

09994:

CA SYSVIEW

What's New in r13

Jim Cray



abstract



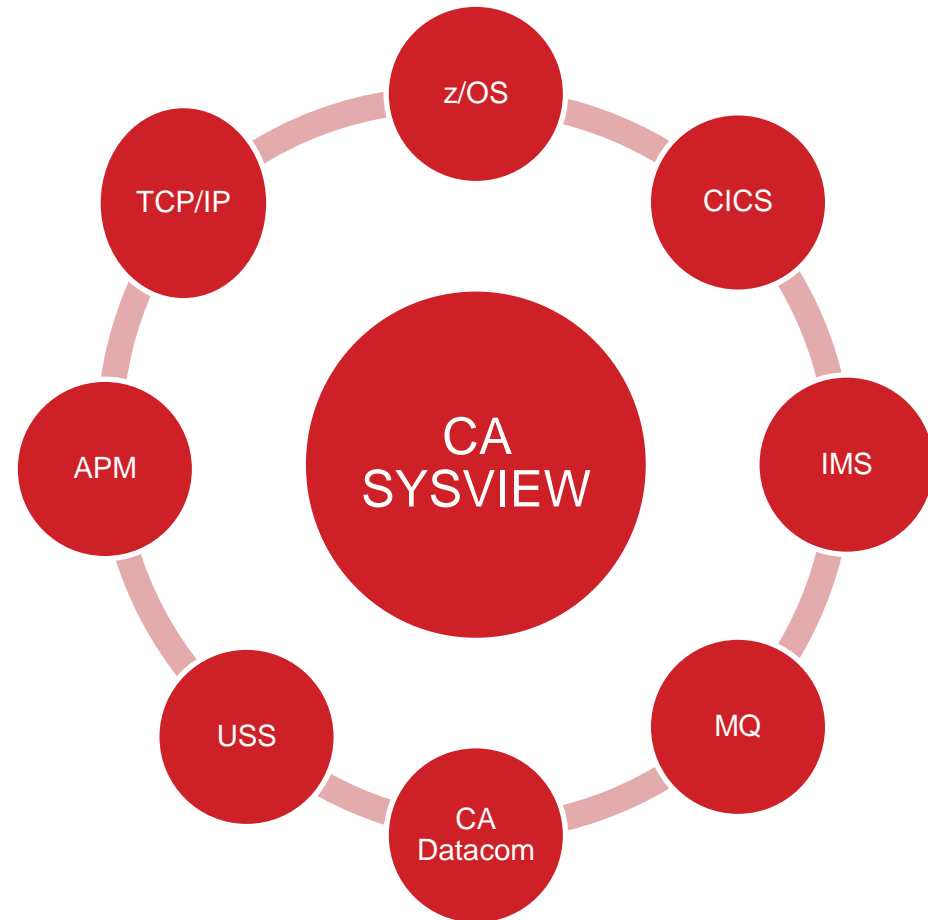
Attend this session to get an update to the latest offerings of CA SYSVIEW Performance Management. This session will be a must see for users of the product and users of any performance monitoring solution to see innovations CA is bringing to market. After attending this session you have a new outlook for your performance management products and their value.

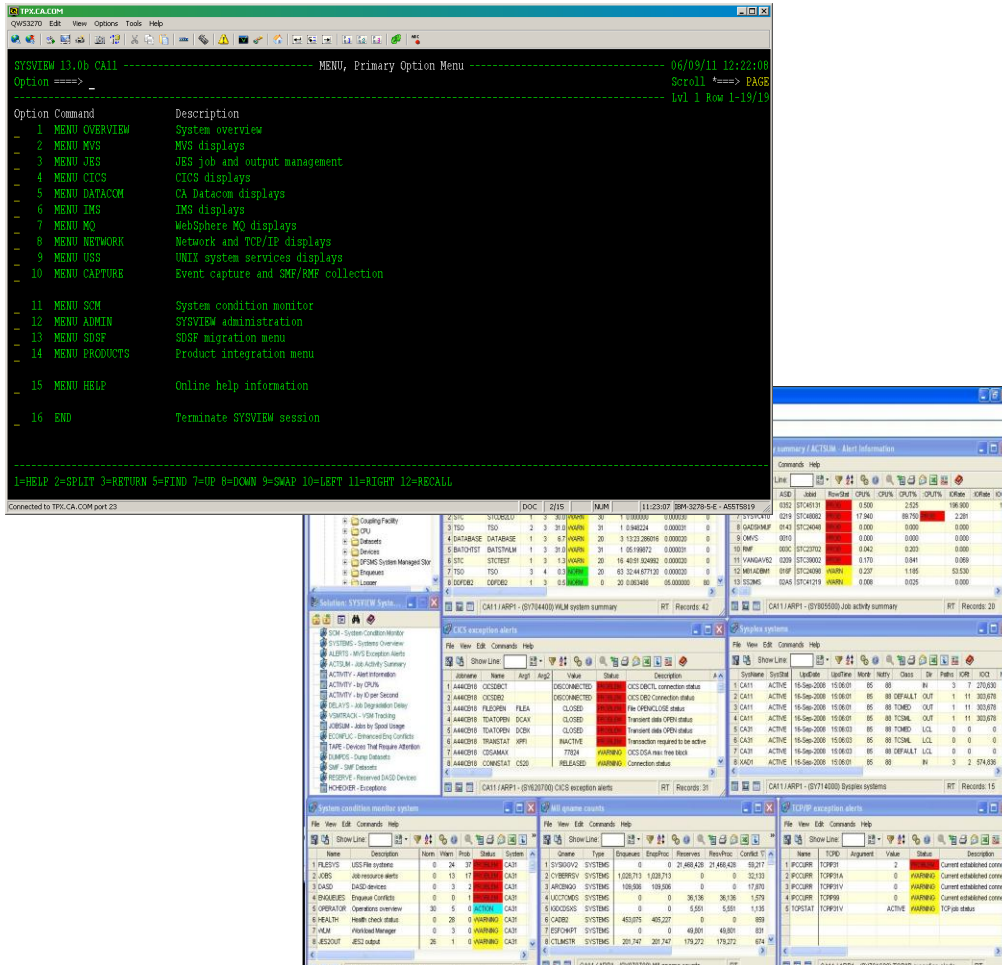
agenda

- CA SYSVIEW Performance Management
 - common features
 - product architecture
 - components and options
- What's new in SYSVIEW r13 (**GA May 2011**)
 - Latest enhancements
- Greater capabilities
 - Integration
 - Part of a larger picture (**GA June 2011**)
- Future considerations
 - Product direction

CA SYSVIEW Overview

- Real-time and historical mainframe system monitor
- Multiple optional interface options to meet your needs
 - Traditional 3270 “green screen” VTAM, ISPF, TSO, CICS or CA Roscoe.
 - Graphical Management Interface (GMI)
 - Windows client
 - Browser based





The screenshot displays the CA SYSVIEW Performance Management interface. At the top, a menu lists various options such as 'MENU OVERVIEW', 'MENU MVS', 'MENU JES', 'MENU CICS', 'MENU DATABASE', 'MENU IMS', 'MENU MQ', 'MENU NETWORK', 'MENU USS', 'MENU CAPTURE', 'MENU SCM', 'MENU ADMIN', 'MENU SDSF', 'MENU PRODUCTS', and 'MENU HELP'. Below the menu is a table with columns for 'JOBID', 'NAME', 'APPL', 'VAL', 'CPU', and 'DESCRIPTION'. The table lists various system components and their status. Several windows are open, showing detailed views of system components, including 'System condition monitor', 'MVS system summary', 'CICS exception alerts', 'MVS system summary', 'System condition monitor', and 'MVS system summary'. The interface is designed for real-time monitoring and management of mainframe systems.

- Real-time and historical mainframe system monitor
- Centralized threshold based alerting and data capture
- Drill-down problem determination
- Multiple interface options
- Screen customization
- Dashboards
- Cross system monitoring and management

CA SYSVIEW key differentiators



The CA Technologies Difference

- High integration within each solution
- zIIP enablement/offload
- One product for z/OS, CICS, IMS, WebSphere MQ, USS, TCP/IP, JES, CA Datacom/DB
- Troubleshoot the root cause of performance problems
- Mainframe 2.0 vision

product architecture

data collection and monitoring



- low system resource consumption
 - Even better with r13
 - completely tunable based on system resources and usage
 - Amount of data collected and retention period is user defined
- Utilizes CA Common Services for simplified product key maintenance, inter-product communications, and system communications.

What's new in SYSVIEW r13

Enhancements

- **SYSVIEW zIIP Exploitation**
 - The zIIP processor offers the potential of offloading specific types of work from a general processor or CP.
- The following **SYSVIEW** components are enabled for zIIP exploitation:
 - **SYSVIEW Main Services Address Space**
 - **SYSVIEW for CICS Data Collection**

Enhancements

– SYSVIEW Data Collection

- The SYSVIEW data collection process collects and monitors a variety of metrics for all of supported components such as: z/OS, CICS, IMS, WebSphere MQ, and TCP/IP.
- Data collection includes event based and interval driven sampling.
 - The data collection processes is controlled by the SYSVIEW Event
 - *Scheduler. The scheduler provides the ability to schedule events on an interval basis. The scheduled event definitions can be customized to control the collection interval, time of day and day of week*

Enhancements

- The scheduler provides an easy method to control the data that is being collected and how often.
- In addition to being able to set the data collection frequency, to selectively choose the individual metrics that are collected.
- The SYSVIEW data collector components collect, monitor and provide exception processing for a large number of resources and metrics.
- In some sites, a user may not have the need or desire to collect information on all possible resources and metrics. In this situation, the collection of unwanted or unneeded metrics is a waste of important system resources and CPU cycles

Enhancements

- The disabling of unwanted or unneeded data collection metrics will reduce CPU cycles and the amount of storage used by the data collection data spaces. The reduction in data space storage will also reduce the amount of real storage used by the SYSVAAST data anchor address space.

zIIP

```

SYSVIEW 13.0b CA11 ----- ASADMIN, Address Space Administration ----- 06/09/11 13:15:24
Command =====>
----- Lvl 3 Row 32-49/130 Col 1-131/185
Formats DEFAULT CONFIG CPU STORAGE SUMMARY ZIIP
Status SRT NoLIM NoSEL NoDST NoPFX NoOWN NoUPD NoPRT NoCAP
-----
Cmd      Jobname  Task    Id      Status  CpuTime  Pct%   CPTime  EncTime  ePct%  zIIPTime zIIPonCP  zPct%  zSwitch
-----
SYSVDEV  *        *        *        ACTIVE  00:06:41 100.00% 00:01:32 00:05:08 76.86% 00:05:04 3.503400 75.90%
-----
.        MAIN    MAIN    ACTIVE  0.366022 0.09%   0.366022
-----
.        AMS     AMS     ACTIVE  0.146218 0.04%   0.146199 0.000018 0.01% 0.000018 0.01%      9
-----
.        APPLMON APPLMON ACTIVE  1.893776 0.47%   1.615863 0.277913 14.68% 0.271380 0.006532 14.33%    98737
-----
.        AUDIT   AUDIT   ACTIVE  1.809275 0.45%   1.605417 0.203858 11.27% 0.200441 0.003416 11.08%    73435
-----
.        CICSLOGR
MODEL
-----
.        CICSLOGR CICSLOGR ACTIVE  1.665152 0.41%   1.453223 0.211928 12.73% 0.209039 0.002889 12.55%    83119
-----
.        DATALIB DATALIB ACTIVE  0.149701 0.04%   0.149683 0.000017 0.01% 0.000017 0.01%      9
-----
.        ENF     INACTIVE
-----
.        GETJOBID
INACTIVE
-----
.        IMSCQS  IMSCQS  ACTIVE  0.171225 0.04%   0.171206 0.000018 0.01% 0.000018 0.01%      9
-----
.        IMSDATA IMSDATA ACTIVE  10.51207 2.62%   2.142367 8.369707 79.62% 8.119914 0.249793 77.24%   143715
-----
.        IMSLOGR
MODEL
-----
.        IMSLOGR IMSIMSM ACTIVE  10.92458 2.72%   9.380974 1.543611 14.13% 1.503481 0.040130 13.76%   352431
-----
.        IMSLOGR IMSIMSU INACTIVE
-----
.        IMSLOGR IMSIMSW ACTIVE  6.107113 1.52%   5.464046 0.643066 10.53% 0.629440 0.013625 10.31%   229907
-----
.        IMSSPOC IMSSPOC ACTIVE  0.163556 0.04%   0.162294 0.001262 0.77% 0.001240 0.000021 0.76%     239
-----
.        JOBS    JOBS    ACTIVE  43.28961 10.78%  22.83666 20.45294 47.25% 20.18644 0.266500 46.63%   303513
-----
1=HELP 2=SPLIT 3=RETURN 5=SEARCH 7=UP 8=DOWN 9=SWAP 10=LEFT 11=RIGHT 12=RECALL

```

zIIP

```

SYSVIEW 13.0b CA11 ----- RXDISP.DASHBOARD, SYSVIEW zIIP Dashboard ----- 06/09/11 13:16:01
Command =====>
                                                                    Scroll *====> PAGE
----- Lvl 4 Row 1-22/40 Col 1-131/254
ASADMIN SYSVIEW Server Address Spaces ===== W01P01 ? + RXDISP Enclave W01P02 ? + RXDISP JobAllT W01P03 ?
Jobname ASID Typ CpuTime  CPTIME EnclTime  ePct%  CPUsec TaskTime  SSid Rels | Enclave% SYSVM13 | JobAllT% SYSVM13
SYSVDEV 021E PRI 00:06:42 00:01:32 00:05:09 76.87% 0.000380 29:25:06 SYSV 13.5 | 4 5 6 | 4 5 6
SYSVSEC 0220 SEC 30.02540 29.96651 0.018411 0.06% 0.000051 16:23:50 SYSV 13.5 | 3 7 | 3 7
SYSVM13 00C8 PRI 00:04:39 58.49177 00:03:41 79.09% 0.000216 36:01:18 GSVY 13.0 | 2 8 | 2 8
SYSVU13 0114 SEC 14.25207 14.20032 0.003376 0.02% 0.000011 36:01:05 GSVY 13.0 | 1 83 / 9 | 1 0.6 9
P$OMMAND 0216 PRI 00:27:27 00:27:25 1.693129 0.10% 0.001551 29:30:12 GSVB 12.7 | 0 10 | 0 10
P$OMCPAS 01DC SEC 00:02:59 00:02:59 0.089298 0.05% 0.000169 29:30:10 GSVB 12.7 | 0 10 | 0 10
SYSVIEW 00C7 PRI 00:51:54 00:51:52 2.162361 0.07% 0.002402 36:01:18 GSVX 12.7 | 0 0 | 0 0
SYSVUSER 00E4 SEC 00:21:01 00:21:01 0.523397 0.04% 0.000973 36:01:15 GSVX 12.7 | 0 0 | 0 0
ASADMIN SYSVIEW Tasks ===== W02P01 ? + SYSDMON SYSVIEW Data Collection Components === W02P02 ? + PLOT SYSVM13 Encl
Task Typ CpuTime Pct% EnclTime ePct% zIIPonCP | Name Count TCPTime Pct% ePct% zIIPonCP | * JOBENCL%
CICS SEC 0.104739 0.73% | MVSDATA-APPLIDS 2162 0.021929 0.01% 53.86% 0.000231 | 100 |
HCHECK SEC 0.117032 0.82% | MVSDATA-CHANNELS 2162 2.123844 0.76% 92.55% 0.007621 | 96 |
VTAM SEC 0.286952 2.01% | MVSDATA-CPUS 4322 0.829102 0.30% 93.74% 0.005930 | 92 |
XSDS SEC 0.220507 1.55% | MVSDATA-CPUSTAT 2162 0.345932 0.12% 14.91% 0.001207 | 88 |
XSSS SEC 0.216526 1.52% | MVSDATA-DEVICES 433 00:01:30 32.40% 89.00% 1.079015 | 84 | * * *
XSXS SEC 0.210722 1.48% | MVSDATA-JESNODES 2162 3.485303 1.25% 85.64% 0.028711 | 80 | A-***** *
AMS PRI 0.101082 0.04% 0.000018 0.02% | MVSDATA-JOBS 2162 00:01:34 33.93% 98.56% 0.673544 | 76 | ***** *
AUDIT PRI 1.300439 0.46% 0.274554 21.11% 0.002709 | MVSDATA-REQJOBS 2162 0.023654 0.01% 53.81% 0.000349 | 72 | *****
DATALIB PRI 0.105324 0.04% 0.000022 0.02% | MVSDATA-SYSTEM 4323 17.28971 6.18% 80.72% 0.138467 | 68 | *****
IMSCQS PRI | MVSDATA-USS 2162 0.214034 0.08% 57.83% 0.002239 | 64 | *****

1=HELP 2=SPLIT 3=RETURN 5=FIND 7=UP 8=DOWN 9=SWAP 10=LEFT 11=RIGHT 12=RECALL
  
```

Data Collection

```

SYSVIEW 13.0b CA11 ----- VARS, MVS Monitor Variables ----- 06/09/11 13:17:01
Command =====>                                           Scroll *====> PAGE
GSVX005I Beginning of data ----- Lvl 3 Row 1-18/338 Col 1-131/309
Jobname QUITHO3  ASID 01AE  Jobid TSU10047
Volser  MVR1CB   Devn 2D61  Unit 3390-9   Channel n/a CPU n/a
-----
Cmd Group  Subgroup Variable Argument Description      Type   Datatype Storage Alias Delta Absv Avg
-----
  ASID     JOB      JOBALL%  jobname All processors usage percentage  RATE   BINARY      ALIAS DELTA  AVG
  .       .       JOBALLT% jobname All processors usage percentage total  RATE   BINARY      ALIAS DELTA  AVG
  .       .       JOBASST  jobname Additional SRB Service Time (interval)  TIME   STCK        ALIAS DELTA
  .       .       JOBASSTT jobname Additional SRB Service Time (total)  TIME   STCK        ALIAS      ABSV
  .       .       JOBCLOCK jobname Wall clock time  TIME   BINARY      ALIAS      ABSV
  .       .       JOBCMIS  jobname Cache read page miss count  COUNT  BINARY      ALIAS DELTA
  .       .       JOBCPGI  jobname Common page in count  COUNT  BINARY      ALIAS DELTA
  .       .       JOBCPU%  jobname CPU usage percentage  RATE   BINARY      ALIAS DELTA  AVG
  .       .       JOBCPUSU jobname CPU service units  COUNT  BINARY      ALIAS DELTA
  .       .       JOBCPUT% jobname CPU usage percentage total  RATE   BINARY      ALIAS DELTA  AVG
  .       .       JOBCPUTM jobname CPU time (interval)  TIME   BINARY      ALIAS DELTA
  .       .       JOBCPUTT jobname CPU time (total)  TIME   BINARY      ALIAS      ABSV
  .       .       JOBCSA  jobname CSA storage allocated  COUNTAVG BINARY  STORAGE ALIAS      AVG
  .       .       JOBECSA jobname E-CSA storage allocated  COUNTAVG BINARY  STORAGE ALIAS      AVG
  .       .       JOBEIP%  jobname Enclave zIIP pct of interval CPU time  PERCENT BINARY      ALIAS DELTA  AVG
  .       .       JOBEIPCP jobname Enclave zIIP time on CP (interval)  TIME   STCK        ALIAS DELTA
  .       .       JOBEIPT% jobname Enclave zIIP pct of total CPU time  PERCENT BINARY      ALIAS      AVG
  .       .       JOBEIPTM jobname Enclave zIIP time (interval)  TIME   STCK        ALIAS DELTA
-----
1=HELP 2=SPLIT 3=RETURN 5=FIND 7=UP 8=DOWN 9=SWAP 10=LEFT 11=RIGHT 12=RECALL

```


Data Collection

```

SYSVIEW 13.06 CALL ----- SCHEDULE, Scheduled Events ----- 06/09/11 13:17:48
Command =====>                                           Scroll *====> PAGE
----- Lvl 3 Row 1-18/30 Col 1-131/317 -----
Status      Next event 06/09/11 13:18:00
ACTIVE      Interval  11.000
-----
Cmd  Group  Name              Type  TimeBeg  TimeEnd  DateBeg  DateEnd  Every  Limit  Function  Parms
----  ---  -
*    ?Add    RECUR  *      *      *      *      NONE  ONCE   NOOP      *
.    MIDNIGHT RECUR  00:00:00 *      *      *      *      24:00:00 NOLIMIT LIST      SCHD2400
.    NOON    RECUR  12:00:00 *      *      *      *      24:00:00 NOLIMIT LIST      SCHD1200
CAPTURE OVERVIEW RECUR  00:00:00 *      *      *      *      00:15:00 NOLIMIT CAPTURE  OVERVIEW
IMSDATA IMS-IMSDS RECUR  00:00:00 *      *      *      *      00:01:00 NOLIMIT IMSDATA-IMSDS *
.    IMS-POOLS RECUR  00:00:00 *      *      *      *      00:01:00 NOLIMIT IMSDATA-POOLS *
.    IMS-SYSTEM RECUR  00:00:00 *      *      *      *      00:01:00 NOLIMIT IMSDATA-SYSTEM *
.    IMS-TRAN-SUMMARY RECUR  00:00:00 *      *      *      *      00:01:00 NOLIMIT IMSDATA-TRANSUM *
MAINT  CAPMAINT RECUR  00:00:00 *      *      *      *      12:00:00 NOLIMIT CAPTURE  CAPMAINT
.    LIBCACHE RECUR  00:00:00 *      *      *      *      04:00:00 NOLIMIT LIST      SCHDLIBC
MQSDATA MQS-BUFPOOLS RECUR  00:00:00 *      *      *      *      00:01:00 NOLIMIT MQSDATA-BUFPOOLS *
.    MQS-CHANNELS RECUR  00:00:00 *      *      *      *      00:01:00 NOLIMIT MQSDATA-CHANNELS *
.    MQS-DQMGRS RECUR  00:00:00 *      *      *      *      00:01:00 NOLIMIT MQSDATA-DQMGRS *
.    MQS-PAGESETS RECUR  00:00:00 *      *      *      *      00:01:00 NOLIMIT MQSDATA-PAGESETS *
.    MQS-QMGRS RECUR  00:00:00 *      *      *      *      00:01:00 NOLIMIT MQSDATA-QMGRS *
.    MQS-QUEUES RECUR  00:00:00 *      *      *      *      00:01:00 NOLIMIT MQSDATA-QUEUES *
.    MQS-SYSTEM RECUR  00:00:00 *      *      *      *      00:01:00 NOLIMIT MQSDATA-SYSTEM *
MVSDATA MVS-CHANNELS RECUR  00:00:00 *      *      *      *      00:01:00 NOLIMIT MVSDATA-CHANNELS *
-----
1=HELP 2=SPLIT 3=RETURN 5=FIND 7=UP 8=DOWN 9=SWAP 10=LEFT 11=RIGHT 12=RECALL

```

Data Collection



```

SYSVIEW 13.0 CA31 ----- CSCHEDUL, CICS Schedule Events ----- 2011/04/17 11:56:11
Command ==>
CICS013I ASID switched to job SYSVC640 ASID 0172 CICS version TS3.1 ----- Lvl 2 Row 1-17/17 Col 1-158/332
Jobname SYSVC640 ASID 0172 Jobid STC16756 CICS TS3.1 Mode REGION SSID SYSV
Status      Next event 2011/04/17 11:56:15
ACTIVE     Interval    3.000 StartMode WARM Checkpoint SAVED
-----
Cmd  Jobname  Group  Name                Type    Every  Limit  TimeBeg  TimeEnd  Interval NextTime  LastTime  Count  Function  Parms
----  -
_____  SYSVC640  *      ?Add                RECUR  NONE  ONCE   *        *        *        *        *        *        *        NOOP      *
_____  SYSVC640  *      MIDNIGHT            RECUR  24:00:00  NOLIMIT  00:00:00  *        12:03:48  00:00:00  *        NOOP      *
_____  .         .      NOON                 RECUR  24:00:00  NOLIMIT  12:00:00  *        00:03:48  12:00:00  *        NOOP      *
_____  .         .      CICSDATA STATE-CONNECT      RECUR  00:01:00  NOLIMIT  00:00:00  *        48.000  11:57:00  11:56:00  215  STATE-CONNECT  *
_____  .         .      STATE-FACILITY     RECUR  00:01:00  NOLIMIT  00:00:00  *        48.000  11:57:00  11:56:00  215  STATE-FACILITY  *
_____  .         .      STATE-FILES        RECUR  00:10:00  NOLIMIT  00:00:00  *        00:03:48  12:00:00  11:50:00  21  STATE-FILES    *
_____  .         .      STATE-PROGRAMS     RECUR  00:10:00  NOLIMIT  00:00:00  *        00:03:48  12:00:00  11:50:00  21  STATE-PROGRAMS  *
_____  .         .      STATE-SOCKETS      RECUR  00:01:00  NOLIMIT  00:00:00  *        48.000  11:57:00  11:56:00  215  STATE-SOCKETS  *
_____  .         .      STATE-SYSTEM       RECUR  00:01:00  NOLIMIT  00:00:00  *        48.000  11:57:00  11:56:00  215  STATE-SYSTEM    *
_____  .         .      STATE-TDATA        RECUR  00:01:00  NOLIMIT  00:00:00  *        48.000  11:57:00  11:56:00  215  STATE-TDATA     *
_____  .         .      STATE-TERMINALS    RECUR  00:10:00  NOLIMIT  00:00:00  *        00:03:48  12:00:00  11:50:00  21  STATE-TERMINALS  *
_____  .         .      STATE-TRANS        RECUR  00:10:00  NOLIMIT  00:00:00  *        00:03:48  12:00:00  11:50:00  21  STATE-TRANS     *
_____  .         .      SYSDATA-RECORD     RECUR  00:15:00  NOLIMIT  00:00:00  *        00:03:48  12:00:00  11:45:00  14  SYSDATA-RECORD  *
_____  .         .      TRAN-REQUIRED      RECUR  00:01:00  NOLIMIT  00:00:00  *        48.000  11:57:00  11:56:00  215  TRAN-REQUIRED   *
_____  .         .      TRAN-SUMMARY       RECUR  00:15:00  NOLIMIT  00:00:00  *        00:03:48  12:00:00  11:45:00  14  TRAN-SUMMARY    *
_____  .         .      TRAN-THRESHOLDS   RECUR  15.000  NOLIMIT  00:00:00  *        3.000  11:56:15  11:56:00  859  TRAN-THRESHOLDS *
_____  .         .      TEST               RECUR  30.000  NOLIMIT  *        *        7.000  11:56:18  *        NOOP      *
***** End of Data *****

```

1=HELP 2=SPLIT 3=RETURN 5=FINDD 6=DUMP 7=UP 8=DOWN 9=SWAP 10=LEFT 11=RIGHT 12=RECALL

Enhancements

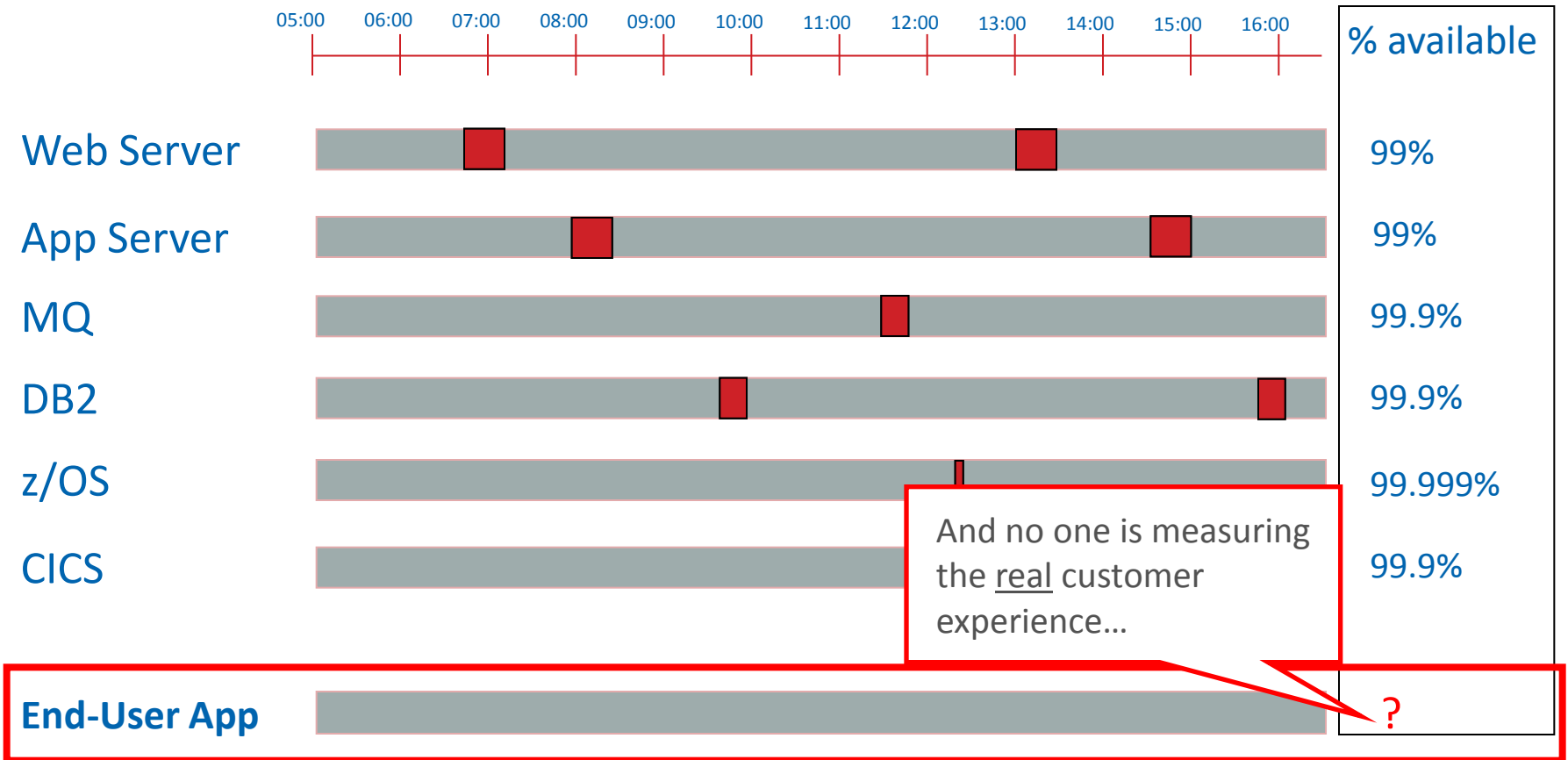
- r13
 - MQ Publish and Subscribe support
 - Seventeen new commands
 - *Six for CICS*
 - *Three for DataCom*
 - *Two for IMS*
 - *Six for MQ*
 - MSM SCS
 - Integration with Mainframe Application Tuner (MAT) (“Tritune”)

points of integration

points of integration

- CA Insight for DB2
 - integrated with CA Insight for DB2 that allows for drill-down capabilities into DB2 threads from CA SYSVIEW tasks
 - DB2 information available within CA SYSVIEW system condition monitor
- CA OPS/MVS
 - out of the box integration with CA OPS/MVS for efficient system automation
- CA APM (formerly CA Wily)
 - CA SYSVIEW data available to the CA APM dashboards
 - end to end application tracing from applications monitored by CA APM into CICS
 - possible with applications invoking CICS through MQ, web services, or CTG

the importance of monitoring at the business level



- Unavailable or Slow
- Available, Performant

Forward inc. Executive Overview

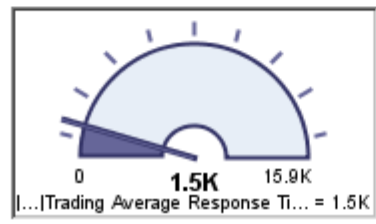


- Overview
- Details
- Customer Experience

Trading

Avg Transaction Time (ms)

Current Business Activity



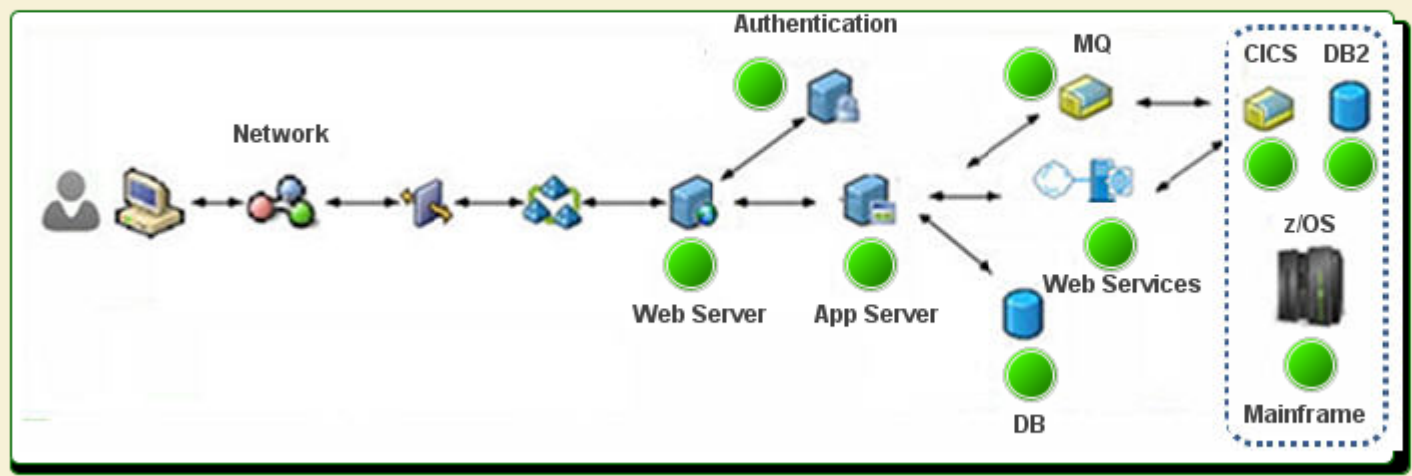
Logins 74

Orders 45

Errors 4

Total Transactions 123

System Status



Mainframe Health Overview Powered by CA SYSVIEW



Overview	z/OS System	CICS Regions	CICS Transaction Groups	IMS Subsystems	DATAKOM Address Spaces	Queue Managers	Queues	TCPIP Stacks
----------	-------------	--------------	-------------------------	----------------	------------------------	----------------	--------	--------------

z/OS System Health



CICS Regions Health



DATAKOM Address Spaces Health



IMS Subsystems Health



Queue Managers Health



TCPIP Stacks Health



- SysViewAgent (*SuperDomain*)
 - EM Host
 - EM Port
 - Java Version
 - Launch Time
 - Polling Interval (sec)
 - SysviewAgent
 - Virtual Machine
 - CICS Regions
 - SYSVC620**
 - Average CPU Time
 - Average Lifetime Pe
 - Average Suspend T
 - Average Time Spen
 - Average Waiting To
 - Number of Transact
 - Transactions Per Se
 - Dynamic Storage Al
 - Dynamic Storage
 - Dynamic Storage
 - Extended Dyna
 - Extended Dyna
 - Global Dynamic
 - Global Dynamic
 - Status
 - Transaction Groups
 - >CICS
 - >MQTRIGP
 - >SYSVIEW
 - >TEST
 - >WEBCLNT
 - SYSVC630
 - SYSVC640
 - SYSVC650

Overview General Traces Errors Search Metric Count

Summary View Trace View Tree View

Agent: *SuperDomain*|marra16|Sysview|SysViewAgent
 Timestamp: 10/08/09 13:13:59 PDT
 Duration: 255555 ms

0 ms 16000 32000 48000 64000 80000 96000 112000 128000 144000 160000 176000 192000 208000 224000 240000 256000 272000 288000 304000 320000 336000 352000

Customer Experience|Business Processes|Trading|Business Transactions|Place Order
 Frontends|Apps|Trading|URLs|Default
 Servlets|ActionServlet
 EJB|Session|TradeSessionEJB_n7enxc_Impl
 EJB|Session|TradeSessionEJB_n7enxc_Impl|searchCustomers
 EJB|Session|TradeSessionEJB_n7enxc_Impl|searchCustomersByLastNameWild
 WebServices|Client|http://CustomerInfo.customer.fowardinc.ca
 WebServices|Client|http://CustomerInfo.customer.fowardinc.ca|DFHOXCMN

CICS Regions|SYSVC620|CPIH|0000152|Transaction Lifetime
 CICS Regions|SYSVC620|CPIH|0000152|Transaction Lifetime
 CICS Regions|SYSVC620|CPIH|0000152|Transaction Lifetime
 Duration: 255555 ms
 Timestamp: 0 ms
 100% of total transaction time

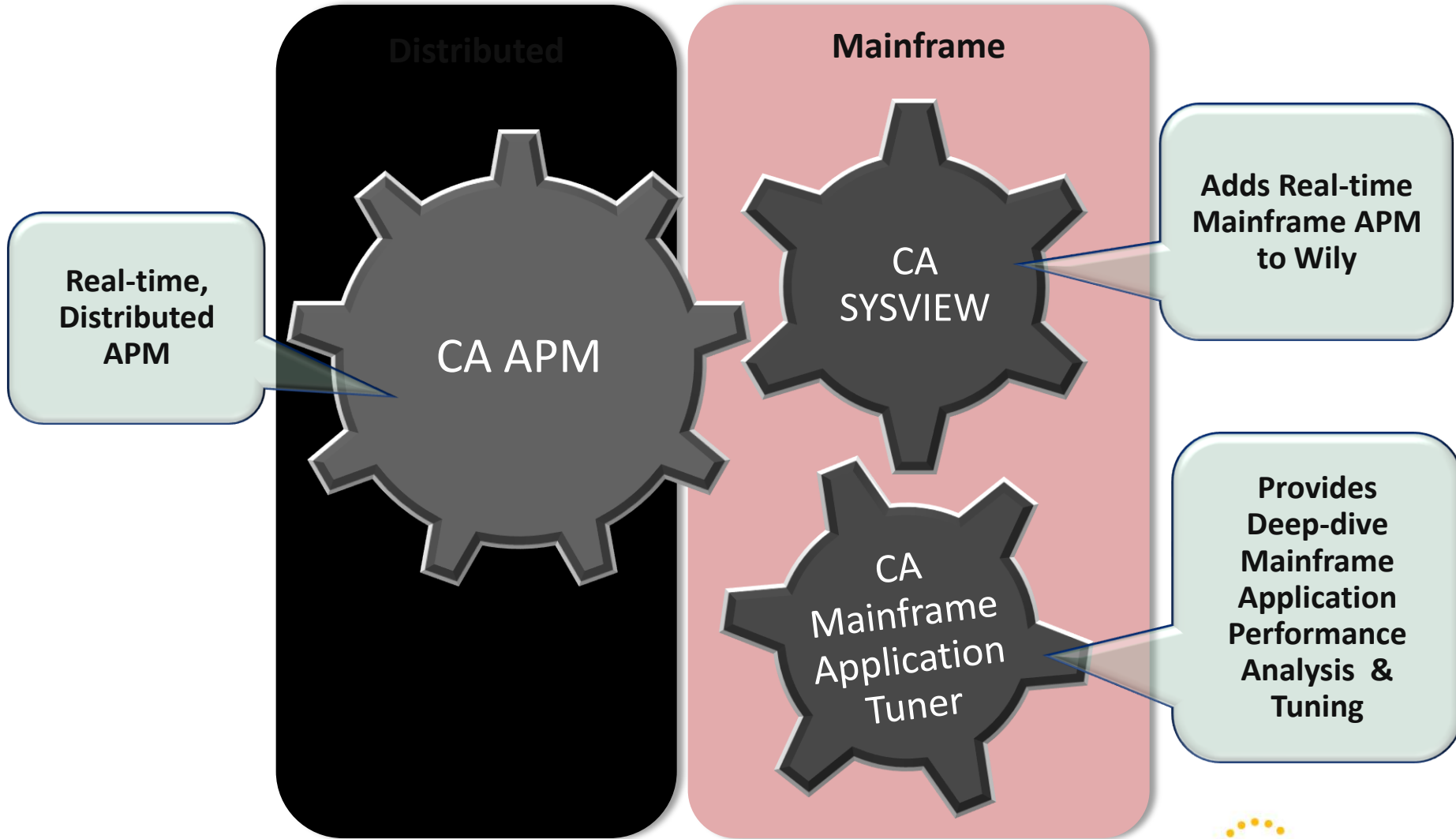
Microsecond Lifetime: 51111
 Program Name: DFHOXCMN
 SMF SysId: CA31
 SeqNoCrossProcessData: 1:1
 Trace ID: 1255032842664:13
 Trace Type: Normal
 Transaction Name: CPIH
 Transaction Number: 152
 Unit of Work ID: af4017b031b90001
 Web Service Name: placeOrder

2 events found

20 Minutes ending at 13:27:12 PDT 10/08/2009

part of a larger solution

complete mainframe application performance management



Points of Integration

- Line Command
 - ACTIVITY (z/OS Active tasks)
 - CTASK (CICS active transactions)
 - IMSREGNS (IMS transactions)
- Threshold Breach
 - From any CA SYSVIEW Threshold Breach for z/OS, CICS and IMS.

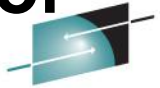
Line Command Invoking of CA MAT from CA SYSVIEW ACTIVITY command

```

SYSVIEW 13.0 CA31 ----- ACTIVITY, System Activity ----- 2011/04/13 22:19:57
Command =====>
TRITUNE REQUEST SCHEDULED ----- Lvl 2 Row 1-1/1 Col 1-158/492
(r) IFA% IIP% CP% ...50..100 -Condition- ---Ready--- --Paging-- -Storage-
CPU 0% 23% 51% ████████ ENQ NoSMF ASIDs 5 Slots 14% ECSA 35%
LCPU 0% 33% 51% ████████ RES NoWTO Tasks 5 Rate 7 ESQA 82%
NoDMP NoTAP ---I/O--- AFQA 1.13m SQA 63%
Spool 32% ████████ Rate 217k UICA 44590 CSA 48%
-----
Formats DEFAULT ALERTS CPU CRAY IO JIM PERF PROC STG TEST USER WLM
Status SORT SELECT
-----
*
ALL ALL
Cmd Jobname Stepname Procstep Type Jobnr Jc Status CPU% CPUT% CPU-Time Clocktime Limit SRB-Time IO/Sec I/O-Count R-Stg A-Stg F-Stg Dp ASID Paging
TRI CHRT3JBO CHRT3JBO STEP00 STC 9671 $ IN 9.70 58.20 09:00:35 19:36:19 86400 33.65971 17803.8 3209130886 816M 116M 4.7M DC 0140 0.0
***** End of Data *****

```

Threshold Breach Resulting in the Invoking of CA MAT from CA SYSVIEW



SHARE
Technology - Connections - Results

```
SYSVIEW 13.0 CA31 ----- THRESH, MVS Threshold Definitions ----- 2011/04/13 22:00:41
Command ==>>>
----- Scroll *==>> PAGE
----- Lvl 2 Row 1-2/2 Col 1-158/203
Status SELECT MASKFLD
Threshold processing ACTIVE
-----
Cmd Name      Argument      Limit Pct  Warning RuleType Dur TrigLvl  Msg Log SMF Trap TrapDest OPMSVS Run IMODname      CapLevel CapEvent CapIntvl Group
-----
?Add          *              0 *          AUTO      2 CHANGE  YES YES YES NO *          NO      NO *          NONE *          00:15:00
JOBLOCK CRAJA11D 00:02:00 75 00:01:30 UPPER  2 PROBLEM YES YES YES NO *          NO      NO *          PROBLEM TESTJJ 00:02:00 ASID
***** End of Data *****
```

VARS



```

SYSVIEW 13.0a CA31 ----- VARS, MVS Monitor Variables ----- 2011/02/15 21:52:59
Command =====>                                         Scroll =====> PAGE
----- Lvl 2 Row 1-41/338 Col 1-158/311 -----
Jobname CRAJA11  ASID 022A  Jobid TSU22990
Volser MVR1CA   Devn 2074  Unit 3390-9   Channel n/a CPU n/a
-----

```

Cmd	Group	Subgroup	Variable	Argument	Description	Type	Datatype	Storage	Alias	Delta	Absv	Avg	Rate	Sample	Pct	Diff	Rule
---	ASID	JOB	JOBALL%	jobname	All processors usage percentage	RATE	BINARY		ALIAS	DELTA		AVG		SAMPLE			UPPER
---	.	.	JOBALLT%	jobname	All processors usage percentage total	RATE	BINARY		ALIAS	DELTA		AVG	RATE				UPPER
---	.	.	JOBASST	jobname	Additional SRB Service Time (interval)	TIME	STCK		ALIAS	DELTA							UPPER
---	.	.	JOBASSTT	jobname	Additional SRB Service Time (total)	TIME	STCK		ALIAS		ABSV						UPPER
---	.	.	JOBLOCK	jobname	Wall clock time	TIME	BINARY		ALIAS		ABSV						UPPER
---	.	.	JOBCMIS	jobname	Cache read page miss count	COUNT	BINARY		ALIAS	DELTA							UPPER
---	.	.	JOBCPGI	jobname	Common page in count	COUNT	BINARY		ALIAS	DELTA							UPPER
---	.	.	JOBPCPU%	jobname	CPU usage percentage	RATE	BINARY		ALIAS	DELTA		AVG		SAMPLE			UPPER
---	.	.	JOBPCFUSU	jobname	CPU service units	COUNT	BINARY		ALIAS	DELTA							UPPER
---	.	.	JOBPCPUT%	jobname	CPU usage percentage total	RATE	BINARY		ALIAS	DELTA		AVG	RATE				UPPER
---	.	.	JOBPCPUTM	jobname	CPU time (interval)	TIME	BINARY		ALIAS	DELTA							UPPER
---	.	.	JOBPCPUTT	jobname	CPU time (total)	TIME	BINARY		ALIAS		ABSV						UPPER
---	.	.	JOBBCSA	jobname	CSA storage allocated	COUNTAVG	BINARY	STORAGE	ALIAS			AVG					UPPER
---	.	.	JOBECSA	jobname	E-CSA storage allocated	COUNTAVG	BINARY	STORAGE	ALIAS			AVG					UPPER
---	.	.	JOBEIP%	jobname	Enclave zIIP pct of interval CPU time	PERCENT	BINARY		ALIAS	DELTA		AVG		SAMPLE	PCT		UPPER
---	.	.	JOBEIPCP	jobname	Enclave zIIP time on CP (interval)	TIME	STCK		ALIAS	DELTA							UPPER
---	.	.	JOBEIPT%	jobname	Enclave zIIP pct of total CPU time	PERCENT	BINARY		ALIAS		AVG				PCT		UPPER
---	.	.	JOBEIPTM	jobname	Enclave zIIP time (interval)	TIME	STCK		ALIAS	DELTA							UPPER
---	.	.	JOBEIPTT	jobname	Enclave zIIP time (total)	TIME	STCK		ALIAS		ABSV						UPPER
---	.	.	JOBENCL%	jobname	Enclave pct of interval CPU time	PERCENT	BINARY		ALIAS	DELTA		AVG		SAMPLE	PCT		UPPER
---	.	.	JOBENCT%	jobname	Enclave pct of total CPU time	PERCENT	BINARY		ALIAS		AVG				PCT		UPPER
---	.	.	JOBENCTM	jobname	Enclave time (interval)	TIME	STCK		ALIAS	DELTA							UPPER
---	.	.	JOBENCTT	jobname	Enclave time (total)	TIME	STCK		ALIAS		ABSV						UPPER
---	.	.	JOBEFVSU	jobname	E-Private storage sys unallocated	COUNTAVG	BINARY	STORAGE	ALIAS		ABSV	AVG					LOWER
---	.	.	JOBEFVT	jobname	E-Private storage size	COUNTAVG	BINARY	STORAGE	ALIAS		ABSV	AVG					UPPER
---	.	.	JOBEFVT%	jobname	E-Private storage pct used of limit	COUNTAVG	BINARY		ALIAS			AVG			PCT		UPPER
---	.	.	JOBEFVTA	jobname	E-Private storage allocated	COUNTAVG	BINARY	STORAGE	ALIAS		ABSV	AVG					UPPER
---	.	.	JOBEFVTF	jobname	E-Private storage user unallocated	COUNTAVG	BINARY	STORAGE	ALIAS		ABSV	AVG				DIFF	LOWER
---	.	.	JOBEFVTL	jobname	E-Private storage limit	COUNTAVG	BINARY	STORAGE	ALIAS		ABSV	AVG					UPPER
---	.	.	JOBEFVTS	jobname	E-Private storage system allocated	COUNTAVG	BINARY	STORAGE	ALIAS		ABSV	AVG					UPPER
---	.	.	JOBEFVTU	jobname	E-Private storage user allocated	COUNTAVG	BINARY	STORAGE	ALIAS		ABSV	AVG					UPPER
---	.	.	JOBESQA	jobname	E-SQA storage allocated	COUNTAVG	BINARY	STORAGE	ALIAS			AVG					UPPER
---	.	.	JOBEXCPC	jobname	EXCPs outstanding	COUNTAVG	BINARY		ALIAS			AVG					LOWER
---	.	.	JOBFIXED	jobname	Total fixed storage	COUNTAVG	BINARY	STORAGE	ALIAS			AVG					UPPER
---	.	.	JOBFIXQA	jobname	Fixed LSQA storage	COUNTAVG	BINARY	STORAGE	ALIAS			AVG					UPPER
---	.	.	JOBFXABV	jobname	Fixed storage above 16M line	COUNTAVG	BINARY	STORAGE	ALIAS			AVG					UPPER
---	.	.	JOBFXBEL	jobname	Fixed storage below 16M line	COUNTAVG	BINARY	STORAGE	ALIAS			AVG					UPPER
---	.	.	JOBHIPTM	jobname	Hiperspace r/w service time (interval)	TIME	STCK		ALIAS	DELTA							UPPER
---	.	.	JOBHIPTT	jobname	Hiperspace r/w service time (total)	TIME	BINARY		ALIAS		ABSV						UPPER
---	.	.	JOBHPGI	jobname	Hyperspace page in count	COUNT	BINARY		ALIAS	DELTA							UPPER
---	.	.	JOBHPGO	jobname	Hyperspace page out count	COUNT	BINARY		ALIAS	DELTA							UPPER

CA SYSVIEW Performance Management

Future/Roadmap

strategy



- Five areas of Performance Management focus have been identified within the industry that will drive the direction of future CA SYSVIEW development.
- Those main areas defined are:
 - End-user experience monitoring
 - User-defined transaction profiling
 - Application component discovery and modeling
 - Application component deep-dive monitoring
 - Application performance management database

status

- Previous Release Status
 - Product Release: **r12.7**
 - Target End of Service Date: June 2012
- Current Release Status
 - Product Release: **r13.0 (GA may 2011)**
 - For details on current features and functionality, please review CA SYSVIEW r13.0 Product Brief

technology directions

- Further speciality processor exploitation
 - zIIP
- Integration and enhanced user experience
 - Tighter integration between Mainframe Application Tuner, Insight DB2, Netmaster
 - IMS, DB2 MQSeries transaction tracing
- Usability
 - Further customization & flexibility
- MF 2.0
- CA Mainframe Chorus
 - Role based Workspace : DBA role is GA, Security role is Beta

Peek at r13.5

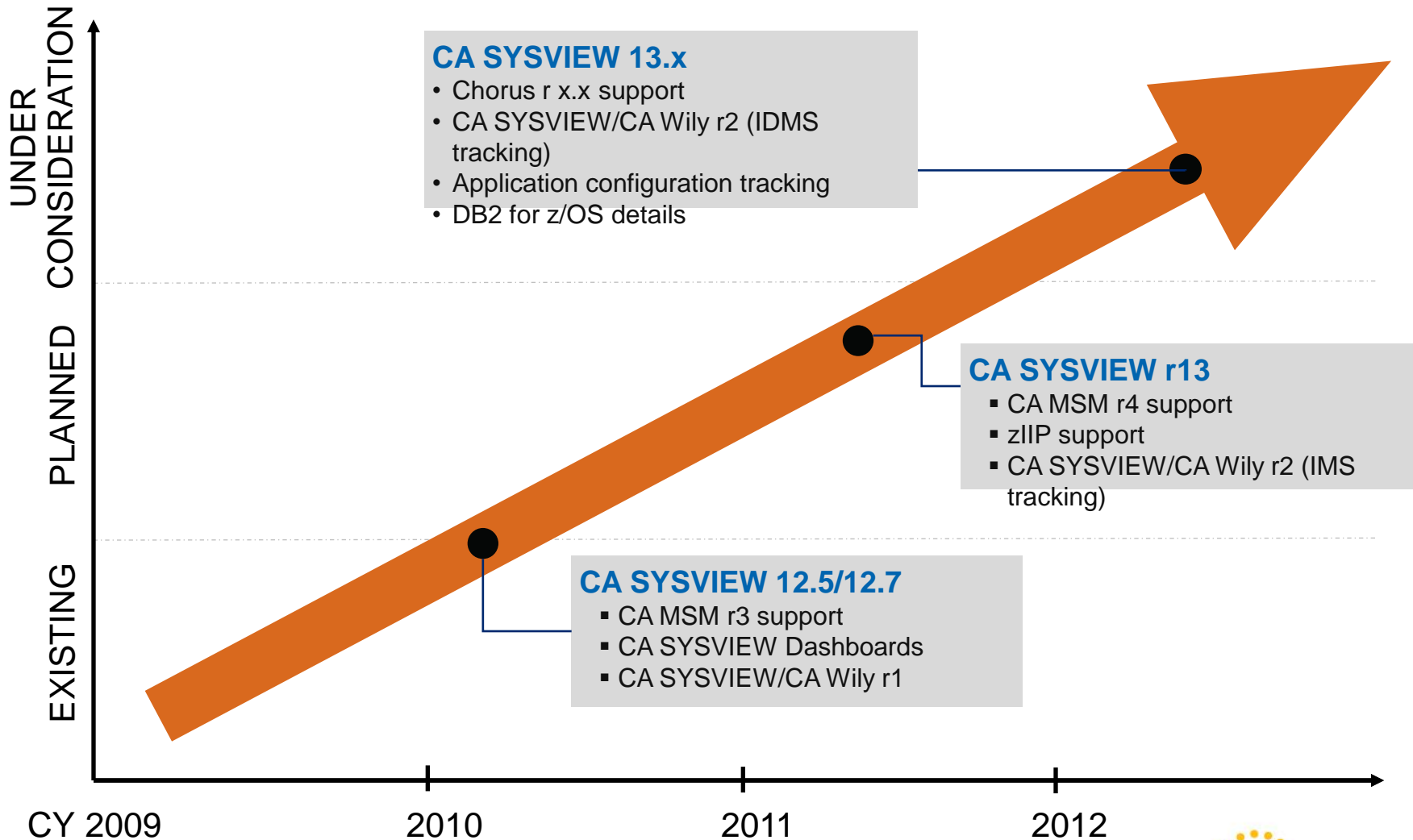
- r13 via a PTF (October timeframe 2011)
 - WILY APM
 - *IMS tracing from MQ trigger and bridge driven transactions*

- r13.5
 - WILY APM
 - *IMS tracing from MQ trigger and bridge driven transactions*

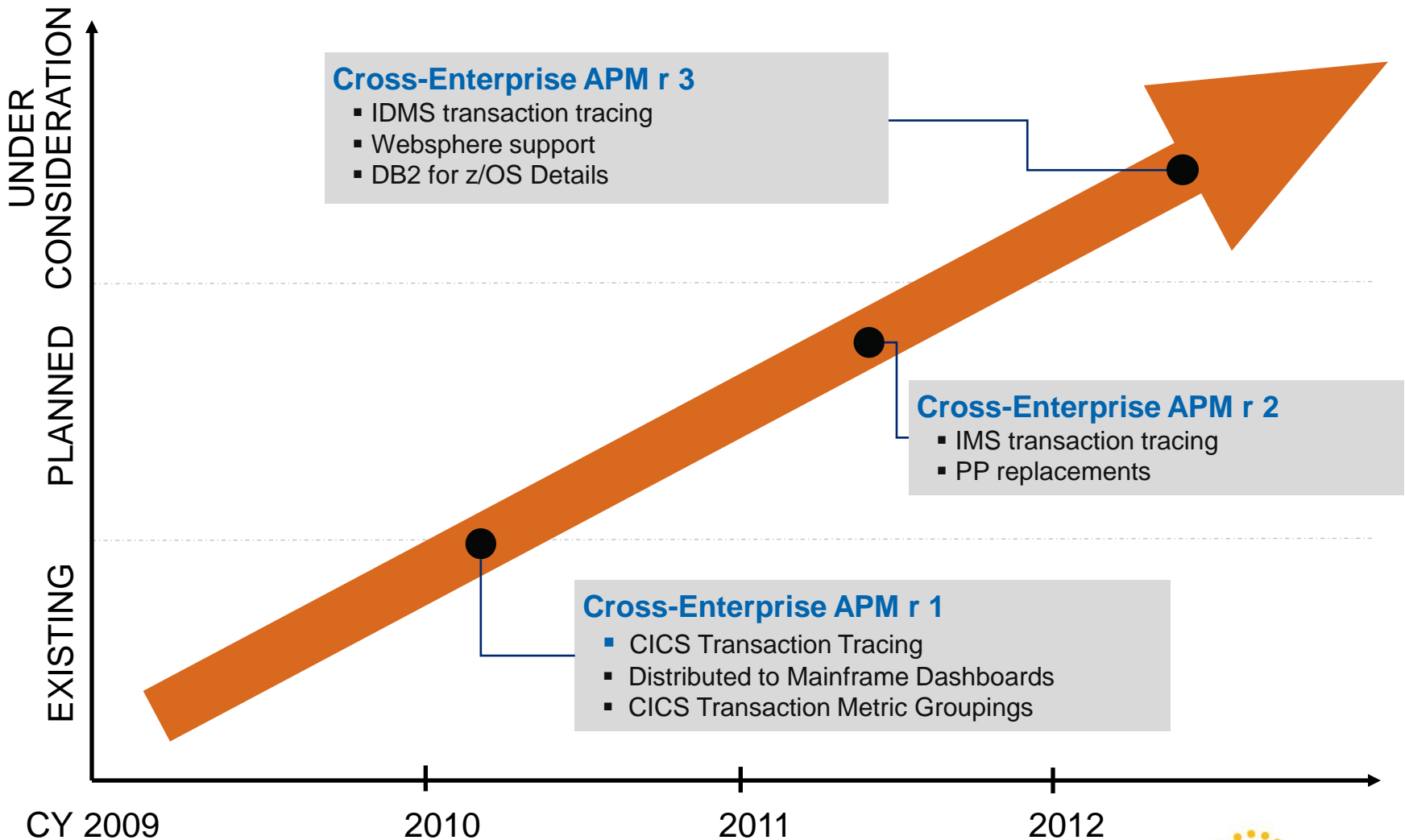
Peek at r13.5

- r13.5
 - Chorus
 - *We will start the work but there will be nothing exposed*
 - Integration with DB2
 - *Right now this is using Insight for DB2 as a server and SYSVIEW as the display engine*
 - **Thresholds and Alerts**
 - **More zIIP support**
 - **JES functional consistency**
 - **Security (the exit we ship and gen parms)**
 - **Install**

CA SYSVIEW Performance Management beyond r12.5 timeline as of May 2010



Cross-Enterprise APM



thank you

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