



# OMEGAMON v5: Client-driven redesign of mainframe performance monitoring

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**PCTY2012**   
Pulse Comes to You

**Optimizing the World's Infrastructure**  
[May, 15° Rome]



# Changing How we Develop Software

- Client involvement from the beginning and throughout the development process
  - Over 40 clients throughout North America and Europe
  - Different size IT shops
  - Different customers for each monitor.
- Agile (transparent) development model validates use cases and functions as we go
- Over 100 pieces of feedback driven into the product by monthly reviews and demonstrations.

Request for enhancements  
30 day reviews  
90 day response

z/OS WW customer  
Advisory Council  
Quarterly calls

- Early Adopters Programs
- Monthly Calls and Demos

Development  
Roadmap

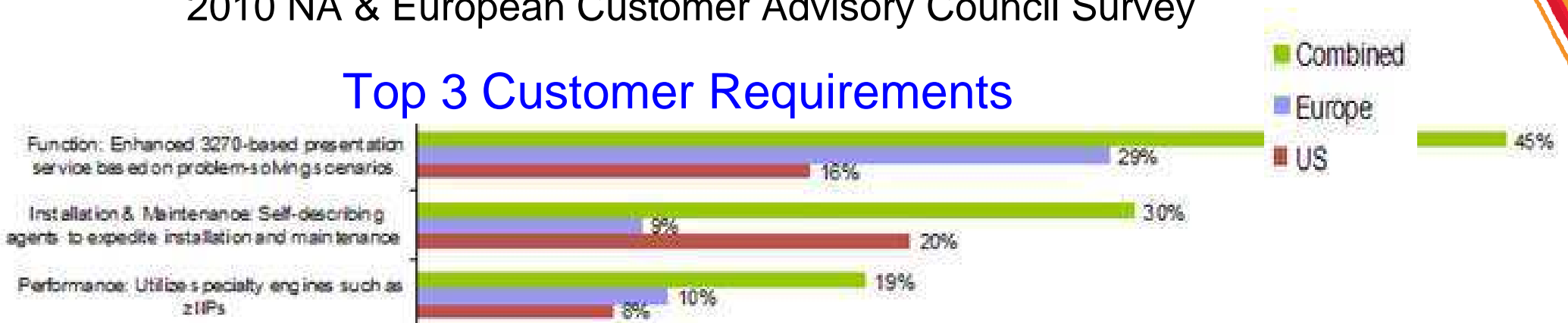
Beta Program

Release

# IBM interviewed over 200 customers to understand future monitoring challenges needing to be addressed

2010 NA & European Customer Advisory Council Survey

## Top 3 Customer Requirements



#1 Requirement - Enhance 3270 UI with Problem Solving scenarios

#2 Requirement - Improve Maintenance

#3 Requirement - Improve Performance utilizing zIIP

In addition to customer ranking, conducted:

- Advisory Councils
- “Outside-in design” prototyping
- Early Adopter and Beta programs

# Increased Business Agility with improved IT visibility now available with redesigned OMEGAMON family

Modernized and strengthened OMEGAMON product line for  
reduced resource usage and faster problem resolution

## Increased Availability and Integration

- ⑩ **Enhanced 3270 User Interface** for Subject Matter Experts
- **Provide Information** not data by using Problem Solving Scenarios

## Improved Productivity

- **Faster Install and Configuration/Maintenance**
- **zEnterprise monitoring** across z196/114 and zBX

## Reduced Resources and Costs

- **Usage of zIIP** specialty servers
- **Simplified OMEGAMON architecture**



# High Priority OMEGAMON customer capabilities focused on helping decrease costs and reduce risks

Redesigned OMEGAMON Enhanced 3270 User Interface addresses customer requirement to make mainframes more efficient and effective

## Customer-Driven Focus Areas for Improvement

- **Simplify** Eliminate complexity and frustration
- **Standardize** Align with existing IBM 3270 Applications
- **Integrate** Move from silo monitoring towards composite views
- **Minimize** Reduce footprint, install, configuration, and CPU
- **Modernize** Make the 3270 Interface ‘Best of breed’ – SME focused Problem Solving Scenarios
- **Customize** Personalize User Interface
- **Support** Reduce customer calls/PMRs through simplification



# Enhanced Configuration and Maintenance capability with Self-Describing Agents

- Eliminate monitoring outages caused by ITM Server recycles
  - Product upgrades/maintenance requires agent or RTEMS recycles only (No HTEMS or TEPS recycles)
- Eliminate maintenance upgrade errors:
  - Applies to new installs, staged upgrades, and maintenance
  - Crosschecks and validates version with installed data and framework
  - Avoids inconsistent application data in ITM framework layers
  - Pushes application data from the agent to upper layers at agent startup
- Self-describing framework extensible to new layers (ex: TIP, E3270)
- Eliminates application data DVDs and CDs:
  - No extra distributed installs or upgrades for mainframe-centric customers



- Moving from 40 hours a week to 4 hours a week maintenance
- 80% improvement in time for installation and maintenance
- 30% improvement in time to configure post installation

# **OMEGAMON for z/OS provides SMEs with faster problem determination and availability management**

***Modernize and strengthen OMEGAMON product line with reduced resource usage and increased information available for higher quality service management***

- Enhanced 3270 User Interface for SMEs (Ability to view Enterprise Summary of multiple sysplexes, Navigate directly to other OMEGAMON v5.1 monitors, New CEC and CPU top consumers views, Incorporated Health Checks from Tivoli z Management Console).
- Usage of zIIP specialty servers
- Easy navigation from SysPlex to LPAR to address space
- Faster Configuration/Maintenance
- zEnterprise monitoring across z196/114 and zBX

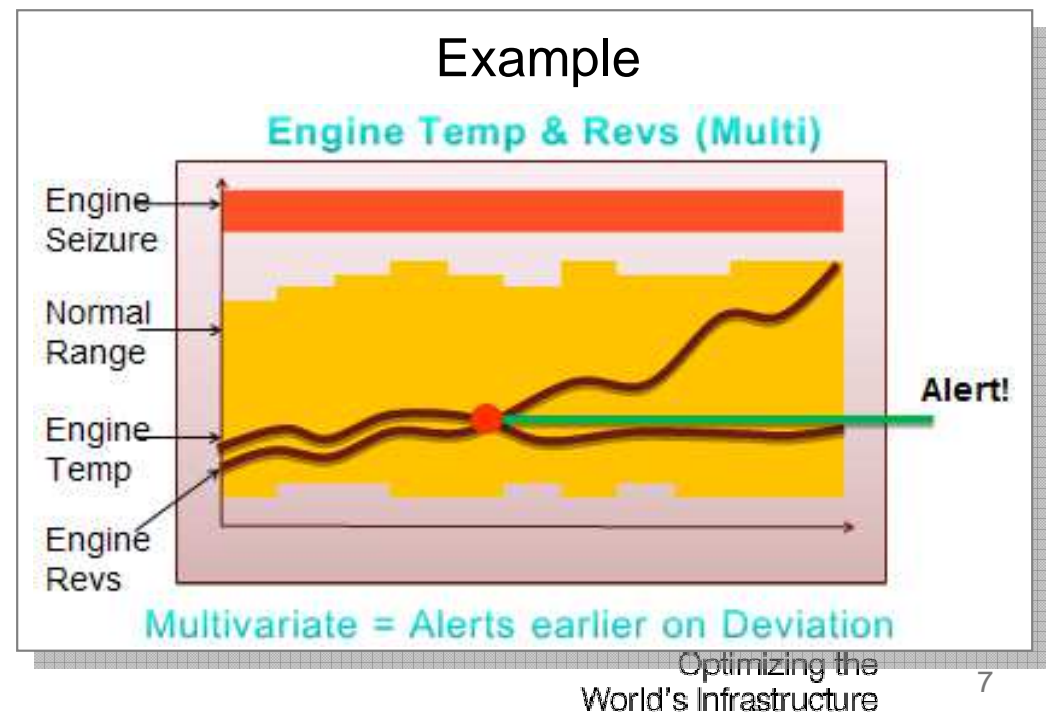


Command and Control from Enhanced 3270 User Interface



# OMEGAMON Problem Solving Scenarios designed to help SMEs avoid service outages and track KPIs

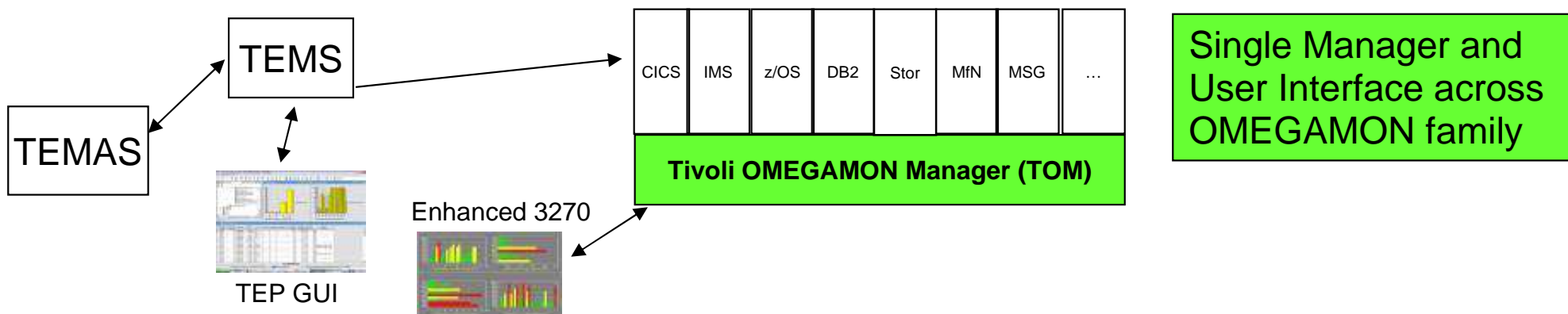
- Identify anomalous KPI behaviour independent of thresholds.
- Exploit multi-domain analysis to identify complex interactions and enable composite KPIs
- View near real time streaming analytics to identify complex interactions and subtle emerging problems across domains
- Warn users in advance of service impact, deterioration or outage.
- Focus on usefulness of results, not on individual algorithms.



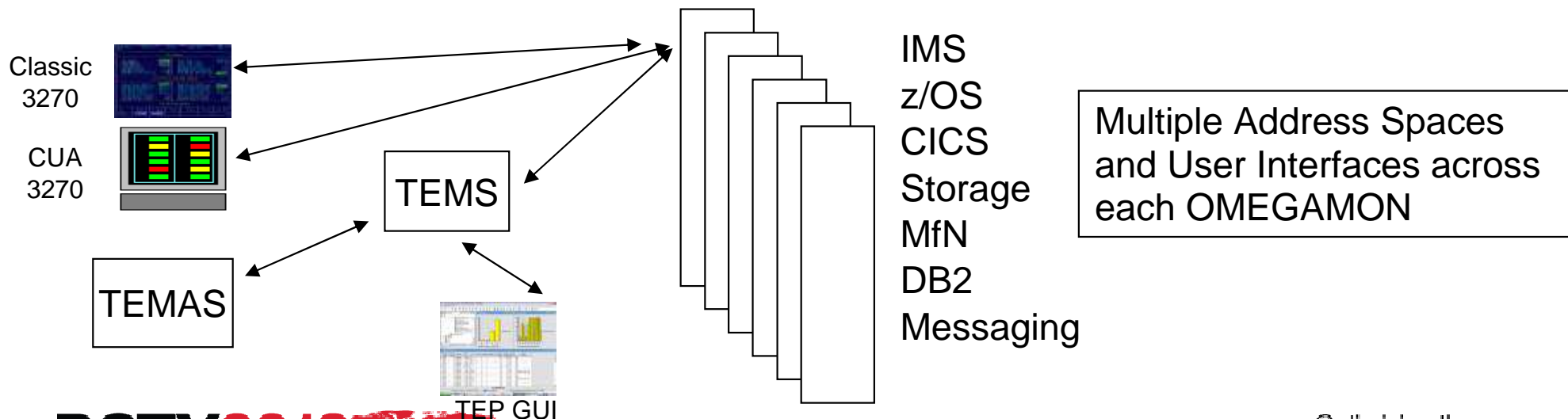


# Moving to simplified architecture driving decreased resource utilization without lose of current function

## V 5.1 Enhanced OMEGAMON Architecture



## V 4.2 OMEGAMON Architecture



# Enhanced 3270 User Interface creates Enterprise wide view of information across multiple sysplex's

- Understand transactions across entire Enterprise
- Color coding to provide ability to find and resolve problems quickly

Command ==> KOBSTART Enterprise Summary

Auto Update: 000  
Plex ID: \_\_\_\_\_  
Sys ID: \_\_\_\_\_

All Active Sysplexes

Columns 2 to 6 of 9    ← | → | ↑ | ↓    Row 1

♦Sysplex Name	ΔAverage ∇CPU Percent	Highest LPAR Name	ΔHighest ∇LPAR CPU%	ΔPercent LPAR ∇MSU Capacity	LPAR Group Name
<u>  </u> ZPETPLX2	3	Z2	3	3.4	N/A

**z/OS-wide sysplex view**

All Active CICSplexes

Columns 2 to 6 of 19    ← | → | ↑ | ↓    Row 3 of 3

ΔCICSplex ∇Name	ΔNumber of ∇Regions	ΔTransaction ∇Rate	ΔCPU		SOS Region
<u>  </u> OMEGPlex	1	0/m	0.3%	No	n/a
<u>  </u> TESTPlex	8	10985/m	18.4%	No	n/a
<u>  </u> WUIPlex	1	0/m	0.0%	No	n/a

**CICSplex details views**

# Customer prioritized Problem Solving scenarios built into Enhanced 3270 User Interface

- Easy to see and find critical system and sub-system information
- Single screen focused on customer defined problems
- Screen content based on high priority problems

Top consumers view of details

File Edit View Tools Options Help 11/08/2011 10:41:45  
Auto Update : 060  
Plex ID :  
SMF ID :

Top Consumers for Sysplex ZPETPLX2

Highest Consuming Address Spaces of CPU

ΔAddress Space ▽VName	◇ASID	ΔCPU ▽Percent	Δ0..20..40..60..8	VName
CICS3A1A	0174	113.9		Z1
MQQ2S12S	017F	55.7		Z2
MQQ2S23S	015C	41.7		Z3

Highest Consuming Address Spaces of Real Storage

ΔAddress Space ▽VName	◇ASID	ΔCentral Frame ▽Count	Working Set Size	ΔLPAR ▽VName
IXGLOGR	0019	565304	2208M	Z4
SMSVSAM	000A	428139	1672M	Z4
SMSVSAM	000A	422583	1650M	Z3

Gain graphical view of details

# Example of quickly finding and fixing z/OS Problem

Screen 1 Exceptions

Columns 3 to 5 of 6 Rows 1 to 8 of 8

♦Sysplex Name	♦LPAR Name	ΔException	Value	Waiting Tasks
LPAR400J	CANSYSG	Performance_Index	7.50	-
LPAR400J	CANSYSG	Enqueue	SYSDSN	1
LPAR400J	CANSYSG	GTF_Active	TRUE	-
LPAR400J	CANSYSG	CPU_Loop_Index	100.0	-
LPAR400J	CANSP22	Performance_Index	1.76	-
LPAR400J	CANSYSL	Performance_Index	4.28	-
LPAR400J	CANSP12	Performance_Index	1.42	-
LPAR400J				

Possible Looping Job

Screen 2 Exceptions

Columns 3 to 5 of 6 Rows 1 to 7 of 7

♦Sysplex Name	♦LPAR Name	ΔException	Value	Waiting Tasks
LPAR400J	CANSP13	Performance_Index	6.66	-
LPAR400J	CANSP13	Active_Storage_Alert	WARNING	-
LPAR400J	CANSYSL	Performance_Index	2.50	-
LPAR400J	CANSP11	Performance_Index	1.42	-
LPAR400J	CANSP22	Performance_Index	1.30	-
c LPAR400J	CANSP22	CPU_Loop_Index	99.6	-
LPAR400J	CANSYSG	Performance_Index	4.28	-

Checking Resource Usage  
- Enter 'c' to cancel job

Screen 3 Cancel Address Space

Command ==> KMSPLX0 KMS5ACTC2

Press ENTER to continue

Address Space Name	: MGRABZ
ASID	: 0044
Address Space Type	: BATCH
SMF ID	: SP22

Job Cancelled

Exceptions

Columns 3 to 5 of 6 Rows 1 to 4 of 4

♦Sysplex Name	♦LPAR Name	ΔException	Value	Waiting Tasks
LPAR400J	CANSP13	Performance_Index	2.85	-
LPAR400J	CANSP13	Active_Storage_Alert	WARNING	-
LPAR400J	CANSP22	CPU_Loop_Index	99.6	-
LPAR400J	CANSYSG	Performance_Index	4.10	-

New E3270UI highlights problems and simplifies resolving them quickly



# Unix workloads growing on z/OS as applications are ported to mainframe

- USS comes included in OMEGAMON XE on z/OS
- Complete view of Unix overhead and activities available and customizable with enhanced 3270 user interface

Command ==> z/OS UNIX System Services Overview Plex ID : ZPETPLX2  
 KM5USS SMF ID : Z2

UNIX Kernel

Columns 2 to 6 of 9 Rows 1 of 1

ΔSyscall ▽Rate	ΔCPU% ▽	ΔI/Os ▽Rate	ΔNumber of ▽Processes	ΔMax ▽Processes	ΔProcesses%
0.000	0.00	0.000	495	1900	26.05

Unix System Services

Dubbed Address Spaces

Columns 1 to 7 of 7 Rows 1 to 6 of 341

ΔAddress Space ▽Name	ΔASID ▽	ΔCPU ▽Time%	▽CPU _Seconds	ΔType ▽	ΔService ▽Class	ΔWorking ▽Set
— CICS3A2A	0186	5.32	50707.952	STC	STC	1000
— CSQ2CHIN	0199	5.48	9750.156	STC	STC	1000
— CICS2A2A	0184	0.00	6970.156	STC	STC	1000
— TCPIP	00EC	44.01	6940.055	STC	STC	1000
— CICS2T2A	0185	0.00	5430.512	STC	STC	1000
— VTAM	00DC			STC	STC	1000

z/OS address spaces running Unix workload  
Running on CICS

# CEC overview

Command 7 Enterprise Central Processing Complex Overview Flex ID : \_\_\_\_\_  
 KM5CPC0 SMF ID : \_\_\_\_\_

**CPC Status**

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

CPC Model Number	CPC Serial Number	ΔCPs ∇%CPU	ΔCPs ∇%Overhead	CPs Weight	+Physical CPs
2097-745	0699FF	88.1	2.1	1010	
2817-761	094E15	63.3	1.7	1200	

**Summary**

Columns 3 to 6 of 10 Rows 1 to 2 of 2

◇CPC Serial Number	◇Sysplex Name	ΔAverage ∇CPU Percent	Highest LPAR Name	ΔHighest ∇LPAR CPU%	ΔPercent LPAR ∇MSU Capacity
0699FF	ZPETPLX2	8	Z2	11	9.9
094E15	ZPETPLX2	7	Z3	7	6.0

# Example of quickly finding and fixing z/OS Problem



**Screen 1** Exceptions

Columns 3 to 5 of 6 Rows 1 to 8 of 8

♦Sysplex Name	♦LPAR Name	ΔException	Value	Waiting Tasks
LPAR400J	CANSYSG	Performance_Index	7.50	-
LPAR400J	CANSYSG	Enqueue	SYSDSN	1
LPAR400J	CANSYSG	GTF_Active	TRUE	-
LPAR400J	CANSYSG	CPU_Loop_Index	100.0	-
LPAR400J	CANSP22	Performance_Index	1.76	-
LPAR400J	CANSYSL	Performance_Index	4.28	-
LPAR400J	CANSP12	Performance_Index	1.42	-
LPAR400J				

New E3270UI highlights problems and simplifies resolving them quickly

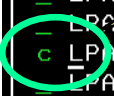
Possible Looping Job

**Screen 2** Exceptions

Columns 3 to 5 of 6 Rows 1 to 7 of 7

♦Sysplex Name	♦LPAR Name	ΔException	Value	Waiting Tasks
LPAR400J			6.66	-
LPAR400J		Active_Storage_Alert	WARNING	-
LPAR400J	CANSYSL	Performance_Index	2.50	-
LPAR400J	CANSP11	Performance_Index	1.42	-
LPAR400J	CANSP22	Performance_Index	1.30	-
LPAR400J	CANSP22	CPU_Loop_Index	99.6	-
LPAR400J	CANSYSG	Performance_Index	4.28	-

Enter 'c' to cancel job



**Screen 3**

Command ==> KMS5ACTC2 Cancel Address Space

Address Space Name : MGRABZ  
ASID : 0044  
Address Space Type : BATCH  
SMF ID : SP22

Press ENTER to continue

Job Cancelled

Exceptions

Columns 3 to 5 of 6 Rows 1 to 4 of 4

♦Sysplex Name	♦LPAR Name	ΔException	Value	Waiting Tasks
LPAR400J	CANSP13	Performance_Index	2.85	-
LPAR400J	CANSP13	Active_Storage_Alert	WARNING	-
LPAR400J	CANSP22	CPU_Loop_Index	99.6	-
LPAR400J	CANSYSG	Performance_Index	4.10	-

In prior releases this would have taken from 5 to 15 screen interactions



izing the  
world's infrastr



# OMEGAMON for CICS provides improved visibility and opportunity to reduce resource usage

In addition to the OMEGAMON family capability:

- Manage using service level analysis of transactions based on response times with new enhanced 3270 UI
- Take advantage of zIIP specialty processor to decrease resource usage
  - Up to 73% of CICS SLA processing off-loaded
- New 'Find' command to easily locate hung users and programs connections over entire CICSplex
  - Can reduce fix times from 90 minutes to 2 minutes
- Easy navigation from CICSplex to region to resource for faster problem identification and resolution



Simplify SLA management with decreased resources

# Gain insight into all CICSplex actions and activities easily by navigating with enhance 3270 user interface

Large number of reports now available showing data aggregated at CICSplex level:

- DB2 Connection Summary
- Enqueue Summary
- DBCTL Connection Summary
- Storage Overview
- Messaging Overview
- Service Level Analysis
- Region Summary
  - Drill-down into CICS region level reports
- Dispatcher Summary

```
File Edit View Tools Options Help 02/22/2012 17:10:06
Auto Update : Off
=>
Options Menu
Select an option and then press ENTER
- 1. D CICSplex DB2 Connections Summary
  2. E CICSplex Enqueue Summary
  3. I CICSplex DBCTL Connections Summary
  4. M CICSplex Storage Overview
  5. Q CICSplex Messaging Overview
  6. R CICSplex Service Level Analysis
  7. S CICSplex Regions Summary
  8. T CICSplex Dispatcher Summary
```

# Better manage CICS resources and see potential conflicts before they become issues

“Show me the other regions that use this resource”

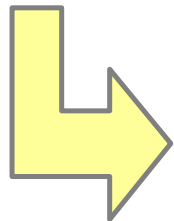
```
File Edit View Tools Options Help 02/22/2012 16:50:09
Auto Update : Off
EPLX
CSDE02

Command ==>
KCPPRGS

Options Menu
Select an option and then press ENTER

1. ! Take Actions on Program
2. E - Enable Program
3. D - Disable Program
4. N - Newcopy Program
5. I - Phasein Program
6. S Program Details
7. R Remote Program Details
8. P CICSplex Program Summary
9. T Transaction Summary for this program

Columns
Program Name
DFHZPCT
DFHZPTD
DFHZRSP
DFHZRTP
DFHZSGN
DFHZXCU
DFHZYDF
```



```
File Edit View Tools Options Help 02/22/2012 16:46:40
Auto Update : Off
CICSplex : DEEPLX
Region :

Command ==>
KCPPRGP

CICSplex Program Summary

CICS Regions with Program DFJIIRP installed
Columns 2 to 6 of 11 Rows 1 to 3 of 3

CICS Region Program ΔLanguage Length ΔProgram +Concurrency
Name Status ∇ Location
- CICSDE1 Enabled JVM n/a n/a Threadsafe
- CICSDE03 Enabled JVM n/a n/a Threadsafe
- CICSDE02 Enabled JVM n/a n/a Threadsafe
```

# Visibility across entire CICS environment with new OMEGAMON for CICS Enhanced 3270 User I/F

Ability to monitor and understand current activity based on SLAs and KPIs

File Edit View Tools Options Help 11:40

Command ==> KCPPSLA CICSplex Service Level Summary

CICSplex Service Level Analysis for TESTPLEX

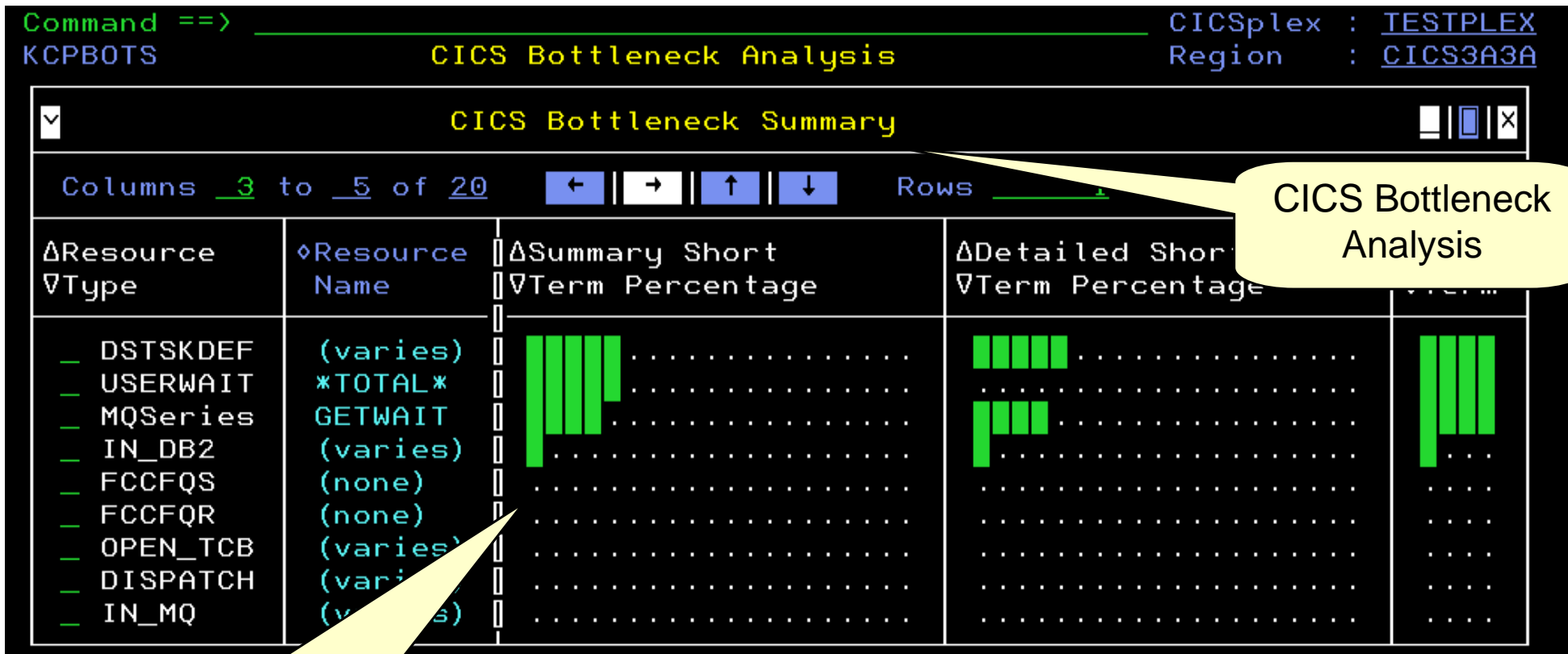
Columns 2 to 6 of 43 Rows 1 to 11 of 11

Service Class Name	Workload Name	ΔAverage Response Time	Transactions Total	ΔPerformance Index	+Tra Rat
STRANS	DFLTWORK	0.52900s	47016	0.52%	
TTRANS	DFLTWORK	0.13900s	16351	0.13%	
YTRANS	DFLTWORK	0.04300s		0.04%	
JTRANS	DFLTWORK	0.03300s		0.03%	
UTRANS	DFLTWORK	0.02600s		0.02%	
MTRANS	DFLTWORK	0.01600s		0.01%	
WTRANS	DFLTWORK	0.01100s		0.01%	
GTRANS	DFLTWORK	0.01300s		0.01%	
ITRANS	DFLTWORK	0.00700s		0.00%	
CTRANS	DFLTWORK	0.00500s		0.00%	
RTRANS	DFLTWORK	0.00200s	3128	0.00%	

CICSplex service level analysis

Prioritized by Response time to find potential problems quickly

# New OMEGAMON for CICS Bottleneck Analysis can improve overall system performance and availability



Graphical view of CICS resource usage

- Assess Resource Usage by resource types
- Find, analysis and fix problems quickly

# SLA one service class – Details / bottlenecks by regions



```
File Edit View Tools Options Help 10/05/2011 10:14:51
Auto Update : Off
Command ==>
KCPPSLD CICSplex Service Class Detail CICSplex : OMEGPLEX
Region :
```

CICSplex Transactions for Service Class ATRANS

Columns 6 to 10 of 42     Rows 1 to 1 of 1

Transaction ID	Interval End Timestamp	% Time Using CPU	% Wait on DB2	% Wait on DLI	+% Wait on File
ATRN	10:14:00	0%	0%	0%	

CICSplex Regions for Service Class ATRANS

Columns 6 to 10 of 42     Rows 1 to 2 of 2

CICS Region Name	Interval End Timestamp	% Time Using CPU	% Wait on DB2	% Wait on DLI	+% Wait on File
CICSBVT1	10:14:00	0%	0%	0%	
CICSBVT2	10:14:00	0%	0%	0%	



# Task Details AOR - view navigate regions w/ same UOW



KCPTASD Task Details Region : CICSBVT1

Transaction Details for Task 04059

Transaction ID.....	BVT2	Time in Suspend.....	52.3200s
CPU time.....	0.00000s	Elapsed Time.....	52.3200s
Storage Used Above 16M....	0K	Storage Used Below 16M....	1K
Attach time.....	10:18:24	Time of Suspend.....	10:18:24
Suspend Timeout Due.....	None	Facility Type.....	Term
Facility ID.....	0427	Task State.....	Suspend
Dispatcher Queue.....	Executbl	First Program ID.....	CSBVT200
Current Program ID.....	CSBVT200	Resource Type.....	IRLINK
Resource Name.....	BVT2S21	User ID.....	CICSBVT1
EXEC CICS Command.....	LINK	Purgeable Suspend.....	No
Purge Status.....	No_purge	Suspend Type.....	MVS
UOW State.....	Inflight	Umbrella Transaction ID...	None
Originating Transaction ID	BVT2		

Other tasks in CICSplex with same Unit of Work

Columns 3 to 7 of 10 Rows 1 to 1 of 1

ΔCICS Region ▽Name	ΔTransaction ▽ID	ΔTask ▽Number	Wait Type	Resource Type	Resource Name	+Elaps Time
_ CICSBVT2	CSMI	11576	Interval	ICWAIT	R11	52.8



# Unit of Work – Details for CICSplex

Actions goto view index options help 05/11/2011 9:48:18

Command ==> KCPTASD

Auto Update : Off  
CICSplex : DEEPLEX  
Region : CICSDE03

**Task Details for Task 00178 on CICSDE03**

```

Transaction ID.....: FUP2
CPU time.....: 0.00000s
Storage Used Above 16M.....: 0KB
Attach time.....: 09:21:23
Suspend Timeout Due.....: None
Facility ID.....: 0491
Dispatcher Queue.....: Executbl
Current Program ID.....:
Resource Name.....: DE02>AAA
EXEC CICS Command.....: n/a
Purge Status.....: No_purge
UOW State.....: Inflight
Originating Transaction ID.....: FUP2
Time in Suspend.....: 00:00:07
Elapsed Time.....: 16m 08s
Storage Used Below 16M.....: 1KB
Time of Suspend.....: 09:40:09
Facility Type.....: Term
Task State.....: Suspend
First Program ID.....: /a
Resource Type.....: IRLINK
User ID.....: TDUSER
Purgeable Suspend.....: No
Suspend Type.....: MVS
Umbrella Transaction ID.....: None
    
```

**EIB Details for Task 00178 on CICSDE03**

```

EXEC CICS Command.....: n/a
EIBRESP Description.....: NORMAL
EIBRESP2 Value.....: 0
EIB Date and Time.....: 3mo 10d
Program Offset.....: n/a
    
```

**Other tasks in CICSplex with same**

Columns 3 to 9 of 9

◇CICS Region Name	◇Transaction ID	Wait Type	Resource Type	Resource Name	Elapsed Time	CPU Time	Exceeds MAXR Threshold	Task State
CICSDE01	CSMT	File	FCIOWAIT	TESTF1	18m 50s	5.93600s	No	Suspend
CICSDE02	FUP2	MRO	IRLINK	DE01>AAA	18m 53s	1.64300s	No	Suspend

**Storage Usage**

Storage Elements Below 16Meg.....: 1    Storage Elements Above 16Meg.....: 1

Minimize Bar and PF Key Display Area

- Unit of Work (UoW) summary shows TOR, AOR, FOR
- Currently in CICSDE03
- See / navigate to DE01 or DE02

# Region Overview - visual at a glance

KCPRGNO CICS Region Overview Region : CICS3A4A

**CICS3A4A Overview**

System ID.....	Z4__	CICS Region Name.....	CICS3A4A
Worst Region Service Class	STRANS	Worst Region Performance I	6.05%
CPU Utilization.....	8.4%	CICS TOD Updated.....	Yes
Transaction Rate.....	1143/m	Maximum Tasks Percent.....	166%
Enqueue Waits.....	0	Queued Remote Requests....	0
SOS.....	No	Storage Violations in Last	0
AIDs.....	0	ICES.....	6
Current VSAM String Waits.	0	Current VSAM Buffer Waits.	0
CICS TOD Clock.....	13:52:56	CICS Version.....	6.7.0

**z/OS Information**

Largest Contiguous Availab	1984K	Largest Contiguous Availab	1984K
Page Rate.....	0.0/s	I/O Rate.....	0.0/s
Working Set Size.....	104728K	Region Status.....	N/S

**Bottleneck Summary**

Columns 3 to 5 of 14    Rows 1 to 9 of 9

ΔResource ▽Type	ΔSummary Short ▽Term Percentage	ΔSummary Long ▽Term Percentage	Summary Short Term Percentage	+Sum Ter
DISPATCH	74%	75%	████████████████████	██
MXT	10%	10%	██	██
.....	5%	8%	████████████████████	██

# A summary or overview of the CICSplex regions

KCPRGNS CICSplex Regions Summary Region : \_\_\_\_\_

Regions Summary for TESTPLEX

Columns 2 to 6 of 31 Rows 1 to 8 of 8

ΔCICS Region ▽Name	ΔCPU ▽Utilization	▽Transaction _Rate	ΔMaximum Tasks ▽Percent	SOS	ΔStg. Violat ▽
— CICS2T2A	5.5%	4843 / m	4%	No	0
— CICS2A2A	2.9%	1500 / m	8%	No	0
— CICS5A2A	1.9%	444 / m	5%	No	0
— CICS5T2A	0.8%	451 / m	4%	No	0
— CICS3A2A	0.0%	3 / m	9%	No	0
— CICS3T2A	0.0%	0 / m	4%	No	0
— CICSCT2A	0.0%	0 / m	4%	No	0
— CICS1T2A	0.0%	0 / m	4%	No	0

Sort on CPU utilization - transactions rates – Max Task %

# Customer Driven improvements with Installation and Configuration enhancements for Parmgen

- Removal of ICAT as the primary way to Install and Configure
- Install without the need of a distributed server
- Walks you through steps to complete configuration and customize a profile
- Automatically updates hundreds of configuration artifacts according to the profile, including Autodiscovery of System values

single reference book to follow to upgrade

IBM Tivoli Management Services on z/OS  
Version 6.2.3

PARMGEN Reference

IBM

IBM Corporation

7011-7711-00

*"I like using the Parmgen approach better than CICAT/ICAT. I find it much easier to make things repeatable..."*

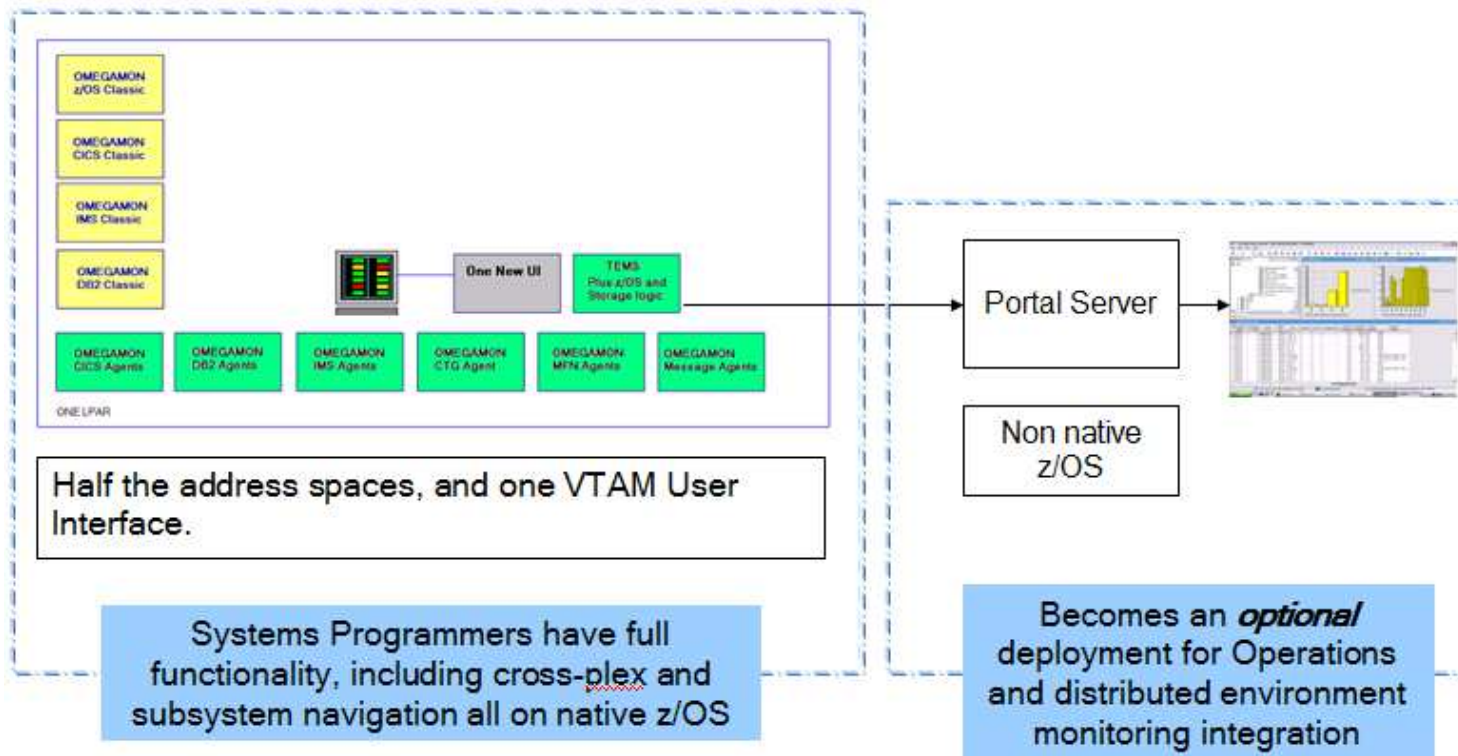
*"I like the fact that Parmgen does not overwrite my running members"*

*Typical quotes from early adopters program*

# Modernized OMEGAMON to fit today's SMEs requirements using customer directed development.

## Simplification of OMEGAMON family:

- Reduce complexity (TCO) by reducing address spaces
- Reduction of CPU utilization via exploitation of zIIP and optimized data collection (TCO)



# Analysts already agree that OMEGAMON V5 provides value to customers

*Ptak / Noel*

On OMEGAMON moving to simplified architecture and a common view across multiple domains, Rich Ptak of **PNA** commented, *"This is an important and much needed enhancement. We've heard consistently – there is a need for this kind of integration. Consistent interface – a couple of years ago, some people liked to be in a silo and just toss things over to someone else. But, they can't live that way anymore."* PNA also gave IBM high marks for doing so without losing functionality.

*Clabby Analytics*

On OMEGAMON Enhanced 3270 User Interface, Joe Clabby with **Clabby Analytics** commented: *What you've done to your 3270 interface is kind of a "wow"! I'm not a 3270 fan and I love what you've done with it"*

[ftp://public.dhe.ibm.com/software/data/ECM/industry/TWDIBMTi voli\\_OMEGAMON.pdf](ftp://public.dhe.ibm.com/software/data/ECM/industry/TWDIBMTi voli_OMEGAMON.pdf)



# OMEGAMON Family announcement includes significant new capability across number of products

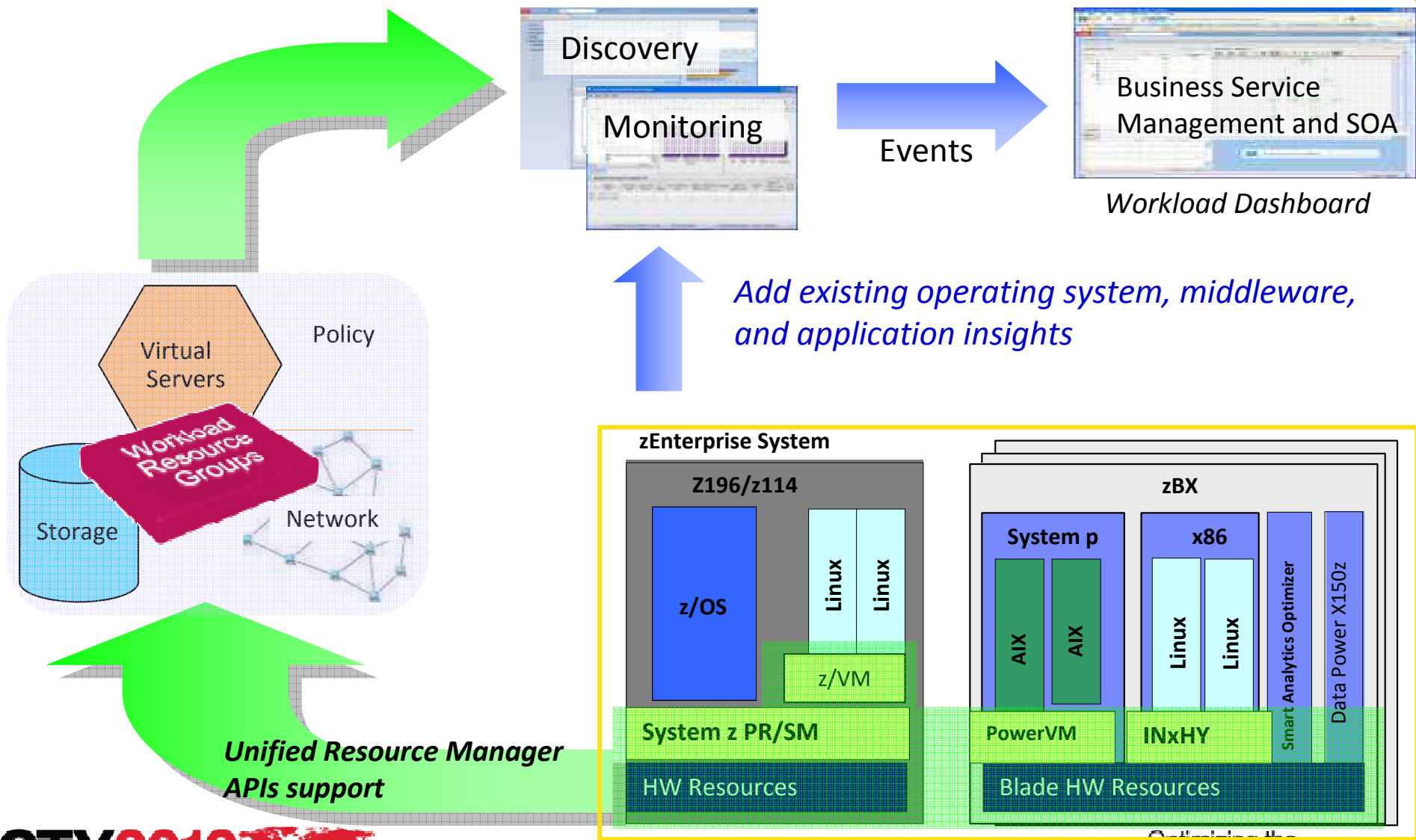
- **General Availability on 3/9/12**
  - OMEGAMON XE on z/OS V5.1
  - OMEGAMON XE for CICS on z/OS V5.1
  - OMEGAMON Dashboard Edition V5.1
  - OMEGAMON for z/OS Management Suite V4.2.1
- **Statement of Direction**
  - Enhanced 3270 User Interface will additionally be included in:
    - OMEGAMON XE for DB2 (2012 June)
    - OMEGAMON XE for IMS
    - OMEGAMON XE for Messaging
    - OMEGAMON XE for Storage
    - OMEGAMON XE for Mainframe Networks
  - Additional zIIP enablement





# zEnterprise visibility support to allow for discovery and monitoring across all components

Workload Resource Groups can include information across z196/z114 and zBX



# IBM System z Service Management continues providing customers improved business flexibility

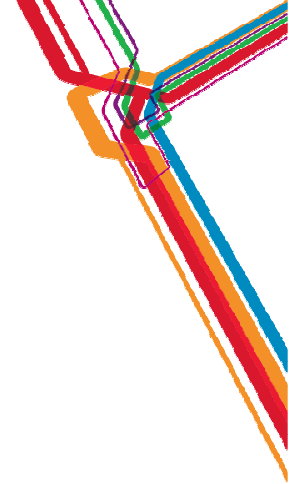


## Key Takeaways

1. IBM recognized leader in **Application Performance Management** with **Visibility, Control and Automation** for Service Management
2. Redesigned **OMEGAMON** family reduces resource usage while providing better visibility and management of problems
3. **Enhanced 3270 User Interface** provides faster and more effective monitoring and problem management capability across multiple sysplex



# Smarter Physical Infrastructure & zPlatform



**17.15 – 17.35**

**IBM TRIRIGA: an integrated and strategic workplace management Solution**

*Paolo Bizzozero – Tivoli Client Technical Professional*

**17.40 – 18.00**

**IBM Maximo Asset Management: identify, analyze, manage assets to improve efficiency and effectiveness**

*Barbara Guella – Tivoli Client Technical Professional*

**18.00 – 18.15**

**OMEGAMON v5: Client-driven redesign of mainframe performance Monitoring**

*Franco Lalli – Consulting IT Specialist zTivoli*

**18.15 – 18.30**

**Batch workload evolution [2012\\_PCTY\\_TWS86 Highlights.ppt](#)**

*Domenico Chillemi – Executive IT Specialist, zStack Advocate*



Thank  
You