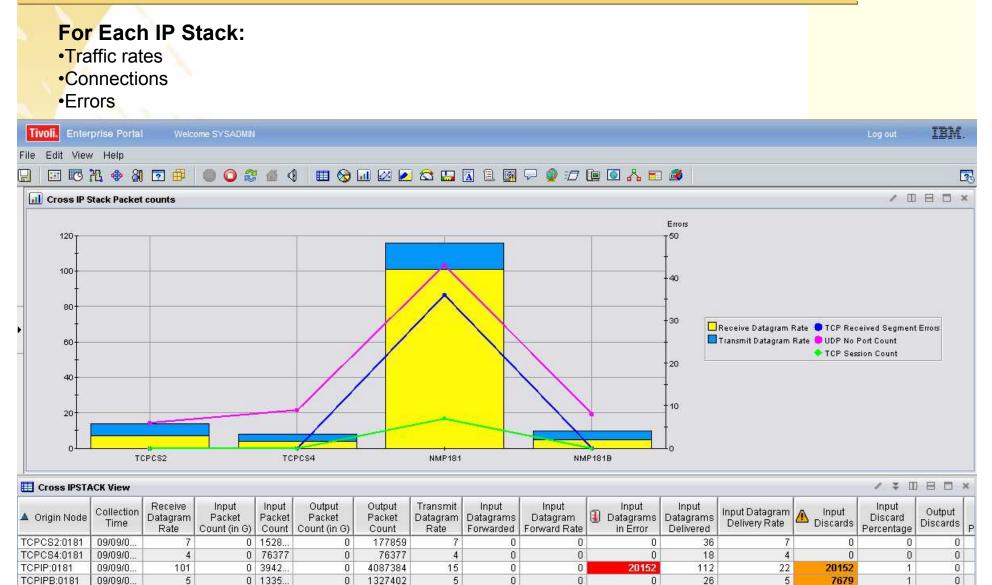
z/VM and Linux

Linux CPU across all systems

From z/VM's view and Linux OS viewHighest Process CPU



MFN Cross IP Stacks



🕒 Hub Time: Wed, 09/09/2009 09:49 AM

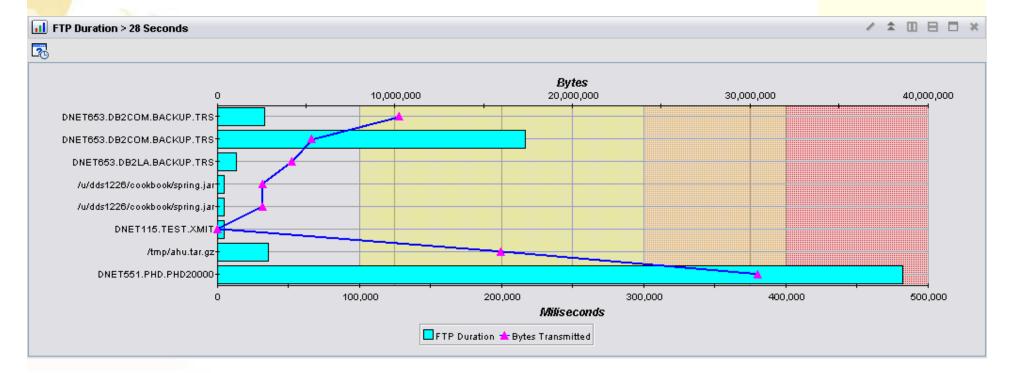
4

Logical

MFN FTPs

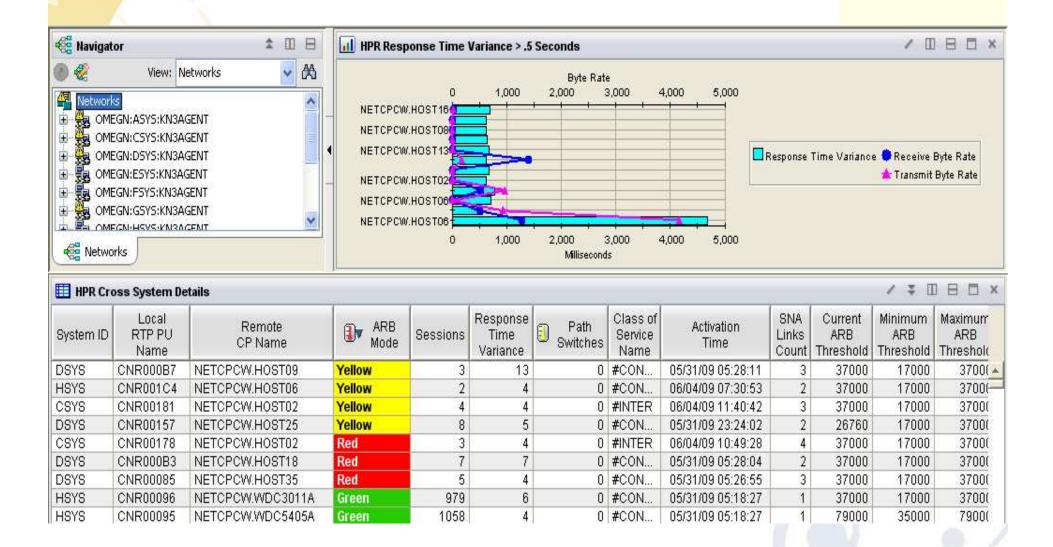
FTPs across all LPARs

Duration and bytes transmitted





MFN EE and HPR



Top 10 Tips

- 1. Cross LPAR Views
- 2. Creating a New Navigator View

3. Cross Application Workspaces

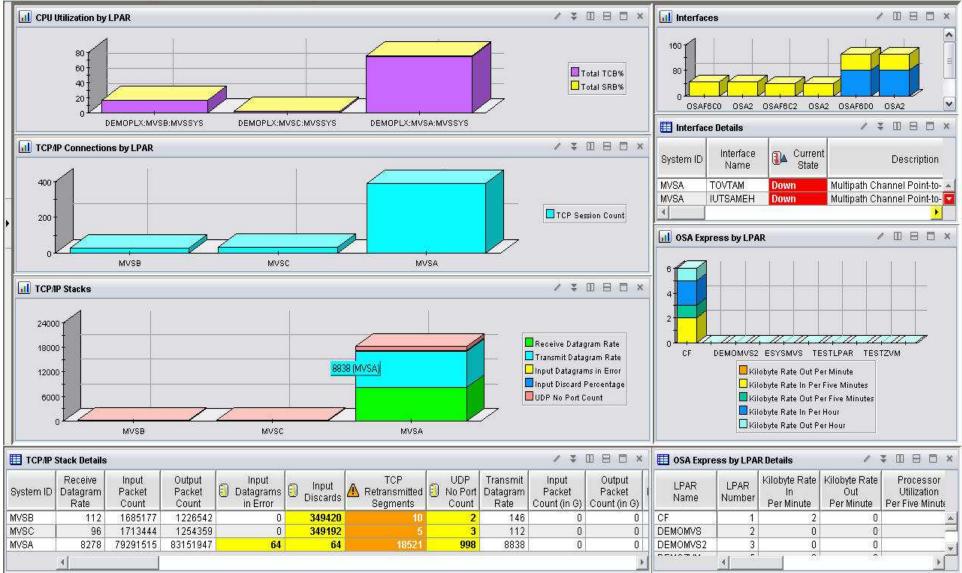
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Cross IP-STACK Workspace Example

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Cross Application Workspaces –

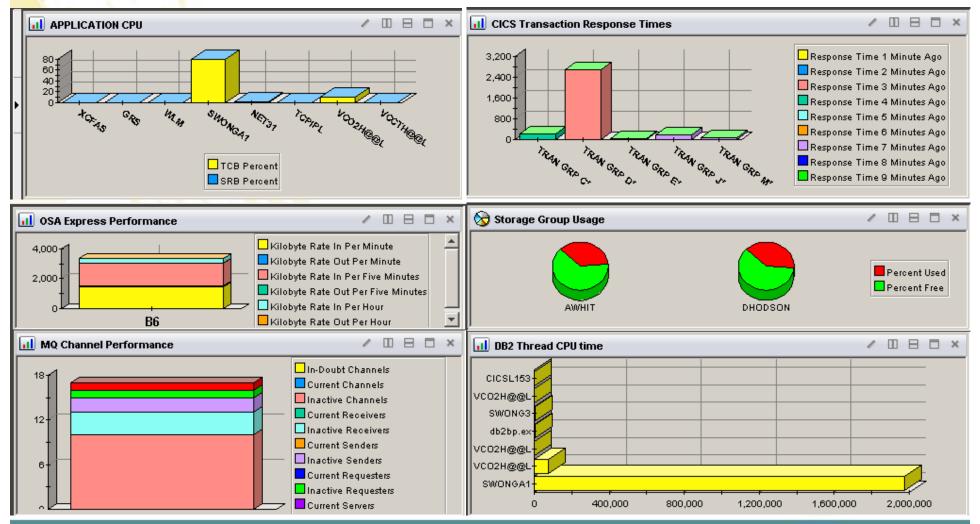
Example of workspace that ties middleware together •OMEGAMON XE on z/OS •OMEGAMON XE for CICS z/OS

•OMEGAMON XE for Mainframe Networks

OMEGAMON XE for Messaging

•OMEGAMON XE for Storage

•OMEGAMON XE for DB2 PE



View all aspects of one Applications

•OMEGAMON XE for CICS z/OS

•OMEGAMON XE on z/OS

OMEGAMON XE for Mainframe Networks

•System Automation for z/OS

•Tivoli Decision Support for z/OS (SMF RECORDS)

🖽 CICSTIV1 TCP/IP Connections 🛛 🗸 🗉 🗄 🗖 🗙								🖽 CICSTIV1 Region Overview 🕢 🌣 🔟 🗄 🗖 🗙									
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CICST	7IV1	1	0	0	0	464.0	MVSA	CICSTIV1	Yes		6.4.0	N/S	CTV1	CICST001	CICST001		
4						E											
🖽 CICSTIV1 Automation Status 🕢 ∓ 🗉 🖂 🗙							🖽 CICSTIV1 Address Space CPU Overview 🛛 🗸 😨 🖂 🛪										
Reso Nan	ne 🥙 Sta	tus 💙 Statu		Status	esourc Type	Sys	Job Name	Step Name	Proc Step		SvcClass	SvcCla Perio	- <u>ASU</u>) JESJOBI	Percent Pe		
CICST	TV1 Available	e Available	ldle	AF	֊	DEMC	CICSTIVI	CICSTIV1	TIV1	STC	OPSDEF		1 0X01	L1C STC1705	1 0.0		
<																	
🖽 CI	CSTIV1 Transa	ction SMF 110 His	tory	/ ¥	08	□ ×	📶 CICSTI	iv1 AVG transa	action resp	onse tii	me > 1sec :	SMF 110	HISTORY	1	085×		
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ystem ID	CICS Region Name	Task State	CICS SYSIDNT	Transaction ID	User ID	Terminal ID	Task Number	Resource Type	Resou Nam	2020204	Elapsed Time		CPU Time	Program ID	Exceeds MA> Threshold		
VSA	CICSTIV1	Suspend	CTV1 (CSNE	n/a	n/a	00022	ZC	DFHZNAC1		19 Days		00:00:00	DFHZNAC	No		
VSA	CICSTIV1	Suspend	CTV1 (CSNC	n/a	n/a	00019	CSNC	MROQUE	EUE	19 Da	ys	00:00:00	DFHCRNP	No		
		371					1			1	51000000000						

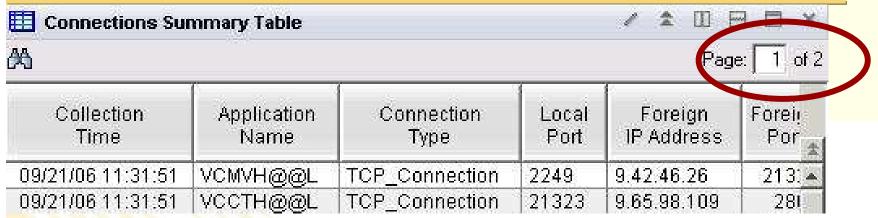
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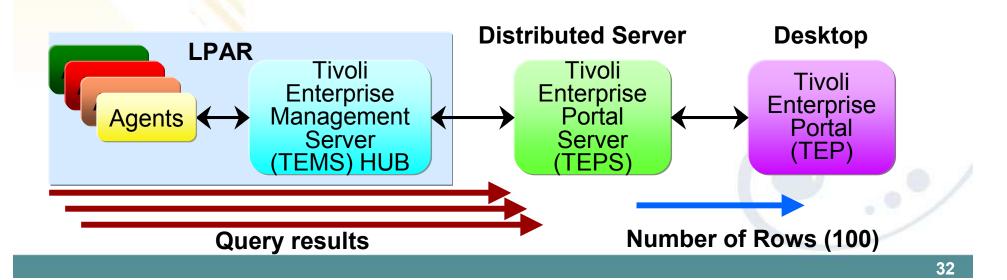


Multiple Page Views – What does it mean?



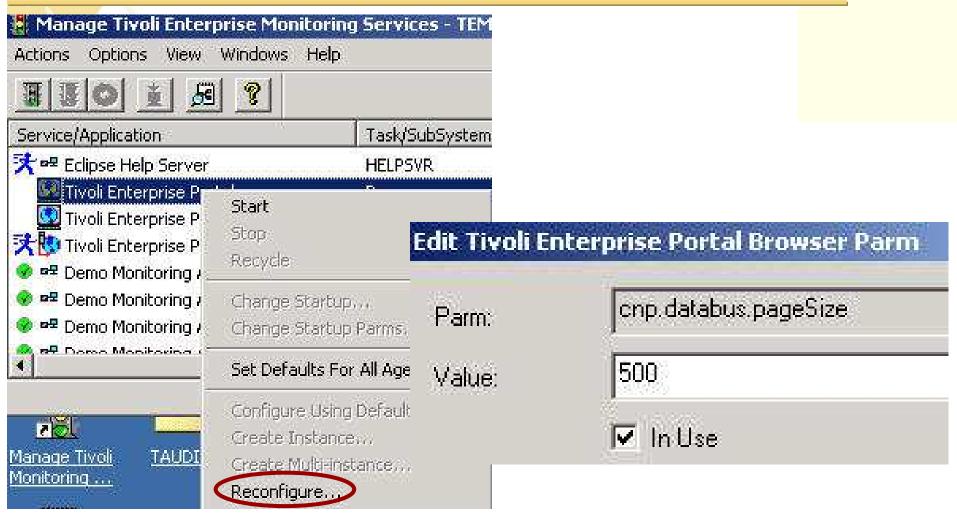
Multiple page tables

- •Sorts only works one page at a time
- Limited performance savings
- •If too many rows, then limit query with a filter



Multiple Page Views – Increase number of rows Page: 1 of 4 **Properties** -View-level Page Size 💽 Use default 100 rows will be returned as a page C Return all rows **Multi-Page Chart** Number of rows to return: Number of rows to return: 500 **Increase Rows** Connection Response Times and Retransmissions Single Page Chart 9.42.46.26 9.152.196.87 Save Workspace 9.42.46.26 9.152.196.87 9.42.17.201 127.0.0.1 9.52.105.94 9.42.9.118 9.20.202.17

Multiple Page Views – Changing Default Rows



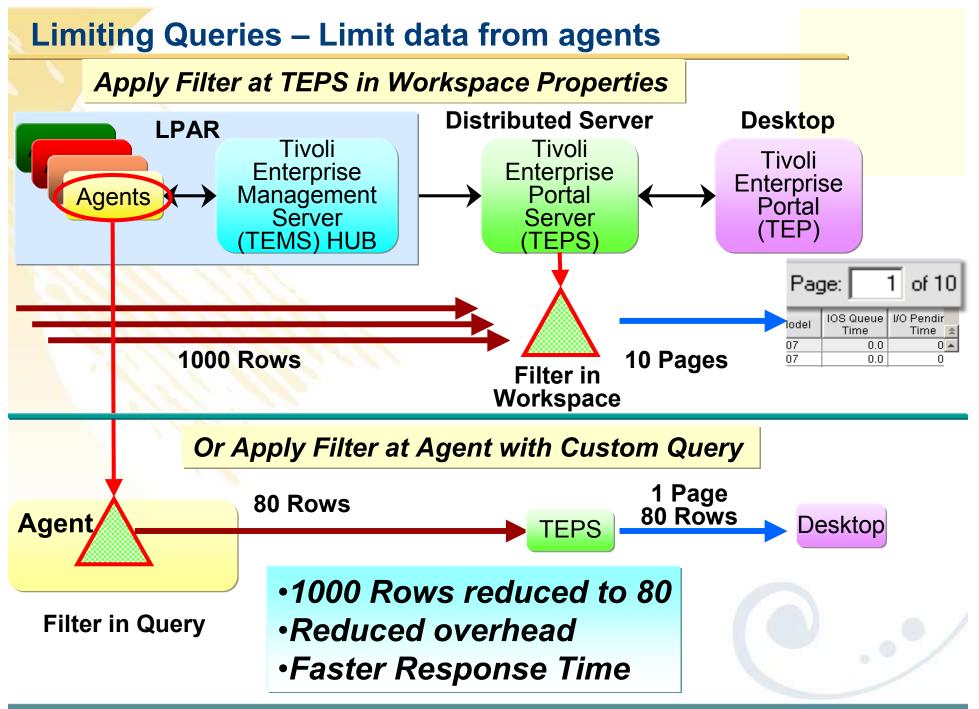
Change cnp.databus.pageSize on TEP •Number of rows to fetch in a single logical page •Increase from default 100 rows •See ITM Admin Guide SC32-9408

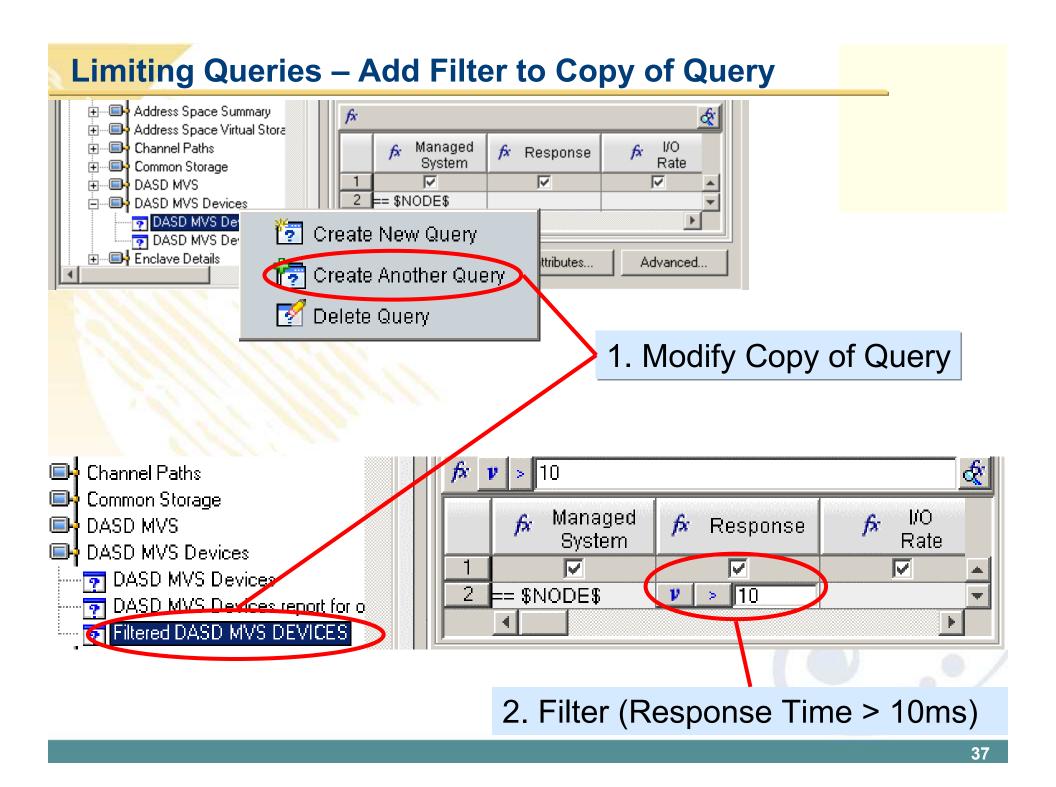
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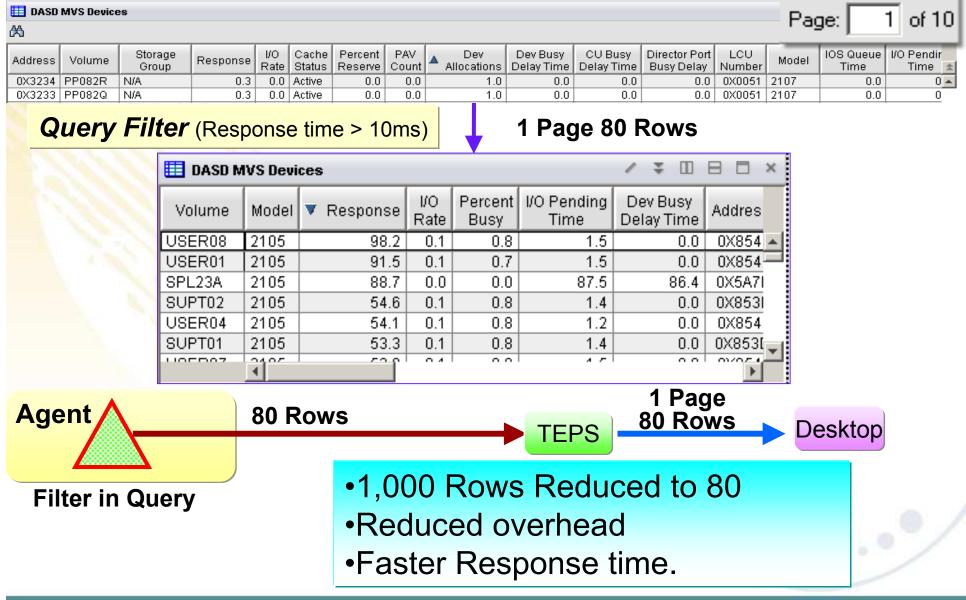






Limiting Queries – Save Workspace

10 Pages 1000 Rows



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Tivoli Enterprise Portal Situations and thresholds

View Thresholds can be used to highlight attributes of potential problems. Note: You will only see these if you are looking at the Table View

Response Time	Origin Node	System ID			
15.19	TCPIP:MVSA	MVSA			
5.67	TCPIP:MVSA	MVSA			
Response Time GE 5.00					

Out of the box situations to proactively notify you.

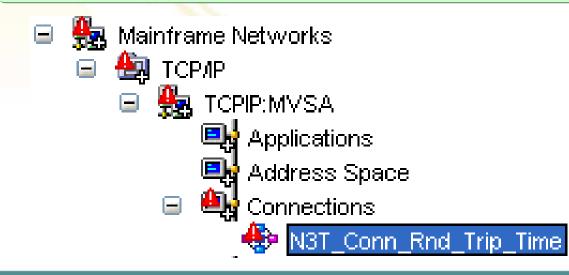




Table Customization – Thresholds

e	Pro	operties - Netw	vorks						×			
	P	review										
	E	Table										
		Origin Node	Byte Rate	Collection Time	Application Name	n Connect Type		Local Port				
	T	CPIPL:SYSL	43545665	09/21/06 11:31:51	NET	UDP_Endp	oint	12002				
$\left - \right $	T	CPIPL:SYSL	0	09/21/06 11:31:51	NET	UDP_Endp	Act	ou Eoro	aula		×	1
		CPIPL:SYSL	42354599	09/21/06 11:31:51	NET			IOWTOIN	iula			
		CPIPL:SYSL	10464	09/21/06 11:31:51	VCCTH@@	L UDP_Endp	Fo	mula			×	
		((
							(Critica	al)			
		🮅 Query 🎽 👯	Filters 🎽 🛃 T	hresholds 🛛 🗛 Style			Re	sponse	Time >= 10	0.00)		
	1	Properties -	Networks									
	Ir								ng)		*	
		Preview					1:1	🖱 🕨 🖇	R Q Q (↔		
		🔲 Table								Гіте GE 100.00	Critical	
	Ľ			1	1				Nesponse i		Childan	
		Origin No	ode Byte Rate	Collection Time	Applicatio Name	in Conne Typ						
		TCPIPL:SY	'SL 101	09/21/06 11:31:51	INETD4	TCP_Con			Poamonto F	Retransmitted GE 5		
		TÇPIPL:SY	′SL 10546	09/21/06 11:31:51	VCCTH@@				beyineniis r		• Warning	
	-											
								how deta	iled formula			
		🔽 💽 Query	🕂 Filters	Thresholds 🛛 🗛 S	tyle					ок		
	-	Threshol	ds									
		fx								(51	
										1		
				R	esponse	Response	Tel		Telnet	Segments		
		Us	e Icons		Time	Time Variance	qA Nar		LU Name	Retransmitted		
				ritical >= 1	100.00							
		2		Warning 🗾						>= 5		
										,		

Table Customization – Add View Thresholds

🚨 Lock ti	nis Column			TCP/IP	Сс	onnections					
Application Name	Foreign Socket		•	Response Time	3	Segments Retransmitted	Response Time Variance	Telnet Appl Name	LU	Total Segments Retransmitted	
VCMVH@@L	9.42.46.26.21323			83.00		U	98.00			U,	A
VCCTH@@L	9.65.98.109:2864			203.00		5	78.00			16	_
VCC5H@@L	9.42.46.26:21323			139.00		0	146.00				
VCC5H@@L	9.42.17.201:29515			35.00		2	49.00			97 🛛	
		J	•								

- •Highlight tables with threshold
- Lock columns to make easer to read when scrolling
- Quick navigation to thresholds
- •Sort by selecting title of any column
- •Save workspace to remember settings

Overlays Helps Correlate Attributes



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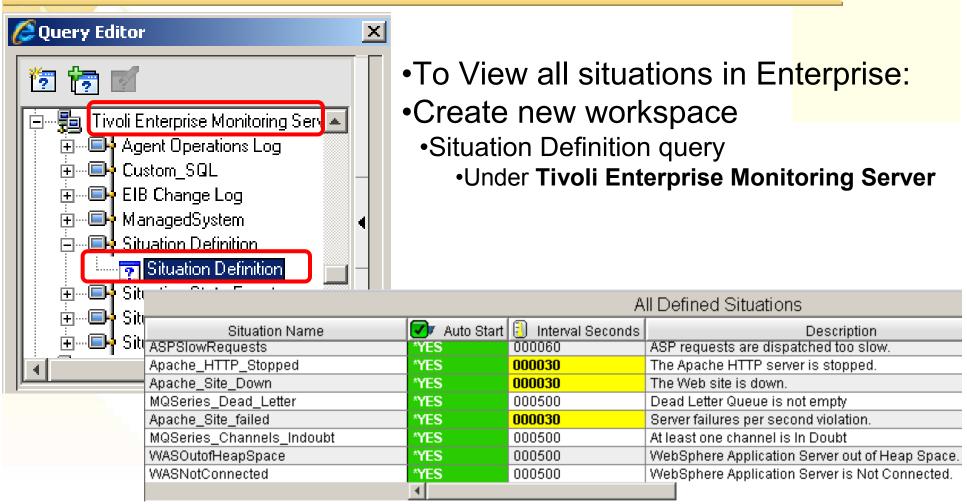


Manage Situations – Locate Running Situations Severity Status Situation Name W۲ Critical Crypto PCI Unavailable Open Critical Crypto_Invalid_Master_Key Open Identify Unnecessary Situations In this example, Crypto is NOT installed 🍇 MVS System 🗄 📲 📴 🕒 🗄 🗄 Workspace 🔜 Address Spac **Channel Path** Manage Situation at Managed System: DEMOPLX:MVSA:MVSSYS Take Action... Common Stora Cryptographic Link To... DASD MVS Name Auto Start Interval Status 🔜 DASD MVS D 🚸 Situations... 🏤 Started Crypto_CKDS_80PCT_Full Od/Oh:30m:0s 🔜 Enclave Inform Crypto_CKDS_Access_Disabled Started Manage Situations Od/1h:Om:Os 🔲 Engueue and 🍋 Crypto_Internal_Error Od/Oh:Om:30s 🕞 LPAR Cluster: 🎦 Manage Policies 鈍 Open 0d/8h:0m:30s Crypto_Invalid_Master_Key 鈍 Open Crypto_Invalid_PKA_Master_Keys 0d/8h:0m:30s 🔲 Page Dataset Activity 🏤 Started Crypto_No_Coprocessors Od/4h:Om:Os 🔜 Real Storage Crypto No PCI Coprocessors Od/Oh:Om:30s 🔲 System CPU Utilization Crypto PCI Unavailable 🕰 Open 0d/1h:0m:30s 🔲 System Paging Activity Tape Drives 🔜 User Response Time 🔜 WLM Service Class Resources 🔜 z/OS UNIX System Services Overview

1. List Situations by Application, one application at a time

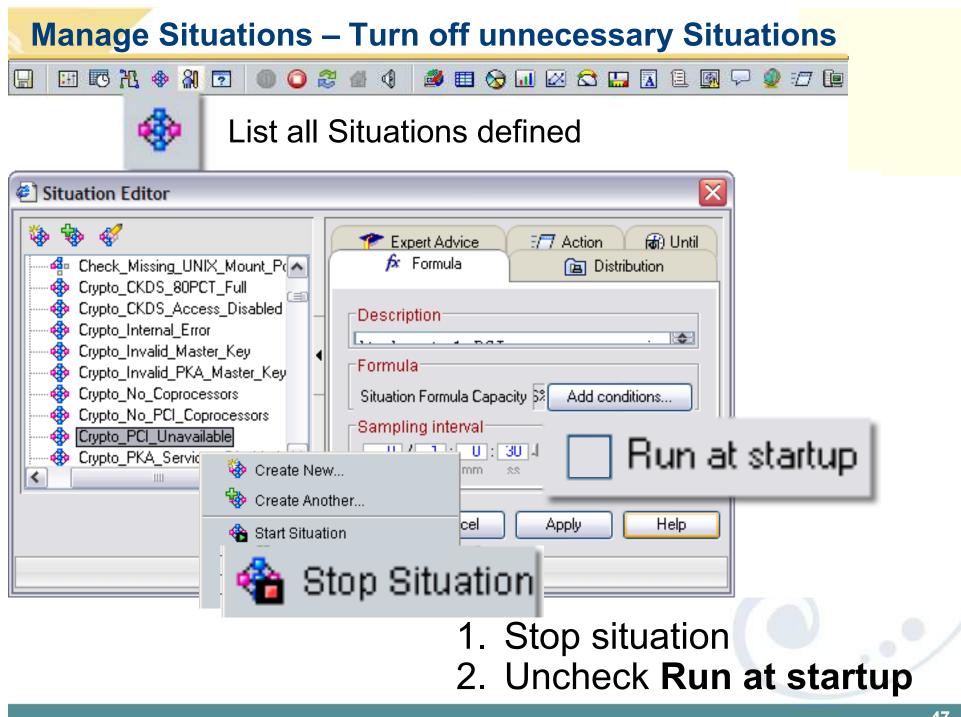
2. See which Situation are automatically started

Manage Situations – List ALL Active Situations



See Autostarted Situations
Identify unnecessary Situations
Highlight situations with short intervals
Can impact performance



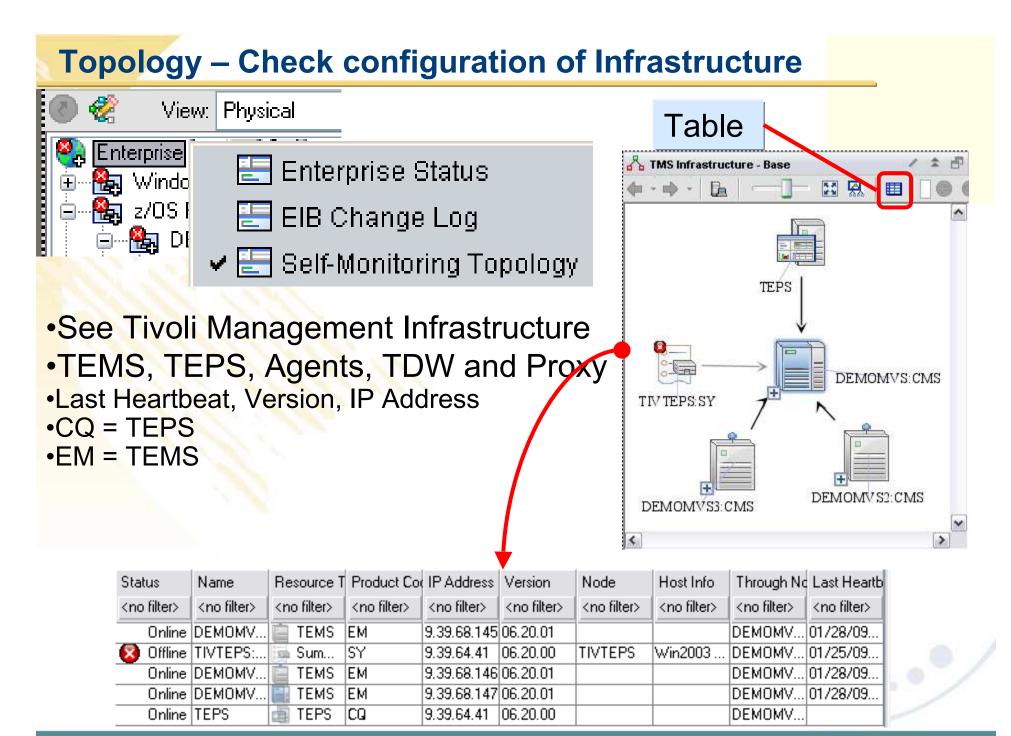


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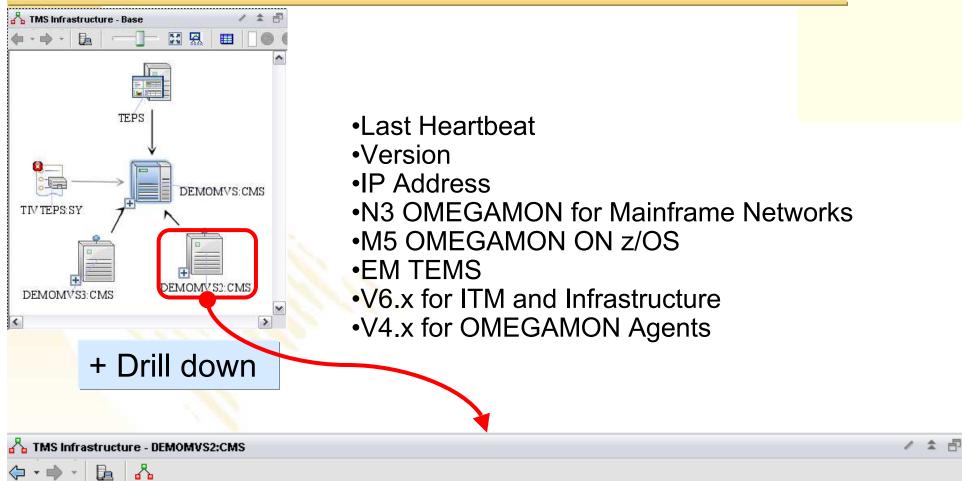
10.Tuning and ITMSUPER







Topology – Check configuration and versions



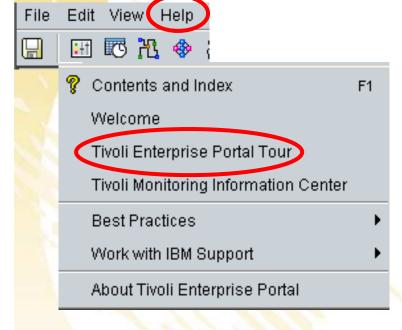
Status	Name	Resource Type	Product Code	IP Address	Version	Node	Host Info	Through Node	Last Heartbeat
<no filter=""></no>									
Online	TCPIP:MVSB	🞭 Agent	N3		04.01.00			CXEGN3:MVSB:	01/25/09 18:20:
Online	DEMOMVS2:CMS	📋 TEMS	EM	9.39.68.146	06.20.01			DEMOMVS:CMS	01/28/09 08:17:
Online	CXEGN3:MVSB:	扫 Agent	N3	9.39.68.146	04.01.00	MVSB	z/OS 01.09.00	DEMOMVS2:CMS	01/25/09 18:20:
Online	VTAM:MVSB	🛃 Agent	N3		04.01.00			CXEGN3:MVSB:	01/25/09 18:20:
Online	DEMOPLX:MVS	🛃 Agent	М5	9.39.68.146	04.01.00	MVSB	z/OS 01.09.00	DEMOMVS2:CMS	01/25/09 18:18:

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Built-in Tutorials



Tivoli Enterprise Portal tour

- Welcome to the Tivoli Enterprise Portal tour. In under 10 minutes this tour introduces you to some of the major features:
- NavigatorGetting startedNavigatorTivoli Enterprise Portal windowWorkspacesUsing the NavigatorViewsTutorial: Defining a workspaceSituationsLinking to a workspacePropertiesResponding to events

Tutorial: Defining a workspace

This tutorial gives you hands on practice defining a workspace. In the following exercises you will add new views to an undefined workspace, tailor them with the Properties editor, save the workspace, and, finally, edit the workspace properties.

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Tuning TEP Summary

Problem and symptom	Solution						
No or missing data on workspaces							
Too Many Query targets can result in an error TEPS variable KFW_REPORT_NODE_LIMIT Defaults to 200	Use group system lists Such as dynamic ones: *MVS_SYSTEM, *MVS_CICS, *MVS*DB2						
Mismatch of application support files	Run ITMSUPER to isol						
Default filter within query is hiding data Look at Query tab on view properties	Change query filter						
No response from query to one of the targets Default query timeout is 10 minutes	Code timeout on query for view See Technote: http://www.ibm.com/support/docview.wss?uid=swg213757 86						
Workspaces are slow							
Too many rows being return	Filter with custom query to reduce number of rows						
Multiple windows in workspace	Use common query for several windows in workspaces All queries to the same agent run serially. But to different agents they run asynchronously.						
Low Java cache You may see Heap dumps on desktop	Increase java cache size See Appendix C in ITM admin Guide						
Top 10 lists and sorts in Query for many rows Select advance button on query editor	Avoid query sorts, use fixed thresholds Then Sort within workspace view						

Here is an awesome tool that all our customers should have to help tune and manage OMEGAMON and ITM.

In addition to identifying performance issues caused by things like too many situations, TEPS Analysis will help Identify common problems such as application seed files being out of sync between the HUB and the TEPS.

The tool is really simple to run since there is nothing to install. Just unzip it someplace like the TEPS server and it will prompt you.

This can be downloaded from OPAL. Just search on ITMSUPER at: http://www-01.ibm.com/software/brandcatalog/portal/opal

ITM Super Tool –

See CPU utilization

zOS High CPU Usage Statistics (1.328 Seconds)

Server_Name	Job/Step	CPU_Time/Elapsed Seconds	Life CPU %	TCB_Time Seconds	CPU_Percent	TCB_Percent
PR02:MVSSYS	DIVPDBM1/IEFPROC	28195/194682	14.4%	2244.77	28.2	0.0
PR02:MVSSYS	TCPIP/TCPIP	11622/210599	5.5%	406.23	32.6	0.4
PR02:MVSSYS	DIVPDIST/IEFPROC	42554/194674	21.8%	20341.77	56.5	38.2
:TS01:MVSS	CANSCN/CNDL	14402/180774	7.9%	14332.28	10.4	10.4
TS02:MVSSYS	CATALOG/IEFPROC	33229/210600	15.7%	32524.72	36.0	35.6
TS02:MVSSYS	VLF/VLF	9810/210600	4.6%	9809.37	0.0	0.0
TS02:MVSSYS	HSMAUX4/HSM	20162/195016	10.3%	13945.21	0.0	0.0
TS02:MVSSYS	HSMAUX1/HSM	32377/195016	16.6%	22776.58	8.6	5.6
TS02:MVSSYS	HSMAUX3/HSM	18107/195016	9.2%	12468.89	0.0	0.0
TS02:MVSSYS	HSMAUX2/HSM	21447/195016	10.9%	14155.91	0.0	0.0
TS02:MVSSYS	SAMS/SAMS	11793/210600	5.6%	11328.11	0.0	0.0
:T503:MV55	CANSCN/CNDL	17439/191884	9%	17366.79	12.1	12.1

Situation overhead can be reduced by increasing interval or turning off

Situation	Table	Rows	Columns	Sample Cost	Interval	Rows Processed Every hour	Situation Cost/hour
Crypto_CKDS_Access_Disabled	KM5.ICSF	1	44	0.01	0030	120	1.2
Crypto_CKDS_80PCT_Full	KM5.ICSF	1	44	0.01	0030	120	1.2
Crypto_Internal_Error	KM5.ICSF	1	44	0.01	0030	120	1.2
Crypto_Invalid_Master_Key	KM5.ICSF	1	44	0.01	0030	120	1.2
Crypto_Invalid_PKA_Master_Keys	KM5.ICSF	1	44	0.09	0030	120	10.8
Crypto_No_Coprocessors	KM5.ICSF	1	44	0.01	0030	120	1.2

Total cost of running the situations at the agent = 27 in seconds/hour, for rows processed = 42500 rows per hour This works out to be approximately 0.75 % Utilization

ITM Super Tool –

- This TEPS tool will obtain applications seeded in TEPS and applications seeded at HUB and compare them. It will high light the discrepancies.
 - a. Applications at HUB but not in TEPS are highlighted in red
 - b. Applications at TEPS but not at HUB are highlighted in yellow.

TEPS Applications Versions							
HUB Date							
10/07/05 15:54:26							
10/07/05 15:54:26							
10/07/05 15:54:26							
10/07/05 15:54:26							
10/07/05 15:54:26							
10/07/05 15:54:26							
05/21/06 21:09:49							
12/01/07 10:42:53							
03/28/08 20:25:50							
10/07/05 15:54:26							
10/07/05 15:54:26							
10/07/05 15:54:26							
10/07/05 15:54:26							
10/07/05 15:54:26							
10/07/05 15:54:26							
10/07/05 15:54:26							

Summary

TEP top 10 TIPs	Benefits
Cross LPAR Views	View all LPARs in one view
Creating a New Navigator View	Organize workspaces by user
Cross Application Workspaces	Combine OMEGAMONs for a given Application workspace
Eliminate Multiple pages	Allow columns to sort all rows at once
Reduce Query data	Query filter improves performance
Customizing Tables and Charts	View Thresholds to highlight problems
Situations	Turn off unnecessary situations
Тороlоду	View fix levels and connectivity
Built-in Tutorials	TEP Online Education
Tuning and ITMSUPER	Tune OMEGAMON Infrastructure

Additional Hints and Tips



TEP Installation Tips

Connect TEPS to z/OS Hub	If Integrated Cryptographic Service Facility (ICSF) is not installed or configured, Then				
	From Manage Tivoli Enterprise Monitoring Services				
	 right-click TEPS and select Advanced > Edit ENV File Insert USE_EGG1_FLAG=1 Add application support to the HUB TEMS: 				
and the second second					
Section 1981					
	From Manage Tivoli Enterprise Monitoring Services window, right-click TEPS.				
	Select the Actions and select Advanced > Add application support to the TEMS				
TEPS on ITM 6.2.1 and DB2 v9.5	Application support files See Readme for special installation instructions				
Running ITM on Linux on z	ITM 6.2.1 or later recommended because it supports 64 bit on Linux on z				
How to downloading ITM code from ShopzSeries	Video on how to download software on ShopzSeries <u>https://www14.software.ibm.com/ShopzSeries/movies/hgdownload.swf</u> To order the latest ITM 6.2.2 code for download you should order: 5698-A79 IBM Tivoli Management Services on z/OS V6.2.1 (5698-S53)				

OMEGAMON and ITM 6.x product codes

For a complete list of Codes visit: http://www.ibm.com/support/docview.wss?uid=swg21265222

ITM OMEGAMON Infrastructure	cj Tivoli Enterprise Portal Desktop Client cw Tivoli Enterprise Portal Browser Client cq Tivoli Enterprise Portal Server EM Tivoli Enterprise Monitoring Server sy Summarization and Pruning Agent nt Monitoring Agent for Windows OS
DB2	d5 OMEGAMON XE for PE and PM on z/OS
CICS	c5 OMEGAMON XE for CICS on z/OS cp OMEGAMON XE for CICSPlex gw OMEGAMON XE for CICS TG on z/OS
IMS	ip OMEGAMON XE for IMS on z/OS i2 OMEGAMON II for IMS
z/OS	m5 OMEGAMON XE on z/OS m2 OMEGAMON II for MVS hI OMEGAMON z/OS Management Console
SOA & WAS	yn ITCAM for WebSphere d4 ITCAM for SOA
MQ	mq WebSphere MQ Monitoring Agent mc WebSphere MQ Configuration Agent
MFN	n3 OMEGAMON XE for Mainframe Networks on OMEGAMON II for Mainframe Network
zNetView zSA	na IBM Tivoli NetView for z/OS Enterprise Management Agent ah System Automation for z/OS
Storage	s3 OMEGAMON XE for Storage on z/OS df OMEGAMON II for SMS rk IBM Tivoli Automated Tape Allocation Manager rv IBM Tivoli Advanced Backup and Recovery for z/OS rw IBM Tivoli Tape Optimizer for z/OS
z/VM Linux	vI OMEGAMON XE on z/VM and Linux Iz Monitoring Agent for Linux OS



References:

NOTE: Everyone should bookmark this page! Search on:

Recommended Maintenance Service Levels for OMEGAMON XE products on ITM V6.x

CCR2 OMEGAMON Tuning:

www.ibm.com/software/tivoli/features/ccr2/info.html

- 2004 Issue 2 Part 1: Common data collection overhead reduction tips
- <u>2004</u> Issue 3 Part 2: Reducing on-demand CNPS client overhead
- •2004 Issue 4 Part 3: OMEGAMON XE for CICS V100 and CICSplex V220
- <u>2004</u> Issue 5 Workload Manager— Sysplex Tuning
- 2004 Issue 6 Part 4: OS/390 and Sysplex from
- •2004 Issue 7 The DB2 trace facility and OMEGAMON II for DB2 historical collection considerations
- •2004 Issue 10 How to maintain time-dependent thresholds without the overhead of embedded situations
- <u>2005</u> Issue 6 Sysplex Best Practices Part 1
- <u>2005</u> Issue 7 Sysplex Best Practices Part 2
- <u>2006</u> Issue 2 Part 5: OMEGAMON XE for IMS(plex)
- <u>2008</u> Issue 3 Resource impact and optimization for Tivoli situation event processing

Live ITM 6.1 DEMO with OMEGAMON 4.1 Simulation

Order (SK4T-0622-06) http://www-01.ibm.com/support/docview.wss?uid=pub1sk4t062206

