

CA SYSVIEW V14 Update

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Agenda

CA DEVELOPMENT METHODOLOGY

CA SYSVIEW 14.0

SIMPLIFICATION

HISTORICAL ANALYSIS

IMS ENHANCEMENTS

REDUCE OVERHEAD

TECHNICAL CURRENCY

Transformation to Innovation...

What's Holding YOUR CUSTOMER Back?

EXPLODING COMPLEXITY AND DEMAND

**POOR VISIBILITY INTO PERFORMANCE, AVAILABILITY AND NETWORK
BEHAVIOR**

CAN'T ASSESS BUSINESS IMPACT

**INEFFICIENCY, CONFUSION, LACK OF COLLABORATION AMONGST
TEAMS**

Innovation

- Focus on the customer need and not the technology
 - Outside In NOT Inside Out

**YOU'VE GOT TO START WITH
THE CUSTOMER EXPERIENCE
AND WORK BACKWARDS TO
THE TECHNOLOGY.**

STEVE JOBS

Innovation & Exploitation

- CA in the MF for the long haul
 - ASE program
 - 37% of MF Development is 35 or younger
 - 66% of MF Development is 45 or younger
 - 7 week intense immersion
 - Peer advisory groups
 - Taught by previous ASE participants

all about the customer experience...

- Improving quality (zero-defect policy)
 - Multiple scrum teams working on individual products
 - Individual scrum teams do not cross more than 2 locations
- Improving market/customer understanding
 - Dedicated full time Product Owners
 - Building a UX function within product management
 - Focus on customer requirements and feedback
- Improving customer involvement
 - Continuous customer validation throughout the development process (not just at beta)
 - You are welcome to join in sprint reviews for any product

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- Problem

Users need a simple process to upgrade to the latest version of the product. This enables the customer to receive continued value of new functionality with reduced time to production

Installation and Deployment Simplification

- Installation and deployment simplification key items
 - Elimination of user SVC and LPALIB (easier to deploy across many LPARs)
 - Streamlining of dynamic install (easier to explain/document/diagnose)
 - Mainframe Software Manager 6.0:
 - Supports configuration without deploy
 - Handle existing SITE libraries (SITE libraries added in 13.9)
 - CICS now uses SYSVIEW common logical groups (CGROUPS -> GROUPS)
 - Eliminate need to maintain USERIDs in SYSVIEW security file

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- Problem

Users need fast access to existing historical information for analysis and triage. Existing event capture functionality provide easy capture of data but need ability to analyze quickly and efficiently

Historical Data Enhancements; Simplified Navigation

New navigation commands:

- FIRST
- PREV
- ORIG
- NEXT
- LAST
- See HELP CAPDISP

```
----- CAPEVENT, Ca
Command ==>
-----
Status  NoSRT NoLIM NoSEL NoDST NoPFX NoOWN NoUPD NoPRT NoCAP
Dname   SYSVIEW.DEV.CAPDATA.T000023.D140313          Volser  WRKD01
Descr   Overview status                               Member  OVERVIEW
SiteName CA Technologies - SYSVIEW Dev             SiteId  0000375 CaseNum  n/a
System  JobName  ASID  UserId  TaskId   Created      Expires
CA31    SYSVDEV  0229  GSVXSCHT SCHEDULR 00:00:23 2014/03/13 2014/03/16
-----
Cmd      Type Name      Screen  Title                                     Norm Warn Prob
-----
ID       ID           ID      Capture dataset identification
MBR      MBR          MBR     CAPLIB member
NOTE     NOTE         NOTE    Capture dataset note
CMD      ACTIVITY     ACTIVITY System Activity                          5      15
CMD      ACTSUM      ACTSUM   Job Activity Current Summary           20     30
CMD      ACTSUM      ACTSUM   Job Activity Average Summary
CMD      ALERTS      ALERTS   MVS Exception Alerts                   37     41
CMD      COMMON      COMMON   Common Storage Summary
CMD      CONFLICT    CONFLICT Enqueue Conflicts
CMD      CPU         CPU      Central Processing Units                8       2
CMD      JOBSUM      JOBSUM   Job Status
CMD      MTT         MTT      Master Trace Table
CMD      PARTINFO    PARTINFO Partition Information
CMD      PRISM       PRISM    Processor Resource/System Manag+       3       1
CMD      SCM         SCM      System Condition Monitor                2       4
CMD      SCMENTRY    SCMENTRY System Condition Monitor Detail        13       5
CMD      VSMTRACK    VSMTRACK Common Storage Tracking Summary        10       4
CMD      WMSYSCAP    WMSYSCAP WLM System Capacity Information
CMD      WMSYSSUM    WMSYSSUM WLM Activity System Summary           26     20     6
-----
***** End o
```

A SYSVIEW 14.0 beta customer found a problem with their SYSVIEW configuration using this new feature!

Complete your session evaluations online at www.SHARE.org/Seattle-Eval

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SYSVIEW 14.0

- Problem

User needs the ability to reduce overhead of their IMS data collection methods and include additional metrics for measurement and automation.

IMS Enhancements

- IMS region occupancy ratio
 - percentage of time an IMS dependent region is busy, or occupied with a transaction (i.e. performing work)
 - A KPI metric used to monitor the performance and headroom of an IMS subsystem
 - User metric to determine if message processing regions (MPRs) need to be added or removed, and may have automation to take action.
 - A “thresh-olable” region occupancy metric for all MPR types, displayable with a user-specified interval on IMSREGNS command, DOES NOT require the use of the IMS DC Monitor.

“Phenomenally accurate!”

Complete your session evaluations online at www.SHARE.org/Seattle-Eval

IMS enhancements (cont.)

- IMS DC Monitor enhancements
 - Turned off by default in 14.0!
 - Significant overhead reduction
 - Granular options if you *DO* activate
 - Basic information is available in IMSTLOG records without IMS DC MONITOR. Some data (lower down in the record) will likely require DCMON. No XREF doc mapping event codes with the resulting data in the IMSTLOG record currently exists (Backlog item).

See PARMLIB(IMSLOGR)

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- Problem
 - Users want continued reduction in overhead of SYSVIEW processing to ensure their ongoing environment costs of remain manageable and efficient.

Overhead Reduction

- Overhead reduction key items:
 - STCKF exploitation (less overhead than STCK)
 - Reduce zIIP switches between TCB and SRB mode (zIIP switches expensive)
 - Unnecessary SPKA avoidance (z196)
 - IMS DC Monitor changes (not activated by default in 14.0)
 - Program Call exploitation (replaces SVC; less overhead)
 - Reduce ENQ/DEQ serialization during data collection

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- Problem
 - SYSVIEW must provide day one support for customer invested environment. This support enables customers to efficiently utilize their significant investment in the IBM environment.

Technical Currency

- Technical Currency
 - CICS TS 5.2 support
 - IBM WebSphere MQ 8.0 support
 - Flash Express Exploitation (SCM thresholding, PAGEDS)

CA SYSVIEW V14 Migration Consideration & Information

JD Bagnell

Advisor Product Management



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Migration Information

- Online Help
 - CHANGES command (or, HELP CHGS1400, HELP CHGS1390)
- SYSVIEW 14.0 Installation Guide
 - Chapter 6: Migration Information
- SYSVIEW 14.0 Release Notes Guide

Migration considerations

- SITEDSN and Library Concatenation enhancements
 - SAMPJCL(INSTALL)
 - SITEDSN=YES|NO|<hlq>
 - New configuration variables in CSM for SITEDSN at 14.0
 - See HELP TOPIC049 and/or Installation Guide
- PARMLIB(OPTIONS) is now cached at 14.0
- PARMLIB(SCHEDULE) changes
 - MQSDATA-SYSTEM eliminated (functionally combined with MQSDATA-QMGRS)

Migration Considerations - dynamic install

- Dynamic Installation changes at 14.0
 - DYNAMIC install eliminated
 - DYNAMIC job step removed
 - GSVXINST no longer exists (ABENDS806)
 - Must now APF-authorize the CNM4BLOD data set via another method
 - E.g. SYS1.PARMLIB(PROGxx) or SETPROG APF,ADD...
 - Simplified documentation and diagnosis of installation issues.
- Removal of SYSVIEW LPA Load Library Data Set

Migration Considerations - dynamic install (cont.)



- Removal of SYSVIEW User SVC
 - Will get GSV447W message if you specify SVC-Number in GSVXGSVX
- Removal of the SYSVIEW Anchor Address Space
 - All persistent memory now anchored off of CAMASTER address space.
 - If you run SYSVIEW IMS, and you upgrade to SYSVIEW 14.0 without an intervening IPL, you should specify IMS-LOGGER-COMMON-REUSE NO during the upgrade. (One beta customer reported a real storage creep in SYSVAAST after 14.0 upgrade).

Migration Considerations - dynamic install (cont.)



- SYSVIEW 14.0 REQUIRES the CAMASTER address space
 - Base component of CA Common Services (CCS)
 - CCS 14.0 (available for install/activation; REQUIRES IPL)
 - CCS 14.1 (CAMASTER already required by ENF & CAIRIM)
 - Recommend CCS 14.1 + RO68158

Migration Considerations – Security

- 14.0 adds the ability to limit or grant the ability for commands to retrieve cross-system data
 - SV.SUSP.*.RESN.XSDATA
 - See HELP XSCMDS and install guide for more information

Migration Considerations – Security (cont.)

- Security approaches:
 - SYSVIEW internal (easiest, but auditor risk)
 - All External (most difficult, usually reserved for the most stringent environments)
 - balanced approach (*):
 - Uses Groups (and groups are maintained within SYSVIEW)
 - BUT, association between USERID and GROUP is moved into SAF
 - Gets the SYSVIEW admin OUT of the USERID business
 - Gets the security admin OUT of the SYSVIEW business

(*) – New approach BEST PRACTICE for new customers

Migration Considerations - CICS

- Logical Groups changes
 - 14.0 a single set of GROUPS
 - CGROUPS command eliminated and replaced by GROUPS
 - PARMLIB(CICSGRPS) -> PARMLIB(GROUPS)
 - New Instance to accommodate)IF logic for specific regions
 - Two migration scenarios:
 - *All COLD start – No persistent data store usage; user copies
 - *All WARM start – Use GSVYLGCV utility to create new GROUPS member which can be RELOADED

See HELP TOPIC052 and/or Installation Guide
for more information and examples

Migration Considerations – CICS (cont.)



- PARMLIB(CICSOPTS) changes
 - See HELP CHGS1400 or Install Guide

Migration Considerations - IMS

- New data collection has been added to collect information about IMS dependent regions. To exploit:
 - Must add IMS-REGIONS event in PARMLIB(SCHDIMS), or SCHEDULE
 - Must add monitor entry for IMS region(s) in PARMLIB(IMSMON)
- If you are upgrading to 14.0 without an intervening IPL, you must ensure that you specify IMS-LOGGER-COMMON-REUSE NO in PARMLIB(IMSDATA) for the first 14.0 startup. You may then specify or allow the default of YES afterwards.
 - One beta customer reported a real storage creep in SYSVAAST address space after 14.0 upgrade.

Thank you and other items

- THANK YOU!
- Check out the SYSVIEW articles on Flipboard
- Check out the SYSVIEW videos on YouTube

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