

# Solving CICSplex Performance problems using the enhanced 3270 user interface in OMEGAMON XE for CICS on z/OS v5.1.0

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## Presentation contents

- Abstract
- Product overview
- Infrastructure
- Planning
  - CICSplex monitoring
  - Configuring CICSplexes
- Usage scenarios
  - FIND
  - Filters
  - Context Switching
  - Webservices in CICS
- Troubleshooting
- OMEGAMON XE for CICS on z/OS v5.1.0 as a part of the IBM CICS solution
- Additional resources; viewlets, blog and OPAL
- Appendices – planning for an installation of the new release

## Abstract

Are you asked to do more with less? Tivoli continues to add capability to help you proactively analyze and manage your CICS subsystems across your Enterprise.

OMEGAMON XE for CICS on z/OS v5.1.0 introduces real-time CICSplex monitoring that can make it easier and faster to track down potential and actual outages. This session will show how the new e3270ui, introduced in OMEGAMON XE for CICS on z/OS v5.1.0, can improve your system availability and simplify CICS monitoring, management and problem solving.

## But first. . .

- The new release GA'd on March 9<sup>th</sup> 2012, and is available for immediate delivery !
- And, as always, please ask questions.
  - Ask them as we go,
  - Ask them at the end,
  - But ask them !

## OMEGAMON XE for CICS on z/OS v5.1.0 - Product Overview



- The new release was built using extensive input from Customer Advisory Councils in Europe and North America, Early Adopter Program meetings etc.
  - We talked to a LOT of customers over the last couple of years.
- **Problem solving** – customers were asked to identify their most common problems, and scenarios which would solve them were developed.

5



## OMEGAMON XE for CICS on z/OS v5.1.0 - Product Overview



- Three main features were implemented
  - An enhanced 3270 user interface (e3270ui)
  - CICSplex monitoring and reporting
  - Self Describing Agents (SDA)
- This presentation is focused on the new e3270ui but we will look at some TEP changes where appropriate.

6



## OMEGAMON XE for CICS on z/OS v5.1.0 - Product Overview



- In addition to the existing CUA, TEP and Menu System interfaces, an enhanced 3270 user interface (e3270ui) is made available in this release.
- V5.1.0 is phase one of an extensive re-architecting. Not all features are available in the new user interface.
- Most of the re-architecting is supported by code that is running in a new address space.
  - The new STC manages data collection and presentation, which we will be looking at over much of the next hour.

7



## OMEGAMON XE for CICS on z/OS v5.1.0 – Product Overview



- CICSplex monitoring has been requested for years by a number of large customers.
- So, what is a CICSplex ?
  - A number of CICS regions which the customer wishes to monitor and manage as a single entity.
  - A CICSplex can contain one or more CICS regions, and they can span LPARs/Sysplexes
  - Typical CICSplex groups might be Test/Production, or Payroll apps/Accounting apps. . . .
- Why monitor (report) at the CICSplex level ?
  - Increasingly complicated applications can span multiple CICS regions, and issues such as this are common; 'Our users log onto CICS and often have no clear idea which CICS region they logged on to. Because they work through a menu system they sometimes don't even know which transactions they are executing. All they know is their user name. We need a way to find out what that user is doing right now. . . .'

8



## OMEGAMON XE for CICS on z/OS v5.1.0 – Product Overview



- Why monitor (report) at the CICSplex level ?
  - Monitoring the response time of an application which might span multiple CICS regions is complicated. CICSplex monitoring offers our customers a means of showing the response time of a transaction (or a service class, or an application) regardless of how many CICS regions contributed to that transaction's response time.
- What does it look like ?
  - The next few slides show a couple of aspects of CICSplex monitoring.

9



## OMEGAMON XE for CICS on z/OS v5.1.0 – Product Overview



The screenshot shows the OMEGAMON XE Enterprise Summary panel. It displays two tables: 'All Active Sysplexes' and 'All Active CICSplexes'.

Sysplex Name	ΔAverage VCPU Percent	Highest LPAR Name	ΔHighest VLPAR CPU%	ΔPercent VRSU Capacity	LPAR Name	LPAR Group
LPAR400J		CANSP12		2.4		N/A

ΔCICSplex VName	ΔNumber of VRegions	ΔTransaction VRate	ΔCPU Utilization	Any SOS Regions	SOS Region
OMEGPLEX	8	0%	0%	No	N/A
PLEXRH12	1	0%	0%	No	N/A

This is the default first panel for a user with the z/OS and CICS products installed. Note that they have 1 Sysplex and 2 CICSplexes defined in their environment.

10



# OMEGAMON XE for CICS on z/OS v5.1.0 – Product Overview



△CICS Region Name	△CPU Utilization	△Transaction Rate	△Maximum Tasks Percent	SOS	△Stg. Violat
00000000	0.00%	0.00/m	0.00%	00000000	0
00000001	0.00%	0.00/m	0.00%	00000000	0
00000002	0.00%	0.00/m	0.00%	00000000	0
00000003	0.00%	0.00/m	0.00%	00000000	0
00000004	0.00%	0.00/m	0.00%	00000000	0
00000005	0.00%	0.00/m	0.00%	00000000	0
00000006	0.00%	0.00/m	0.00%	00000000	0
00000007	0.00%	0.00/m	0.00%	00000000	0

Selecting the CICSplex, OMEGPLEX, expands the CICSplex to show the 8 regions that are categorised into the CICSplex.

11



# OMEGAMON XE for CICS on z/OS v5.1.0 – Product Overview



Select an option and then press ENTER

- DB2 Connections Summary
- Region Overview Summary
- Region Analysis Summary

△CICSplex Name	△Number of Regions	△Transaction Rate	△CPU Utilization	Any SOS Regions	SOS Region
OMEGPLEX PLEXRH12	8	0.00/m	0.00%	No	n/a

Typing a slash (/) next to the CICSplex name, and pressing enter displays the CICSplex options menu. Selecting a CICSplex and pressing enter uses the default character (S) to select, in this case, CICSplex Regions Summary.

12



# OMEGAMON XE for CICS on z/OS v5.1.0 – Product Overview



Command ==> KCPPLSLA CICSplex Service Level Summary

CICSplex Service Level Analysis for OMEGPLEX

Service Class Name	Workload Name	Average Response Time	Transactions Total	Performance Index	Tran Rat
OTRANS	DFTLW0RK	29m 59s	4	1799.88%	
CTRANS	DFTLW0RK	28m 34s	20	1714.26%	

This is the initial CICSplex Service Level Summary report, new in OMEGAMON XE for CICS on z/OS v5.1.0

# OMEGAMON XE for CICS on z/OS v5.1.0 – Product Overview



Command ==> KCPPLSLD CICSplex Service Class Detail

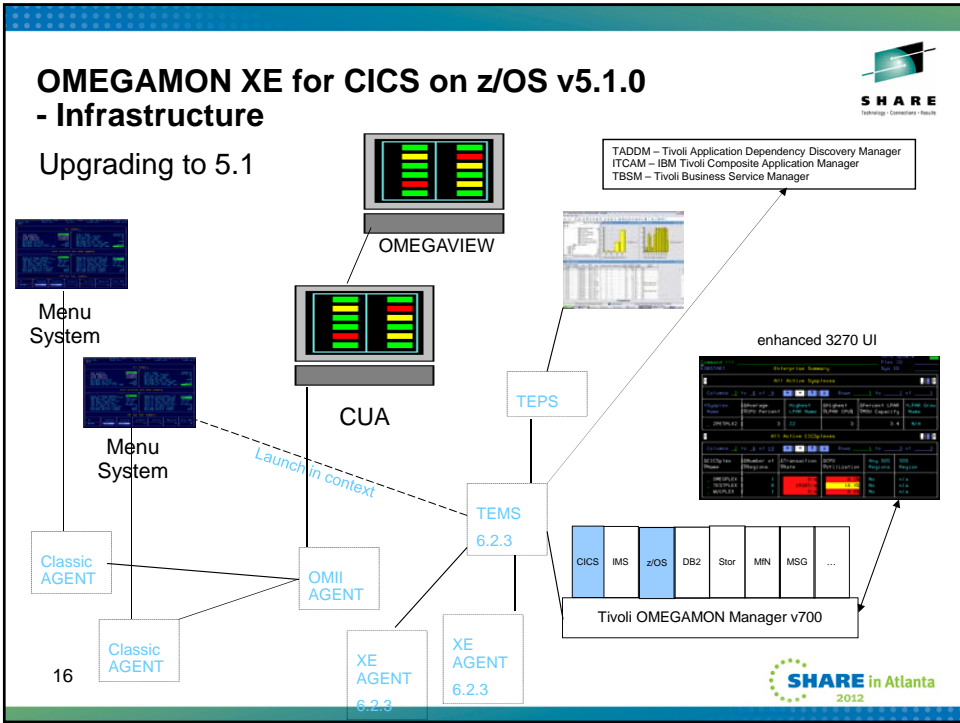
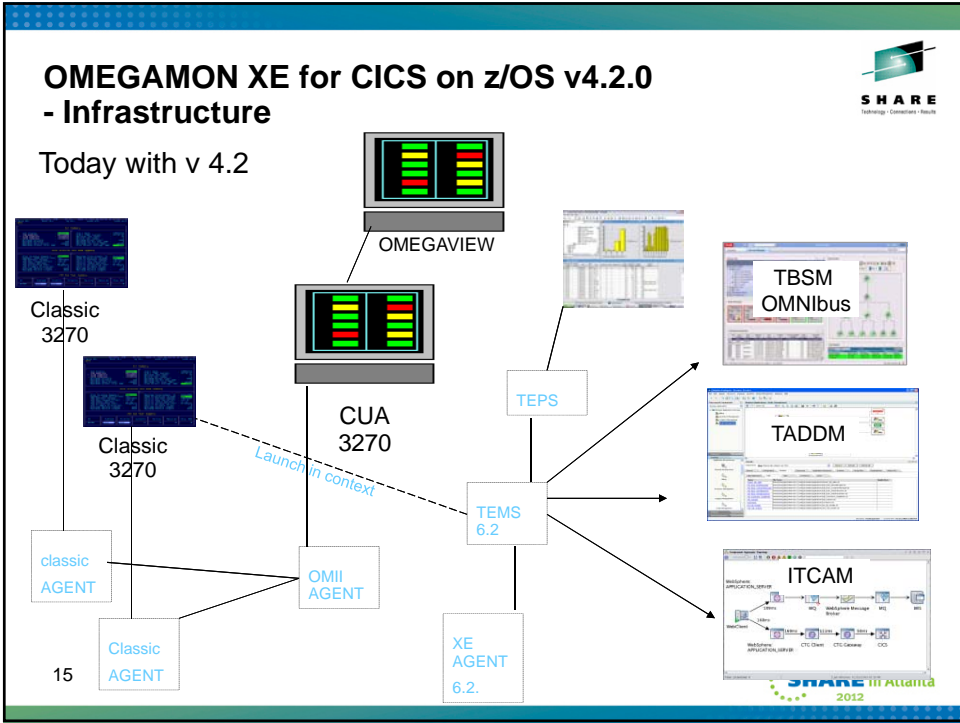
CICSplex Transactions for Service Class CTRANS

Transaction ID	Average Response Time	Transactions Total	Performance Index	Transaction Rate
CGOL	31m 27s	1	1887.43%	0
CKM	29m 59s	2	1799.88%	0
CIM	29m 59s	1	1799.88%	0
CIE	29m 59s	2	1799.88%	0
CIR	29m 59s	2	1799.88%	0
CSHQ	29m 59s	2	1799.88%	0
CEK2	29m 59s	1	1799.88%	0
CDM	29m 59s	1	1799.88%	0

CICSplex Regions for Service Class CTRANS

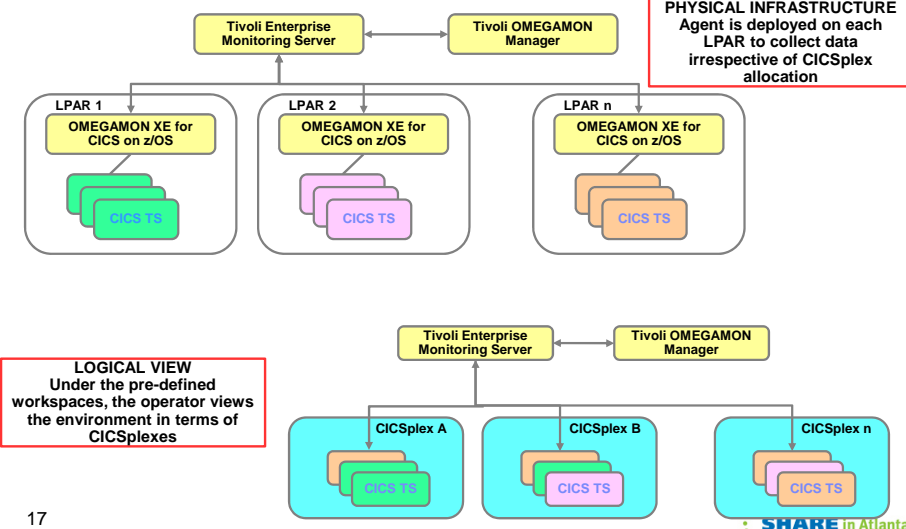
CICS Region Name	Average Response Time	Transactions Total	Performance Index	Transaction Rate
CICSR002	31m 27s	1	1887.43%	0
CICSR001	29m 59s	13	1799.88%	2
CICSR32L	24m 59s	6	1499.90%	1

This is the second CICSplex Service Class Detail report, and is accessed from the previous report.

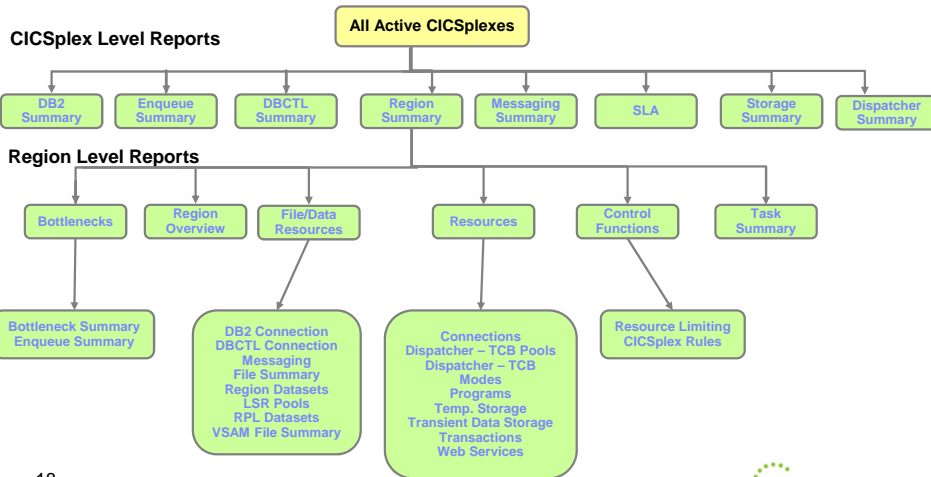




# Understand physical and logical infrastructure views with OMEGAMON CICSplex level monitoring



# Drill down into all CICSplex related reports in the e3270ui



## OMEGAMON XE for CICS on z/OS v5.1.0 – Planning



- As mentioned earlier, one of the primary focus areas of the new release was CICSplex monitoring. So the first question is how do we define a CICSplex to the new product ?

19



## OMEGAMON XE for CICS on z/OS v5.1.0 - Planning



The screenshot shows the OMEGAMON XE for CICS on z/OS v5.1.0 Enterprise Summary screen. The title bar indicates 'Session A (43 x 100)'. The main window displays 'Enterprise Summary' and 'All Active CICSplexes'. A table lists the following data:

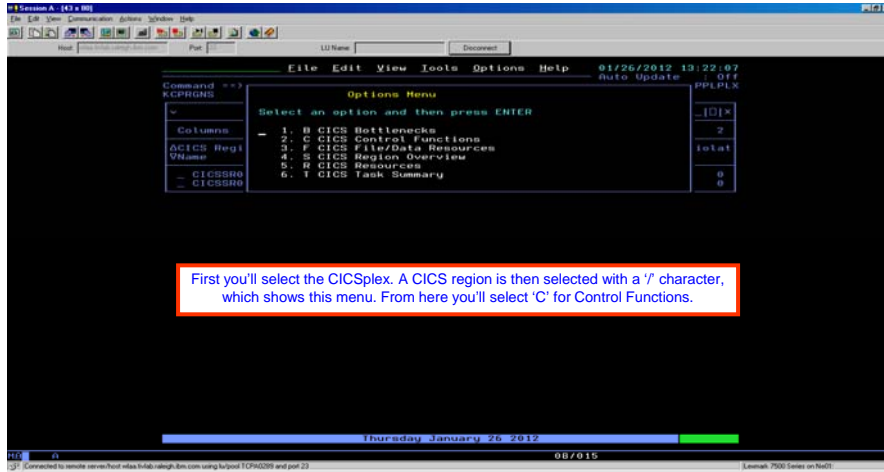
ΔCICSplex VName	ΔNumber of VRegions	ΔTransaction VRate	ΔCPU Utilization	Any SOS Regions	SOS Region
GAPPLPX	2	0/0	0.01	No	n/a
SYSGPLX	2	0/0	0.02	No	n/a

Below the table, a text box contains the following text:

The next few slides show how to configure the CICSplex definitions to ensure that the regions appear where you expect them to appear.

The bottom of the screen shows the date 'Thursday January 26 2012' and the time '01:00Z'. The status bar at the very bottom indicates 'Connected to remote server: host:ibm.ibm.com using lu62 TCPA0209 and port 23' and 'Lanark, 7500 Seats on Net1'.

# OMEGAMON XE for CICS on z/OS v5.1.0 – Planning

Options Menu

Select an option and then press ENTER

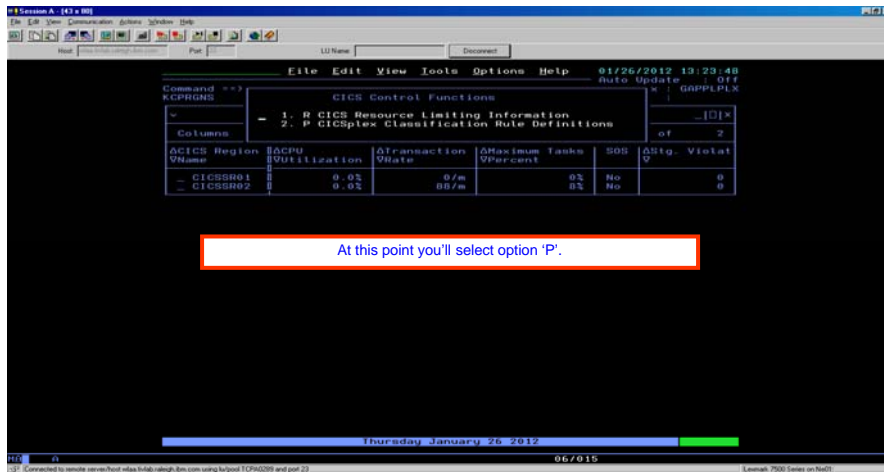
1	B	CICS Bottlenecks	2
2	C	CICS Control Functions	total
3	F	CICS FilterData Resources	0
4	S	CICS Region Overview	0
5	R	CICS Resources	0
6	T	CICS Task Summary	0

Thursday January 26 2012 08/015

21



# OMEGAMON XE for CICS on z/OS v5.1.0 – Planning

CICS Control Functions

1. R CICS Resource Limiting Information

2. P CICSplex Classification Rule Definitions

ACICS Region	VCPU Utilization	ΔTransaction VRate	ΔMaximum Tasks VPercent	SOS	ΔSig. Violat
CICSRO1	0.0%	0/m	0%	No	0
CICSRO2	0.0%	0/m	0%	No	0

Thursday January 26 2012 06/015

22



# OMEGAMON XE for CICS on z/OS v5.1.0 - Planning



Terminal A (13 x 80) - CICSplex Classification Rule Definitions

Command ===> KCPPLXC

Rule Definitions for All CICSplexes

CICSplex Name	Job Name	SYSplex Name	SMF Identifier	VIAH Applid	VIAH Generic Applid
KCPPLX	*	*	*	*	*
GMPPPLX	*	*	*	*	*
BPPLPLX	*	*	*	CICSSR*	CICSSR*
SYSPPLX	*	*	*	*	*
PSS1SPX	PS*	LPAR400J	DYS	*	*
BPPLX	CICSSR*	*	*	*	*
BPPLX	CICSSR*	*	*	*	*
OMEGPLEX	*	*	*	*	*

Thursday January 26 2012 01/002

23



# OMEGAMON XE for CICS on z/OS v5.1.0 - Planning



Terminal A (13 x 80) - Options Menu

Command ===> KCPPLXC

Select an option and then press ENTER

- A Add a new CICSplex Classification Rule
- D Delete this CICSplex Classification Rule

CICSplex Name	Job Name	SYSplex Name	SMF Identifier	VIAH Applid	VIAH Generic Applid
KCPPLX	*	*	*	*	*
GMPPPLX	*	*	*	*	*
BPPLPLX	*	*	*	CICSSR*	CICSSR*
SYSPPLX	*	*	*	*	*
PSS1SPX	PS*	LPAR400J	DYS	*	*
BPPLX	CICSSR*	*	*	*	*
BPPLX	CICSSR*	*	*	*	*
OMEGPLEX	*	*	*	*	*

Thursday January 26 2012 08/015

24



## OMEGAMON XE for CICS on z/OS v5.1.0 - Planning



25



## OMEGAMON XE for CICS on z/OS v5.1.0 - CICSplex



- The rules allows you to classify regions into CICSplex groups.
  - A default of OMEGPLEX is provided, and cannot be deleted
  - If you have classified your regions using CPSM we will honor the CPSM classification if you do not provide a rule that would result in the classification of the CICS region into one of our CICSplexes.
  - If you want to honor the CPSM definitions you need add no new rules.

26



## OMEGAMON XE for CICS on z/OS v5.1.0 - CICSplex



- The classification of a region into a CICSplex results in the creation of a managed system list by the ITM framework.
- The MSLs, with a name of *KCP\_CICSplex\_plexname* allows queries to be distributed to the correct target(s).

27



## OMEGAMON XE for CICS on z/OS v5.1.0 - CICSplex

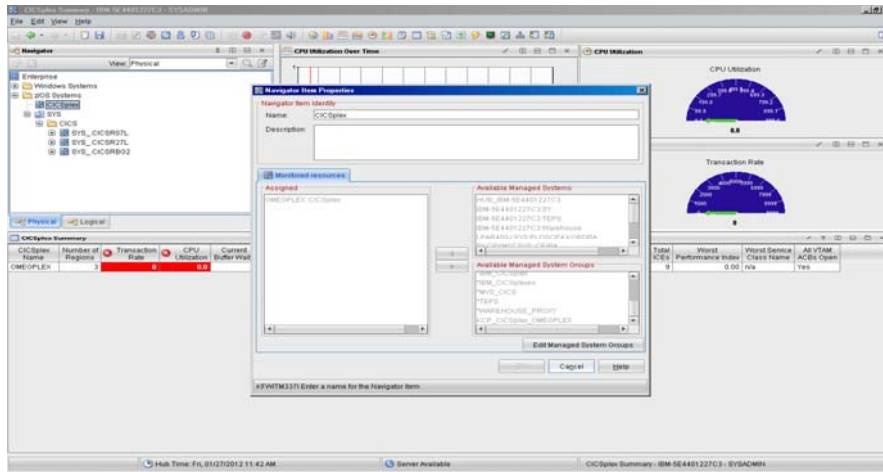


- There is a new agent KCEAGENT which is started in every CICS agent address space.
- The agent waits until there is a CICS region to register to ITM.
- When CICS comes online a task will check if the CICSplex it belongs in is also online. If not the KCEAGENT registers the new CICSplex with the ITM framework.
- The KCEAGENT may register multiple CICSplexes.
- If the CICSplex is online the task will send a request to the KCEAGENT that it needs to include this CICS agent in its processing.

28



## OMEGAMON XE for CICS on z/OS v5.1.0 - TEP example of a CICSplex MSL



29



## OMEGAMON XE for CICS on z/OS v5.1.0 - CICSplex



- There are a couple of new commands, which are issued against the agent, which allow you to display registered CICSplex(es), and the regions associated with a selected CICSplex.
  - /F agentSTC,OC STATUS,CICSPLEX
  - /F agentSTC,OC DISPLAY,PLEX=*plexname*
- These commands allow you see what was defined, and what the results of those definitions are.

30



## OMEGAMON XE for CICS on z/OS v5.1.0 - CICSplex



```

Display Filter View Print Options Help
SDSF OUTPUT DISPLAY PLDSCP4 STC15603 DSID 101 LINE 6,074 COLUMNS 22- 101
COMMAND INPUT ==> _
(ENCL)
RLV0P191 REPLY FROM *MASTER*:
RLV0P191 *OC STATUS,CICSPLEX*
KCP9330 *ATC PROCESSING THE FOLLOWING COMMAND:
STATUS,CICSPLEX
KCP9331 *DISPLAYING INFORMATION FOR CICSplex SYSOPLX *
KCP9331 *ORIGIN NODE : SYSOPLX,CICSPlex *
KCP9331 *NUMBER OF CICS REGIONS : 4 *
KCP9332 *REGISTERED BY THIS AGENT : YES *
KCP9332 *DISPLAYING INFORMATION FOR CICSplex TESTPLEX:
KCP9331 *ORIGIN NODE : TESTPLEX,CICSPlex *
KCP9331 *NUMBER OF CICS REGIONS : 6 *
KCP9332 *REGISTERED BY THIS AGENT : NO *
RLV0P191 REPLY FROM *MASTER*:
RLV0P191 *ECHO*
(ENCL)
RLV0P191 REPLY FROM *MASTER*:
RLV0P191 *OC DISPLAY,PLEX-SYSOPLX*
KCP9330 *ATC PROCESSING THE FOLLOWING COMMAND:
DISPLAY,PLEX-SYSOPLX
KCP9331 *DISPLAYING INFORMATION FOR CICSplex SYSOPLX *
KCP9331 *ORIGIN NODE : SYSOPLX,CICSPlex *
KCP9331 *NUMBER OF CICS REGIONS : 4 *
KCP9332 *REGISTERED BY THIS AGENT : YES *
KCP9334 *LISTING CICS REGIONS IN CICSplex SYSOPLX *
KCP9334 *JOBNAME CICS07L, PLEX NAME FROM OMEGAMON *
KCP9334 *JOBNAME CICS002, PLEX NAME FROM OMEGAMON *
KCP9334 *JOBNAME CICS001, PLEX NAME FROM OMEGAMON *
RLV0P191 REPLY FROM *MASTER*:
RLV0P191 *ECHO*
(ENCL)
***** BOTTOM OF DATA *****

```

31



## OMEGAMON XE for CICS on z/OS v5.1.0 - CICSplex



- This new command allows you to display the rules specified by the e3270ui user;
  - `/F agentSTC,OC DISPLAY,PLEXRULES`
- The classification rules are added via a take action command, which can be seen in the CANSTOM's log
- All of the take action commands issued from the e3270ui can be protected using your standard security. There is an appendix which describes the security options in the Planning and Configuration guide.

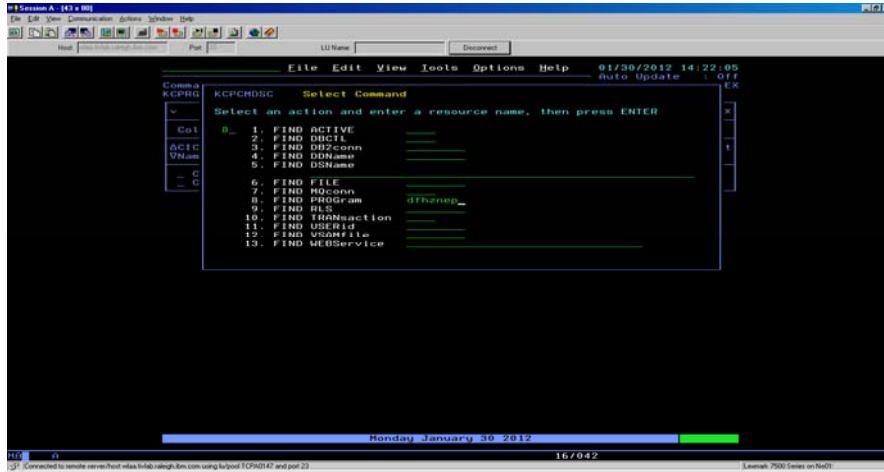
32







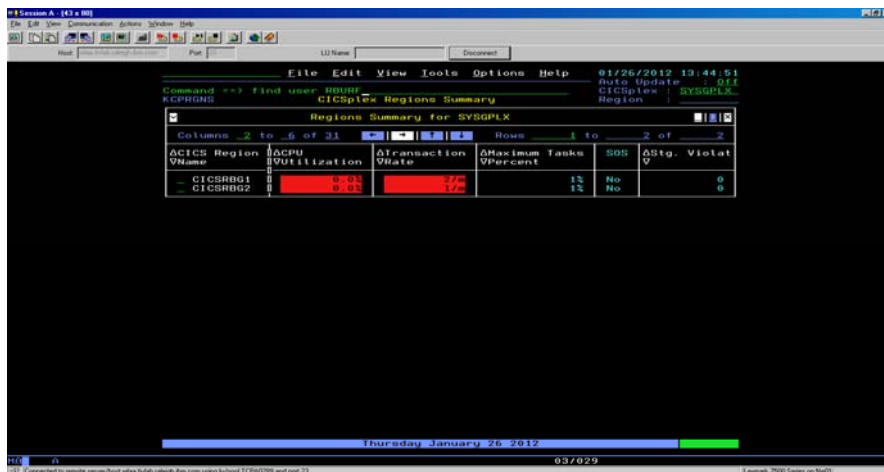
# OMEGAMON XE for CICS on z/OS v5.1.0 - FIND menu



35



# OMEGAMON XE for CICS on z/OS v5.1.0 - FIND USER



36



# OMEGAMON XE for CICS on z/OS v5.1.0 - FIND USER



Command ===> KCPINSPU  
CICSplex Task Summary  
Task Summary for Userid RBURF

ACICS Region	ΔTransaction VName	ΔCPU VTime	ΔElapsed VTime	Wait Type	Resource Type	*Res Nam
CICSRBG1	REMT	0.0000s	1m 34s	Terminal	ZC10WMT	DF

Thursday January 26 2012  
01/002

37



# OMEGAMON XE for CICS on z/OS v5.1.0 - FIND USER



Command ===> KCPINSPU  
Task Details  
Transaction Details for Task 00066

Transaction ID: REMT  
CPU Time: 0.000  
Storage Used Above 16M: 0K  
Suspend Timeout Due: 13:43:59  
Facility ID: M435  
Dispatcher Queue: EXEC053  
Current Program ID: DFHZ001  
Resource Name: DFHZ001  
EXEC CICS Command: n/a  
Purge Status: No purge  
UOW State: Inflight  
Original Trg Transaction ID: REMT

Time in Suspend: 217.649  
Elapsed Time: 3m 43s  
Storage Used Below 16M: 1K  
Time of Suspend: 13:44:05  
Facility Type: Term  
Task State: Suspend  
First Program ID: n/a  
Resource Type: ZC10WMT  
User ID: RBURF  
Purgeable Suspend: No  
Suspend Type: Suspend  
Umbrella Transaction ID: None

EIB Details for Task 00066

EXEC CICS Command: n/a  
EIBRESP Description: NOR001  
EIBRESP2 Value: 0  
EIB Date and Time: 13:44:00  
Program Offset: M435

Function Code: x'0000'  
Resource Name: n/a  
Program Name: n/a

Other Tasks in CICSplex with same Unit of Work

ACICS Region	ΔTransaction VName	ΔElapsed VTime	ACPU VTime	Wait Type	Resource Type	*Res Nam
CICSRBG2	CERT	3m 43s		Socket	IS_RECV	

Storage Usage for Task 00066

Elements Below 16Meg: 1  
Used Below 16Meg: 1K  
Elements Above 16Meg: 1  
Used Above 16Meg: MOREV

Thursday January 26 2012  
05/002

38



# OMEGAMON XE for CICS on z/OS v5.1.0 - FIND USER



**Transaction Details for Task 00078**

Transaction ID	CEM1	Time in Suspend	311.080
CPU time	0.001	Elapsed time	5m 16s
Storage Used Above 16M	23K	Storage Used Below 16M	1K
Attach time	13:43:59	Time of Suspend	13:44:05
Suspend Timeout	None	Facility type	Term
Facility ID	M435	Task State	Suspend
Dispatcher Queue	ExecutB1	First Program ID	DFHEHD
Current Program ID	DFHEHD	Resource Type	IS_RECV
Resource Name	R017R02	User ID	T0USER
EXEC CICS Command	CONVERSE	Purgeable Suspend	No
Purge Status	No_purge	Suspend type	Suspend
Use State	Inflight	Umbrella Transaction ID	None
Originaling Transaction ID	CEM1		

**EIB Details for Task 00078**

EXEC CICS Command	CONVERSE	Function Code	x'0406'
EIBRESP Description	NORMAL	EIBRESP Value	0
EIBRESP2 Value	0	Resource Name	M435
EIB Date and Time	13:44:05	Program Name	DFHEHD
Program Offset	00000876	Terminal ID	M435

**Other Tasks in CICSplex with same Unit of Work**

ACICS Region	ΔTransaction VName	ΔElapsed VTime	ΔCPU VTime	Wait Type	Resource Type	#Res Nam
CICSR01	REMT	1K	5m 16s		Terminal	ZC10M1T DF

**Storage Usage for Task 00078**

Elements Below 16Meg	2	Elements Above 16Meg	3
Used Below 16Meg	1K	Used Above 16Meg	23K

39



# OMEGAMON XE for CICS on z/OS v5.1.0 - FIND PROGRAM



**Regions Summary for ONEGPLEX**

ACICS Region	ΔCPU Utilization	ΔTransaction VRate	ΔMaximum Tasks VPercent	SOS	ΔStg. Violat V
CICSG03N	0.0%	0/m	6%	No	0
CICSR01	0.0%	0/m	1%	No	0
CICSR01	0.0%	0/m	7%	No	0
CICSR02	0.0%	0/m	8%	No	0

40



# OMEGAMON XE for CICS on z/OS v5.1.0 - FIND PROGRAM



Session A (13 x 88)

File Edit View Tools Options Help 03/14/2012 10:48:47  
Auto Update Off  
CICSplex DBC00002  
Region

Command ==> KCPPRPG CICSplex Program Summary

CICS Regions with Program AMG00000 Installed

*CICS Region Name	Program Status	Language	Length	Program Location	*Concurrency
CICSRBQ1	Enabled	Not_Defined	1136	n/a	Quasireentra
CICSRBQ2	Enabled	Assembler	0	n/a	Quasireentra
CICSRBQ1	Enabled	Assembler	0	n/a	Quasireentra

Wednesday March 14 2012

01/002

Connected to remote server host r44b-ibm-ibm.com using lu6pool TCP4250 and port 22. Lsmash 7500 Series on Net01

41



# OMEGAMON XE for CICS on z/OS v5.1.0 - Filters



Session A (13 x 88)

File Edit View Tools Options Help 01/27/2012 20:49:41  
Auto Update Off  
CICSplex DBC00002  
Region

Command ==> KCPPRPG Program Summary

Program Summary for CICSC001

*Program Name	Program Status	Language	Length	Program Location	*Concurrency
AMG00000	Enabled	Not_Defined	0	n/a	Quasireentra
CEAD3L	Enabled	Not_Defined	0	n/a	Quasireentra
CEAD3R	Enabled	Not_Defined	0	n/a	Quasireentra
CEAD3V	Enabled	Not_Defined	0	n/a	Quasireentra
CECCIC5	Enabled	Not_Defined	0	n/a	Quasireentra
CECMI	Enabled	Not_Defined	0	n/a	Quasireentra
CECNIV	Enabled	Not_Defined	0	n/a	Quasireentra
CECMBP	Enabled	Not_Defined	0	n/a	Quasireentra
CECZST	Enabled	Not_Defined	0	n/a	Quasireentra
CEDATE	Enabled	Not_Defined	0	n/a	Quasireentra
CEDATE	Enabled	Not_Defined	0	n/a	Quasireentra
CEEDAYS	Enabled	Not_Defined	0	n/a	Quasireentra
CEEDODS	Enabled	Not_Defined	0	n/a	Quasireentra
CEEDYR	Enabled	Not_Defined	0	n/a	Quasireentra
CEEDSHP	Enabled	Not_Defined	0	n/a	Quasireentra
CEEFBN	Enabled	Not_Defined	0	n/a	Quasireentra
CEEFTH	Enabled	Not_Defined	0	n/a	Quasireentra
CEEFST	Enabled	Not_Defined	0	n/a	Quasireentra
CEEFDS	Enabled	Not_Defined	0	n/a	Quasireentra
CEEFRT	Enabled	Not_Defined	0	n/a	Quasireentra
CEEGIO	Enabled	Not_Defined	0	n/a	Quasireentra

Friday January 27 2012

01/002

Connected to remote server host r44b-ibm-ibm.com using lu6pool TCP4250 and port 22. Lsmash 7500 Series on Net01

Here we see a Program Summary with 2545 rows of data. If you are only interested in all CEE\* programs you can filter the report to reduce the data that is displayed in the resulting report.

42





# OMEGAMON XE for CICS on z/OS v5.1.0 - Filters



Terminal window showing the 'Program Summary for CICSCB01' report. A red box highlights the text 'You press F12, and the filter is applied' over the table data.

Program Name	Status	Language	Length	Program Location	Concurrency
CEEADJL	Enabled	Not_Def_Invd	0	n/a	Quasi-reentrant
CEEAD3B	Enabled	Not_Def_Invd	0	n/a	Quasi-reentrant
CEECLDY	Enabled	Not_Def_Invd	0	n/a	Quasi-reentrant
CEECICB	Enabled	Not_Def_Invd	0	n/a	Quasi-reentrant
CEECNI	Enabled	Not_Def_Invd	0	n/a	Quasi-reentrant
CEECRTV	Enabled	Not_Def_Invd	0	n/a	Quasi-reentrant
CEECRHP	Enabled	Not_Def_Invd	0	n/a	Quasi-reentrant
CEECRST	Enabled	Not_Def_Invd	0	n/a	Quasi-reentrant
CEEDITE	Enabled	Not_Def_Invd	0	n/a	Quasi-reentrant
CEEDATH	Enabled	Not_Def_Invd	0	n/a	Quasi-reentrant
CEEDAYS	Enabled	Not_Def_Invd	0	n/a	Quasi-reentrant
CEEDCOD	Enabled	Not_Def_Invd	0	n/a	Quasi-reentrant
CEEDVH	Enabled	Not_Def_Invd	0	n/a	Quasi-reentrant
CEEDSHP	Enabled	Not_Def_Invd	0	n/a	Quasi-reentrant
CEEDPWR	Enabled	Not_Def_Invd	0	n/a	Quasi-reentrant
CEEDNV	Enabled	Not_Def_Invd	0	n/a	Quasi-reentrant
CEEV003	Enabled	Not_Def_Invd	17232	ERDS6	Quasi-reentrant
CEEV005	Enabled	Not_Def_Invd	243456	ERDS6	Quasi-reentrant
CEEV010	Enabled	Not_Def_Invd	1726984	ERDS6	Quasi-reentrant
CEEV011	Enabled	Not_Def_Invd	0	n/a	Quasi-reentrant
CEEFND0	Enabled	Not_Def_Invd	0	n/a	Quasi-reentrant
CEEFND1	Enabled	Not_Def_Invd	0	n/a	Quasi-reentrant
CEEFND2	Enabled	Not_Def_Invd	0	n/a	Quasi-reentrant
CEEFND3	Enabled	Not_Def_Invd	0	n/a	Quasi-reentrant
CEEFND4	Enabled	Not_Def_Invd	0	n/a	Quasi-reentrant
CEEFND5	Enabled	Not_Def_Invd	0	n/a	Quasi-reentrant
CEEFND6	Enabled	Not_Def_Invd	0	n/a	Quasi-reentrant
CEEFND7	Enabled	Not_Def_Invd	0	n/a	Quasi-reentrant
CEEFND8	Enabled	Not_Def_Invd	0	n/a	Quasi-reentrant
CEEFND9	Enabled	Not_Def_Invd	0	n/a	Quasi-reentrant
CEEFND0	Enabled	Not_Def_Invd	0	n/a	Quasi-reentrant
CEEFND1	Enabled	Not_Def_Invd	0	n/a	Quasi-reentrant

45



# OMEGAMON XE for CICS on z/OS v5.1.0 - Filters



- Don't forget to delete the filters when you have finished with the report – otherwise the next time you use that report you may find that the same filters are in place, and the results may not be what you expected !

46





# OMEGAMON XE for CICS on z/OS v5.1.0 – Switch region context



**CICS Region Overview**

System ID	SYS	CICS Region Name	CICS027L
Most Region Service Class	CINANS	Region's Most Perf. Index	0.003
CPU Utilization	37%	CICS TOB Updated	Yes
Transaction Rate	0.7/s	Maximum Inake Percent	1%
Queue Waits	0	Quoted Remote Requests	0
SOS	No	Seg. Violations Last hour	0
AFDs	0	Current VSM Buffer Waits	0
Current VSM String Waits	0	Any Current MS Faults	No
Any Current MS Faults	No	Any Current MS Timeouts	No
CICS TOB Clock	19:55:37	CICS Version	6.6.0

**z/OS Information**

Largest Contiguous LSOA	2362K	Largest Contiguous OSCOR	23300K
Page Rate	0.0/s	I/O Rate	0.0/s
Working Set Size	60550K	Region Status	N/S

**Bottleneck Summary**

Resource Type	Summary Short Term Percentage	Summary Long Term Percentage	Summary Short Term Percentage	Summary Long Term Percentage
USERWAIT	10%	10%	10%	10%
SMSYSTEM	10%	10%	10%	10%
RRMSXIT	10%	10%	10%	10%
RRMSXIT	10%	10%	10%	10%
DBTSKDEF	10%	10%	10%	10%
RUNNING	0%	0%	0%	0%
(none)	1%	1%	1%	1%

**Highest CPU Tasks**

Transaction ID	%CPU	Elapsed Time	Task State	Wait Type	Resource Name
CEMT	0.00100%	14m 29s	Suspend	Socket	ID_RECV RB01
CKAM	0.00000%	1h 36m	Suspend	TaskCntl	SRVU
OSRV	0.00000%	1h 35m	Suspend	TaskCntl	USERWAIT SR24
OSFC	0.00000%	1h 35m	Suspend	TaskCntl	USERWAIT SR24

47



# OMEGAMON XE for CICS on z/OS v5.1.0 - Switch region context



**CICS Region Overview**

System ID	SYS	CICS Region Name	CICS0802
Most Region Service Class	n/a	Region's Most Perf. Index	0.00%
CPU Utilization	0%	CICS TOB Updated	Yes
Transaction Rate	0.7/s	Maximum Inake Percent	1%
Queue Waits	0	Quoted Remote Requests	0
SOS	No	Seg. Violations Last hour	0
AFDs	0	Current VSM Buffer Waits	0
Current VSM String Waits	0	Any Current MS Faults	No
Any Current MS Faults	No	Any Current MS Timeouts	No
CICS TOB Clock	19:58:23	CICS Version	6.6.0

**z/OS Information**

Largest Contiguous LSOA	2348K	Largest Contiguous OSCOR	23100K
Page Rate	0.0/s	I/O Rate	0.0/s
Working Set Size	62020K	Region Status	N/S

**Highest CPU Tasks**

Transaction ID	%CPU	Elapsed Time	Task State	Wait Type	Resource Name
CEMT	0.00100%	14m 29s	Suspend	Socket	ID_RECV RB01
CKAM	0.00000%	1h 36m	Suspend	TaskCntl	SRVU
OSRV	0.00000%	1h 35m	Suspend	TaskCntl	USERWAIT SR24
OSFC	0.00000%	1h 35m	Suspend	TaskCntl	USERWAIT SR24

**Storage Areas**

Area	SOS	Percent Used	Storage Limit	Storage In Use	Storage Available



# OMEGAMON XE for CICS on z/OS v5.1.0 - Switch region context



Command \*\*\* CICS Region Overview

Selection Error

System ID: CICS CICSXX63 not found in CICSplex SYSDPLX

Transaction Rate: 0.7m

CPU Util: 43%

SOS: 0

Current VSM String Waits: 0

Any Current WS Faults: No

CICS TOD Clock: 13:59:27

z/OS Information

Largest Contiguous LSOA: 2348K

Page Rate: 0.07m

Working Set Size: 6205K

Highest CPU Tasks

Transaction ID	ACPU	Elapsed Time	Task State	Wait Type	Resource Type	Resou Name
CEHT	0.00100m	15m 27s	Suspend	Socket	IS_RECV	RR01
CKRM	0.00000m	1h 37m	Suspend	TaskCntl	USERWAIT	SRVW
OSRV	0.00000m	1h 34m	Suspend	TaskCntl	USERWAIT	SR2U
OSEC	0.00000m	1h 34m	Suspend	TaskCntl	USERWAIT	SR2U

Storage Areas

Area	SOS	Percent Used	Storage Limit	Storage In Use	Storage Available
OSOS	0				

49



# OMEGAMON XE for CICS on z/OS v5.1.0 - Web Services



Command \*\*\* CICS Region Overview

CICSMM01 Overview

System ID: SYS

Worst Region Service Class: n/a

Transaction Rate: 0.7m

Consume Waits

SOS: 0

Any Current WS Faults: No

CICS TOD Clock: 17:36:47

z/OS Information

Largest Contiguous LSOA: 2356K

Page Rate: 0.07m

Working Set Size: 10722K

Bottleneck Summary

Resource	Summary Short Term Percentage	Summary Long Term Percentage	Summary Short Term Percentage	Summary Long Term Percentage
OSRV	0.00100m	6m 07s	Suspend	TaskCntl

Support for Web Services in CICS was added as a result of a customer request. Selecting either of the Web Services numbers on this panel will display the Web Services Summary report.

50



# OMEGAMON XE for CICS on z/OS v5.1.0 – Web Services



The screenshot shows the 'CICS Web Services Summary' window. It contains a table with the following data:

Web Service VName	Average Response Time	Current Request Rate	Current Fault P
dispatchOrder	0.00000s	0	0%
inquireCatalogClient	0.00000s	0	0%
inquireSingleClient	0.00000s	0	0%
placeOrderClient	0.00000s	0	0%

Selecting an individual Web Service will display the Web Services Detail report.

51



# OMEGAMON XE for CICS on z/OS v5.1.0 – Web Services



The screenshot shows the 'CICS Web Service Details' window for 'inquireCatalogClient'. The details are as follows:

- Status: Inservice
- Average Response Time: 0.00000s
- Current Request Rate: 0
- Current Fault Percent: 0%
- Current Timeout Percent: 0%
- Total Number of Faults: 0
- Total Number of Timeouts: 0
- XSP Supported: No
- Direct XSP Supported: No
- Last Modify Date: 09/10/20
- Type: Requester
- User Count: 0
- Pipeline Name: EXPIPE02
- DIRM Name:
- Container Name:
- Validation Indicator: No
- CSSID: System\_C
- Mapping Level: 1-0
- Required Runtime Level: 1-0
- Last Modify Time: 12:14:34

WSDL Binding Name: DFHXCHNHTPSOapBinding

Binding File: /cicsts/dfh310/samples/webservices/usbnd/requester/inquireCatalogClient.ws

WSDL File:

Endpoint URI: http://my-server:my-port/exampleppp/inquireCatalog

52



# OMEGAMON XE for CICS on z/OS v5.1.0 – Web Services



ACICS Region	Average VResponse Time	ΔCurrent VRequest Rate	Current Fault Percent	*Current Timeout Percent
CICS001	0.00000s	0	0%	0

53



# OMEGAMON XE for CICS on z/OS v5.1.0 – Troubleshooting



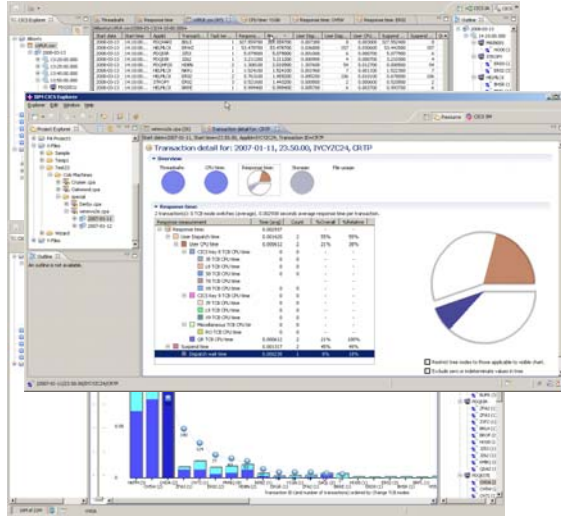
Message KCPOC1038I indicates which release of OMEGAMON CICS is being initialized in the CICS address space.

54





## CICS Performance Analyzer for z/OS



"up to 90% time savings (average 50%) when system programmers were tasked with the identification and validation of performance related changes" \*

"better able to improve performance" and "better able to diagnose the root cause" of performance issues" \*

CICS Explorer plug-in "saves "time jumping from one tool to another in a single view" \*

57

\*Source: Branham report : IBM CICS Tools: Unrealized Productivity Gains and True Cost Savings [http://public.dhe.ibm.com/software/htp/cics/tools/IBM\\_CICS\\_Tools\\_Whitepaper\\_2009.pdf](http://public.dhe.ibm.com/software/htp/cics/tools/IBM_CICS_Tools_Whitepaper_2009.pdf)



## CICS PA integration with Tivoli OMEGAMON XE for CICS



V3R2M0 CICS Performance Analyzer Performance Summary

SUMM0001 Printed at 9:25:19 10/05/2006 Data from 16:41:03 9/18/2006 to 19:26:14 9/18/2006 Page 1

OMEGAMON Third Party Support - Summary

Tran	#Tasks	Avg I DMSREQ Time	Avg DMSREQ Count	Avg ADABREQ	Avg ADABREQ Count	Avg SUPPREQ	Avg SUPPREQ Count	Avg DCOMREQ	Avg DCOMREQ Count	Avg USREVT	Avg USREVT Count
ADA3	6736	.0000	0	.0002	8	.0000	0	.0000	0	.0000	0
ADA4	16840	.0000	0	.0003	16	.0000	0	.0000	0	.0000	0
ADA5	3369	.0000	0	8.3947	7	.0000	0	.0000	0	.0000	0
ADA6	1	.0000	0	8.5790	8	.0000	0	.0000	0	.0000	0
DC01	6736	.0000	0	.0000	0	.0000	0	.0026	15	.0000	0
IDM1	6736	.0026	10	.0000	0	.0000	0	.0000	0	.0000	0
OMEG	4	.0000	0	.0000	0	.0000	0	.0000	0	.0000	0
SUP1	10104	.0000	0	.0000	0	.0029	11	.0000	0	.0000	0
Total	50526	.0004	1	.5601	6	.0006	2	.0003	1	.0000	0

A single view for Comprehensive Performance Reporting and Analysis for CICS

- CICS Monitoring Facility (CMF) data (SMF 110)
- CICS Statistics data (SMF 110)
- CICS Server Statistics data (SMF 110)
- CICS Transaction Gateway Statistics data (SMF 111)
- DB2 Accounting records (SMF 101)
- WebSphere MQ Accounting records (SMF 116)
- OMEGAMON XE for CICS records (SMF 112) – see graphic
- z/OS System Logger (SMF 88)

58



## Fine tune your overall application performance with APA



### Problem

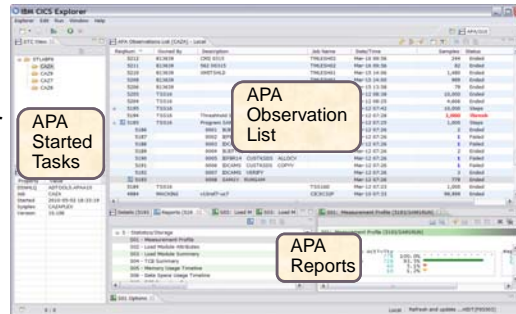
- The complexities of CICS applications often mean that performance problems come to light, not only with CICS, but DB2, IMS, MQ, and across languages or DASD

### Solution

- APA helps programmers identify constraints and improve the entire applications performance, no matter where the problem resides. Baselines can be taken to compare with future analysis runs after changes are made

### Value

- APA rapidly provides the information which is required to assist with application performance problem resolution



“APA V11.1 is another major, enhancement-rich advance for IBM’s powerful z/OS® APM (Application Performance Management) solution”\*

\*Source: Software Strategies white paper: In New zEnterprise™ System Era, IBM z/OS® Problem Determination Tool Suite Leads Again – as ISVs Up Games

59 [http://public.dhe.ibm.com/software/htp/pdtools/PD\\_Tools\\_Competitive\\_Analysis\\_White\\_Paper.pdf](http://public.dhe.ibm.com/software/htp/pdtools/PD_Tools_Competitive_Analysis_White_Paper.pdf)



## OMEGAMON XE for CICS on z/OS v5.1.0 – Additional resources



- Additional information can be found at these sites.
  - OMEGAMON XE for CICS on z/OS v5.1.0 ‘how to’ viewlets
  - <http://www.youtube.com/ismconnect>
  - <http://www.youtube.com/playlist?list=PL6F3B36B880D5D382&feature=plcpl>
  - Ed Woods’ blog, “Tivoli with a z” has an introduction to the e3270ui
  - <http://tivoliwithaz.blogspot.com/>
  - The Integrated Service Management Library (ISML) has samples for RTA2SLA and Epilog
    - <http://www.ibm.com/software/ismlibrary?NavCode=1TW100M1L>
    - <http://www.ibm.com/software/ismlibrary?NavCode=1TW100M1M>



## To summarise

- Product overview
- Infrastructure
- Planning
  - CICSplex monitoring
  - Configuring CICSplexes
- Usage scenarios
  - FIND
  - Filters
  - Context Switching
  - Webservices in CICS
- Troubleshooting
- OMEGAMON XE for CICS on z/OS v5.1.0 as a part of the IBM CICS solution
- Additional resources; viewlets, blog and OPAL

61

## OMEGAMON XE for CICS on z/OS v5.1.0

- The end – any questions ?

62





## Appendices

- The following slides contain information which is beyond the scope of the presentation, but which may be beneficial to you when planning for the new release.

63



## OMEGAMON XE for CICS on z/OS v5.1.0 - Planning

- Supports CICS/TS v3.1 – CICS/TS v4.2
- Supports CICS TG v7.0 – v8.1
  - Websphere Application Server v6.1 – v8.0
- Supports z/OS v1.11 – v1.13
- Supports all GA releases of DB2, IMS and Messaging subsystems.
- The product has a new PID, which customers will need if they want to open a service request, it is 5698-T07

64





## OMEGAMON XE for CICS on z/OS v5.1.0 – Planning



- SMP/E package includes all required FMIDs.
  - OMEGAMON XE for CICS on z/OS v5.1.0
  - OMEGAMON XE for CICS TG on z/OS v5.1.0
  - End-to-End v5.6.0
  - OMNImon Base v7.0.0
- IBM Tivoli Management Services on z/OS V6.2.3 (5698-A79) FMID is a separately orderable prerequisite of our product package.
  - zOS SMPE installation requirements: 5698-A79 IBM Tivoli Management Services on z/OS V06.02.03 or higher is required. However, IBM Tivoli Monitoring Version 6.2.3 Fix Pack 1 (6.2.2-TIV-ITM-FP0001) or higher is recommended.

65



## OMEGAMON XE for CICS on z/OS v5.1.0 - Planning



- **Refer to the Recommended Maintenance Technote 1290883**
  - <http://www-01.ibm.com/support/docview.wss?uid=swg21290883>
  - and the product PSP for any additional PTFs that may be required during product installation.
- **Distributed Application Support image deliverables:**
  - LCD7-5139 IBM Tivoli OMEGAMON Application Support Files for z/OS V5.1.0 DVD
  - LCD7-5138-00 IBM Tivoli OMEGAMON XE z/OS V5.1.0 Language Pack CD-ROM
- **DVD Prereq and Distributed TEMS:**
  - IBM Tivoli Monitoring (ITM) Version 6.2.3, then ITM V6.2.3 fix pack 1 (6.2.3-TIV-ITM-FP0001) or higher is required.

66



## OMEGAMON XE for CICS on z/OS v5.1.0 - Planning



- The revised OMEGAMON QuickInstall Guide should be the first document that the customers read !
- The OMEGAMON v510 consolidated image and the ITM623 Fix pack 1 will not be available on physical media until April 6, 2012:
  - ITM623 fixpack 1 should be obtained from Fix Central until April 6, when it is available in Fulfillment.
  - The V510 Consolidated image: LCD7-5139, should be obtained from the application support files IBM support site server. Refer to technote #1255545, "Locating ITM Workspace Application Support Files for z/OS Agents". It will be available for download on March 9, 2012 (GA).
  - Note: If SDA is enabled for adding application support, you do not have to download or install the v510 Consolidated image, unless you want to install OMEGAMON DE, the TEP Desktop or the sample BIRT/TCR reports.
- The products included on the OMEGAMON V510 Consolidate image no longer contains any metafiles or platform specific files such as RKCPDEFW.

67



## OMEGAMON XE for CICS on z/OS v5.1.0 - Planning



- Hub installation considerations:
  - Hub TEMS on z/OS - If OMEGAMON CICS and your Hub TEMS are not installed in the same CSI (a consolidated CSI is recommended), you must install UA62353 and UA63362 prior to connecting the OMEGAMON XE for CICS v510 agent to the Hub TEMS.
  - Hub TEMS on a distributed platform - Regardless of whether you are using SDA for application support seeding or not, you must install ITM623 FP1 prior to connecting your OMEGAMON XE for CICS v510 agent to the distributed Hub TEMS
- Hub TEMS on a unix or linux platform - you can ignore message: "KCIIN2463W Warning: This installation media does not contain any components which can be run on the current system platform architecture. To install components which can run on this system, please locate the installation media containing files similar to <platform>.jar. If you are installing application support, continue with the installation to see a list of support files."

68



## OMEGAMON XE for CICS on z/OS v5.1.0 - Planning



- SDA install requirements for OMEGAMON XE for CICS
  - To support SDA processing for pristine or new installs, we have moved the allocation of the RKCPDEFW file from the CICS agent configuration into the Hub TEMS agent installation on distributed and zOS.
    - ITM623 FP1 contains the support and delivery of the RKCPDEFW with the distributed Hub TEMS
    - APAR OA37631 PTF UA62353 for FMID HKDS623 Configuration updates
  - APAR OA37475 PTF UA63362 for FMID HKLV623 ITM623 SDA error

69



## OMEGAMON XE for CICS on z/OS v5.1.0 - Planning



- There are no features of the existing v4.x.0 release that have been 'removed' with the exception of the CICS EPILOG reporter.
  - CICS Performance Analyzer is the preferred reporting option for OMEGAMON XE for CICS v5.1.0 data.
  - Existing customers who use EPILOG are advised to take a copy of the v4.x.0 TKANMOD dataset, which contains the relevant load modules, the documentation and the JCL samples in TKANSAM, and ensure their availability. They can continue to use the EPILOG reporter against data produced by the new release.
  - New customers who wish to use EPILOG will be able to download the load modules, documentation and samples from the Integrated Service Library site.

70



## OMEGAMON XE for CICS on z/OS v5.1.0 - Planning



- During the installation of earlier releases of OMEGAMON XE for CICS on z/OS there was a requirement to allocate the RKCPDEFW file, which is used to save some Service Level Analysis related control information.
  - In this new release these steps are no longer required as the ITM installer on distributed platforms, and the installer steps on z/OS, will allocate the dataset.
  - This means that the customer can install the ITM framework and add CICS later without having to recycle their v5.1.0 STCs to pick up the dataset.

71



## OMEGAMON XE for CICS on z/OS v5.1.0 - Planning



- Previous releases allowed the customer to set a Service Level Analysis collection interval for the agent.
  - In a multi agent environment this could now cause problems if different intervals were specified at different agents.
- The collection interval is now set in the TEP, to ensure synchronisation of the interval across agents.
  - The setting is also limited to intervals that are supported by the ITM framework. The supported collection intervals are 1 min, 5 mins, 15 mins, 30 mins and 1 hr.
- The SLA subtask is now zIIP enabled.
  - If you have an zIIP engine available you may see significant performance benefits when the SLA code runs there.

72



## OMEGAMON XE for CICS on z/OS v5.1.0 - Upgrade



- **Upgrade Considerations:**

- CICSTG packaging change
  - CICSTG FMID is now part of the CICS product Receive, Apply and Accept jobs. SMPE requires the creation of a USS directory for SMPE target DDDEF TKANJAR. If you do not want to install CICS TG, you can omit this fmid from the SMPE jobs.
  - The TKGWJAR target DDDEF has been replaced with TKANJAR
  - The USS target directory name associated with the DDDEF has also been changed
  - Follow the “Complete the Configuration” instructions for making the required directory name changes
- The CICS and CICSTG agents no longer require registration to the Local TEMS on z/OS
- If you wish to use the new features delivered with this package such as CICSplex reporting, e3270ui and SDA, you will need to reconfigure your RTEs. Otherwise, you can install and reload the RTEs and wait to reconfigure until you are ready to use the new product features.

73



## OMEGAMON XE for CICS on z/OS v5.1.0 - Upgrade



- **Revised STC requirements:**

- Required OMEGAMON XE for CICS on z/OS STCs:
  - CANSDSST - TEMS (either on a distributed or z/OS system)
  - CANSTOM - OMEGAMON Enhanced 3270 User Interface (e3270ui)
  - CANSOCx - OMEGAMON for CICS (3270), aka Menu System.
  - CANSC5 - OMEGAMON XE for CICS agent (or it can be configured to run in a TEMS).
- Optional STCs/components:
  - CANSGW - OMEGAMON XE for CICS TG agent (or it can be configured to run in a TEMS).
  - CANSC2x - OMEGAMON II for CICS (CUA)
  - CANSET - ETE (needed for OMCICS RTA VTAM LU definite response)
  - CANSCN - OMEGAMON Subsystem (needed for INTR, and miscellaneous OMEGAMON 3270 commands).

74



## OMEGAMON XE for CICS on z/OS v5.1.0 - Upgrade



- TEPS is no longer required for Product installation or upgrades if SDA is enabled:
  - A TEPS is not required for initial product installation or upgrade, as long as SDA is being used for application support seeding.
  - The tacmd cli is required for administration of SDA installed components (refer to ITM Administration Guide). To install the tacmd CLI, from your ITM V6.2.3 installation image, select the Tivoli Enterprise Services User Interface Extensions feature (KUE), under the TEMA, TEPS, or TEMS component selection list. It can be installed on any machines that has access to soap services communication to the Hub TEMS. Note: You do not need to run a TEMA, TEPS or TEMS in the machine that you intend to use the tacmd cli.

75



## OMEGAMON XE for CICS on z/OS v5.1.0 - Upgrade



- If you do want to run a TEPS, you can install it after the OMEGAMON XE for CICS V510 product installation has been completed but you will only need to install the ITM v623 installation image. The TEPS is SDA enabled by default. If SDA application support seeding has been successfully completed at the Hub TEMS, when the TEPS, running only the framework connects to the SDA seeded Hub, the OMEGAMON CICS application support files will be automatically installed into the TEPS.
- After the product installation has been completed, If you wish to modify the OMEGAMON WLM definitions, you must use the OMEGAMON CICS Service Level Analysis View available in the TEPS interface: the TEPS interface is not required for IBM WLM definitions and service level analysis reporting.
- If you want to use other ITM features such as TEPS Historical, Policies, situations, etc, then you will want to install a TEPS but it does not have to be installed until after you have completed the OMEGAMON CICS product install or upgrading, using SDA seeding.

76



## OMEGAMON XE for CICS on z/OS v5.1.0 - Upgrade



- Hilev.TKANDATV members KC5CAT/ATR/DOC/MAP/BAR have all been renamed to use the KCP prefix
- RTE load processing (ICAT and Parmgen) will delete the KC5 members from the RTE's DATV file
- If you run the RTE load process and RKANDATV is allocated, the DELETE step will fail. When you start the agent or TEMS, you will get duplicate catalog errors in the RKLVLOG log.
  - We are working toward no restarts for our STC during software installs and upgrades, but this is not yet true for the DELETE processing.

77



## OMEGAMON XE for CICS on z/OS v5.1.0 - SDA



- **Verification of successful SDA processing for CICS and CICSTG agents:**
- When the TEMS is running on z/OS, when SDA processing completes successfully, you will see the following messages written to the TEMS RKLVLOG:
  - KFASD101 Self-Describing Install Completed Successfully for PRODUCT **CP**, VER <05100000>, ID <TMS>, IDVER <05100000>. <-- OMEGAMON XE for CICS
  - KFASD101 Self-Describing Install Completed Successfully for PRODUCT **GW** VER <05100000>, ID <TMS>, IDVER <05100000>. <-- OMEGAMON XE for CICS TG
- You will also see these error messages the first time you use SDA to install a product:
  - "KFASDM\_DeleteTapplpropLocal") Open request for delete local TAPPLPROPS failed. status <79> product <CP> product version <05100000>
  - "KFASDM\_RequestMgr") KFASDM\_DeleteTapplpropLocal returned sqlStatus 79. product <CP> product version <05100000>
- These are normal messages. After the product is successfully installed, SDA will try to delete all prior versions of the install record, if any, of the same product. If there is no prior version install record, the delete will get a return code of 79.

78

