CA SYSVIEW® Performance Management

Release Notes

Release 13.5

CA Technologies Product References

This document references the following CA Technologies products:

- CA Application Performance Management (CA APM)
- CA DATACOM®/DB (CA DATACOM)
- CA Mainframe Software Manager (CA MSM)
- CA OPS/MVS® Event Management and Automation (CA OPS/MVS)
- CA SYSVIEW® Performance Management (CA SYSVIEW)
- CA SYSVIEW® Performance Management Option for CICS (CA SYSVIEW Option for CICS)
- CA SYSVIEW® Performance Management CA Datacom® Option (CA SYSVIEW CA Datacom Option)
- CA SYSVIEW® Performance Management Option for IMS (CA SYSVIEW Option for IMS)
- CA SYSVIEW® Performance Management Option for TCP/IP (CA SYSVIEW Option for TCP/IP)
- CA SYSVIEW® Performance Management Option for WebSphere MQ (CA SYSVIEW Option for WebSphere MQ)
- CA Vantage™ Storage Resource Manager (CA Vantage GMI)

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Contents

Chapter 1: New Features

This section contains the following topics:

System Configuration Options

The system configuration options member is used to set configuration options during the initialization of CA SYSVIEW. The system configuration options member is located in the concatenation of the system parmlib data sets.

Example: SYS1.PARMLIB

Assign a subsystem ID to each instance or installation of CA SYSVIEW within a z/OS system or LPAR.

The four-character SYSVIEW subsystem ID (ssid) is used to name the System Configuration Options system parmlib member.

Member name = GSVX*ssid*

The first four characters of the member name are *always* GSVX.

Example: SYSVIEW subsystem ID = GSVX

Member name = GSVXGSVX

The default SYSVIEW subsystem ID is GSVX.

Multiple instances of SYSVIEW can be installed on a single z/OS system. These instances of SYSVIEW can be of the same or different release levels.

- Multiple instances at the same release levels *cannot* share the SYSVIEW subsystem ID or System Configuration Options member. Assign a unique subsystem ID to each SYSVIEW running at the same release level.
- Multiple instances at different release levels can share the SYSVIEW subsystem ID and System Configuration Options member.

If multiple instances of SYSVIEW are installed with the same subsystem ID, those instances will specify their system configuration options in the same SYS1.PARMLIBs member GSVX*ssid*.

Enclose the options for each instance within the following structure to separate the options by release.

Those options that are not unique to an instance can be shared across multiple instances and do not need to be within an ")IF" statement.

```
option1
option2
```

In releases before CA SYSVIEW r13.5, the SYSVIEW GEN modules specified the system configuration options. The GEN modules are no longer used.

CA SYSVIEW for DB2 Component

A new DB2 component has been added to CA SYSVIEW to allow a user to monitor DB2 subsystems. The monitoring is provided through integration with the product CA Insight for DB2. Verify that you have the product CA Insight for DB2 licensed and installed.

zIIP Exploitation

IBM offers an optional specialty processor type know as a z/architecture Integrated Information Processor (zIIP processor). The zIIP processor offers the potential of offloading specific types of work from a general processor or CP.

The following CA SYSVIEW components are enabled for zIIP exploitation:

- CA SYSVIEW Main Services Address Space
- CA SYSVIEW User Interface Address Space
- CA SYSVIEW Auxiliary Services Address Space
- CA SYSVIEW for CICS Data Collection

CA SYSVIEW zIIP Exploitation requires the CA zIIP Enablement Services of CAIRIM.

Note: For more information, see the *Administration Guide*.

Data Collection

The CA SYSVIEW data collection process collects and monitors 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 CA SYSVIEW Event Scheduler controls the data collection processes as follows:

- The scheduler provides the ability to schedule events on an interval basis.
- The scheduled event definitions can be customized to control the collection interval. For example, the time of day and day of the week.
- The scheduler controls the data that is being collected and how often.

In addition to being able to set the data collection frequency, you can select the individual metrics that are collected. The CA SYSVIEW data collector components collect, monitor, and provide exception processing for many resources and metrics.

In some sites, users do not collect data 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.

Disabling unneeded data collection metrics reduces CPU cycles and the amount of storage the data collection data spaces uses. The reduction in data space storage also reduces the amount of real storage the SYSVAAST data anchor address space uses.

Note: For more information, see the *Administration Guide*.

For more information, see the following online help topics:

- Data collection controlled by the SYSVIEW scheduler
- Enable and disable data collection metrics

Exception Processing

The CA SYSVIEW exception or alerting definitions have been enhanced to include the following new attributes:

- Exception priority
- Start time
- End time
- Day of week

The time and day of week attributes provide the ability to create multiple exception definitions that can vary throughout the day such as the first shift and second shift.

Logon Security Password Phrases

When logging on to CA SYSVIEW, you can enter a password or password phase. The password phrase has a maximum of 100 characters.

The SAF security package must also support password phrases. The SAF security profile of the individual user must have the password phrase support active.

Chapter 2: Enhancements to Existing Features

This section contains the following topics:

CA Mainframe Software Manager

The following functionality has been added for CA MSM Version 04.0.00:

- Software Deployment Service (SDS)—Use this service to deploy CA Technologies mainframe products to your target enterprise systems.
- Database Migration Tool—Use this tool to migrate your current CA MSM database after you upgrade CA MSM.
- Automatic Download Scheduling—Use this tool to automatically obtain updates for products and product releases on a regular basis.

Note: For more information, see your product's installation instructions and the *CA Mainframe Software Manager Product Guide.*

Installation Enhancements

The installation process has been enhanced.

- SYSVIEW Load Library

  The CA SYSVIEW load library contains program objects that require the data set to be allocated with DSNTYPE LIBRARY (PDS/E).

- CA SYSVIEW for CICS Terminal Interface
  - CICS resource definitions have been supplied to allow the CICS transaction SYSV to run with an alternate screen size.
  - Sample definitions have been added to parmlib member CICSCSD.
  - The CICS terminal interface is included with all CA SYSVIEW installations. This interface does not require the CA SYSVIEW for CICS option.
  - The transaction definition for SYSV specifies the PROFILE GSVXALTS. This profile allows the SYSV transaction to run as the alternate screen size. If you do not want the SYSV transaction to run as an alternate screen size, remove the "PROFILE(GSVXALTS)" parameter.
  - Multiple transactions can be defined to run the GSVXCICS program. One for primary and one for alternate screen sizes.

- Define Profiles

```
DEFINE PROFILE(GSVXALTS)
       SCRNSIZE(ALTERNATE)
       UCTRAN(NO)
       GROUP(SYSVIEW)
```

- Define transactions

```
DEFINE TRANSACTION(SYSV)
       PROGRAM(GSVXCICS)
       PRIORITY(250)
       SPURGE(YES)
       TPURGE(YES)
       RUNAWAY(0)
       TASKDATAKEY(CICS)
       TASKDATALOC(BELOW)
       PROFILE(GSVXALTS)
       GROUP(SYSVIEW)
```

User Replaceable Modules

The following modules are replaceable by the user.

- GSVBSSID - Default SYSVIEW Subsystem ID

  The GSVBSSID module contains the default CA SYSVIEW subsystem ID. The contents of the module GSVBSSID are used when a subsystem ID is not specified when invoking the CA SYSVIEW session.

  This module is provided as a convenience for executing multiple instances of SYSVIEW or changing the default subsystem ID to something other than GSVX.

- GSVBUXLT - User Translate Tables

Administration

The CA SYSVIEW administration features have been enhanced.

Main Services Address Space

The following subtask was deleted from the Main Services address space:

- GETJOBID - Get JES job ID service task. The GETJOBID task is no longer required.
- LOG - SYSLOG information collection task. The LOG task is no longer required at z/OS 1.11.

SMF Records

CA SYSVIEW can optionally create SMF records. The record layouts, DSECT, are distributed in the *sysview*.CNM4BMAC data set. The following table describes the default SMF type 255 subtype records and shows the macro library in which they are distributed:

Subtype	MACLIB	Description
001 x01	ZSMFADTR	Audit records
002 x02	ZSMFPLOT	Plot records
003 x03	ZSMF003	Threshold Exception records
004 x04	ZSMF004	State Exception records
024 x18	CSMF024	CICS exception records
025 x19	CSMF025	CICS transaction summary records

Subtype	MACLIB	Description
027 x1B	CSMF027	CICS transaction detail records
028 x1C	CSMF028	CICS system interval data records
034 x22	IMSIMTR	IMS transaction data records Replaces the previous subtype 032.
035 x23	IMSIMRA	IMS region summary records Replaces the previous subtype 033.
048 x30	ZSMFMQRR	MQ Application Request records

Parameter Library Members Added

The parameter library has been enhanced to include a new member.

New member:

- CMDATTR - Command attributes

  The data in this member is used to set attributes for commands.

Parameter Library Data Set Member GROUPS

The parameter library data set member GROUPS has been enhanced to include new logical group types.

DB2SSID

DB2 subsystem IDs.

IMSBUFP

IMS buffer pool name.

JOBCLASS

JES job classes.

Parameter Library Data Set Member LINECMDS

The parameter library data set member LINECMDS has been enhanced.

New keyword for the external line command definitions:

- NOXSCONN

  Only used for cross system data lines where the XSSYSTEM name is different from the current system name. The command that the line command definition generates would typically be executed cross system. Specifying the NOXSCONN option causes the command to execute locally.

Parameter Library Data Set Member OPTIONS GSVXGSVX

The parameter library data set member OPTIONS GSVXGSVX has been enhanced.

New Keyword

- IgnoreSpoolErrors - Specifies whether to ignore the spool read errors so the JOBS task continues to run. The spool read errors cause the JOBS task to terminate.

  Default: Yes

  Note: Before r13.5, the default was No.

Deleted Keywords:

- The SITEID option has been removed from OPTIONS.

  The site ID information is now specified in the System Configuration Option member GSVXGSVX. The new keyword is CA-Customer-SiteID.

- The SITENAME option has been removed from OPTIONS.

  The site name information is now specified in the System Configuration Option member GSVXGSVX. The new keyword is Company-Name.

Parameter Library Data Set Member SYSVIEW

The SYSLOG information collection task (LOG) was deleted. Therefore, the following statement can no longer be specified to the start the LOG task.

START LOG,INTERVAL=*nn*

Parameter Library Member XSYSTEM

The parameter library data set member XSYSTEM default values have changed.

Note: All values are specified in seconds.

XssiReceiveInputTimeout

Old default: 900

New default: 1800

Old Minimum: 1

New Minimum: 300

Maximum default: No change

XsxiReceiveInputTimeout

Old default: 900

New default: 1800

Old Minimum: 1

New Minimum: 300

Maximum default: No change

Options

The enhancements to the CA SYSVIEW options are provided in this section.

Base Product Enhancements

The CA SYSVIEW base product has been enhanced.

Format of the Time or Interval Values

The time or interval value format in releases before r13.5 had the following format:

ddxhhym

dd

Indicates the number of days

x

Specifies the date separator character.

hh

Indicates the hour.

y

Specifies the time separator character.

mm

Indicates the minutes.

The date separator for the *x* position specified in the user profile has been eliminated and replaced with a permanent slash (/) character. For example:

Old: 5.02:30 - 5 days, 2 hours, 30 minutes

New: 5/02:30 - 5 days, 2 hours, 30 minutes

Commands Added to the Base Product

The following command has been added to the base product:

METRIC

Sets the metric attributes.

Commands Enhanced

The following enhancements have been made to existing commands.

ASADMIN

Address space administration

New data fields:

- zMode - Specifies the zIIP mode of the task or session. Valid values are:
  - blank - Indicates that the task or session is not initialized for zIIP processing.
  - TASK - Indicates that the task or session is initialized for zIIP processing. However, the task is currently executing in the TASK mode, which makes it not eligible for a zIIP processor.
  - SRB - Indicates that the task or session is initialized for zIIP processing. The task is currently executing in SRB mode, which makes it eligible for a zIIP processor.

DLLIST

DATALIB list

New data fields:

- Status - Specifies the status of the member. Valid values are:
  - INDEX - Indicates the index number and cannot be deleted.
  - OLD_KEEP - The dataid.system.ssid.build is the oldest and the latest found build. It is not known if you can delete this member.
  - OLD_DEL - The dataid.system.ssid.build is the oldest and the latest found build. You can delete this member.
  - CURRENT - The dataid.system.ssid.build is the current build. Do not delete this member.
  - NEW - The dataid.system.ssid.build is for a new build. Do not delete.
  - DELETED - The DATALIB member was deleted with the DELETE or DLDELETE line command and the display has not yet been refreshed. No further action is allowed.

GROUPS

Logical groups

New logical group types:

- DB2SSID - DB2 subsystem IDs.
- IMSBUFP - IMS buffer pool name
- JOBCLASS - JES job classes

IDMSLIST

CA IDMS address space list

Renamed data fields:

- Jobclass- Renamed and expanded Jc to Jobclass to support the eight-character job classes.

LIBVIEW

Library viewer

New library member type:

- SYSPARM - Lets you view members located in the system parmlib concatenation. For example:

  ```
  LIBVIEW SYSPARM GSVXGSVX
  ```

New syntax parameters:

```
LIBVIEW type <member|dsname(member)>
```

The values for *type* are SYSPARM and TEMPLATE.

LISTDIR

List PDS directory

New syntax parameters:

```
LISTDIR dsname,<volser>,<member>,<dirtype>
        dsname<(member)>,<volser>,,<dirtype>
```

New *dirtype* screen:

- Modid - The module ID screen is used to format the directory. This screen displays the LOAD type fields for any member that has a directory entry format of LOAD and MODID fields for any module found to contain one or more standard CA module identifier blocks.

  Be sure that your CA products have implemented the standard module identifier block for all supported releases.

  MODID fields are only displayed for orphan alias entries (the associated main member was not found).

New data fields:

- DLL - Indicates DLL if it is DLL enabled program object otherwise it is blank.

Renamed data fields:

- EpOffs - Indicates the offset of the entry point within the module. The old field name was EpAddr.

MIMLIST

MIM list

Renamed data field:

- Jobclass - Renamed and expanded Jc to Jobclass to support the eight-character job classes.

PRINT

Print display lines

New options keywords:

- HScroll | NOHScroll - Controls whether any horizontal scrolling in effect for the currently displayed data is duplicated in the printed output. These new keywords are not valid with the SCREEN option.

  Default: HScroll

RECALL

Recall the last command

Command change:

The RECALL command has been changed to issue a message at the end-of-command input stack and a subsequent RECALL starts over at the top of the stack.

In previous releases, the subsequent RECALL command would continue to issue the same message.

SENDMAIL

Send a simple text mail

Command enhancement:

- The SENDMAIL command now lets you load a predefined template into the contents or body of the email message.
- New Event Capture members have been supplied to provide sample methods of sending alert emails that are based on triggered exceptions.

  Sample event capture members: CICSMAIL, IMSMAIL, MQSMAIL, MVSMAIL, TCPMAIL

New syntax parameter:

- TEMPLATE - Specifies to initialize the body of the mail to the contents of the specified template member.

New SEND subcommand options:

- TAGS, NOTAGS - If HTML is specified, by default the SEND wraps the text in HTML tags. If the text already has HTML tags, the NOTAGS option causes SEND to skip wrapping any of the text in HTML tags.

  Use this option with the TEMPLATE SENDMAIL parameter to load the body of the mail with HTML-based text.

  This option is ignored if TEXT is also specified.

STATUS

Product status

New data fields:

- Product:
  - zIIP Mode
  - Customer Name
  - System Configuration Member
- Environment:
  - Sysplex CF level

  - Sysplex Max systems
  - Sysplex Max current
  - Sysplex IPL token
  - Sysplex ID
  - Sysplex System ID
- CPU Normalization
  - CP Factor
  - SP Factor
- CPU Speed
  - CP percent of SP
  - SP percent of CP

Deleted data fields:

- Removed the security exit from the product.
- Removed the Gen Names Table and the Gen Module from the User Modules.
- Removed software versions for CICS, QUICKREF, and WebSphere MQ. Software version information is available through the SOFTWARE command.

TOPICS

Help topic knowledge base

New data fields:

- Rels - Indicates the release when the online help topic was introduced.

USERS

Product users

New data fields:

- CpuTime - The total CPU time accumulated.
- Pct% - The percent of the total address space CPU time the task has consumed.
- CPTime - The accumulated task CPU time.
- EnclTime - The accumulated enclave CPU time.
- ePct% - The percent of the total CPU time the task that executed on an enclave used.
- zIIPTime - The accumulated enclave CPU time running on a zIIP processor.
- zIIPonCP - The accumulated enclave CPU time that ran on a general processor that was eligible to run on a zIIP processor.
- zPct% - The percent of the total CPU time the task that executed on a zIIP processor used.

- zSwitch - The number of zIIP mode switches.
- zMode - The zIIP mode of the task session. Value values are:
  - blank - Indicates that the task or session is not initialized for zIIP processing.
  - TASK - Indicates that the task or session is initialized for zIIP processing. However, the task is currently executing in the TASK mode, which makes it not eligible for a zIIP processor.
  - SRB - Indicates that the task or session is initialized for zIIP processing. The task is currently executing in SRB mode, which makes it eligible for a zIIP processor.
- XAID - The target ASID of a cross memory data request if any is in progress. However, blank if none.
- XJobname - The target job name of a cross memory data request. However, blank if none.
- XReq - The cross memory request code if a cross memory data request is in progress. However, blank if none.
- XElpTime - The elapsed time of any cross memory data request. However, blank if none.

Profile Query Keywords

The profile Query command has been enhanced to include the following new keywords:

CICSGROUP

Specifies the default CICS logical group name. The logical group contains a list of CICS regions to display.

The default CICS logical group name is used when a user does not specify a group name when entering a command with the "GROUP *name*" parameter.

DB2TGTDEF

Specifies the DB2 jobname to switch automatically to when a participating DB2 primary command is entered.

FMID

Specifies the product FMID.

TABFORMATLINE

Allows tabbing to the format line formats when the format line displays.

TABINFOOPTS

Allows tabbing to the information line options on screens that support the tabbing feature.

TABXSSTATLINE

Allows tabbing to the line formats when the xsstatus line is displayed.

ZIIPMODE

Specifies the zIIP mode.

z/OS Component Enhancements

The CA SYSVIEW for z/OS component has been enhanced.

Data Collection

The CA SYSVIEW Event Scheduler controls data collection events and attributes.

Address Space Collection

Each data collection function the Event Scheduler controls has a minimum and a maximum allowed interval.

The following value has changed for function MVSDATA-JOBS:

Minimum: 00:00:30 (No change)

New Maximum: 00:13:00

Previous Maximum: 00:02:00

CA OPS/MVS Event Notification

When an exception alert within CA SYSVIEW is triggered based on a defined threshold or state rule, multiple actions can be taken. One action is to send an event notification to CA OPS/MVS. This action is coded using)API rules.

The following REXX variables have been added:

API.APPLICATION

Provides a value that contains the application name. For example, SYSVIEW.

API.VERSION

13.5a

API.LEVEL

00000713

API.ID

CAGSVX0001

API.COLOR

Alert color

0 - Default

1 - Green

2 - Blue

3 - Red

4 - White

5 - Pink

6 - Yellow

7 - Turquoise

API.GROUP

Variable metric group name

API.NAME

Variable metric name

API.DESCRIPTION

Provides a value that contains the variable metric description.

API.RESOURCE

Associated resource

API.STATUS

Current status

API.VALUE

Current value

API.ELAPSED

REXX variable that provides the elapsed time after the last notification.

API.ASID

REXX variable that provides the ASID.

API.JOBID

REXX variable that provides the JES job ID.

API.TEXT

Exception message text

Commands Added to the z/OS Component

The following command has been added to the base product:

ASPERF

Displays active address the space performance.

Commands Enhanced for the z/OS Component

The following enhancements have been made to existing commands:

ACTIVITY

Displays the system activity.

Renamed data fields:

- Jobclass - Jc was renamed and expanded to Jobclass to support the eight-character job classes.

ACTSUM

Displays the job activity summary.

New syntax parameters:

- XSYStem, XSData - This forces cross-system data collection to be on for this execution. The current profile setting of XSDATA is maintained.
- NOXSYStem, NOXSData - This forces cross-system data collection to be off for this execution. The current profile setting of XSDATA is maintained.

New data fields:

- AuxStg - JOBASTG

  Indicates auxiliary storage.
- CP% - JOBCP%

  Indicates the percentage of CP used.
- CPT% - JOBCPT%

  Indicates the percentage total of CP used.
- CPTime - JOBCPTM

  Indicates the CP time.
- GAuxStg - JOBGASTG

  Indicates auxiliary storage to back 64-bit private storage.
- G-CSA - JOBGCSA

  Indicates the allocated G-CSA storage.
- GPvtAllo - JOBGPVTA

  Indicates the allocated G-Private storage.
- GRealStg - JOBGRSTG

  Indicates the real storage to back 64-bit private storage.

ALERTS

Displays the z/OS exception alerts.

New syntax parameters:

- ACK - Display alerts that are both acknowledged and not acknowledged.
- NOACK - Do not display acknowledged alerts.
- XSYStem, XSData - This forces cross-system data collection to be on for this execution. The current profile setting of XSDATA is maintained.
- NOXSYStem, NOXSData - This forces cross-system data collection to be off for this execution. The current profile setting of XSDATA is maintained.

New line commands:

- ACK - Invokes the METRIC command to acknowledge the alert.
- CLR - Invokes the METRIC command to clear an acknowledged alert.

New data fields:

- ACK - Indicates that the alert has been acknowledged.
- Pri - The relative priority of the exception.
- AckElaps - The elapsed time since the alert has been acknowledged.
- AckDate - The date that the alert was acknowledged.
- AckTime - The time that the alert was acknowledged.
- RsceAttr - Resource attribute qualifier.

Renamed data fields:

- Resource - Argument was renamed.

APFLIST

Displays the APF list data sets.

New Line commands:

- LMID - Invokes the LISTDIR command for the selected data set with the MODID keyword. Once invoked, LISTDIR displays the standard CA module identification information for all members in the data set.

APFSTAT

Displays the APF list data set status.

New line commands:

- LMID - Invokes the LISTDIR command for the selected data set with the MODID keyword. Once invoked, LISTDIR displays the standard CA module identification information for all members in the data set.

ASLIST

Address space list

Renamed data field:

- Jobclass - Jc was renamed and expanded to Jobclass to support the eight-character job classes.

CPU

Displays CPU information.

New syntax parameters:

- PVtmod, NOPVtmod - Controls attempts to determine the module name and offset within the module for an EXOPSW34 address that is in the PVT or E-PVT region. When the LOCAL or CMS lock is held on the processor, this option is treated as though you specified NOPVTMOD.

  Default: NOPVTMOD.

New data fields:

- PSAV - The virtual PSA address.
- PSAR - The real PSA address.

DDLIST

Displays and searched the ddname libraries.

New line commands:

- LMID - Invokes the LISTDIR command for the selected data set with the MODID keyword. Once invoked, LISTDIR displays the standard CA module identification information for all members in the data set.

DSALLOC

Displays the allocated data set.

New data fields:

- SSNm - Subsystem name.
- SSCA - Subsystem communication area address.

New line commands:

- LMID - Invokes the LISTDIR command for the selected data set with the MODID keyword. Once invoked, LISTDIR displays the standard CA module identification information for all members in the data set.

DSCAT

Cataloged data sets.

New line commands:

- LMID - Invokes the LISTDIR command for the selected data set with the MODID keyword. Once invoked, LISTDIR displays the standard CA module identification information for all members in the data set.

EXTENTS

Displays the volume extents.

New line commands:

- LMID - Invokes the LISTDIR command for the selected data set with the MODID keyword. Once invoked, LISTDIR displays the standard CA module identification information for all members in the data set.

Status

Displays the IPL information.

New data fields for section: IEASYS

- AUTOR - Enables an installation to specify its own auto-reply policy during IPL, or to request the auto-reply processing is not activated.

  Default: Valid only at z/OS 1.12 or higher.

- CATALOG - Identifies the IGGCATxx members to use during the current IPL. The two alphanumeric characters (aa, bb, and so on) are appended to IGGCAT to form the names of the IGGCATxx members. The IGGCATxx parmlib members specify catalog parameters for the initializing system.

  Default: Valid only at z/OS 1.13 or higher.

- IXGCNF - Identifies the IXGCNFxx parmlib members to use when the system logger starts or is restarted on the initializing system within the sysplex. Syntax IXGCNF=aa specifies a single member. Syntax IXGCNF=(aa,bb,....) identifies groups of system logger initialization statements across several IXGCNFxx members. When concatenating multiple IXGCNFxx members, the individual system logger options merge with the last parmlib member option taking precedence.

  Default: Valid only at z/OS 1.13 or higher.

IRLMLIST

Displays the IRLM list.

Renamed data fields:

- Jobclass - Jc was renamed and expanded to Jobclass to support the eight-character job classes.

LINKLIBS

Displays the dynamic linklist libraries.

New line commands:

- LMID - Invokes the LISTDIR command for the selected data set with the MODID keyword. Once invoked, LISTDIR displays the standard CA module identification information for all members in the data set.

LINKLIST

Displays the linklist data sets.

New line commands:

- LMID - Invokes the LISTDIR command for the selected data set with the MODID keyword. Once invoked, LISTDIR displays the standard CA module identification information for all members in the data set.

LISTDRI

Displays the list PDF directory.

New data fields:

- IdSecLoc - The location of the module identifier block within the CSECT containing module identifier.
- IdModLoc - The location of the CSECT containing the module identifier within the module.

LPALIBS

Displays the LPALIST data sets.

New line commands:

- LMID - Invokes the LISTDIR command for the selected data set with the MODID keyword. Once invoked, LISTDIR displays the standard CA module identification information for all members in the data set.

MOBJECTS

Memory objects summary

Renamed data fields:

- Jobclass - Jc was renamed and expanded to Jobclass to support the eight-character job classes.

MODULES

Displays the modules

New syntax parameters:

- Modid, NOModid - MODID requests that all modules be searched for standard CA module identifiers. The MODID option causes additional fields to display on the screen. These fields contain the module identification information from any and all module identifier within the module.

New data fields:

- IdSecLoc - The location of the module identifier block within the CSECT containing module identifier.
- IdModLoc - The location of the CSECT containing the module identifier within the module.

STATES

State definition

New syntax parameters:

- SAVE - Save definitions to the persistent data store.

New data fields:

- Pri - The priority of an exception. The priority can be used to sort exceptions within a like status level such as PROBLEM.
- TimeBeg - The beginning time that the definition is eligible to be applied. Specify the time using the following format: HH:MM:SS. The time value can also be defined using any of the following values:

  `12AM | 1AM | 2AM | ... | 11AM`

  `12PM | 1PM | 2PM | ... | 11PM`

  `NOON | MIDNIGHT`
- TimeEnd - The ending time that the definition is eligible to be applied. Specify the time using the following format: HH:MM:SS. The time value can also be defined using any of the following values:

  `12AM | 1AM | 2AM | ... | 11AM`

  `12PM | 1PM | 2PM | ... | 11PM`

  `NOON | MIDNIGHT`
- TimeRng - The time range or interval in which the definition is eligible to be used.
- Sun, Mon, Tue, Wed, Thu, Fri, Sat - Specifies the day that the exception is eligible to execute. To make a day eligible, type the three-character name in the appropriate field or YES. To make the day ineligible, type NO in the appropriate field.
- SMTWTFS - The days of eligibility.
  - S - Sunday
  - M - Monday
  - T - Tuesday
  - W - Wednesday
  - T - Thursday
  - F - Friday
  - S - Saturday
- Active - The current active status of the definition. Possible values are:
  - ACTIVE - The definition is currently eligible for processing.
  - INACTIVE - The definition is currently not eligible for processing.

- Disabled - Indicates whether the definition is currently enabled or disabled. If an exception definition is disabled, the definition is not used.

Renamed data fields:

- IMOD - Run was renamed.

Deleted subcommands:

- DELETE - The DELETE subcommand has been removed. Use the DELETE line command to delete the definition.

SYSTEMS

Displays the Systems Overview menu.

The SYSTEMS command has been changed to show data from all SYSVIEWs running on all systems reachable through the CCI network by default.

Options are available to restrict the data to only the HOME system or to the CURRENT system.

New data fields:

- Type - The type of server providing the data.
- Ssid - The subsystem ID of the server providing the data.
- Jobname - The jobname of the server providing the data.
- Jobid - The job ID of server providing the data.
- Sysid - The CCI system ID of the communication server.
- Loc - The location of the server. LCL or RMT.
- Rels - The release of the server providing the data.
- Bld - The build of the server providing the data.

TASK

Displays the task structure.

New data fields:

- TToken - The TCB token.

TASKLIB

TASKLIB/STEPLIB/JOBLIB libraries

New line commands:

- LMID - Invokes the LISTDIR command for the selected data set with the MODID keyword. Once invoked, LISTDIR displays the standard CA module identification information for all members in the data set.

THRESH

Threshold definitions

New syntax parameters:

- SAVE - Save definitions to the persistent data store.

New data fields:

- Pri - The priority of an exception. The priority can be used to sort exceptions within a like status level such as PROBLEM.
- TimeBeg - The beginning time that the definition is eligible to be applied. Specify the time using the following format: HH:MM:SS. The time value can also be defined using any of the following values:

  `12AM | 1AM | 2AM | ... | 11AM`

  `12PM | 1PM | 2PM | ... | 11PM`

  `NOON | MIDNIGHT`
- TimeEnd - The ending time that the definition is eligible to be applied. Specify the time using the following format: HH:MM:SS. The time value can also be defined using any of the following values:

  `12AM | 1AM | 2AM | ... | 11AM`

  `12PM | 1PM | 2PM | ... | 11PM`

  `NOON | MIDNIGHT`
- TimeRng - The time range or interval in which the definition is eligible to be used.
- Sun, Mon, Tue, Wed, Thu, Fri, Sat - Specifies the day that the exception is eligible to execute. To make a day eligible, type the three-character name in the appropriate field or YES. To make the day ineligible, type NO in the appropriate field.
- SMTWTFS - The days of eligibility.
  - S - Sunday
  - M - Monday
  - T - Tuesday
  - W - Wednesday
  - T - Thursday
  - F - Friday
  - S - Saturday
- Active - The current active status of the definition. Possible values are:
  - ACTIVE - The definition is currently eligible for processing.
  - INACTIVE - The definition is currently not eligible for processing.

- Disabled - Indicates whether the definition is currently enabled or disabled. If an exception definition is disabled, the definition is not used.

Renamed data fields:

- IMOD - Run was renamed.

Deleted subcommands:

- DELETE - The DELETE subcommand has been removed. Use the DELETE line command to delete the definition.

USSLIST

USS list address spaces

Renamed data fields:

- Jobclass - Jc was renamed and expanded to Jobclass to support the eight-character job classes.

VARS

z/OS monitor variables.

New data fields:

- RsceAttr - The resource attribute type. Possible values are:
  - blank - None
  - jobtype - The following job types:

    JOB - A batch job

    SYS - A system task

    STC - A started task

    TSU - A TSO user

    INIT - An initiator

    ATX - An APPC transaction

    OTX - An OpenMVS transaction

Renamed data fields:

- Resource - Argument was renamed

VTOC

Volume table of contents

New line commands:

- LMID - Invokes the LISTDIR command for the selected data set with the MODID keyword. Once invoked, LISTDIR displays the standard CA module identification information for all members in the data set.

WMADELAY

WLM address space delay

Renamed data fields:

- Jobclass - Jc was renamed and expanded to Jobclass to support the eight-character job classes.

WMAGRAPH

WLM address space delay graph

Renamed data fields:

- Jobclass - Jc was renamed and expanded to Jobclass to support the eight-character job classes.

WMASINFO

WLM address space information

Renamed data fields:

- Jobclass - Jc was renamed and expanded to Jobclass to support the eight-character job classes.

WMSYSCAP

WLM system capacity information.

New data fields:

- Type - The processor type. Possible values are:
  - * - System entry. Not processor specific.
  - CP - General CP processor
  - IFA - IFA processor (zAAP)
  - IIP - IIP processor (zIIP)
- Factor - The total CPU service unit capacity per second. The normalization factor for this processor type.

  CP equivalent:

  ```
  Processor time * Factor
  ----------------------
  ```

ZAP

Display and alter DASD records.

Deleted syntax parameters:

- ZAP SPOOL - The JES2 spool volume data sets.

Changed subcommands:

- NEXT - The minimum number of required characters is increased from NEXt to NEXT.
- PREVIOUS - The minimum number of required characters is increased from PREvious to PREVious.

Data Collection Threshold Metrics Added

The following threshold metrics were added to enhance data collection.

JOBALLTM

All processors CPU time (interval)

Resource: jobname

JOBALLTT

All processors CPU time (total)

Resource: jobname

JOBASTG

Auxiliary storage

Resource: jobname

JOBCP%

CP CPU usage percentage.

Resource: jobname

JOBCPT%

CP CPU usage percentage total

Resource: jobname

JOBCPTM

CP CPU time (interval)

Resource: jobname

JOBCPTM

CP CPU time (total)

Resource: jobname

JOBGASTG

Auxiliary storage to back 64-bit private

Resource: jobname

JOBGCSA

G-CSA storage allocated

Resource: jobname

JOBGPVTA

G-Private storage allocated

Resource: jobname

JOBGRSTG

Real storage to back 64-bit private

Resource: jobname

JOBIIPNE

IIP CPU time non enclave (interval)

Resource: jobname

JOBIIPNT

IIP CPU time non enclave (total)

Resource: jobname

Starting at release r13.5, the metrics contains CPU time values that combine time from all processor types. New metrics have been created for CP processors only.

JOBCPU%

CPU usage percentage

Resource: jobname

JOBCPUT%

CPU usage percentage total

Resource: jobname

JOBCPUTM

CPU time (interval)

Resource: jobname

JOBCPUTT

CPU time (total)

Resource: jobname

Starting at release r13.5, the metrics contains CPU time on IIP processors that include enclave and non-enclave time. New metrics have been created for non-enclave time only.

JOBIIP%

IIP usage percentage

Resource: jobname

JOBIIPT%

IIP usage percentage total

Resource: jobname

JOBIIPTM

IIP CPU time (interval)

Resource: jobname

JOBIIPTT

IIP CPU time (total)

Resource: jobname

JES2 and JES3

JES2 and JES3 have been enhanced.

Job Classes

JES2 and JES3 have been enhanced to include support for eight-character job classes.

JES Commands Added

The following JES command has been added:

JCGROUP

Displays the JES3 class groups.

JTRANQUE

Displays the JES transaction output queue.

Commands Enhanced

The following enhancements have been made to existing commands.

JINIT

Initiators

Renamed command:

- INIT was renamed to JINIT. The synonym INIT has been defined.

Renamed data field:

- Jobclass - Jc was renamed and expanded to Jobclass to support the eight-character job classes.

INTRDR

Internal readers

Deleted data fields:

- Jobc
- Notify
- Programmer
- Xeqdest

JCOPYOUT

Copy JES output.

Renamed command

- JCOPYOUT - Renamed the command COPYOUTP to JCOPYOUT. The synonym COPYOUTP has been defined.

Support added

- Support has been added for JES3.

JINPRTY

JES2 input job priority summary.

Renamed data fields:

- Jobclass - Cl was renamed and expanded to Jobclass to support the eight-character job classes.

JOBCLASS

Job classes.

Support added:

- JES3 is now supported.

New data fields:

- CndPrg - Specifies whether to purge the JES data sets conditionally.
- DupJobs - Specifies whether to delay jobs with duplicate job names.
- Group - Specifies the group name for the class.
- JESLog - Specifies whether the JES job log data sets are spin eligible. The JES job log data sets are JESMSGLG and JESYSMSG.
- Partition - Specifies the spool partition name where output for this class is placed.
- Prty - Specifies the priority for the class.
- SchEnv - Specifies the default scheduling environment for the job class.
- SDepth - Specifies the setup depth.
- Status - Specifies the job class status. If the class is held, the status is HELD. Otherwise, the status is ACTIVE.
- TrkGrps - Specifies the primary and secondary track group allocation for output in this class.

New line commands:

- HOLD - Holds an output data set. Support has been added for JES3.
- RELEASE - Releases a held output data set. Support has been added for JES3.

JOUTDES

Displays the output descriptors

Support added:

- JES3 is now supported.

Renamed command:

- The command OUTDES was renamed to JOUTDES. The synonym OUTDES has been defined.

JTRANQUE

Displays the JES transaction output queue.

Renamed command:

- The command APPCOUTQ was renamed to JTRANQUE. The synonym APPCOUTQ has been defined.

LISTFILE

Displays a list of the JES job data sets.

For executing jobs, information is not available for some of the fields until the output data set closes.

New information fields:

- ExecSys- Displays the execution system name.

New data fields:

- ExecSys - The execution system name.
- Spin - Shows whether the data set is marked as a spin data set. Spin data sets that are closed can be deleted while a job is still running. The spool space the output data set uses is released when the data set is deleted.
- TRAN - Job is a transaction job output.

Modifiable data fields for JES2 and JES3:

- Prty - The priority of the output data set.
- Forms - The forms number to used when the output is printed.

Modifiable data fields for JES3 only:

- Bur - Shows whether to burst the job when printed (YES) or to print in normal mode (NO).
- Chars - The character-arrangement tables to use for printing the output.
- FCB - The forms control buffer image to use when the output is printed.
- Flash - The forms overlay name to use when the output is printed.
- Prmode - The process mode for the output.
- UCS - The universal character set name to use when the output is printed.

New line commands:

- HOLD - Holds an output data set.
- RELEASE - Releases a held output data set.

LISTHELD

Job held output queue

Renamed data fields:

- Jobclass - Jobc was renamed and expanded to Jobclass to support the eight-character job classes.

Deleted data fields:

- User-Data

LISTJOBS

All job queues.

Renamed data fields:

- Jobclass - Jobc was renamed and expanded to Jobclass to support the eight-character job classes.

Deleted data fields:

- User-Data

LISTOUT

Job output queue.

Renamed data fields:

- Jobclass - Jobc was renamed and expanded to Jobclass to support the eight-character job classes.

Deleted data fields:

- User-Data

OUTPUT

JES job output.

New information fields:

- ExecSys - The execution system name.

READER

Readers

Renamed data fields:

- Jobclass - Jobc was renamed and expanded to Jobclass to support the eight-character job classes.

Commands Removed (JES)

The following command has been removed.

APPCOUTQ - Use the new JTRANQUE command to display transaction output.

Option for CICS

The CA SYSVIEW Option for CICS has been enhanced.

CA OPS/MVS Event Notification

When a threshold or state exception triggers, you can take various actions. One of these actions include notifying CA SYSVIEW of the exception event.

Event notification triggers the)API rule CAGSVY0001.

The following table provides the available REXX variables and their values.

REXX Variable	Value
API.APPLICATION	SYSVIEW
API.VERSION	13.5a
API.LEVEL	00000713
API.ID	CAGSVY0001
API.COLOR	Alert color: 0 - Default 1 - Green 2 - Blue 3 - Red 4 - White 5 - Pink 6 - Yellow 7 - Turquoise
API.GROUP	Variable metric group name
API.NAME	Variable metric name
API.DESCRIPTION	Variable metric description
API.RSCE1	Associated resource
API.RSCE2	Associated resource
API.STATUS	Current status
API.VALUE	Current value
API.ELAPSED (New REXX variable)	Elapsed time after notification
API.TEXT	Exception message text

WTO Console Messages (CICS)

CA SYSVIEWcan write many different messages to the console or job log using a WTO. Most messages are dynamically built at runtime with data that is inserted into predefined messages templates.

In most cases, extra blanks are removed from the message before writing the messages to the log using a WTO.

The maximum message length for a single-line WTO is 126 characters. If the total length of the dynamically built message is greater than 126 characters, the message gets written to the log using a multiple line WTO.

A multiple line WTO has a limit of 71 characters per line. The original message text is dynamically split into multiple lines that are based on blank characters in the message text. An attempt is made to use as much of the 71 characters available on each message line.

The following lines of messages are written as a multiple line WTO. The number of messages lines and data on each line can vary based on dynamic insert data.

```
GSVC100W <type> [set the product group or family] <metric> <rsce1> <rsce2> <oldstat>
<newstat> V= <value> W= <warning> P= <problem> <ruletype> <elapsed> <jobname> <tran>
<task#> <term> <user> Desc='<description>
```

Commands Added to the Option for CICS

The CA SYSVIEW Option for CICS has been enhanced to include the following new commands:

CCONN

Provides information about the CICS connections.

CPROFILE

Provides information about the CICS profiles.

Commands Enhanced

The following enhancements have been made to existing commands.

CALERTS

CICS exception alerts

New syntax parameters:

- ACK - Displays the alerts that are acknowledged and not acknowledged.
- NOACK - Does not display acknowledged alerts.

New line commands:

- ACK - Invokes the METRIC command to acknowledge the alert.
- CLR - Invokes the METRIC command to clear an acknowledged alert.

New data fields:

- Ack - Indicates that the alert has been acknowledged.
- Pri - Indicates the relative priority of the exception.
- AckElaps - Indicates the elapsed time after acknowledging the alert.
- AckDate - Indicates the date that the alert was acknowledged.
- AckTime - Indicates the time that the alert was acknowledged.

CDATAMON

CICS data monitoring statistics

New data fields:

- GPvtLim - The maximum amount of grande storage that can be allocated and internally managed.
- GPvtSize - The current amount of grande storage that has been allocated from MVS and is being internally managed.
- GPvtExt - The number of allocations of grande storage that have been to MVS.
- GPvtPri - The primary grande storage allocation size.
- GPvtSec - The secondary grande storage allocation size.
- AllocSize - The amount of currently allocated or in use storage.
- AllocHWM - The high watermark of allocated storage.
- AllocCnt - The number of allocated storage blocks.
- FreeSize - The amount of storage currently free or available for use.
- FreeMax - The maximum contiguous block of free storage.
- FreeCnt - The number of free storage blocks.

CDUMPMGT

CICS dump management

New syntax parameter:

- DELETE - Deletes the definitions.

  Available parameters:

  - tranid - Transaction ID
  - program - Program name
  - dumpcode - Dump or abend code

New line command:

- DELETE - Deletes the selected definition.

New data fields:

- AbNotify - The abend notify data field specifies whether to write a message to the job log whenever a CICS transaction abends.

  When an abend occurs, an attempt is made to match the abending transaction to an entry in this table. If a match is found, the Abend Notify method determines the method to write the messages. If a match is not found, the default configuration option is used. The ABEND-NOTIFICATION parameter in the parmlib member CICSOPTS specifies the default.

  Valid values are:

  - NONE - No message gets written.
  - SHORT - Writes a single GSVC201E message. The following information is included:

    Transaction ID

    Task number

    Abend code

    Program

    Request ID

    Resource
  - LONG - Writes a set of messages. The following information is included:

    Transaction ID

    Task number

    Abend code

    Program

    Request ID

    Resource

PSW

Access registers

General registers

CICS

Set the target CICS

Deleted syntax parameter:

- SSID - This parameter is no longer needed with the removal of MVS subsystems.

CICSLIST

CICS address spaces

New data fields:

- ExecStage - The execution stage of the CICS region.

  Possible values are:

  - INACTIVE - Inactive
  - SWAPPED - Logically swapped
  - INITIALIZE - Initialization
  - INIT-1st - First stage initialization
  - INIT-2nd - Second stage initialization
  - INIT-3rd - Third stage initialization
  - EXECUTING - Executing
  - CANCELED - Shut down due to cancel
  - CANCELED-1st - Shut down due to cancel, quiesce first stage
  - CANCELED-2nd - Shut down due to cancel, quiesce second stage
  - SHUTIMM - Immediate shutdown, first stage
  - SHUTIMM-1st - Immediate shutdown, second stage
  - SHUTIMM-2nd - Immediate shutdown, third stage
  - SHUTDOWN - Shut down, first stage
  - SHUTDOWN-1st - Shut down, second stage
  - SHUTDOWN-2nd - Shut down, third stage

Renamed data field:

- Jobclass - C was renamed and expanded to support eight-character job classes.

New line command:

- CANCEL - Invokes the ASCANCEL command to cancel the selected address space.

  `ASCANCEL asid CONFIRM`

CLIBS

CICS program statistics

New line command:

- LMID - Invokes the LISTDIR command with the MODID keyword for the selected data set. The standard CA module identification information for all members in the data set displays.

CPROGRAM

CICS program statistics

New data fields:

- API - Specifies the API for the program to use.
- Dataset - The data set name from which a module has been loaded. Displays the data set name for those modules that are currently loaded from DFHRPL or a CICS dynamic library.
- ExecSet - Specifies whether CICS links to and runs the program as if it were running in a remote CICS region.

CSTATES

CICS state definition

New data fields:

- Pri - The priority of an exception. Use priority to sort exceptions within the same status levels, such as PROBLEM.
- TimeBeg - The beginning time that the definition is eligible to be applied. Specify the time using the HH:MM:SS format. You can define the time value using any of the following values:

  `12AM | 1AM | 2AM | ... | 11AM`

  `12PM | 1PM | 2PM | ... | 11PM`

  `NOON | MIDNIGHT`
- TimeEnd - The end time that the definition is eligible to be applied. Specify the time using the HH:MM:SS format. You can define the time value using any of the following values:

  `12AM | 1AM | 2AM | ... | 11AM`

  `12PM | 1PM | 2PM | ... | 11PM`

  `NOON | MIDNIGHT`
- TimeRng - The time range or interval in which the definition is eligible to be used.
- Sun, Mon, Tue, Wed, Thu, Fri, Sat - Specifies that the exception is eligible to execute on the specified day. To make a day eligible, type the three-character name in the appropriate field or enter YES. To make the day ineligible, type NO in the appropriate field.
- SMTWTFS - The days of eligibility.
- Active - The current active status of the definition. Possible values are:
  - ACTIVE - The definition is currently eligible for processing.
  - INACTIVE - The definition is currently not eligible for processing.
- Disabled - Indicates whether the definition is currently enabled or disabled. If an exception definition is disabled, the definition is not used.

Renamed data field:

- IMOD - Run was renamed.

Deleted subcommand:

- DELETE - The DELETE subcommand has been removed. Use the DELETE line command to delete the definition.

CTERMS

CICS terminal statistics

New data fields:

- TT - Displays the terminal type code.
- TermType - Displays the terminal type.

CTHRESH

CICS threshold definitions

New data fields:

- Pri - The priority of an exception. Use priority to sort exceptions within the same status levels, such as PROBLEM.
- TimeBeg - The beginning time that the definition is eligible to be applied. Specify the time using the HH:MM:SS format. You can define the time value using any of the following values:

  `12AM | 1AM | 2AM | ... | 11AM`

  `12PM | 1PM | 2PM | ... | 11PM`

  `NOON | MIDNIGHT`
- TimeEnd - The end time that the definition is eligible to be applied. Specify the time using the HH:MM:SS format. You can define the time value using any of the following values:

  `12AM | 1AM | 2AM | ... | 11AM`

  `12PM | 1PM | 2PM | ... | 11PM`

  `NOON | MIDNIGHT`
- TimeRng - The time range or interval in which the definition is eligible to be used.
- Sun, Mon, Tue, Wed, Thu, Fri, Sat - Specifies that the exception is eligible to execute on the specified day. To make a day eligible, type the three-character name in the appropriate field or enter YES. To make the day ineligible, type NO in the appropriate field.
- SMTWTFS - The days of eligibility.
- Active - The current active status of the definition. Possible values are:
  - ACTIVE - The definition is currently eligible for processing.
  - INACTIVE - The definition is currently not eligible for processing.
- Disabled - Indicates whether the definition is currently enabled or disabled. If an exception definition is disabled, the definition is not used.

Renamed data field:

- IMOD - Run was renamed.

Deleted subcommand:

- DELETE - The DELETE subcommand has been removed. Use the DELETE line command to delete the definition.

CTRANS

CICS transaction summary

New data field:

- Profile - The name of the terminal profile to use.

New line command:

- PROFILE - Invokes the CPROFILE command selecting the transactions profile name.

CTRANOPT

CICS transaction options

New syntax parameters:

- TRANLOG - Sends a transaction record to a CICS logger task running in the main services address space so that the record is written to the defined log stream.
- NOTRANLOG - No data from this transaction gets logged except when overridden by one of the following CICSOPTS configuration options:
  - TRANSACTION-LOG-IF-ABEND
  - TRANSACTION-LOG-IF-CICSEXC
  - TRANSACTION-LOG-IF-THRESHOLD
- SMF - Sends a transaction record to a CICS logger task running in the main services address space so that the record is written to SMF.
- NOSMF - Data from this transaction is not logged except when overridden by one of the following CICSOPTS configuration options:
  - TRANSACTION-LOG-IF-ABEND
  - TRANSACTION-LOG-IF-CICSEXC
  - TRANSACTION-LOG-IF-THRESHOLD
- DYNEXIT - Sends a transaction record to a CICS logger task running in the main services address space so that the record is passed to the dynamic exit GSVX.CICSTRAN.
- NODYNEXIT - Data from this transaction is not passed except when overridden by one of the following CICSOPTS configuration options:
  - TRANSACTION-LOG-IF-ABEND
  - TRANSACTION-LOG-IF-CICSEXC
  - TRANSACTION-LOG-IF-THRESHOLD
- WILYAPM - Sends the transaction information to a CICS logger task running in the main services address space so that the information is sent to Wily APM for transaction tracing. The information is collected and sent only when the Wily APM product has requested a transaction trace.
- NOWILYAPM - The transaction information is not sent except when overridden by one of the following CICSOPTS configuration options:
  - TRANSACTION-LOG-IF-ABEND
  - TRANSACTION-LOG-IF-CICSEXC
  - TRANSACTION-LOG-IF-THRESHOLD

New data fields:

- TranLog - Specifies if a transaction record is sent to a CICS logger task running in the main services address space so that the record is written to the defined log stream.
- SMF - Specifies if a transaction record is sent to a CICS logger task running in the main services address space so that the record is written to SMF.
- DynExit - Specifies if a transaction record is sent to a CICS logger task running in the main services address space so that the record is passed to the dynamic exit GSVX.CICSTRAN.
- WilyAPM - Specifies if transaction information is sent to a CICS logger task running in the main services address space so that the information is sent to Wily APM for transaction tracing. The information is collected and sent only when the Wily APM product has requested a transaction trace.
- Internal - Specifies if the transaction option definition was created internally. You cannot modify internally created definitions.

New data field:

- Log - Specifies if a transaction record is logged.

CWAITS

CICS degradation analysis

New data fields:

- Metric - Displays the data collection metric/variable name.
- DFHGroup, MCTNum - If the metric is related to a CICS transaction performance data metric, the displayed values are the associated CICS performance data name as defined in the CICS Monitor Control Table. Additional information can be found in the IBM *CICS Performance Guide*. If the metric is not related to a CICS performance data metric, the DFHGroup field displays a "*" and the MCTNum field is blank.

Transaction Data Collection Threshold Metrics

The data collection threshold metrics have been enhanced to include the following new transaction variable:

WMQASRBT

Displays the WebSphere MQ API SRB time.

CICS Dump Management—Parmlib Member CICSDMPM

You can write a set of messages to the CICS job log whenever a transaction abends. The new abend notification option provides the ability to specify the level of detail to provide. Specify the level of detail by transaction ID.

New notification option:

- AbNotify - The abend notify data field specifies whether to write a message to the job log whenever a CICS transaction abends.

  When an abend occurs, an attempt is made to match the abending transaction to an entry in this table. If a match is found, the Abend Notify method determines the method to write the messages. If a match is not found, the default configuration option is used. The ABEND-NOTIFICATION parameter in the parmlib member CICSOPTS specifies the default.

  Valid values are:

  - NONE, NO - No message is written.
  - SHORT, YES - Writes a single GSVC201E message that can include the following information:
    - Transaction ID
    - Task number
    - Abend code
    - Program
    - Request ID
    - Resource
  - LONG - Writes a set of messages that can include the following information:
    - Transaction ID
    - Task number
    - Abend code
    - Program
    - Request ID
    - Resource
    - PSW
    - Access registers
    - General registers

Configuration Options—Parmlib Member CICSOPTS

The configuration options member CICSOPTS has been enhanced to include the following options:

DATALIB-AUTO-SAVE

Specify whether automatically save configuration definitions to the persistent data storage (DATALIB) during initialization and termination.

At the end of initialization, configuration information that was obtained by reading the definitions from a PARMLIB member (COLD start) are automatically saved to the persistent data store. Saving definitions to the persistent data store lets you do a WARM start.

During termination, configuration information that has been altered or updated after initialization is automatically saved to the persistent data store so that the configuration can be reused upon the next WARM start.

Default: YES

If NO is specified, configuration can be saved manually.

The information contained in the following PARMLIB members is saved to the persistent data store:

- CICSARTM
- CICSCNCL
- CICSDMPM
- CICSGRPS
- CICSSCHD
- CICSSTAT
- CICSTHRS
- CICSTOPT

MESSAGE-MLWTO-ENABLED

Enables messages that are written to the console or job log using a WTO request to be written as a multiple line WTO. A single-line WTO message is limited to 126 characters.

Setting MESSAGE-MLWTO-ENABLED to NO truncates any message longer than 126 characters.

Default: YES

MESSAGE-MLWTO-INDENT-CHARACTERS

If multiple line WTO messages are enabled, you can indent the second through nth lines to enhance readability.

- Default: 9
- Minimum: 0 no indentation
- Minimum: 16

Example messages with MESSAGE-MLWTO-INDENT-CHARACTERS = 0

```
GSVC100W (TPPT) TRANEND TRANS LIFETIME CEMT U032 NONE PROBLEM V=00:01:24 W=
7.500000 P= 10.00000 UPPER 0.000000 SYSVCICS CEMT 71
```

Example messages with MESSAGE-MLWTO-INDENT-CHARACTERS = 9

```
GSVC100W (TPPT) TRANEND TRANS LIFETIME CEMT U032 NONE PROBLEM V=00:01:24 W=
7.500000 P= 10.00000 UPPER 0.000000 SYSVC670 CEMT 71
```

Example messages with MESSAGE-MLWTO-INDENT-CHARACTERS = 16

```
GSVC100W (TPPT) TRANEND TRANS LIFETIME CEMT U032 NONE PROBLEM V= 00:01:24 W=
7.500000 P= 10.00000 UPPER 0.000000 SYSVCICS CEMT 71
```

MESSAGE-TASKNAME-INSERT

Inserts the task name after the message ID.

Default: YES

Example messages with MESSAGE-TASKNAME-INSERT = YES

```
GSVC101I (XDIS) USR1234 has issued a CANCEL for the transaction CEMT GSVC102I
(XDIS) CANCEL Tran CEMT Task 124 WaitType ZCIOWAIT

GSVC150W (GSVI) Function NORMAL_CANCEL Response 02 EXCEPTION
```

Example messages with MESSAGE-TASKNAME-INSERT = NO

```
GSVC101I USR1234 has issued a CANCEL for the transaction CEMT GSVC102I CANCEL
Tran CEMT Task 124 WaitType ZCIOWAIT

GSVC150W Function NORMAL_CANCEL Response 02 EXCEPTION
```

MONITOR-ENVIRONMENT-REUSE

Specifies if the monitoring environment is retained and available for reuse when the data collector is terminated.

Portions of the monitoring environment are maintained in E-CSA storage. This storage is reused. By setting this option to NO, the storage that is maintained for ongoing statistics is freed at termination.

Default: YES

PERFORMANCE-DATA-DB2-BY-PROGRAM

Specifies if the unique program that made the request collects the DB2 segments.

The unique segment key is made up of the following keys:

- Program
- Type
- Statement

If set to NO, then the Program portion of the key is set to "*".

PERFORMANCE-DATA-DB2-BY-STMT

Specify if a unique request program statement number collects DB2 segments.

The unique segment key is made up of the following keys:

- Program
- Type
- Statement

If set to NO, then the statement portion of the key is set to 0.

PERFORMANCE-DATA-DB2-BY-TYPE

Specifies if a unique request type collects DB2 segments.

The unique segment key is made up of the following keys:

- Program
- Type
- Statement

If set to NO, then the Type portion of the key is set to "*".

PERFORMANCE-DATA-SEGLIMIT-DB2

Specifies the number of unique segments that are collected per transaction for DB2 requests.

If more than "n" unique resource segments are found, the all additional segments are collected with a resource key of:

- Program - *
- Type - *
- Statement - 0
- Minimum = 1
- Maximum = 100
- Default = 25

TERMINAL-STATES-CONSOLE

Specifies whether to perform terminal state collection for console terminal definitions.

Default: YES

This option requires the data collection function STATE-TERMINALS to be active in the Event Scheduler.

TERMINAL-STATES-MRO

Specifies whether to perform terminal state collection for MRO terminal definitions.

Default: YES

This option requires the data collection function STATE-TERMINALS to be active in the Event Scheduler.

TERMINAL-STATES-VTAM

Specifies whether to perform terminal state collection for VTAM terminal definitions.

Default: NO

This option requires the data collection function STATE-TERMINALS to be active in the Event Scheduler.

Transaction Options—Parmlib Member CICSTOPT

The Transaction Options member CICSOPTS has been enhanced to include the following new keyword options:

TRANLOG

A transaction record is sent to a CICS logger task running in the main services address space so that the record can be written to the defined log stream.

NOTRANLOG

Data from this transaction is not logged except when one of the following CICSOPTS configuration options overrides the data:

- TRANSACTION-LOG-IF-ABEND
- TRANSACTION-LOG-IF-CICSEXC
- TRANSACTION-LOG-IF-THRESHOLD

Online statistics are maintained. Threshold processing is performed unless the NOTHRESH option is coded.

SMF

A transaction record is sent to a CICS logger task running in the main services address space so that the record can be written to SMF.

NOSMF

Data from this transaction is not logged except when one of the following CICSOPTS configuration options overrides the data:

- TRANSACTION-LOG-IF-ABEND
- TRANSACTION-LOG-IF-CICSEXC
- TRANSACTION-LOG-IF-THRESHOLD

DYNEXIT

A transaction record is sent to a CICS logger task running in the main services address space so that the record can be passed to the dynamic exit GSVX.CICSTRAN.

NODYNEXIT

Data from this transaction is not passed except when one of the following CICSOPTS configuration options overrides the data:

- TRANSACTION-LOG-IF-ABEND
- TRANSACTION-LOG-IF-CICSEXC
- TRANSACTION-LOG-IF-THRESHOLD

WILYAPM

Transaction information is sent to a CICS logger task running in the main services address space so that the information can be sent to Wily APM for transaction tracing. The information is collected and sent only when the Wily APM product has requested the transaction trace.

NOWILYAPM

Transaction information is not sent except when one of the following CICSOPTS configuration options overrides the data:

- TRANSACTION-LOG-IF-ABEND
- TRANSACTION-LOG-IF-CICSEXC
- TRANSACTION-LOG-IF-THRESHOLD

The following keywords have been removed:

LOG

Logs a transaction record.

NOLOG

Do not log a transaction record.

CICS Transaction Options Definitions

Replaced and removed the keywords LOG and NOLOG by new keywords that expand the control over the logging of transaction records and information. Transaction option definitions that are stored in the persistent data store (DATALIB) are automatically converted to the new definition structure. If the prior definition contained the keyword LOG, the following keyword options are used to duplicate the prior definition:

- TRANLOG
- SMF
- DYNEXIT
- WILYAPM

If the prior definition contained the keyword NOLOG, the following keyword options are used to duplicate the prior definition:

- NOTRANLOG
- NOSMF
- NODYNEXIT
- NOWILYAPM

If the LOG and NOLOG keywords are found in parmlib definition, they are also processed and converted.

Virtual Storage Constraint Relief

All module and permanent storage is now allocated in 31- or 64-bit storage.

Most storage that is used for monitoring the CICS region using the CA SYSVIEW for CICS Data Collector is located in 64-bit storage.

Configurations Options Member SYSVIEW

The system configuration options member is used to set configuration options during the initialization of CA SYSVIEW. Put the system configuration options member in the concatenation of the system parmlib data sets.

Specify the subsystem ID if the CA SYSVIEW CICS Data Collector is connecting to a CA SYSVIEW subsystem ID other than the default GSVX.

The default subsystem ID can be specified or overridden using the following methods:

- Starting the CICS data collector

  The transaction ID for starting the CICS data collector is GSVS.

  ```
  GSVS <initialization parameters>
  ```

  For example:

  ```
  GSVS GSVI=tran,USERID=userid,START=start,SSID=ssid
  ```

- Restarting the CICS data collector

  The transaction ID for stopping and restarting the CICS data collector is GSVT.

  ```
  GSVT RESTART <initialization parameters>
  ```

  For example:

  ```
  GSVT RESTART GSVI=tran,USERID=userid,START=start,SSID=ssid
  ```

- The parameters can also be specified as part of the SIT INITPARMs.

  For example:

  ```
  INITPARM=(DFHMQPRM='SN=CSQ2,IQ=CICS.SYSVC660.INITQ',
  DFHDBCON='00,SVPB',GSVCGSVS='GSVI=*,USERID=*,START=*,SSID=*'),
  ```

CA DATACOM Option

The CA SYSVIEW CA DATACOM Option has been enhanced.

Commands Added

The CA SYSVIEW CA DATACOM Option has been enhanced to include the following new command:

DCLOCKS

Displays the Datacom MUF locks information.

DCSYSOUT

Displays the Datacom MUF SYSOUT information.

DCBUFCON

Displays the Datacom MUF buffer pool contents.

Commands Enhanced

The following enhancement has been made to existing commands.

DCKEYS

Displays Datacom directory keys

New data fields:

- UsesRAAT - A count of initial commands to locate and read one record at a time against this key definition. The count increments by one for every LOC/RED/RDU/CNT command with KY/KG/KR/KL/KX/KI or GSETL command.
- UsesCBS - Provides a general key usage count, the times a SELFR command selected this key for a traversal set. This count does not include population counting or key usage to determine if the key is used in the completion of the request. This count does not include use of the command by SQL.
- UsesSQL - Provides a general key usage count, the times a SELFR command selected this key for a traversal set. This count does not include population counting or key usage to determine if the key is used in the completion of the request. This count only includes use of the command by SQL.

DCLIST

List of monitored Datacom jobs

Renamed data fields:

- Jobclass - C was renamed and expanded to support the eight-character job classes.

DCTABLES

Displays CA DATACOM directory tables

New data fields:

- Jobclass - Renamed and expanded C to support eight-character job classes.
- Trigger - Indicates whether the table has one or more SQL triggers.
- Partition - Indicates whether the table is a partition.
- FullName - Indicates the full parent name, if a partition.
- FullParSQLauth - Indicates the full parent SQL AUTHID, if a partition.
- FullParSQLname - Indicates the full parent SQL name, if a partition.
- AnyName - Indicates any parent name, if a partition.
- AnyParSQLauth - Indicates any parent SQL AUTHID, if a partition.
- AnyParSQLname - Indicates any parent SQL name, if a partition.

DB2

The CA SYSVIEW DB2 Option has been enhanced.

Commands Added to DB2

The CA SYSVIEW Option for DB2 has been enhanced to include the following new commands:

- DB2 - Sets the target DB2 subsystem.
- DBBPOOLS - DB2 buffer pools
- DBDSETS - DB2 open data sets
- DBERRMSG - DB2 error message
- DBLOGAL - DB2 log allocation
- DBLOGCKP - DB2 log checkpoint
- DBPRMBP - DB2 buffer pool parameters
- DBPRMGBP - DB2 group buffer pool parameters
- DBSQLDY - DB2 dynamic SQL cache
- DBTHACT - DB2 active threads

Commands Enhanced

The following enhancements have been made to existing commands.

DB2LIST

DB2 subsystem list

New syntax parameters:

- ALL- Displays all DB2 subsystems that the agent CA Insight for DB2 is monitoring.
- GROUP - Specifies that an argument is to follow specifying the group name containing the list of DB2 subsystems to display. The list of available groups with type DB2SSID can be found on the GROUPS command.

  A group name of "*" can be entered to indicate that no group processing is required.
- MONitored - Displays only DB2 subsystems that the agent CA Insight for DB2 is monitoring.

New data fields:

- Mon - Indicates whether the DB2 subsystem monitors CA Insight for DB2.
- Conn - The status of the connection to the agent CA Insight for DB2 XNET.
- XnetDirId - The XNET director ID value for the connection to the agent CA Insight for DB2 XNET.
- XnetSock - The XNET director TCP socket number for the connection to the agent CA Insight for DB2 XNET.

Renamed data fields:

- Jobclass - Jc was renamed and expanded to support eight character job classes.
- New line commands:
- IPLISTEN - Invokes IPLISTEN for jobnames that contain the DB2 SSID.
- IPTCONN - Invokes IPTCONN for jobnames that contain the DB2 SSID.
- START - Invokes the MVS command START DB2 using the command prefix for this DB2 subsystem.
- STOP - Invokes the XMVS command STOP DB2 MODE(QUIESCE) using the command prefix for this DB2 subsystem.
- STOPFOR - Invokes the XMVS command STOP DB2 MODE(FORCE) using the command prefix for this DB2 subsystem.

Option for IMS

The CA SYSVIEW Option for IMS has been enhanced.

IMS Transaction Tracing for CA APM Integration

CA SYSVIEW extends CA APM Introscope Transaction Tracing into IMS. The CA APM integration increases end-to-end visibility to isolate transaction performance problems.

IMS Data Collection - Buffer Pools

A new data collection event function has been added for IMS buffer pools. The CA SYSVIEW Event Scheduler controls the data collection event and schedule.

New Event Scheduler function:

IMSDATA-BUFPOOLS

The new event is dynamically added to existing schedules during the initialization of the IMS data collection task IMSDATA.

The Event Scheduler definition has been added to the parmlib member SCHDIMS.

```
DEFINE IMS-BUFPOOLS
          GROUP      IMSDATA
          DESC       'IMS data collection - Buffer Pools      '
          TYPE       RECUR
          ALLDAYS
          DATEBEGIN  *         DATEEND *
          TIMEBEGIN  MIDNIGHT  TIMEEND *
          EVERY      1MINUTE
          LIMIT      NOLIMIT
          FUNCTION   IMSDATA-BUFPOOLS
          PARMS      *
          ENABLED
    ENDDEFINE
```

IMS Transactions Monitoring

Nonrecoverable Inquiry and Synchronous OTMA Transactions

CA SYSVIEW now creates Transaction History records (SMF 255 subtype 34) for Nonrecoverable Inquiry and Synchronous OTMA (Open Transaction Manager Access) transactions. Previously, these transactions were only summarized in the Region Accounting records (SMF 255 subtype 35). This change leads to an increase in the volume of Transaction History records.

CA OPS/MVS Event Notification

When a threshold or state exception triggers, you can take various actions. One of these actions include notifying CA OPS/MVS of the exception event.

Event notification triggers the)API rule CAGSVP0001.

The following table provides the available REXX variables and their values.

REXX Variable	Value
API.APPLICATION	SYSVIEW
API.VERSION	13.5a
API.LEVEL	00000713
API.ID	CAGSVP0001
API.COLOR	Alert color: 0 - Default 1 - Green 2 - Blue 3 - Red 4 - White 5 - Pink 6 - Yellow 7 - Turquoise
API.GROUP	Variable metric group name
API.NAME	Variable metric name
API.DESCRIPTION	Variable metric description
API.IMSID	IMS subsystem ID
API.RESOURCE	Associated resource
API.STATUS	Current status
API.VALUE	Current value
API.ELAPSED (New REXX variable)	Elapsed time after notification
API.TEXT	Exception message text

Commands Added

The Option for IMS has been enhanced to include the following new commands:

IMSOMAT

Displays IMS OM audit trail.

IMSOMAX

Displays IMS OM audit response record.

Commands Enhanced

The following enhancements have been made to existing commands.

IMSALERT

IMS exception alerts.

New syntax parameters:

- ACK - Displays the alerts that are acknowledged and not acknowledged.
- NOACK - Does not display acknowledged alerts.
- XSYStem, XSData - This forces cross-system data collection be set on for this execution. The current profile setting of XSDATA is maintained.
- NOXSYStem, NOXSData - This forces cross-system data collection be set off for this execution. The current profile setting of XSDATA is maintained.

New line commands:

- ACK - Invokes the METRIC command to acknowledge the alert.
- CLR - Invokes the METRIC command to clear an acknowledged alert.

New data fields:

- Ack - Indicates that the alert has been acknowledged.
- Pri - Indicates the relative priority of the exception.
- AckElaps - Indicates the elapsed time after acknowledging the alert.
- AckDate - Indicates the date that the alert was acknowledged.
- AckTime - Indicates the time that the alert was acknowledged.

Renamed data fields:

- Resource - Argument was renamed.

IMSDATA

Sets the IMS data collection options.

New parameter:

- IMSDATA-BUFPOOLS - Controls threshold processing for the data collection type.

New syntax parameters:

`IMSDATA THRESH` *`datatype`*

- *datatype* - Specifies the data collection type. Valid values are:
  - IMSDATA-BUFPOOLS
  - IMSDATA-POOLS
  - IMSDATA-SYSTEM

- IMSDATA-TRANSUM

IMSLOCKS

Displays IMS IRLM locks.

New data fields:

- DCB - The database data set DCB number.
- RBA - The database RBA.

IMSOSAM

Displays IMS OSAM statistics.

New information fields:

- Max - The Max amount if sequential buffer storage.
- Free - The amount of available sequential buffer storage.
- Curr - The currently used amount of sequential buffer storage.
- High - The high-water mark of used sequential buffer storage.

IMSSTATE

Displays the IMS state definition.

New syntax parameters:

- SAVE - Saves definitions to the persistent data store.

New data fields:

- Pri - The priority of an exception. Use priority to sort exceptions within the same status levels, such as PROBLEM.
- TimeBeg - The beginning time that the definition is eligible to be applied. Specify the time using the HH:MM:SS format. You can define the time value using any of the following values:

  ```
  12AM | 1AM | 2AM | ... | 11AM

  12PM | 1PM | 2PM | ... | 11PM

  NOON | MIDNIGHT
  ```

- TimeEnd - The end time that the definition is eligible to be applied. Specify the time using the HH:MM:SS format. You can define the time value using any of the following values:

  ```
  12AM | 1AM | 2AM | ... | 11AM

  12PM | 1PM | 2PM | ... | 11PM

  NOON | MIDNIGHT
  ```

- TimeRng - The time range or interval in which the definition is eligible to be used.

- Sun, Mon, Tue, Wed, Thu, Fri, Sat - Specifies that the exception is eligible to execute on the specified day. To make a day eligible, type the three-character name in the appropriate field or enter YES. To make the day ineligible, type NO in the appropriate field.
- SMTWTFS - The days of eligibility.
- Active - The current active status of the definition. Possible values are:
  - ACTIVE - The definition is currently eligible for processing.
  - INACTIVE - The definition is currently not eligible for processing.
- Disabled - Indicates whether the definition is currently enabled or disabled. If an exception definition is disabled, the definition is not used.

Renamed data fields:

- IMOD - Run was renamed.

Deleted subcommands:

- DELETE - The DELETE subcommand has been removed. Use the DELETE line command to delete the definition.

IMSTIMES

Displays the IMS transaction times.

New data fields:

- OSAWait - The OSAM I/O IWait time.

Deleted data fields:

- DMBLoad - The DMB block loader time
- FmtBPool - The format buffer pool time
- MFSBlock - The MFS block IWait time
- MFSDir - The MFS dir IWait time
- MPPSched - The MPP schedule time
- PSBLoad - The PSB block loader time
- QMGRIO - The QMGR I/O IWait time
- QMGRSnap - The QMGR SNAPQ IWait time
- SchedCnt - The transaction schedules
- VSOCastO - The VSO area castout time
- VSOLoad - The VSO preload time

IMSTHRSH

Displays the IMS threshold definitions.

New syntax parameters:

- SAVE - Saves definitions to the persistent data store.

New data fields:

- Pri - The priority of an exception. Use priority to sort exceptions within the same status levels, such as PROBLEM.
- TimeBeg - The beginning time that the definition is eligible to be applied. Specify the time using the HH:MM:SS format. You can define the time value using any of the following values:

  ```
  12AM | 1AM | 2AM | ... | 11AM

  12PM | 1PM | 2PM | ... | 11PM

  NOON | MIDNIGHT
  ```

- TimeEnd - The end time that the definition is eligible to be applied. Specify the time using the HH:MM:SS format. You can define the time value using any of the following values:

  ```
  12AM | 1AM | 2AM | ... | 11AM

  12PM | 1PM | 2PM | ... | 11PM

  NOON | MIDNIGHT
  ```

- TimeRng - The time range or interval in which the definition is eligible to be used.
- Sun, Mon, Tue, Wed, Thu, Fri, Sat - Specifies that the exception is eligible to execute on the specified day. To make a day eligible, type the three-character name in the appropriate field or enter YES. To make the day ineligible, type NO in the appropriate field.
- SMTWTFS - The days of eligibility.
- Active - The current active status of the definition. Possible values are:
  - ACTIVE - The definition is currently eligible for processing.
  - INACTIVE - The definition is currently not eligible for processing.
- Disabled - Indicates whether the definition is currently enabled or disabled. If an exception definition is disabled, the definition is not used.

Renamed data fields:

- IMOD - Run was renamed.

Deleted subcommands:

- DELETE - The DELETE subcommand has been removed. Use the DELETE line command to delete the definition.

IMSTRANS

Displays IMS transaction codes.

New data field

- Transtat - The transaction level statistics indicator.

IMSVARS

Displays the available IMS monitor variables.

Renamed data fields:

- Resource - Argument was renamed.

Data Collection Threshold Metrics Added

The following threshold metrics were added to enhance data collection.

IMBPFREE

Buffer pool free

Resource: imsbufp

IMBPOVER

Buffer pool overflow

Resource: imsbufp

IMBPSIZE

Buffer pool size

Resource: imsbufp

IMBPUSE%

Buffer pools used percent

Resource: imsbufp

IMBPUSED

Buffer pool used

Resource: imsbufp

IMSLARCH

Archive required OLDS data sets

Resource: none

IMSLBUFW

Output buffer waits during checkpoint

Resource: none

IMSLCHKW

SLOG CHKW requests

Resource: none

IMSLERR

OLDS data set with I/O errors

Resource: none

IMSLFULL

Full OLDS data sets

Resource: none

IMSLINAC

Inactive OLDS data sets

Resource: none

IMSLREAD

SLOG read requests

Resource: none

IMSLSTOP

Stopped OLDS data sets

Resource: none

IMSLWRIT

SLOG write requests

Resource: none

IMTROIWC

IMS OSAM IWAIT count

Resource: imstran

IMTROIWT

IMS OSAM IWAIT time

Resource: imstran

Data Collection Transaction Metrics Deleted

The following threshold metrics were deleted.

- IMTRBSCC - IMS BMP schedule count
- IMTRBSCT - IMS BMP schedule time
- IMTRBTMC - IMS BMP term count
- IMTRBTMT - IMS BMP term time
- IMTRDBLC - IMS DMB block loader count
- IMTRDBLT - IMS DMB block loader time
- IMTRFBIC - IMS Format buffer pool count
- IMTRFBIT - IMS Format buffer pool time
- IMTRMBIC - IMS MFS block IWAIT count
- IMTRMBIT - IMS MFS block IWAIT time
- IMTRMDQC - IMS MPP DQ count
- IMTRMFIC - IMS MFS dir IWAIT count
- IMTRMFIT - IMS MFS dir IWAIT time
- IMTRMSCC - IMS MPP schedule count
- IMTRMSCT - IMS MPP schedule time
- IMTRMTMC - IMS MPP term count
- IMTRMTMT - IMS MPP term time
- IMTRPBLC - IMS PSB block loader count
- IMTRPBLT - IMS PSB block loader time
- IMTRQCNT - IMS Queue count
- IMTRQIWC - IMS QMGR I/O IWait count
- IMTRQIWT - IMS QMGR I/O IWait time
- IMTRQSQC - IMS QMGR SNAPQ IWAIT count
- IMTRQSQT - IMS QMGR SNAPQ IWAIT time
- IMTRSCHD - IMS transaction schedules
- IMTRVSCC - IMS VSO area castout count
- IMTRVSCT - IMS VSO area castout time
- IMTRVSOC - IMS VSO preload count
- IMTRVSOT - IMS VSO preload time

IMS Options Parmlib Member IMS

The following option has been removed from the parmlib member IMS:

AUTO-SWITCH-IMSCMD

This functionality is now included in the SET IMSTGTDEF command.

IMS Logger Options Parmlib Member IMSLOGR

The following options have been removed from the parmlib member IMSLOGR:

SKIP-DBT-SLOG-RECORDS

Specifies if the IMSLOGR task skips DBT written DC Monitor records.

Default: NO

SKIP-DBT-DLI-SLOG-RECORDS

Specifies if the IMSLOGR task skips DBT written DLI DC Monitor records.

Default: YES

CA ROSCOE Component

For CA ROSCOE, CA SYSVIEW monitors and lets you display information about executing its jobs. This component has been enhanced.

Commands Enhanced

The following enhancements have been made to existing commands.

ROSLIST

Lists the monitored CA ROSCOE jobs.

Renamed data fields:

- Jobclass - C was renamed and expanded to support the eight-character job classes.

TCP/IP Option

The TCP/IP Option for CA SYSVIEW has been enhanced.

CA OPS/MVS Event Notification

When a threshold or state exception triggers, you can take various actions. One of these actions include notifying CA OPS/MVS of the exception event.

Event notification triggers the)API rule CAGSVN0001.

The following table provides the available REXX variables and their values.

REXX Variable	Value
API.APPLICATION	SYSVIEW
API.VERSION	13.5a
API.LEVEL	00000713
API.ID	CAGSVN0001
API.COLOR	Alert color: 0 - Default 1 - Green 2 - Blue 3 - Red 4 - White 5 - Pink 6 - Yellow 7 - Turquoise
API.GROUP	Variable metric group name
API.NAME	Variable metric name
API.DESCRIPTION	Variable metric description
API.TCPID	TCP/IP jobname of the stack
API.RESOURCE	Associated resource
API.STATUS	Current status
API.VALUE	Current value
API.ELAPSED (New REXX variable)	Elapsed time after notification
API.TEXT	Exception message text

Commands Added

The Option for TCP/IP has been enhanced to include the following new commands:

IPEESUM

Displays the Enterprise Extended summary.

IPEECONN

Displays the Enterprise Extended connections.

Commands Enhanced

The following enhancements have been made to existing commands.

IPCONFIG

Sets the IP configuration.

New data field: SMF Type 119 parameters

- DVIPA - Determines whether subtype 32, 33, 34, 35, 36, and 37 records are created for sysplex events that are related to dynamic virtual IP addresses (DVIPAs).

New data field: Global configuration

- Join - Indicates whether the stack joins the sysplex group during stack initialization.

New data fields: IPV6 configuration

- ChecksumOffload - Indicates whether checksum offload support is in effect for IPv6.
- SegOffload - Indicates whether TCP segmentation offload support is in effect for IPv6.

New data fields: Network Monitor configuration

- ChecksumOffload - Indicates whether checksum offload support is in effect for IPv4.
- CsMail - Determines whether the real-time SMF service creates SMF 119 records for subtype 50.
- CsSMTP - Determines whether the real-time SMF service creates SMF 119 records for subtype 48, 49, 51, and 52.
- DVIPA - Determines whether the SMF subtypes 32, 33, 34, 35, 36, and 37 are created for sysplex events that are related to dynamic virtual IP addresses (DVIPAs).
- SegOffload - Indicates whether TCP segmentation offload support is in effect for IPv4.

IPSTATS

Displays the IP statistics.

New data field: TCP segments statistics

- Rcvd on OSA Bulk Queues - The number of received segments from the OSA-Express QDIO inbound workload queuing the function BulkData ancillary input queue (AIQ).

New data fields: TCP connections statistics

- Current Stalled - The number of stalled connections for send data flow. Possible causes are the TCP send queue is full or an issue with the TCP send window size.
- Current Servers Flooded - The number of TCP servers under a potential connection flood attack. Possible cause is the backlog queue is required to be expanded to handle incoming requests. No server backlog queue is allowed to expand when this number exceeds 25.

IPUSERS

Displays information about the TCP/UDP users.

New data fields:

- Bytes - Total bytes in and out
- Delta - Total bytes in and out for the interval
- Rate - Total bytes in and out rate

TCPALERT

Displays TCP/IP exception alerts.

New syntax parameters:

- ACK - Displays the alerts that are acknowledged and not acknowledged.
- NOACK - Does not display acknowledged alerts.
- XSYStem, XSData - This forces cross-system data collection be set on for this execution. The current profile setting of XSDATA is maintained.
- NOXSYStem, NOXSData - This forces cross-system data collection be set off for this execution. The current profile setting of XSDATA is maintained.

New line commands:

- ACK - Invokes the METRIC command to acknowledge the alert.
- CLR - Invokes the METRIC command to clear an acknowledged alert.

New data fields:

- Ack - Indicates that the alert has been acknowledged.
- Pri - Indicates the relative priority of the exception.
- AckElaps - Indicates the elapsed time after acknowledging the alert.
- AckDate - Indicates the date that the alert was acknowledged.
- AckTime - Indicates the time that the alert was acknowledged.

Renamed data fields:

- Resource - Argument was renamed.

TCPLIST

Displays the TCP/IP images.

Renamed data fields:

- Jobclass - Jc was renamed and expanded to support eight-character job classes.

TCPSTATE

Displays TCP/IP state definitions.

New syntax parameters:

- SAVE - Saves definitions to the persistent data store.

New data fields:

- Pri - The priority of an exception. Use priority to sort exceptions within the same status levels, such as PROBLEM.
- TimeBeg - The beginning time that the definition is eligible to be applied. Specify the time using the HH:MM:SS format. You can define the time value using any of the following values:

  ```
  12AM | 1AM | 2AM | ... | 11AM

  12PM | 1PM | 2PM | ... | 11PM

  NOON | MIDNIGHT
  ```

- TimeEnd - The end time that the definition is eligible to be applied. Specify the time using the HH:MM:SS format. You can define the time value using any of the following values:

  ```
  12AM | 1AM | 2AM | ... | 11AM

  12PM | 1PM | 2PM | ... | 11PM

  NOON | MIDNIGHT
  ```

- TimeRng - The time range or interval in which the definition is eligible to be used.
- Sun, Mon, Tue, Wed, Thu, Fri, Sat - Specifies that the exception is eligible to execute on the specified day. To make a day eligible, type the three-character name in the appropriate field or enter YES. To make the day ineligible, type NO in the appropriate field.
- SMTWTFS - The days of eligibility.
- Active - The current active status of the definition. Possible values are:
  - ACTIVE - The definition is currently eligible for processing.
  - INACTIVE - The definition is currently not eligible for processing.
- Disabled - Indicates whether the definition is currently enabled or disabled. If an exception definition is disabled, the definition is not used.

Renamed data fields:

- IMOD - Run was renamed.

Deleted subcommands:

- DELETE - The DELETE subcommand has been removed. Use the DELETE line command to delete the definition.

TCPTHRSH

Displays TCP/IP threshold definitions.

New syntax parameters:

- SAVE - Saves definitions to the persistent data store.

New data fields:

- Pri - The priority of an exception. Use priority to sort exceptions within the same status levels, such as PROBLEM.
- TimeBeg - The beginning time that the definition is eligible to be applied. Specify the time using the HH:MM:SS format. You can define the time value using any of the following values:

  ```
  12AM | 1AM | 2AM | ... | 11AM

  12PM | 1PM | 2PM | ... | 11PM

  NOON | MIDNIGHT
  ```

- TimeEnd - The end time that the definition is eligible to be applied. Specify the time using the HH:MM:SS format. You can define the time value using any of the following values:

  ```
  12AM | 1AM | 2AM | ... | 11AM

  12PM | 1PM | 2PM | ... | 11PM

  NOON | MIDNIGHT
  ```

- TimeRng - The time range or interval in which the definition is eligible to be used.
- Sun, Mon, Tue, Wed, Thu, Fri, Sat - Specifies that the exception is eligible to execute on the specified day. To make a day eligible, type the three-character name in the appropriate field or enter YES. To make the day ineligible, type NO in the appropriate field.
- SMTWTFS - The days of eligibility.
- Active - The current active status of the definition. Possible values are:
  - ACTIVE - The definition is currently eligible for processing.
  - INACTIVE - The definition is currently not eligible for processing.
- Disabled - Indicates whether the definition is currently enabled or disabled. If an exception definition is disabled, the definition is not used.

Renamed data fields:

- IMOD - Run was renamed.

Deleted subcommands:

- DELETE - The DELETE subcommand has been removed. Use the DELETE line command to delete the definition.

TCPVARS

Displays available TCP/IP monitor variables.

Renamed data fields:

- Resource - Argument was renamed.

Data Collection Threshold Metrics

The following threshold metrics variable was added to enhance data collection.

IPSROSAB

Displays the received segments on OSA bulk queues.

Resource: none

Option for WebSphere MQ

The CA SYSVIEW Option for WebSphere MQ has been enhanced.

CA OPS/MVS Event Notification

When a threshold or state exception triggers, you can take various actions. One of these actions include notifying CA OPS/MVS of the exception event.

Event notification triggers the)API rule CAGSVS0001.

The following table provides the available REXX variables and their values.

REXX Variable	Value
API.APPLICATION	SYSVIEW
API.VERSION	13.5a
API.LEVEL	00000713
API.ID	CAGSVS0001

REXX Variable	Value
API.COLOR	Alert color: 0 - Default 1 - Green 2 - Blue 3 - Red 4 - White 5 - Pink 6 - Yellow 7 - Turquoise
API.GROUP	Variable metric group name
API.NAME	Variable metric name
API.DESCRIPTION	Variable metric description
API.QMGR	Queue manager
API.RESOURCE	Associated resource
API.STATUS	Current status
API.VALUE	Current value
API.ELAPSED (New REXX variable)	Elapsed time after notification
API.TEXT	Exception message text

Commands Added (MQ)

The Option for WebSphere MQ has been enhanced to include the following new command:

MQCHAUTH

Displays the MQ channel authentications.

Commands Enhanced

The following enhancements have been made to existing commands.

MQALERTS

WebSphere MQ exception alerts

New syntax parameters:

- ACK - Displays the alerts that are acknowledged and not acknowledged.
- NOACK - Does not display acknowledged alerts.
- XSYStem, XSData - This forces cross-system data collection be set on for this execution. The current profile setting of XSDATA is maintained.
- NOXSYStem, NOXSData - This forces cross-system data collection be set off for this execution. The current profile setting of XSDATA is maintained.

New line commands:

- ACK - Invokes the METRIC command to acknowledge the alert.
- CLR - Invokes the METRIC command to clear an acknowledged alert.

New data fields:

- Ack - Indicates that the alert has been acknowledged.
- Pri - Indicates the relative priority of the exception.
- AckElaps - Indicates the elapsed time after acknowledging the alert.
- AckDate - Indicates the date that the alert was acknowledged.
- AckTime - Indicates the time that the alert was acknowledged.

Renamed data fields:

- Resource - Argument was renamed.

MQCHAN

MQ channel definitions

New line commands:

- AUTH - Invokes the MQCHAUTH command for the selected channel.

MQCHCRCV

MQ cluster receiver channels.

New line commands:

- AUTH - Invokes the MQCHAUTH command for the selected channel.

MQCHRCVR

MQ receiver channels

New line commands:

- AUTH - Invokes the MQCHAUTH command for the selected channel.

MQCHSCON

MQ server channels connected

New line commands:

- AUTH - Invokes the MQCHAUTH command for the selected channel.

MQCHSTAT

MQ channel status

New syntax parameters:

- ACTIVE - Filters out channels with a status of SAVED or INACTIVE.

New line commands:

- AUTH - Invokes the MQCHAUTH command for the selected channel.

MQLIST

MQ subsystem list

New line commands:

- REFEXP - Issues a REFRESH QMGR TYPE(EXPIRY) command.
- REFPROXY - Issues a REFRESH QMGR TYPE(PROXYSUB) command.

MQSTATES

MQ state definition

New syntax parameters:

- SAVE - Saves definitions to the persistent data store.

New data fields:

- Pri - The priority of an exception. Use priority to sort exceptions within the same status levels, such as PROBLEM.
- TimeBeg - The beginning time that the definition is eligible to be applied. Specify the time using the HH:MM:SS format. You can define the time value using any of the following values:

  ```
  12AM | 1AM | 2AM | ... | 11AM
  ```

  ```
  12PM | 1PM | 2PM | ... | 11PM
  ```

  ```
  NOON | MIDNIGHT
  ```

- TimeEnd - The end time that the definition is eligible to be applied. Specify the time using the HH:MM:SS format. You can define the time value using any of the following values:

  ```
  12AM | 1AM | 2AM | ... | 11AM
  ```

  ```
  12PM | 1PM | 2PM | ... | 11PM
  ```

NOON | MIDNIGHT

- TimeRng - The time range or interval in which the definition is eligible to be used.
- Sun, Mon, Tue, Wed, Thu, Fri, Sat - Specifies that the exception is eligible to execute on the specified day. To make a day eligible, type the three-character name in the appropriate field or enter YES. To make the day ineligible, type NO in the appropriate field.
- SMTWTFS - The days of eligibility.
- Active - The current active status of the definition. Possible values are:
  - ACTIVE - The definition is currently eligible for processing.
  - INACTIVE - The definition is currently not eligible for processing.
- Disabled - Indicates whether the definition is currently enabled or disabled. If an exception definition is disabled, the definition is not used.

Renamed data fields:

- IMOD - Run was renamed.

Deleted subcommands:

- DELETE - The DELETE subcommand has been removed. Use the DELETE line command to delete the definition.

MQTHRESH

MQ threshold definitions

New syntax parameters:

- SAVE - Saves definitions to the persistent data store.

New data fields:

- Pri - The priority of an exception. Use priority to sort exceptions within the same status levels, such as PROBLEM.
- TimeBeg - The beginning time that the definition is eligible to be applied. Specify the time using the HH:MM:SS format. You can define the time value using any of the following values:

  ```
  12AM | 1AM | 2AM | ... | 11AM

  12PM | 1PM | 2PM | ... | 11PM

  NOON | MIDNIGHT
  ```

- TimeEnd - The end time that the definition is eligible to be applied. Specify the time using the HH:MM:SS format. You can define the time value using any of the following values:

  ```
  12AM | 1AM | 2AM | ... | 11AM

  12PM | 1PM | 2PM | ... | 11PM

  NOON | MIDNIGHT
  ```

- TimeRng - The time range or interval in which the definition is eligible to be used.
- Sun, Mon, Tue, Wed, Thu, Fri, Sat - Specifies that the exception is eligible to execute on the specified day. To make a day eligible, type the three-character name in the appropriate field or enter YES. To make the day ineligible, type NO in the appropriate field.
- SMTWTFS - The days of eligibility.
- Active - The current active status of the definition. Possible values are:
  - ACTIVE - The definition is currently eligible for processing.
  - INACTIVE - The definition is currently not eligible for processing.
- Disabled - Indicates whether the definition is currently enabled or disabled. If an exception definition is disabled, the definition is not used.

Renamed data fields:

- IMOD - Run was renamed.

Deleted subcommands:

- DELETE - The DELETE subcommand has been removed. Use the DELETE line command to delete the definition.

MQVARS

MQ monitor variables

Renamed data fields:

- Resource - Argument was renamed.

Configuration Options Member - MQSERIES

The configuration options member MQSDATA has been enhanced to include the following options:

API-LOAD-LIBRARY

Specifies the name of the MQ Interface load library. Use the keyword LINKLIST if the library is present in the STEPLIB or LINKLIST concatenation or the interface modules have been placed in LPA.

Examples:

```
LINKLIST
```

```
MQSERIES.SCSQLOAD
```

The default value is NONE, meaning that the MQ API modules are not loaded.

CHLAUTH-DATA-QUEUE

Specifies the name of the queue that contains the channel authorization data.

CA APM Integration

The CA SYSVIEW and CA APM integration has been enhanced.

IMS Transaction Tracing

CA SYSVIEW extends CA APM Introscope Transaction Tracing into IMS. This increases end-to-end visibility to enhance a core Introscope value proposition for quickly isolating transaction performance problems.

Components

The enhancements to the CA SYSVIEW components are provided in this section.

Audit Events Component

The Audit Events component tracks or audits the activities and actions that are performed within the CA SYSVIEW product. The Audit Events component is designed to record activities that alter or change resources.

Audit Events Enhanced

The following enhancements have been made to audit events.

SESSION_LOGOFF

The session termination record has been enhanced to include zIIP usage and SAF requests information.

The SAF statistics section only appears when the user has defined a SAF entity class for their user group.

Section: zIIP utilization:

```
Total CPU time                          18.32178
TCB CPU time                            6.954424
SRB CPU time                            11.36736
Enclave time                            11.36728  62.04%
zIIP time                               11.08692  60.51%
zIIP on CP time                         0.280360   2.47%
zIIP switches                             372919
zIIP ALESERV requests                          1
zIIP SRB starts                                2
```

Section: Command execution:

```
Command  SubCmd   Count Pct%   CPUTime EnclTime   ePct%  zSwitch
ACTIVITY              1   2%  0.017236 0.011443  66.39%      154
ACTSUM                2   4%  0.350080 0.349390  99.80%       10
CGBLEXIT              1   2%  0.005389 0.004375  81.18%       68
CICSLIST              1   2%  0.031654 0.026766  84.56%      106
```

Section: SAF statistics:

```
SAF calls made                               1012
SAF calls avoided                            3267
--- Total SAF calls ---                      4279
    JQUE calls                                  0
    JTYP calls                                  0
    NTFY calls                               1074
    USER calls                               1410
    JOBN calls                               1410
    DDNM calls                                  0
```

```
    WTRN calls                                0
    RESN calls                              345
    CMND calls                               10
    SUBC calls                                0
    Other calls                              30
Access Entity Table (AET) size              256K
SAF CPU time                           0.101173
SAF elapsed time                       0.765851
SAF exit CPU time                      9.908062
SAF exit elapsed time                  45.73008
```

GMI Graphic User Interface

The CA SYSVIEW CA Vantage GMI component provides a modern GMI Windows GUI interface from which you can access and use CA SYSVIEW. This interface has been enhanced.

SYS--Objects Added

The following objects have been added to the CA SYSVIEW CA Vantage GMI component interface:

- ASPERF - Address Space Performance
- CPROFILE - Profiles
- CURIMAPS - URI Maps
- CXDISTAT - Extern Data Interface
- DBBPOOLS - Buffer Pools
- DBDSETS - Open data sets
- DBERRMSG - Error Messages
- DBLOGAL - Log Allocation
- DBLOGCKP - Log Checkpoint
- DBPRMBP - Buffer Pool Parameters
- DBPRMGBP - Group Buffer Pool Parameters
- DBPRMS - System Parameters
- DBSQLDY - SQL Dynamic Cache
- DBSTG - Storage Statistics
- DBTHACT - Active Threads
- IMSOMAT - Operation Manager Audit Log
- IPEECONN - EE Connections
- IPEESUM - EE Summary
- LISTDIR - List MODID Directory
- MODULES - Modules with MODIDs
- MQCHAUTH - Channel Authentication
- SYSDMON - Data Collection Monitor

Objects Enhanced (GMI)

The following objects have been enhanced:

ALERTS

Displays z/OS exception alerts.

New actions:

- Acknowledge - Acknowledge the alert.
- Clear - Clear an acknowledged alert.

CALERTS

Displays the CICS exception alerts.

New actions:

- Acknowledge - Acknowledge the alert.
- Clear - Clear an acknowledged alert.

CDUMPMGT

Displays a list of dump management definitions and statistics. Dump management lets you suppress unwanted dumps.

New actions:

- Delete - Deletes the selected definition.

DB2LIST

Displays information about DB2 address spaces and subsystems that are currently defined or executing.

New actions:

- Set Current Target - Sets the current DB2 target address space.
- Start DB2
- Stop DB2
- Stop DB2 Force

IMSALERT

Displays IMS data collection exception alerts.

New actions:

- Acknowledge - Acknowledge the alert.
- Clear - Clear an acknowledged alert.

MQALERTS

Displays MQ data collection exception alerts.

New actions:

- Acknowledge - Acknowledge the alert.
- Clear - Clear an acknowledged alert.

MQCHAN

Displays MQ channel definitions.

New zooms:

- Channel Authentications

MQCHCRCV

Displays information about cluster receiver channels.

New zooms:

- Channel Authentications

MQCHRCVR

Displays information about receiver channels.

New zooms:

- Channel Authentications

MQCHSCON

Displays information about the server connections.

New zooms:

- Channel Authentications

MQCHSTAT

Displays MQ channel status.

New zooms:

- Channel Authentications

STATES

Displays the current state definitions.

Deleted actions:

- Delete - The delete object level action was removed. The line level action for Delete is available.

TCPALERTS

Displays the TCP exception alerts.

New actions:

- Acknowledge - Acknowledge the alert.
- Clear - Clear an acknowledged alert.

THRESH

Displays the current z/OS threshold definitions.

Deleted actions:

- Delete - The delete object level action was removed. The line level action for Delete is available.

SYS--Objects Rename

The following objects were renamed:

- JINIT was previously named INIT.
- JOUTDES was previously named OUTDES.
- JTRANQUE was previously named APPCOUTQ.

Object Tree Enhancements

The object tree has been enhanced to include the following folders:

CA SYSVIEW\Network\Enterprise Extender

Contains the new TCP enterprise extended commands.

CA SYSVIEW\Databases\CA Datacom\MUF Database Monitoring

DCLOG and DCBUFP objects have moved to this folder.

Security

CA SYSVIEW Security has been enhanced.

Security Data Set Conversion

During installation, the conversion utility GSVXCNVS converts the security data set from a previous CA SYSVIEW release to the current release 13.5.

If the security file is converted, command authorization for commands that are introduced in 13.5 are marked as FAILED. Marking the commands as failed prevents new commands being introduced into an existing system without the examination of the security administrator.

The security administrator can update the command authorizations by logging on to CA SYSVIEW and then issuing the command SECURITY.

External Security Considerations

New commands have been added to CA SYSVIEW in this release. Additional external security rules could be required.

The sample SAF exits SAFSECX and JSPLSECX are no longer supported. SAF entity checking is now internal to CA SYSVIEW. Enable SAF entity checking by defining a SAF entity class in the External Security Section of the internal security group for the user, or in the GLOBAL group.

You can call the pre-SAF notification exit before calling SAF. CA SYSVIEW passes the class name and entity name to the exit.

Note: For more information, see the *Security Guide*.

SAF resource calls can now be suspended for a specific resource type. Previously, the ability to suspend all resource calls could be done by granting a user read access to entity SV.SUSP.<system>.RESN. Now, a specific resource type can be suspended by granting a user read access to entity SV.SUSP.<system>.RESN.<resource>.

Example: Suspend Resource Checks

Code the following suspend rule to suspend all resource checks for the output class a job on spool is in:

```
SV.SUSP.<system>.RESN.OUTCLASS
```

Commands Enhanced

The following enhancements have been made to existing commands.

SECURITY

Security administration

Miscellaneous section

The Miscellaneous Section of a CA SYSVIEW security user group contains a new option to control the access to commands that have been defined in multiple command groups.

Option(YES, NO)

Fail command if failed in any CMDGROUP. Valid values are:

YES - Denies access to the command when the command has been failed in any command group.

NO - Allows access to the command when the command has been allowed in any command group.

External security section

- The External Security Section of a CA SYSVIEW security user group contains the following new options to control external security requests:
  - Option: SAF Entity Class Name

    The SAF resource class name that is used when you want external security to validate the use of commands and other resources. Specify NONE to bypass SAF authorization calls. When NONE is specified, all command and resource validation is done using internal security definitions.
  - Option: SAF Entity Name Prefix

    The prefix, or first node name, to be used to build the entity names for SAF calls. The prefix is only used when a SAF entity class is defined.
  - Option: Use JESSPOOL for Job Validation

    Specify a value of YES if you want to use JESSPOOL resources for all job name validation calls. All other resource verifications still use the resources that are defined for the SAF Entity Class Name. If you want SAF to verify only JESSPOOL resources (no SAF calls for CMND, SUBC, RESN, and so on), then specify JESSPOOL for the SAF Entity Class Name.
  - Option: Use System SMFID in Entity Name

    Specify if you want the SAF entity name to contain the system SMFID as the third node. This option only applies when a SAF entity class is defined.
  - Option: Use System QUAL in Entity Name

Specify if you want the SAF entity name to contain a qualifier following the resource type. Some example qualifiers would be JES2 for JES resource types, or the subsystem ID for IMS resources. This option only applies when a SAF entity class is defined.

- Option: SAF Exit Name

  The name of an optional user exit that is invoked before SAF. The exit is passed the entity class and entity name.

- Option: Access Entity Table Size (KB)

  The initial size of the SAF Access Entity Table (AET). The AET is used to cache responses to SAF calls so subsequent calls can retrieve them for the same entity name. Using the AET improves performance. The size of the AET is specified in K. AET storage is allocated above the 2G bar. If you specify a value of zero, no AET is used.

Security Resources Added

The security resources have been enhanced to include the following new resource:

JESGROUP

JES job class groups.

REXX Environment

The CA SYSVIEW REXX function has been enhanced.

REXX Functions Added

The CA SYSVIEW REXX function has been enhanced to include the following new commands:

- ABEND - Forces an abend in a REXX EXEC.
- BLDPARM - Returns a standard CA SYSVIEW command string parameter for a supplied character string.
- MCCOMP - Masked character compares a pattern string with an argument string.

User Defined Displays

CA SYSVIEW lets users create their own command displays. Use the following process to create the displays:

1. Use REXX to build the user command displays.
2. Use the RXDISP command to invoke a REXX EXEC.
3. Use the data queued to the REXX stack to create the CA SYSVIEW display.

The display can be simple rows of text data, or can be formatted using extended attributes.

The user display can support the following functions:

- Extended attributes
- Online help
- Line commands
- Selection
- Sorting

User Defined Commands

The commands that the user defines have been enhanced.

User Command Definition

The user command definition has been extended to allow a HELP member to be associated with the user command.

```
DEFINE          commandname
   MINlen       nn
   DESCription ' '
   HELP         member
   CMDstring    string
ENDDEFINE
```

Example product supplied user commands:

CICSDATA

CICS data collect dashboards

DASHboard

Display dashboards

FILEList

Multi-DSN Directory

GOTOCICS

Go to the CICS region

LOAN

Loan calculator

LOGOFF

Logout of the product

MQCLUSTERTopic

Cluster MQ Topic objects

MQLOCALTopic

Locally defined MQ Topic objects

NEWCHELP

LibCache reload the HELP library

NEWCPARM

LibCache reload parameter library

NEWCTEMP

LibCache reload template

PROBlem

Select problem lines

STARTSYSVIEW

Start SYSVIEW Main address space

STOPSYSVIEW

Stop SYSVIEW Main address space

STP

Server Time Protocol

SYSVDATA

SYSVIEW data collect dashboards

SYSVZIIP

SYSVIEW zIIP usage dashboard

TOPCPU

Top 10 CPU address spaces

UNIQflds

Unique fields

WARNing

Select warning lines

Dashboards

The dashboard feature provides the ability to create customized screen views and combine data from various CA SYSVIEW sources (CICS, MQ, DATACOM, IMS, JES, and z/OS) to enhance performance management and troubleshooting capabilities.

The dashboard display consists of horizontal areas, or windows, and each window is divided into one or more areas or panes. You can display multiple CA SYSVIEW and user commands in the window panes.

For more information, see the online help topic Dashboards.

Dashboard Definition Syntax

The dashboard definition syntax has been enhanced to include new window processing options.

OPTIONS Statement

When the OPTIONS statement is found after a DEFINE WINDOWS statement, and before the first DEFINE PANE statement, the options apply to the window:

- ADDBLANK - Adds a blank line to the end of each pane in the window which creates separation from the window that follows and can help improve the aesthetics of the dashboard.

Pane option INFO

The pane option INFO can now also be specified as INFO(s,e). The dashboard topic describes it as:

- INFO, INFO(s,e) - Adds informational rows to the pane. By default they are not displayed.

  The form INFO(s,e) can be used to display a subset of informational rows. 's' is the starting row number and 'e' is the ending row number. The parameters can also be specified as:

  - INFO(s) - Displays informational rows 's' through the end of the rows.
  - INFO(,e) - Displays informational rows 1 through 'e'.