CA SYSVIEW® Performance Management

Release Notes

Release 13.7 Second Edition

CA Technologies Product References

This document references the following CA Technologies products:

- CA Application Performance Management (CA APM)
- CA DATACOM®/DB (CA Datacom/DB)
- CA Graphical Management Interface (CA GMI)
- CA Chorus™ Software Manager (CA MSM)
- CA Chorus™
- CA Mainframe Software Manager™ (CA MSM)
- CA OPS/MVS® Event Management and Automation (CA OPS/MVS)
- CA Roscoe® Interactive Environment (CA Roscoe)
- 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)

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- Online and telephone contact information for technical assistance and customer services
- Information about user communities and forums
- Product and documentation downloads
- CA Support policies and guidelines
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Chapter 1: New Features

This section contains the following topics:

CA Chorus Infrastructure Management for Networks and Systems (see page 7)

CA Chorus Infrastructure Management for Networks and Systems

This release of CA SYSVIEW introduces the CA Chorus Infrastructure Management for Networks and Systems role, an interactive diagnostic and problem resolution tool that lets you simplify your management of system and network performance. By focusing on a role-based delivery model, this product transforms the way a performance analyst works.

The CA products CA SYSVIEW, CA NetMaster NM for TCP/IP, and CA Insight contribute to this role to offer the following usability features:

- Time Series data graphing
- Real-time network and systems performance reporting
- Real-time access to state and event data
- Object-based navigation for near real-time performance monitoring
- In-context domain documentation
- Hover text

This role supports the following performance-specific CA Chorus modules:

Command Manager module

Processes performance management commands.

Consolidated Viewer module

Provides a dashboard or business view.

Topology Viewer module

Provides a topological display of selected performance resources and associations with other components.

Note: For detailed conceptual and procedural information, see your role-specific *User Guide* available with the CA Chorus documentation set.

This role supports the following common modules and components:

Investigator module

Lets you load, edit, and delete complete paths that you have followed while viewing and managing your systems. The *Investigator module* also supports the *Investigator*, which presents you with a cohesive view of your data. The Investigator helps you view and analyze critical information stored in your system by providing multiple work areas to help you manage your data.

Time Series

Displays line charts that let you compare CA Chorus Infrastructure Management for Networks and Systems information for the current system data and transactions with historical information. This comparison provides the needed statistics for deciding whether to take corrective action. After you select data from your Investigator table, you can launch the Time Series Facility (TSF).

Visualizer

Displays a pictorial view of your data. After you select data from your Investigator table, you can launch the Visualizer.

Alerts module

Displays performance alerts for CA SYSVIEW and CA NetMaster NM for TCP/IP based on user-configurable threshold settings.

Metric panel

Provides a visual display of key performance metrics for your monitored systems. The data shows statistics for the last 30-second collection interval. Graphs display the last 15 intervals. Performance metrics are broken down into data groups or categories.

Notes module

Lets you add a note in the Investigator. A note is private or public information that is related to an object. A note is saved with the entity, metrics, and time and date of creation. The Notes module includes Private Notes and Public Notes tabs.

Quick Links module

Launches CA Chorus role-specific interfaces and tools. For example, use Quick Links to navigate directly to CA Chorus Infrastructure Management for Networks and Systems GUI or web product interfaces such as Web Center, CA GMI, or CA APM.

Knowledge Center

The Knowledge Center is the repository for all CA Chorus documentation. The Knowledge Center includes includes online help and guides from CA, user-generated documentation, and links to third-party content. Links to relevant topics appear in the Knowledge Center window when you click the online help icon or by searching.

Note: For detailed conceptual and procedural information, see the *Product Guide* and your role-specific *User Guide* included with the CA Chorus documentation set.

Chapter 2: Enhancements to Existing Features

This section contains the following topics:

CA Mainframe Software Manager (see page 11)
System Configuration Options (see page 12)
Installation Enhancements (see page 13)
User Replaceable Modules (see page 14)
Administration (see page 15)
Options (see page 24)
Components (see page 113)

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*.

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 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.

Example 1:

```
)IF RELEASE=13.7
  option1
  option2
)ENDIF
```

```
)IF RELEASE=13.5
  option1
  option2
)ENDIF

)IF RELEASE=rr.m
  option1
  option2
)ENDIF
```

Example 2:

```
)IF RELEASE=13.7
  )INCLUDE mbr137
)ENDIF

)IF RELEASE=13.5
  )INCLUDE mbr135
)ENDIF
```

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

Installation Enhancements

The installation process has been enhanced.

SYSVIEW LPA Library - CNM4BLPA

The CA SYSVIEW installation now includes a new *hlq*.CNM4BLPA library that is in PDS format. The CNM4BLPA library contains modules that are required to be loaded into LPA using either of the following methods:

- The Dynamic Install utility, GSVXINST
- Permanently defining the modules to an IEALPA*xx* member of SYS1.PARMLIB

User Replaceable Modules

The following modules are replaceable by the user.

- GSVBSSID - Default CA 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

  Translate table sets are defined in module GSVBUXLT. Use the TRTABLES command for looking at the in-storage tables. Use the USERMOD to assemble and link customized translate tables that may contain a different set of special characters.

  Note: See member USRM0002 in the SAMPJCL data set after running INSTALL.

  Note: Module GSVBUXLT is provided as a convenience and there is no requirement to modify it.

  CA SYSVIEW provides the following user translate table sets:

  Standard

  (Default) Provides the standard translate table set.

  Alternate

  Provides the alternate translate table set.

  XStandard

  Provides the extended standard table set.

  XAlternate

  Provides the extended alternate table set.

  USER1

  Provides the user translate table set 1.

  USER2

  Provides the user translate table set 2.

  Use the SET TRANSLATE <*setname*> command for changing the translate table set. Each translation table set contains the following tables:

  AsciiToEbcdic

  Translates ASCII to EBCDIC.

  EbcdicToAscii

  Translates EBCDIC to ASCII.

TestAscii

Tests for displayable ASCII characters.

TestDisplay

Tests for displayable characters.

TestLower

Tests for lowercase characters

TestSpecial

Tests for special characters.

TestUpper

Tests for uppercase characters.

XlateDisplay

Translates to displayable characters.

XlateLower

Translates uppercase characters to lowercase characters.

XlateUpper

Translates lowercase characters to uppercase characters.

Administration

The CA SYSVIEW administration features have been enhanced.

Main Services Address Space

The Main Services address space includes the following new subtasks:

- IMSTSF - The IMS Time Series Facility data collection task.
- MQSTSF - The WebSphere MQ Time Series Facility data collection task.
- MVSTSF - The z/OS Time Series Facility data collection task.
- TSFLOGR - The CA Chorus Time Series Facility logger.

CICS Data Collection

The CA SYSVIEW Option for CICS includes the following new subtask in the CICS Address space:

GSVCTSFT

CICS Time Series Facility data collection task.

Control Statements - Parameter Members

The usage of control statements within parameter or text-based source members provides enhanced functionality in definitions. The)IF control statement allows for conditional inclusion of configuration options, definitions, or data records that are based on the result of the)IF expression.

New control statements and)IF expression operators have been added to extend the following capabilities available when processing a parameter member:

- Include data from other members and data sets.
- Conditional inclusion or exclusion using the)IF statement:
  - Symbolic variables within expressions
  - If expression operators
    - Equals:

      EQ, =
    - Not equal or does not equal:

      NE, <>, ^=,¬=
    - Less than:

      LT, <
    - Greater than:

      GT, >
    - Less than or equal to:

      LE, <=
    - Greater than or equal to

      GE, >=
    - Parameter 1 contains parameter 2:

      CONTAINS, CN

      Example:

)IF 'SYSA SYSB SYSC' CN &SYSNAME
    - Parameter 1 does not contain parameter 2:

      NOTCONTAINS, NC
    - Parameter 1 is in logical group/type

      INGROUP, IN

      Syntax:

)IF parm1 IN group/type

)IF parm1 IN group type

Example:

)IF &SYSNAME IN PROD SYSNAME

- Parameter 1 is NOT in logical group/type:

  NOTINGROUP, NI

- Substitution using the following types of symbolic variables:
  - System defined
  - <producname> defined
  - User-defined

Note: For more information, see the online help topic Control Statements - parameter members.

Parameter Library Members Added

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

New member:

- MESSAGES - Message definition overrides

  The definitions in this member are used to control or alter the default processing of a CA SYSVIEW generated message.

  Control the following attributes using the message definitions:

  - Message route codes
  - Message descriptor codes
  - Message override action character
  - Multiline WTO eligibility
  - Non-Roll delete
  - Ensure that a WTO is issued
  - Ensure that a WTO is issued with Write-To-Log attributes

Parameter Library Data Set Member GROUPS

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

DBAREA

Specifies the database areas using the format:
database.areaname.

IMSBALG

Specifies the IMS balancing group.

IMSESUB

Specifies the IMS external subsystem using the format:
jobname.subsys.

IMSLTERM

Specifies the IMS logical terminals using the format:
termtype.terminal.

IMSOTMA

Specifies the IMS OTMA using the format:
Tmember.Tpipe

OUTCLASS

Specifies the JES output classes.

TYPEJOBN

Specifies the jobtype and jobname using the format:
Type.Jobname

WMREPORT

Specifies the WLM report class.

Parameter Library Data Set Member OPTIONS GSVXGSVX

The parameter library data set member GSVXGSVX has been enhanced.

SYSVIEW.DEV.BASE.PARMLIB(GSVXGSVX)
system.parmlib(GSVXGSVX)

New Keyword

- Option-Chorus - This keyword specifies whether to activate the CA SYSVIEW integration with the option CA Chorus Infrastructure Management for Networks and Systems.

  Default: No

Parameter Library Member OPTIONS

The parameter library data set member OPTIONS has been enhanced.

New Keywords

- GetStorageAbendIfFailure - Controls whether CA SYSVIEW abends when a STORAGE OBTAIN or GETMAIN fails and the storage request was unconditional.

  Valid Values:

  - Yes - An abend occurs.
  - No - An abend does not occur. The product issues a storage failure message and then attempts to terminate the session.

  Default: No

- MlWtoEnabled - Controls whether to issue multiline WTO messages when the WTO message length is greater than the maximum length allowed for a single-line WTO.

  Note: The maximum single-line length is 126 characters.

  Valid values:

  - Yes - The message is split on word boundaries.
  - No - Messages longer than 126 characters are truncated without any notification.

  Default: Yes

- MlWtoIndent - Controls whether to indent the second through nth lines of a multiline WTO message by nine characters.

  Note: The nine characters are the length of the message identifier plus one space.

  Valid values:

  - Yes

    Indents the second through nth lines.

  - No

    Does not indent the second through nth lines.

  Default: Yes

Examples:

MlWtoIndent Yes:

```
GSVX321W (MVSDATA) Threshold STORAGE STGECSA * PROBLEM
    V=13.1M W=4.07M P=8.14M CHANGE 00:43:59 * *
    Desc='E-CSA storage allocated '
    Policy=0019CCD8
```

MlWtoIndent No:

```
GSVX321W (MVSDATA) Threshold STORAGE STGECSA * PROBLEM
V=13.1M W=4.07M P=8.14M CHANGE 00:43:59 * *
Desc='E-CSA storage allocated '
Policy=0019CCD8
```

Parameter Library Member SCHEDULE

The parameter library data set member SCHEDULE has been enhanced.

New Data Collection Event Functions:

- CICS

  MVS-CICSMON

  This scheduled event provides CICS monitoring.

- IMS

  IMSDATA-BALGRPS

  Schedules events for the Balance groups.

  IMSDATA-DATABASE

  Schedules events for the databases.

  IMSDATA-ESUBSYS

  Schedules events for the external subsystems.

  IMSDATA-LOCKS

  Schedules events for the IRLM locks.

  IMSDATA-LTERMS

  Schedules events for the Logical terms.

  IMSDATA-OSAM

  Schedules events for the OSAM buffer pools.

  IMSDATA-OTMA

  Schedules events for the Open Transaction Manager Access.

  IMSDATA-VSAM

  Schedules events for the VSAM buffer pools.

New Time Series Facility Data Collection Event Functions:

- z/OS

  MVS-TSF-CHANNELS

  Schedules events for the specified channels.

  MVS-TSF-CPU

  Schedules events for the specified CPU processors.

  MVS-TSF-DEVICES

  Schedules events for the specified DASD and tape devices.

  MVS-TSF-JOBS

Schedules events for the specified address spaces and or jobs.

MVS-TSF-SYSTEM

Schedules events for the specified system level metrics.

MVS-TSF-USS

Schedules events for the available UNIX System Services.

- WebSphere MQ

MQS-TSF-BUFPOOLS

Schedules events for the buffer pools.

MQS-TSF-CHANNELS

Schedules events for the channels.

MQS-TSF-PAGESETS

Schedules events for the page sets.

MQS-TSF-QMGRS

Schedules events for the queue manager status.

MQS-TSF-QUEUES

Schedules events for the queues.

- IMS

IMS-TSF-BUFPOOLS

Schedules events for the buffer pools.

IMS-TSF-POOLS

Schedules events for the Pools.

IMS-TSF-SYSTEM

Schedules events for the system level metrics.

IMS-TSF-TRANS

Schedules events for the Transactions.

Parameter Library Member XSYSTEM

The parameter library data set member XSYSTEM has changed.

XsdsGetCmdDataLenLimit

Specifies the maximum allowable total data length for all systems that respond to a GetCmdData request.

This type of request is made when a product command is executed with XSDATA YES in effect.

The value must be from 64 KB to 512 MB-1.

Note: The response is discarded when this value is exceeded.

Default = 256M

Parameter Library Members Deleted

The following parameter library members were available in the MESSAGES parmlib member and have been deleted:

- MSGACTOV - The data in this member defined alternate action characters for console messages.
- MSGWTLOG - The data in this member defined messages for the log (WTO with the route code 11).
- WTONORD - The data in this member defined console messages with the nonroll deletable attribute (WTO with the descriptor code 2).

Options

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

Base Product Enhancements

The CA SYSVIEW base product has been enhanced.

Control Statements - Parameter Members

Control statements in parameter or text-based source members enhances definition functionality:

- Use the)IF control statement to include conditionally configuration options, definitions, or data records that are based on the result of the)IF expression.
- Use the)INCLUDE control statement to include dynamically more text-based members.

Note: See the online help topic Control Statements - Parameter Members.

Commands Added to the Base Product

The following command has been added to the base product:

INFOLEFT

Scrolls the information lines to the left.

INFORIGH

Scrolls the information lines to the right.

MSGPARMS

Controls or alters the default message processing.

TSFLIST

Displays information about the Time Series Facility address spaces.

TSFLOGR

Displays information about the logging tasks for the Time Series Facility.

Commands Enhanced

The following enhancements have been made to existing commands.

ASADMIN

Address space administration

Syntax:

ASADMIN <*options*>

New option parameters:

- Cnfm, NOCnfm, Confirm, NOConfirm - Controls whether a user confirmation is requested before executing the STOP, SHUT, CANCEL, or FORCE line commands.
- SUmm, NOSUmm, SUmmary, NOSUmmary - Controls the display of the task summary data row. The task summary row displays an asterisk (*) for both the Task and ID fields.
- SErv, NOSErv, SErver, NOSErver, PRImary, NOPRImary - Controls the display of the CA SYSVIEW server address spaces (also referred to as the primary address space).
- User, NOUser, SECondary, NOSECondary - Controls the display of the CA SYSVIEW user address spaces (also referred to as the secondary address spaces).
- Aux, NOAux, Auxiliary, NOAuxiliary - Controls the display of the CA SYSVIEW auxiliary address spaces.
- SSid NOSSid - Controls the display of CA SYSVIEW address space IDs.
  - SSID displays only address space IDs using the same SSID as the current session.
  - NOSSID displays all address space IDs with any SSID.
- Rels, NORels, Release, NORelease - Controls the display of CA SYSVIEW address spaces.
  - RELS displays only addresses that are the same release as the current session.
  - NORELS displays all address spaces with any release.
- IJob, NOIJob, INACTJob, NOINACTJob, JOBInact, NOJOBInact - Controls the display of inactive jobs.
- ITask, NOITask, INACTTask, NOINACTTask, TASKInact, NOTASKInact - Controls the display of inactive tasks.
- Model, NOModel - Controls the display of model tasks.
- XSdata, XSystem, NOXSdata, NOXSystem - Controls whether to force on or off the cross system data collection for this execution. The use of any of these keywords does not alter the XSDATA profile setting.

Default: XSDATA

Note: None of these keywords are supported on the ASADMIN command OPTIONS subcommand.

New data fields:

- RPELast - The request processing elapsed time for the last (most recent) wait-to-post interval.
- RPEThrsh - The elapsed time of a threshold for a request processing post-to-wait interval.
- RPEEx - The number of times the elapsed time request processing threshold was exceeded.
- RPCLast - The request processing CPU time for the last (most recent) wait-to-post interval.
- RPCThrsh - The CPU time threshold for a request processing post-to-wait interval. Exceeding this threshold causes a console message indicating that this threshold was exceeded.
- RPCEx - The number of times the CPU time request processing threshold was exceeded.

COMMANDS

List commands and subcommands

New data field:

- Rels - Displays the release number when the command was introduced.

FIELDS

Field definitions

New data field:

- Description - Describes the field.

FIND

Find string in display data

FIND string<,keyword1><,keyword2><,col1<,col2>><,options><,fieldname>

New "options" keyword:

- NOPOINT - Requests that the following actions are not performed when a FIND command completes successfully:
  - Do not scroll the data row to the left or right of the found string making the found string visible on the display.
  - Do not position the cursor at the found string.
  - Do not highlight the found string using either the FINDINPUT or FINDOUTPUT screen field attributes.

GROUPS

Logical groups

New logical group types:

- DBAREA - Contains the Database areas specified in the format:

  database.areaname
- IMSBALG - Contains the IMS balancing group.
- IMSESUB - Contains the IMS external subsystem specified in the format:

  jobname.subsys
- IMSLTERM - Contains the IMS logical terminals specified in the format:

  termtype.terminal
- IMSOTMA - Contains the IMS OTMA specified in the format:

  Tmember.Tpipe
- OUTCLASS - Contains the JES output classes.
- TYPEJOBN - Contains the job type and job name specified in the format:

  Type.Jobname
- WMREPORT - Contains the WLM report class.

IDMSLIST

CA IDMS address space list

Renamed data field:

- New name: XSSystem

  The field XSystem was renamed to XSSystem. The home system name is highlighted.

LISTMAPS

List storage maps loaded

New data field:

- MapCt - The number of map entries that are defined for the map.

PLOT

Plot historical data

The PLOT syntax has been enhanced to allow the display of one to four graphics plots or quadrants. Each plot quadrant can include one or two metrics.

Syntax:

```
PLOT   <args1> <args2> .. <args8> <options>
args = quad
    source
    METRIC metric
    RSCE1  rsce1
    RSCE2  rsce2
    SCALE  scale
```

- quad - Specifies the plot quadrant for the arguments to follow.
- source - Displays the source of the data. The following keyword and value pairs are used to specify the data source. The keywords are all synonyms of each other. Each keyword allows for an associated parameter of a previously defined maximum length.
- MVS - Obtains data from the MVS data collector. The MVS keyword is not required. No parameter is allowed.
- CICS jobname - Obtains data from the CICS data collector. The data must be requested for a specific CICS region. Specify the desired CICS jobname as the associated value for the keyword CICS.

  The current target jobname is used when you use an asterisk * as the jobname.

  Maximum parameter length: 8
- QMGR qmgr - Obtains data from the WebSphere MQ data collector. The data must be requested for a specific MQ Qmgr. The desired MQ Qmgr must be specified as the associated value for the keyword "QMGR".

  Maximum parameter length: 4
- IMSid SSID - Obtains data from the IMS data collector. The data must be requested for a specific IMS subsystem. The desired subsystem must be specified as the associated value for the keyword IMSID.

  Maximum parameter length: 4
- TCPid jobname - Obtains data from the TCP/IP data collector. The data must be requested for a specific TCP/IP stack. The desired stack jobname must be specified as the associated value for the keyword TCPID.

  Maximum parameter length: 8
- METric metric - Specifies the data collection metric variable display name. For a list of available metrics, see the following commands in the online help:
  - VARS - MVS

- CVARS - CICS
- IMSVARS - IMS
- MQVARS - WebSphere MQ
- TCPVARS - TCP/IP

- RSCE, rsce, RSCE1, R1 - The data collection resource qualifier for the selected metric name.
- RSCE2, rsce, R2 - The data collection resource qualifier for the selected metric name. Only the CICS data collector uses the resource qualifier 2.
- SCALE, scale - Sets the maximum vertical scale value. By default, the maximum vertical scale value is set to the maximum value displayed within the plot. Valid values are:
  - Maximum - Sets the vertical scale to the maximum plot value.
  - Average - Sets the vertical scale to the average plot value.
  - nnnnnnn - Sets the vertical scale to specify a numerical value.
- COLUMNS, cols, COLS - Specifies the number of columns to use in the plot area.
  - Minimum - 10
  - Maximum - 60

  You can only specify columns when you specify a single lot quadrant.
- ROWS, rows - Specifies the number of rows to use in the lot area.
  - Minimum: 1
  - Maximum: 100
- SMALL - Specifies to display the plot with the following attributes:
  - ROWS: 10
  - COLUMNS: 20
- REPORT, NOREPORT - Specifies whether the following report areas are displayed after the plots:
  - Current values
  - Plot legend
  - Plot member source
  - Metric variable descriptions

PRINT

Print display lines

Syntax:

PRINT <operation><,line-num><,mem-name><,options>

New options keywords:

- MSg - Requests to display the PRINT command result message.
- NOMSg - Requests that the PRINT command result message is not displayed. Error messages are not suppressed.

ROWDISP

Row display

New OPTIONS subcommand keywords:

- Hex, NOHex - Controls whether the data field values that contain nondisplayable characters are displayed in hexadecimal format.

New data fields:

- Description - Displays the field description.

SCREEN

Screen field attributes

The default color attribute for the "dummy input field" field type has been changed to YELLOW in the default profile.

Name Type Intens Color Hilite Description
DUmmy INPUT LOW YELLOW NONE Dummy data input fields

SCHEDULE

Scheduled events

New Time Series Facility Data Collection Event Functions:

- MVS-TSF-CHANNELS - Channels
- MVS-TSF-CPU - CPU processors
- MVS-TSF-DEVICES - DASD and tape devices
- MVS-TSF-JOBS - Address spaces/jobs
- MVS-TSF-SYSTEM - System level metrics
- MVS-TSF-USS - UNIX System Services

- MQS-TSF-BUFPOOLS - Buffer pools
- MQS-TSF-CHANNELS - Channels
- MQS-TSF-PAGESETS - Page sets
- MQS-TSF-QMGRS - Queue manager status
- MQS-TSF-QUEUES - Queues

- IMS-TSF-BUFPOOLS - Buffer pools
- IMS-TSF-POOLS - Pools
- IMS-TSF-SYSTEM - System level metrics
- IMS-TSF-TRANS - Transactions

- IMSDATA-BALGRPS - Balance groups
- IMSDATA-DATABASE - Databases
- IMSDATA-ESUBSYS - External subsystems
- IMSDATA-LOCKS - IRLM locks
- IMSDATA-LTERMS - Logical terms
- IMSDATA-OSAM - OSAM buffer pools
- IMSDATA-OTMA - Open Transaction Manager Access
- IMSDATA-VSAM - VSAM buffer pools

SELECT

Set the field selection criteria

The SELECT command can be used to select data rows of filter data based on the contents of a defined logical group. A list of items can be defined in a logical group and then used in the SELECT command.

Syntax:

```
SELECT field oper value
```

New oper keywords:

- IN - The value parameter specifies the field value in a logical group name and logical group type.
- NI - The value parameter specifies the field value not in a logical group name and logical group.

The value parameter has the following syntax when you specify either the IN (in group) or NI (not in group) operators:

```
groupname</grouptype>
```

The GROUPS command displays information about the defined logical groups and types. The FIELDS command displays the default logical group type that is defined for a field.

- Type - JOBNAME
- Group - CICSBANK
- Members - CICSAREC, CICSAPAY, CICSCHCK, CICSSAVE

Issue the following SELECT command from a display that contains job names. The data rows that contain any of the defined job names in the logical group are displayed:

```
SELECT JOBNAME IN CICSBANK
```

or

```
SELECT JOBNAME IN CICSBANK/JOBNAME
```

STATUS

Product status

New data field:

- SMTP
  - Host Name
  - Port Number
  - IP Version
- Facilities
  - Decimal floating-point zoned conversion
  - Execution hint
  - Load and trap
  - Miscellaneous instruction extensions
  - Processor assist
  - Constrained transactional execution
  - Local TLB clearing
  - Interlocked access
  - Transactional execution
  - Enhanced DAT 2

SYSDMON

System data collection monitor

Renamed data field:

- The field XSystem was renamed to XSSystem.

  Indicates the system name of the origin of the data. The home system name is highlighted.

USERS

Product users

Syntax:

USERS <options>

New option parameters:

- XSdata, XSystem, NOXSdata, NOXSystem - Controls whether cross system data collection is forced on or off for this execution.

  Default: XSDATA

  Note: None of these keywords are supported on the USERS command OPTIONS subcommand.

- SSid NOSSid - Controls the display of CA SYSVIEW sessions.
  - SSID displays only CA SYSVIEW sessions using the same SSID as the current session.
  - NOSSID displays all sessions with any SSID.
- Rels, NORels, Release, NORelease - Controls the display of CA SYSVIEW releases.
  - RELS displays only sessions that are the same release as the current session.
  - NORELS displays all sessions at any release.

Renamed data fields:

- New name: JStat

  Status was renamed to JStat.

- New name: TStat

  Task was renamed to TStat.

VLIST

List user and system variables.

New data fields:

- DModule - The name of the module that defined the variable.
- DOffset - The offset within the defining module to the call to define the variable.
- DRoutine - The name of the routine with the module that defined the variable.

Renamed data fields:

- New name: XAddr

  Exit was renamed to XAddr.
- New name: XModule

  Module was renamed to XModule.
- New name: XOffs
- Offset was renamed to XOffs.
- New name: XParm

  Parm was renamed to XParm.

XSCMDS

XSystem capable commands

New information section field:

- DataLenLim - Indicates the limit for all cross-system data this system supports. The XSYSTEM PARMLIBXsdsGetCmdDataLenLimit parameter value sets this limit. This value is the limit for all of the received data from all cross-system data servers. The data for any system that exceeds this value is discarded.

Changed information section fields:

- DataLenMax - Indicates the maximum cross-system data length this system supports. The XsdsGetCmdDataMaxLenXSYSTEM PARMLIB parameter value sets this limit. Requesting cross-system data sends this value to the remote system cross-system data server where it is compared to the remote system value. The smaller of the two is used to limit the amount of data that can be returned.

Renamed data field:

- New name: DatLenMax

  The field MaxData was renamed to DatLenMax.

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
- Data collection attributes
- Data collection scheduling

New data collection event functions have been added. The new events are dynamically added to existing schedules during the initialization of the IMS data collection task MVSDATA. The Event Scheduler definitions are added to the parmlib member SCHDMVS.

CICS Monitoring

This event monitors:

- The execution status of a CICS address space
- The status of CA SYSVIEW monitoring of the CICS address space

```
DEFINE MVS-CICSMON
        GROUP - MVSDATA
        DESC - 'MVS data collection - CICS Monitoring
        TYPE - RECUR
        ALLDAYS
        DATEBEGIN *       DATEEND *
        TIMEBEGIN  MIDNIGHT  TIMEEND *
        EVERY     1MINUTE
        LIMIT - NOLIMIT
        FUNCTION   MVSDATA-CICSMON
        PARMS     *
        ENABLED
ENDDEFINE
```

Commands Enhanced for the z/OS Component

The following enhancements have been made to existing commands:

ABENDX

Displays the Abend exits.

New data fields:

- ALET - The ALET associated with the parameter address for an exit you defined with ESTAEX. The ALET is blank when the exit amode equals 64. In this case, the parameter address is 64 bits and ALET is not provided.
- AM - The exit amode. Values can be 24, 31, or 64.
- ASC - The exit ASC mode. Values can be PRI or AR.
- SpieOv - This value is SPIEOV when the macro that specified the exit has SPIEOVERRIDE=YES. Otherwise, it is blank.

ACTSUM

Displays the job activity summary.

New data fields:

- Slot% -

  Indicates the Slot percent in use.

ASPERF

Address space performance.

Syntax:

```
ASPERF  < XSYStem | NOXSYStem >
        < XSData  | NOXSData  >
        < JOBName   jobname   >
```

New syntax parameters:

- JOBName - Limit the display to only those entries with a corresponding value in the Jobname field.

Renamed data fields:

- New name: XSSystem

  The field XSystem was renamed to XSSystem, which is the system name of the origin of the data. The home system name is highlighted.

CPU

Displays CPU information. The command has been enabled for cross system data.

New syntax parameters:

- XSdata, XSystem, NOXSdata, NOXSystem - Controls whether cross system data collection is forced on or off for this execution. The XSDATA profile setting is used when none of these keywords are specified. The use of any of these keywords does not alter the XSDATA profile setting.

DASD

Displays the DASD units. The command has been enabled for cross system data.

MTT

Master Trace Table

New data fields:

- RouteCodes - The route codes that are associated with the message.

  Note: The route code information available for the Master Trace Table messages includes only route codes 1 through 56. The full range of route codes are 1 through 128.

- Flags - Message processing flags. The following values are valid:
  - AN - Automation not required.
  - AQ - Automation is required.
  - AR - Automation requested.
  - BC - Message is broadcasted to all consoles.
  - BH - Message bypassed hardcopy.
  - CI - Change 4-byte cons id.
  - CK - Change retrieval key.
  - CT - Change message type.
  - DC - DESC= values changed.
  - DL - Message was deleted.
  - FA - Message flood automation processed the message.
  - FH - Message is forced to hardcopy.
  - FO - Message is forced to hardcopy only.
  - HO - Message is issued as hardcopy only.
  - IC - The console ID to which the message was queued, was changed.
  - IR - Message is not processed because of an incompatible request.
  - ML - Minor lines processed.
  - NB - Message was not broadcasted.
  - NX - No user exit serviced the message.
  - QC - Message queued to a specific console.
  - QR - Message queued by route codes only.
  - RC - ROUTCDE values changed.
  - SM - Message suppression by MPF or message flood automation.
  - SO - MPF suppression was overridden.
  - SS - Message suppression by a subsystem.

- SX - WTO user exit suppressed the Message.
- TC - Message text changed.
- XA - User exit abend during message processing.
- XN - User exit request not to retain this message.
- XR - User exit request to retain this message.

New line commands:

- Reply - Invokes the MTT REPLY screen which displays the selected WTOR message and provides an input field for supplying a reply to the WTOR message. For more information, see the MTT REPLY screen. The REPLY line command is only valid when the first character in the "Type" field is "U" or "W".
- Log - Invokes the SYSLOG command positioning the SYSLOG display at the date and time the WTOR was issued.

MOBJECTS

Memory objects summary

New information section fields:

- LFASize, Reconfig - The Large Frame Area (LFAREA) reconfigurable size.
- NonReconfig - The Large Frame Area (LFAREA) nonreconfigurable size.

New data fields:

- LFAUsed - Indicates the percentage of the large frame area (LFAREA) that this address space uses.
- LPCnt - Indicates the count of large page memory objects that are allocated.
- LRCnt - Indicates the count of large page memory objects that are backed in the real storage.

MONITOR

Displays monitor definitions

New syntax:

MONITOR < ADDLINE | NOADDLINE >

ADDLINE

Displays the "?Add" line.

NOADDLINE

Does not display the "?Add" line.

PARTINFO

Partition information. The command has been enabled for cross system data.

PARTINFO <options>

New syntax parameters:

- XSdata, XSystem, NOXSdata, NOXSystem - Controls whether cross-system data collection is forced on or off for this execution. The use of any of these keywords does not alter the XSDATA profile setting.

  Default: XSDATA

PPT

Program Properties Table

ADD pgmname options

REPLACE pgmname options

New subcommand parameters:

- CRPG - The program is critical to Hyperswap operation and does not allow any of its pages to be stolen.

New data fields:

- CRPG - The program is critical to Hyperswap operation and does not allow any of its pages to be stolen.

PRISM

PR/SM and LPAR information. The command has been enabled for cross system data.

PRISM <options>

New syntax parameters:

- XSdata, XSystem, NOXSdata, NOXSystem - Controls whether cross-system data collection is forced on or off for this execution. The use of any of these keywords does not alter the XSDATA profile setting.

  Default: XSDATA

STATES

State definition

New syntax:

STATES < ADDLINE | NOADDLINE >

ADDLINE

Displays the "?Add" line.

NOADDLINE

Does not display the "?Add" line.

SYSTEMS

Displays the Systems Overview menu.

Syntax:

SYSTEMS <ALL|CURRENT|HOME|SSID|RELEASE|BOTH>

New syntax parameters:

- SSID - Display information from all systems that are reachable through the CAICCI communication network. The SSID matches the SSID of the current session and any release.
- RELEASE - Display information from all systems that are reachable through the CAICCI communication network. The release matches the release of the current session and any SSID.
- BOTH - Display information from all systems that are reachable through the CAICCI communication network. The SSID and release matches the SSID and release of the current session.

New data fields:

- The following fields show the status of the various <product name> options and components: BASE, CAPTURE, CEAPM, CHORUS, CICS, DATACOM, DB2, HCHECK, IMS, MIM, MQSERIES, MVS, ROSCOE, SERVER, TCPIP, USS, XSYSTEM. Each of the fields can have the following values:
  - blank - The feature was not requested or its status cannot be determined.
  - DISABLED - The feature was requested but is disabled and was not authorized for use.
  - ENABLED - The feature was requested and is enabled for use.

  These field names correspond to the following system configuration options:
  - BASE - Option-BASE
  - CAPTURE - Option-Event-Capture
  - CEAPM - Option-CEAPM
  - CHORUS - Option-CHORUS
  - CICS - Option-CICS
  - DATACOM - Option-DATACOM
  - DB2 - Component-DB2
  - HCHECK - Component-Health-Check
  - IMS - Option-IMS
  - MIM - Component-MIM
  - MQSERIES - Option-WebSphereMQ
  - MVS - Option-MVS

- ROSCOE - Component-ROSCOE
- SERVER - Option-Server
- TCPIP - Option-TCPIP
- USS - Component-USS
- XSYSTEM - Component-XSYSTEM

THRESH

Threshold definitions

New syntax:

THRESH < ADDLINE | NOADDLINE >

ADDLINE

Displays the "?Add" line.

NOADDLINE

Does not display the "?Add" line.

UDIRTREE

USS directory tree structure. You can interrupt the command using ATTN (or PA1 if using the VTAM interface).

New data fields:

- Lvl - The level of the directory relative to the top directory requested.
- RetCode - If the Message field is not blank then this field contains the return code from the failing z/OS UNIX System Service routine.
- RsnCode - If the Message field is not blank then this field contains the reason code from the failing z/OS UNIX System Service routine.
- ModName - If the Message field is not blank then this field contains the failing z/OS UNIX System Service module name.
- SvcName - If the Message field is not blank then this field contains the failing z/OS UNIX System Service service name.

Renamed data fields:

- Renamed Directory-Tree to DirectoryTree.

New subcommands:

- OPTIONS - The following list explains the valid OPTIONS <opts> parameter values. Any number of the values can be specified in any order. The current settings of all options are always displayed in response to the OPTIONS subcommand.
  - INDENT4, INDENT3, INDENT2 - Controls the number of indentation positions for each new directory level in the directory tree display field.
  - NOGrid, Grid - Controls the display of the background grid in the directory tree display field.
  - EXTRact - Requests that the current option settings be extracted into a TSO CLIST or REXX exec variable. The created or updated variable is named SYSV_OPTIONS_UDIRTREE. This keyword is only valid when the product is running under a TSO CLIST or REXX EXEC. EXTRACT can be specified alone or in combination with any other OPTIONS keywords.

UFILESYS

USS-mounted file systems

This command has been enabled for cross-system data.

New line commands:

- SP - Selects the file system detail display and prints the results.

ULISTDIR

USS List Directory

New line commands:

- SP - Selects the directory entry detail display and prints the results.

New data fields:

- ShLb - Shared library indicator.
- AACL - Access ACL (Access Control List) indicator.
- DACL - Directory model ACL (Access Control List) indicator.
- FACL - File model ACL (Access Control List) indicator.
- SecLabel - The SecLabel.
- CCSID - Coded character set identifier.
- Txt - A text file.

New Rows added:

- Shared library
- Access ACL exists
- Directory model ACL exists
- File model ACL exists
- SecLabel
- Coded character set ID
- Text file flag

UPROCESS

USS processes

New line commands:

- SP - Selects the process detail display and prints the results.

VARS

z/OS monitor variables.

New data fields:

- TSF - Specifies if the variable metric is eligible for Time Series Facility processing.

WMSYSSUM

WLM system summary

New data fields:

- GoalType - Goal type. Possible values are:
  - RESPPCT - Response time percent
  - RESPAVG - Response time average
  - VELOCITY - Velocity
  - DISCRETE - Discrete
  - SYSTEM - System

WTOR

WTO reply required messages

New line commands:

- Reply - Invokes the WTOR REPLY screen which displays the selected WTOR message and provides an input field for supplying a reply to the WTOR message. For more information, see the WTOR REPLY screen.

Data Collection Threshold Metrics Added

The following threshold metrics enhance data collection.

JOBSLOT%

Slot percent in use.

Resource: Jobname

STGAFLGN

Available pageable large groups non preferred.

Resource: none

STGAFLGP

Available pageable large groups preferred.

Resource: none

STGAFLSN

Available pageable large single non preferred.

Resource: none

STGAFLSP

Available pageable large single preferred.

Resource: none

STGAFQNA

Available frame queue non preferred above.

Resource: none

STGAFQNB

Available frame queue non preferred below.

Resource: none

STGAFQNG

Available frame queue non preferred grande (64-bit) storage.

Resource: none

STGAFQPA

Available frame queue preferred above.

Resource: none

STGAFQPB

Available frame queue preferred below

Resource: none

STGAFQPG

Available frame queue preferred grande (64-bit) storage.

Resource: none

STGAFQQG

Available quad frame groups.

Resource: none

STGAFQQS

Available quad single frames.

Resource: none

Starting at release r13.5, the metrics contain 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 interval time.

Resource: Jobname

JOBCPUTT

CPU total time.

Resource: Jobname

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

JOBIIP%

IIP usage percentage.

Resource: Jobname

JOBIIPT%

IIP usage percentage total.

Resource: Jobname

JOBIIPTM

IIP CPU interval time.

Resource: Jobname

JOBIIPTT

IIP CPU total time.

Resource: Jobname

Data Collection State Metrics

The state metrics have been enhanced to include new data collection metrics.

CICSEXEC

CICS execution stage.

Resource: Jobname

CICSMON

CICS monitor status.

Resource: Jobname

JOBSRVCL

WLM service class.

Resource: Jobname

Configuration Options - Parmlib Member MVSDATA

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

MONITOR-JOB-SERVICE-CLASS

Monitor the current service class of active jobs.

Default = YES

New Topic (259)

The VARIABLE-SET option can be used to control the set of data collection metrics. The new action is defined to control the set of metrics that are sent to the Time Series Facility as part of the CA Chorus Infrastructure Management for Networks and Systems. Only those metrics that are defined as TSF eligible can be enabled or disabled. The eligible list can be viewed on the VARS command.

VARIABLE-SET

source:variable:actions

- source - Indicates MVS.
- variable - Indicates the name of data collection metric. You can specify this name generically.

  variable-length mask character: =

  fixed-length mask character: *
- actions - Indicates the actions to apply:
  - ENAbled - Enable collection
  - DISabled - Disable collection TSF is also disabled.
  - TSF - Enable TSF collection. The metric must also be enabled.
  - NOTSF - Disable TSF collection.

JES2 and JES3

JES2 and JES3 have been enhanced.

Commands Enhanced

The following enhancements have been made to existing commands.

JHELDQUE

JES held output queue

Renamed command:

- The command LISTHELD was renamed to JHELDQUE.

New command:

- The synonym LISTHELD has been defined.

Support added for JES3 1.13 and higher releases.

JHELDQUE <jobname><,type><,outcl><,dest><,forms><,flash><,detail>

New syntax parameters:

- Detail - Displays detailed data for output groups.
- Nodetail - Displays no detail data for output groups.

Renamed data fields:

- Account - Acct has been renamed to Account.
- Flash - Flsh has been renamed to Flash.
- InpCnt - Cards has been renamed to InpCnt.
- InpDate - Rdr-Date has been renamed to InpDate.
- InpSys - Isys has been renamed to InpSys.
- InpTime - Rdr-Time has been renamed to InpTime.
- MsgClass - Mc has been renamed to MsgClass.
- TotPges - Tot-Pges has been renamed to TotPges.

New subcommands:

- Options - Set and display available options.
  - DETAIL, NODETAIL - Controls whether detail data is displayed. Displaying detail data requires more processing time. If the limited data is sufficient, then setting this option to NODETAIL saves you CPU time and provides a faster response.

JJOBQUE

JES job queues

Renamed command:

- The command LISTJOBS was renamed to JJOBQUE.

New command:

- The synonym LISTJOBS has been defined.

Support added for JES3.

JJOBQUE <jobname><,type><,queue><,stat><,jobcl><,outcl><,dest><,forms><,flash><,detail>

New syntax parameters:

- Detail - Displays detailed data for output groups.
- Nodetail - Displays no detail data for output groups.

Renamed data fields:

- Account - Acct has been renamed to Account.
- Flash - Flsh has been renamed to Flash.
- ASys - Osys has been renamed to ASys.
- InpCnt - Cards has been renamed to InpCnt.
- InpDate - Rdr-Date has been renamed to InpDate.
- InpSys - Isys has been renamed to InpSys.
- InpTime - Rdr-Time has been renamed to InpTime.
- MsgClass - Mc has been renamed to MsgClass.
- TotPges - Tot-Pges has been renamed to TotPges.

New sub-commands:

- Options - Sets and displays available options.
  - DETAIL, NODETAIL - Controls whether detail data is displayed. Displaying detail data requires more processing time. If the limited data is sufficient, then setting this option to NODETAIL saves CPU time and provides a faster response.

JOBSUM

JES job summary.

JOBSUM <jobname><,type><,queue><,stat><,jobcl><,spct><,svol>,<det>

New syntax parameters:

- Detail - Displays detailed data for output groups.
- Nodetail - Displays no detail data for output groups.

New sub-commands:

- Options - Sets and displays available options.
  - DETAIL, NODETAIL - Controls whether detail data is displayed. Displaying detail data requires more processing time. If the limited data is sufficient, then setting this option to NODETAIL saves CPU time and provides a faster response.

JOUTQUE

JES output queue.

Renamed command:

- The command LISTOUT was renamed to JOUTQUE.

New command:

- The synonym LISTOUT has been defined.

Support has been added for JES3 1.13 and higher releases.

JOUTQUE <jobname><,type><,stat><,outcl><,dest><,forms><,flash><,detail>

New syntax parameters:

- Detail - Displays detailed data for output groups.
- Nodetail - Displays no detail data for output groups.

Renamed data fields:

- Account - Acct has been renamed to Account.
- Flash - Flsh has been renamed to Flash.
- InpCnt - Cards has been renamed to InpCnt.
- InpDate - Rdr-Date has been renamed to InpDate.
- InpSys - Isys has been renamed to InpSys.
- InpTime - Rdr-Time has been renamed to InpTime.
- MsgClass - Mc has been renamed to MsgClass.
- TotPges - Tot-Pges has been renamed to TotPges.

New sub-commands:

- Options - Sets and displays available options.
  - DETAIL, NODETAIL - Controls whether detail data is displayed. Displaying detail data requires more processing time. If the limited data is sufficient, then setting this option to NODETAIL saves CPU time and provides a faster response.

JSPOOLS

JES spool volumes

Renamed command:

- The command SPOOLS was renamed to JSPOOLS.

New subcommand:

- ADD = Adds a spool volume.

Option for CICS

The CA SYSVIEW Option for CICS has been enhanced.

Data Collection for Delayed Transactions

You would verify the following configuration settings when a CICS transaction is not immediately attached during startup:

- Control maximum tasks
- Transaction class maximums

In such a case, the transaction is delayed for the first dispatch. CICS monitoring and CA SYSVIEW transaction monitoring have not yet started monitoring the delayed transaction.

The CA SYSVIEW transaction monitoring has been enhanced. The following metrics are available to enable dynamic transaction exception monitoring for transactions that are in the state of being delayed for the first dispatch:

DSPDELAY

Delay time of the first dispatch.

LIFETIME

Life time of the transaction.

MXTDELAY

Maximum delay of the first dispatch.

SUSPTIME

Suspend time.

TCLDELAY

Transaction class delay of the first dispatch.

Data Collection Resources Added

Data collection event functions have been added.

The CA SYSVIEW Event Scheduler controls and schedules data collection events. The new events are dynamically added to existing schedules during the initialization of the CICS data collector.

The following Event Scheduler definitions have been added to the parmlib member SCHDCICS:

- IP Connections

```
DEFINE STATE-IPCONN
        DESC      'States - IP Connections
        GROUP     CICSDATA
        TYPE      RECUR
        ALLDAYS
        DATEBEGIN *       DATEEND *
        TIMEBEGIN  MIDNIGHT  TIMEEND *
        EVERY     00:01:00
        LIMIT     NOLIMIT
        FUNCTION  STATE-IPCONN
        ENABLED
ENDDEFINE
```

- Pipelines

```
DEFINE STATE-PIPELINES
        DESC      'States - Pipelines
        GROUP     CICSDATA
        TYPE      RECUR
        ALLDAYS
        DATEBEGIN *       DATEEND *
        TIMEBEGIN  MIDNIGHT  TIMEEND *
        EVERY     00:01:00
        LIMIT     NOLIMIT
        FUNCTION  STATE-PIPELINES
        ENABLED
ENDDEFINE
```

Commands Added to the Option for CICS

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

CDISP

Provides information about the CICS dispatcher.

CTCBMODE

Provides information about the CICS TCB modes.

CPROCTYP

Provides information about the CICS Process types.

CRESUSE

Provides information about the CICS resource usage.

CTCBPOOL

Provides information about the CICS TCB pools.

CVLIST

Provides information about the Symbolic variable list.

Commands Enhanced

The following enhancements have been made to existing commands.

CALERTS

CICS exception alerts

New line commands:

- RULE - Invokes the CTHRESH or CSTATES command selecting the associated alert definition.

Renamed data fields:

- XSystem was renamed to XSSystem.

CATOMS

CICS atom services

New data fields:

- PostFeed - The number of times a POST was issued for feed.
- GetFeed - The number of times a GET was issued for feed.
- GetEntry - The number of times a GET was issued for entry.
- PutEntry - The number of times a PUT was issued for entry.
- DelEntry - The number of times a DELETE was issued for entry.

Renamed data fields:

- XSystem was renamed to XSSystem.

CCHANNEL

CICS channels

Renamed data fields:

- XSystem was renamed to XSSystem.

CCONFIG

CICS configuration options

New data fields:

- Set - Indicates that the option has been set.

Renamed data fields:

- XSystem was renamed to XSSystem.

New line commands:

- Select, Help- Invokes online help positioning to the selected configuration option.

CCONN

CICS connections

Renamed data fields:

- XSystem was renamed to XSSystem.

CCONTAIN

CICS containers

Renamed data fields:

- XSystem was renamed to XSSystem.

CDATAMON

CICS data monitoring statistics

New data fields:

- CpuTSFT - The total CPU time that the time series facility task consumed.
- TSFT% - The percentage of the CICS CPU time that the time series facility task used.
- CpTSFT - The amount of CPU time that the time series facility task consumed on a CP.
- EnclTSFT - The amount of CPU time that the time series facility task consumed on an enclave.
- eTSFT% - The percent of the total CPU time that the time series facility task used on an enclave.

New line commands:

- Select - Invokes the CREVIEW command for display interval statistics.

CDB2CSUB

CICS DB2 Connection State Blocks.

The command has been enabled for cross-system data.

Syntax:

CDB2CSUB < REGion | SYStem | XSYStem | NOXSYStem >
< Local | Global | XSData | NOXSData >
< GROUP name >

- REGion, Local - Displays only the current target address space. The cross-system data collection is set to off for this execution. The current profile setting of XSDATA is maintained.
- SYStem, Global - Displays all CICS address spaces currently being monitored on the current system.
- XSYStem, XSData - Displays all CICS address spaces for all systems. This sets cross-system data collection to on for this execution. The current profile setting of XSDATA is maintained.
- NOXSYStem, NOXSData - Sets cross-system data collection to off for this execution. The current profile setting of XSDATA is maintained.
- GROUP - Specifies that an argument is to follow. The group name that contains the list of CICS regions displays. The list of available groups with the type CICSPLEX can be found on the GROUPS command. A group name of "*" can be entered to indicate that no group processing is required.

New data fields:

- Jobname - The name of the CICS job.
- SSID - The DB2 subsystem ID.
- ACE - The address of the Agent Control Element (ACE) control block.

New line commands:

- Select - Invokes the DBTHACT command to display specific information about the selected thread.
- IDB2 - Invokes the IDB2 (CA Insight for DB2) command to display specific information about the selected thread.

CDSAS

CICS dynamic storage areas

New data fields:

- Access - The access type of the DSA. Possible values are:
  - blank
  - CICS
  - USER

- READ
- TRUST
- SECURE

CENQUEUE

CICS enqueues

Renamed data fields:

- XSystem was renamed to XSSystem.

CENQPOOL

CICS enqueue pools

Renamed data fields:

- XSystem was renamed to XSSystem.

CEPBS

CICS exit program blocks

Renamed data fields:

- XSystem was renamed to XSSystem.

CFILEREQ

CICS configuration options

Renamed data fields:

- XSystem was renamed to XSSystem.

CFILES

CICS file control table entries

Renamed data fields:

- XSystem was renamed to XSSystem.

CFILEUSE

CICS files in use

Renamed data fields:

- XSystem was renamed to XSSystem.

CGBLEXIT

CICS global user exits

Renamed data fields:

- XSystem was renamed to XSSystem.

CICSLIST

CICS regions

New data fields:

- Status - The current monitoring status. Possible values are:
  - ACTIVE - The CICS monitor is active. Possible Execution Stages: Executing and Shutdown stage 1 or 2.
  - CICSINIT - The CICS monitor is not active. Possible Execution Stages: Initialization. The CICS region has previously been monitored.
  - CICSTERM - The CICS monitor is not active. Possible Execution Stages: Cancel and Shutdown. The CICS region has previously been monitored.
  - INACTIVE - The CICS monitor is not active. Possible Execution Stages: Executing. The CICS region has previously been monitored.
  - JOBINACT - The CICS monitor is not active. The CICS region is not active. Possible Execution Stages: Inactive. The CICS region has previously been monitored.
  - NONE - The CICS monitor is not active. Possible Execution Stages:

    Initialization

    Cancel

    Shutdown
  - NOSTART - The CICS monitor is not active. Possible Execution Stages: Executing. The CICS monitor has never been active for this region after IPL.
  - SWAPPED - The CICS region is logically swapped out. The CICS monitor is either inactive or has never been active for this region after IPL.

CICSLOGR

CICS data loggers

New data fields:

- TranLog - Status of transaction logging to a log stream.
- TranSMF - Status of SMF transaction logging.
- TranDyn - Status of transaction logging to the dynamic exit GSVX.CICSTRAN.
- TSumLog - Status of logging the transaction summary to a log stream.
- TSumSMF - Status of logging the SMF transaction summary.
- TSumDyn - Status of logging the transaction summary to the dynamic exit GSVX.CICSTSUM.
- SysDLog - Status of system data logging to a log stream.
- SysDSMF - Status of SMF system data logging.
- SysDDyn - Status of system data logging to the dynamic exit GSVX.CICSSYSD.
- XLogLog - Status of exception logging to a log stream.
- XLogSMF - Status of SMF exception logging.
- XLogDyn - Status of exception logging to the dynamic exit GSVX.CICSXLOG.

New line commands:

- TRANLOG - Enable transaction logging to the log stream.
- NOTRANL - Disable transaction logging to the log stream.
- TRANSMF - Enable SMF transaction logging.
- NOTRANS - Disable SMF transaction logging.
- SYSDLOG - Enable system data logging to the log stream.
- NOSYSDL - Disable system data logging to the log stream.
- SYSDSMF - Enable SMF system data logging.
- NOSYSDS - Disable SMF system data logging.
- TSUMLOG - Enable logging the transaction summary to the log stream.
- NOTSUML - Disable logging the transaction summary to the log stream.
- TSUMSMF - Enable logging the SMF transaction summary.
- NOTSUMS - Disable logging the SMF transaction summary.
- XLOGLOG - Enable exception logging to the log stream.
- NOXLOGL - Disable exception logging to the log stream.
- XLOGSMF - Enable SMF exception logging.
- NOXLOGS - Disable SMF exception logging

CIPCONN

CICS IP connections

Renamed data fields:

- XSystem was renamed as XSSystem.

CJINFO

CICS journal information

Renamed data fields:

- XSystem was renamed as XSSystem.

CJMODEL

CICS journal models

Renamed data fields:

- XSystem was renamed as XSSystem.

CJVMPROG

CICS JVM programs

Renamed data fields:

- XSystem was renamed as XSSystem.

CJVMS

CICS JVMs

Renamed data fields:

- XSystem was renamed as XSSystem.

CJVMSERV

CICS JVM servers

Renamed data fields:

- XSystem was renamed as XSSystem.

CLIBS

CICS libraries

Renamed data fields:

- XSystem was renamed as XSSystem.

CLIFE

CICS lifetime range statistics

The available lifetime ranges have been expanded to include the following ranges:

0.000001 <=0.100000
0.100001 <= 0.250000

0.250001 <= 0.500000
0.500001 <= 1.000000
1.000001 <= 2.000000
2.000001 <= 5.000000
5.000001 <= 10.000000
10.000001 <= 30.000000
30.000001 <= 60.000000
> 60.000000

Syntax:

CLIFE < TRAN * | tran | group >< REGion | SYStem | XSYStem | NOXSYStem >

< Local | Global | XSData | NOXSData >

< GROUP name >

New syntax parameters:

- TRAN - Specify the transaction ID for displaying the lifetime range.

  * - All transactions

  tran - Specific transaction ID. Enter c'tran' if you want mixed case.

  group - transaction group

Renamed data fields:

- XSystem was renamed as XSSystem.

CLOCKMGR

CICS lock manager

Renamed data fields:

- XSystem was renamed as XSSystem.

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.

CMODES

CICS modenames

Renamed data fields:

- XSystem was renamed as XSSystem.

CMODS

CICS data collection modules

Renamed data fields:

- XSystem was renamed as XSSystem.

CPIPE

CICS pipelines

Renamed data fields:

- XSystem was renamed as XSSystem.

CPROFILE

CICS profiles

Renamed data fields:

- XSystem was renamed as XSSystem.

CPROGRAM

CICS program statistics

New data fields:

- JVM - Runs the program under JVM.
- JVMServer - The JVM server resource name.
- JVMProf - The JVM profile member name.

Renamed data fields:

- XSystem was renamed as XSSystem.

CREVIEW

CICS Transaction Interval Activity

Starting at release r13.7, the transaction interval activity is collected in 1-minute intervals.

Syntax:

```
CREVIEW < INTerval minutes >
< REGion | SYStem | XSYStem | NOXSYStem >
< Local  | Global | XSData  | NOXSData  >
< GROUP  name >
```

New syntax parameters:

- INTERVAL - Specify the summarization interval for data rows. The interval data is available in 1-minute increments for the past 24 hours.

New data fields:

- RMITime - The average resource manager time.
- GSVICPU - Global user exit CPU time.
- GSVITime - Global user exit monitor.
- CICSCPU - The amount of consumed CPU time by the CICS address space after starting the data collector.

- ReqsGLUE - The total number of CICS Global User Exit requests that have been processed.
- CpuGLUE - The total consumed CPU time by the data collector while processing the CICS Global User Exit requests.
- GLUE% - The percentage of used CICS CPU time by the GLUE data collection process.
- CpuSDC - The total consumed CPU time by the System data collector.
- SDCS% - The percentage of used CICS CPU time by the System data collection process.
- ReqsXDIS - The total number of External Data Interface requests that have been processed.
- CpuXDIS - The total consumed CPU time by the External Data Interface task.
- XDIS% - The percentage of used CICS CPU time by the External Data Interface task.
- CpuSCHT - The total consumed CPU time by the scheduler.
- SCHT% - The percentage of used CICS CPU time by the scheduler process.
- CpuTPPT - The total consumed CPU time by the transaction postprocessor task.
- TPPT% - The percentage of used CICS CPU time by the transaction postprocessor task.
- CpuLOGT - The total consumed CPU time by the message logger task.
- LOGT% - The percentage of used CICS CPU time by the message logger task.
- CpuTSFT - The total consumed CPU time by the time series facility task.
- TSFT% - The percentage of used CICS CPU time by the time series facility task.

Renamed data fields:

- Renamed Hour to Interval.
- Renamed XSystem to XSSystem.

New line commands:

- Select - Redisplays the transaction information specifying an interval of one-minute and positioning to the selected interval. Minute interval data is available in release 13.7 and higher.

CSCHEDUL

CICS scheduled events

New event functions:

- STATE-IPCONN - CICS IP connections
- STATE-PIPELINES - CICS pipelines
- TSF-SYSTEM - Time Series Facility - System Data

- TSF-TRANS - Time Series Facility - Transactions

New data fields:

- Deg - Specifies if the variable metric is associated with degradation analysis.
- TSF - Specifies if the variable metric is eligible for Time Series Facility processing.

CSIT

CICS system initialization table

Renamed data fields:

- XSystem was renamed as XSSystem.

CSITINIT

CICS initialization parameters

Renamed data fields:

- Renamed XSystem to XSSystem.

CSOCKETS

CICS sockets

Renamed data fields:

- Renamed XSystem to XSSystem.

CSOCKUSE

CICS socket users

Renamed data fields:

- Renamed XSystem to XSSystem.

CSTATES

CICS state definitions

Syntax:

CSTATES < ADDLINE | NOADDLINE >

- ADDLINE - Display the "?Add" line.
- NOADDLINE - Do not display the "?Add" line.

CSUBPOOL

CICS dynamic storage subpools

CSUBPOOL < REGion | SYStem | XSYStem | NOXSYStem >
< Local | Global | XSData | NOXSData >
< GROUP name >

New data fields:

- Access - The access type of the subpool.

- AllocHWM - The high water mark of storage that is allocated to the subpool.
- FixedLen - The length of each element in the subpool. Valid only for the fixed type subpools.
- InitFree - The total storage that is allocated when the domain subpool is preallocated.
- MaxFree - The largest free storage element. Valid only for the grande (64-bit) DSA subpools.
- Pct% - The percentage of storage used in the owning DSA.
- Type - Element type.

CSYSDMON

CICS system data monitor

Renamed data fields:

- Renamed XSystem to XSSystem.

CTASKENT

CICS kernel task table entries

Renamed data fields:

- Renamed XSystem to XSSystem.

CTASKS

CICS active tasks

Changed line commands:

- Select - Invokes the SMFRPT command to display a real-time report of detailed transaction information for the selected task.

Renamed data fields:

- Renamed XSystem to XSSystem.

CTCLASS

CICS transaction classes

Renamed data fields:

- Renamed XSystem to XSSystem.

CTDATA

CICS transient data queues

Renamed data fields:

- Renamed XSystem to XSSystem.

CTERMS

CICS terminal statistics

Renamed data fields:

- Renamed XSystem to XSSystem.

CTHRESH

CICS threshold definitions

Syntax:

CTHRESH < ADDLINE | NOADDLINE >

- ADDLINE - Display the "?Add" line.
- NOADDLINE - Do not display the "?Add" line.

CTRANLOG

CICS transaction log summary

New line commands:

- SP - Displays the detail screen for a record, prints the detail report to a SYSOUT data set, and then returns to the CTRANLOG screen. This line command opens an unopened SYSOUT print data set. All subsequent SP line commands print to the same SYSOUT data set until a PRINT CLOSE command is issued or until the session terminates.

CTRANOPT

CICS transaction options.

New data field:

- TSF - Specifies whether to send statistics for the transaction to the CA Chorus Time Series Facility.

Renamed data fields:

- Renamed WilyAPM to CEAPM.

CTRANS

CICS transaction summary.

Displays an additional data row that contains a statistical summary for all "*" transactions.

New data field:

- Attaches - The number of transactions attached.

New line command:

- DEG - Invokes the CWAITS command to show degradation analysis for the selected transaction.
- LIFE - Invokes the CLIFE command to show the lifetime analysis for the selected transaction.

Renamed data fields:

- Renamed XSystem to XSSystem.

CTRANSUM

CICS transaction intervals

The CICS transaction summary record has been expanded to contain all degradation analysis metrics.

CTSMODEL

CICS temporary storage models

Renamed data fields:

- Renamed XSystem to XSSystem.

CTSPOOLS

CICS temporary storage pools

Renamed data fields:

- Renamed XSystem to XSSystem.

CTSQUEUE

CICS temporary storage queues

Renamed data fields:

- Renamed XSystem to XSSystem.

CUOW

CICS units of work

Renamed data fields:

- Renamed XSystem to XSSystem.

CURIMAPS

CICS URI maps

Renamed data fields:

- Renamed XSystem to XSSystem.

CUSERS

CICS external security user info

Renamed data fields:

- Renamed XSystem to XSSystem.

CVARS

CICS monitor variables

New data fields:

- Deg - Specifies if the variable metric is associated with degradation analysis.

- TSF - Specifies if the variable metric is eligible for Time Series Facility processing.
- TS51 - Indicates that the metric is valid for CICS TS 5.1.
- TS42 - Indicates that the metric is valid for CICS TS 4.2.
- TS41 - Indicates that the metric is valid for CICS TS 4.1.
- TS32 - Indicates that the metric is valid for CICS TS 3.2.
- TS31 - Indicates that the metric is valid for CICS TS 3.1.

CWAITS

CICS degradation analysis

The command has been enabled for cross system data.

Syntax:

```
CWAITS  < TRAN  * | tran | group >
CWAITS  < REGion | SYStem | XSYStem | NOXSYStem >
    < Local  | Global | XSData  | NOXSData >
    < GROUP  name >
    < TOTal     >
    < SYSInterval >
    < INTerval   >
    < Biz  >
    < NOBiz >
```

New syntax parameters:

- TRAN - Specifies the transaction ID to display the degradation analysis.
  - * - All transactions.
  - tran - Specific transaction ID. Enter c'tran' if you want mixed case.
  - group - transaction group.
- REGion, Local - Displays only the current target address space. This execution of the cross-system data collection is set to off. The current profile setting of XSDATA is maintained.
- SYStem, Global - Displays all CICS address spaces currently being monitored on the current system.
- XSYStem, XSData - Displays all CICS address spaces for all systems. This execution of the cross-system data collection is set to on. The current profile setting of XSDATA is maintained.
- NOXSYStem, NOXSData - This execution of the cross-system data collection is set to off. The current profile setting of XSDATA is maintained.
- GROUP - Specifies that an argument is to follow providing the group name that contains the list of CICS regions to display. The list of available groups with the type CICSPLEX can be found on the GROUPS command. A group name of "*" can be entered to indicate that no group processing is required.
- TOTal - Request analysis of data after the last start of the data collection.
- SYSInterval - Request analysis of data for the current system interval.
- INTerval - Request analysis of data for the current 60-second interval.

New/changed information fields:

- Tran - Specified transaction ID or group.

- Transactions - The number of transactions that have been monitored for the specified interval. The count includes those excluded transactions from statistical averaging due to excessive life time values.
- TranRate - Transaction rate per second for the specified interval.
- Interval - The amount of time that has elapsed in the specified interval.
- Exclude - The number of transactions that have been excluded from statistical averaging due to excessive life time values.
- MaxLife - The maximum life time value of a transaction that is included in statistical averaging.
- JobCPU - CPU usage for the address space, expressed as a percentage. Average value for the last 30-second interval.
- Paging - Paging rate per second. Paging rate per second for the address space. Average value for the last 30-second interval.
- IORate - I/O rate per second. I/O rate per second for the address space. Average value for the last 30-second interval.

New data fields:

- Deg - Specifies if the variable metric is associated with degradation analysis.
- TSF - Specifies if the variable metric is eligible for Time Series Facility processing.

CWEBSERV

CICS web services

Renamed data fields:

- Renamed XSystem to XSSystem.

CXDISTAT

External data interface stats

Renamed data fields:

- Renamed XSystem to XSSystem.

Transaction Data Collection Threshold Metrics

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

CPUTONCP

Displays the CPU time on standard CP.

CURTASKS

Displays the current tasks at the transaction attach.

FCVSWTT

Displays the FC VSAM string wait time.

FCXCWTT

Displays the FC exclusive control wait time.

ISALWTT

Displays the IS allocated wait time.

MAXTASKS

Displays the MXT at transaction attach.

MPPRTXCD

Displays the Policy rule thresholds exceeded.

OFFLCPUT

Displays the Offload on standard CP.

ROMODDLY

Displays the RO TCB Delay time.

SC64CGCT

Displays No. GCDSA storage getmains.

SC64CHWM

Displays the GCDSA storage high water mark above 2G.

SC64FSHR

Shared storage bytes freemain.

SC64SGCT

Shared storage getmains above 2G.

SC64UGCT

No. GUDSA storage getmains.

SC64UHWM

GUDSA storage high water mark above 2G.

SOCIPHER

Displays the Cipher selected.

SOMODDLY

Displays the SO TCB Delay time.

TCALWTT

Displays the TC alloc wait time.

TDELWTT

Displays the TD extra lock wait time.

TDILWTT

Displays the TD intra-lock wait time.

State Data Collection Metrics Added

The following state data collection metrics were added:

IPCNCONN

Displays the IP connection status.

IPCNSERV

Displays the IP connection service status.

PIPESTAT

Displays the Pipeline status.

Default state exception definitions have been added to the parmlib member CICSTHRS.

- IP Connections

```
*DEFINE IPCNCONN  ARG1 *  STATE INSERVICE          STATUS NORMAL
 DEFINE IPCNCONN  ARG1 *  STATE OUTSERVICE        STATUS WARNING
*DEFINE IPCNSERV  ARG1 *  STATE ACQUIRED          STATUS NORMAL
 DEFINE IPCNSERV  ARG1 *  STATE OBTAINING         STATUS HIGH
 DEFINE IPCNSERV  ARG1 *  STATE RELEASED          STATUS WARNING
 DEFINE IPCNSERV  ARG1 *  STATE FREEING STATUS WARNING
```

- Pipelines

```
*DEFINE PIPESTAT  ARG1 *  STATE ENABLED STATUS NORMAL
 DEFINE PIPESTAT  ARG1 *  STATE DISABLEDSTATUS PROBLEM
 DEFINE PIPESTAT  ARG1 *  STATE INITING     STATUS HIGH
 DEFINE PIPESTAT  ARG1 *  STATE STGFAIL   STATUS PROBLEM
 DEFINE PIPESTAT  ARG1 *  STATE LOCKFAILSTATUS PROBLEM
 DEFINE PIPESTAT  ARG1 *  STATE OSFAIL     STATUS PROBLEM
 DEFINE PIPESTAT  ARG1 *  STATE DISABING STATUS WARNING
 DEFINE PIPESTAT  ARG1 *  STATE ENABLING          STATUS HIGH
 DEFINE PIPESTAT  ARG1 *  STATE DISCARD  STATUS WARNING
```

Configuration Options—Parmlib Member CICSOPTS

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

ABEND-DUMP-DFHABND

This option can be modified after initialization through the CCONFIG or CICSSET commands.

If a CICS transaction abends, the contents of the CICS DFHABND control block can be dumped to the ddname GSVCLOG. This option can be used to assist with debugging.

Default: No

Valid values are:

- No - Do not dump DFHABND contents.
- Yes - Dump DFHABND contents.

MONITOR-RESTORE-SETTINGS

Specified if the CICS monitoring functions are activated during initialization.

This option can be modified after initialization through the CCONFIG or CICSSET commands.

The activation is control using the following options:

PERFORMANCE-COLLECTION

CICS monitoring.

SIT: MN

Parm: ON

MONITOR-CONVERSE

Monitoring converse recording

SIT: MNCONV

Parm: YES

MONITOR-EXCEPTIONS

Monitoring exception class

SIT: MNEXC

Parm: ON

MONITOR-PERFORMANCE

Monitoring performance class

SIT: MNPER

Parm: ON

During termination of the CICS data collector, the states of the CICS monitoring components can be restored to their original state.

Valid values:

- Yes - Restore CICS monitor components to their original state.
- No - Do not restore.

Default: Yes

Related options:

- MONITOR-CONVERSE
- MONITOR-EXCEPTIONS
- MONITOR-PERFORMANCE
- PERFORMANCE-COLLECTION

PERFORMANCE-DATA-EXIT-TS

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

This option can be modified after initialization through the CCONFIG or CICSSET commands.

This option controls the collection of data made available using CICS global user exits related to the following CICS domain:

- TS - Temporary Storage Domain

The following related options are required:

PERFORMANCE-COLLECTION

Yes

PERFORMANCE-GLOBAL-EXIT-TS

Yes

Detailed performance information regarding the overhead that is associated with this option can be viewed using the online command: CGBLEXIT.

Valid values:

- Yes - Collect data.
- No - Do not collect data.

Default: Yes

Related options:

- PERFORMANCE-DATA-SEGLIMIT-TS
- PERFORMANCE-GLOBAL-EXIT-TS
- PERFORMANCE-LOG-TEMPSTOR

TRANSACTION-ACTIVITY-PERSISTENT

Transaction summary statistics are collected and summarized on a 1-minute interval. The interval statistics are maintained for the last 24 hours. The data is a "rolling" 24 hour period and not for the current day. The information can be maintained across restarts of the data collector and restarts of the CICS region.

The online command CREVIEW displays this information.

Default: No

Valid values are:

- No - Does not maintain statistics across restarts.
- Restart - Maintains statistics across the restarts of the data collection in a single CICS region execution.
- Yes - Maintains statistics across restarts of the data collection and across multiple executions of the CICS region.

If statistics are being maintained across restarts of any type, the data is saved as a member in the persistent data store PDSE data set.

Persistent Data Store Information:

- DataId - GSVCACTV_jobname
- Size - 180 KB
- ReUse - Data is loaded and reused from matching builds only.
- Migration - Data members from your prior builds can be deleted when that product build is no longer being used.

TSF-ENABLE

Specify if you want performance data sent to the CA Chorus Timer Series Facility for integration with the CA Chorus Infrastructure Management for Networks and Systems.

You can modify this option after initialization through the CCONFIG or CICSSET commands.

Default: Yes

Required Scheduler Events:

- TSF-SYSTEM
- TSF-TRANS

Valid values are:

- Yes - Enable performance data integration. Integration can only be enabled or set to Yes during initialization through the CICSOPTS parmlib member.
- No - Disable performance data integration. Integration can be dynamically disabled at any time.

Related options:

- TSF-TASKID

TSF-TASKID

Specify the task ID of the Time Series Facility logger task executing in the SYSVIEW Main Services address space that sends data to the TSF server.

This option can be modified after initialization through the CCONFIG or CICSSET commands.

The following related options are required:

- TSF-ENABLE - Specify to enable the Time Series Facility data collection.
- TSF-TASKID - Specify the task ID of the Time Series Facility task executing in the CA SYSVIEW Main Services address space that sends data to the TSF server.

TRANSACTION-STATS-DEGRADATION

Specify to collect the transaction degradation analysis information. This information is displayed online using the CWAITS command.

This option is always collected in release 13.7.

SYSTEM-DB2

Specify if the system data collection is to collect on an interval basis DB2 information.

This information is collected if present in release 13.7.

THRESHOLD-UMBRELLA

Specify to collect hourly transaction summary information. This information is displayed online using the CREVIEW command.

This information is collected if present in release 13.7.

TRANSACTION-GROUPS

Specify to collect hourly transaction summary information. This information is displayed online using the CREVIEW command.

This information is always collected in release 13.7.

TRANSACTION-STATS-HOURLY

Specify to hourly transaction summary information. This information is displayed online using the CREVIEW command.

This information is always collected in release 13.7.

TRANSACTION-STATS-LIFETIME

Specify to collect transaction lifetime range information. This information is displayed online using the CLIFE command.

This information is always collected in release 13.7.

TRANSACTION-SUMMARY

Specify to summarize transaction information by individual transaction for online reference.

This information is always collected in release 13.7.

VSTATUS-UMBRELLA

Specify if variable resource status collection is to include processing for umbrella transaction names.

This information is collected if present in release 13.7.

Removed options:

- LIFETIME-RANGE1
- LIFETIME-RANGE2
- LIFETIME-RANGE3
- LIFETIME-RANGE4
- LIFETIME-RANGE5
- LIFETIME-RANGE6
- LIFETIME-RANGE7

The predefined ranges have been expanded to the following ranges:

0.000001 <= 0.100000

0.100001 <= 0.250000

0.250001 <= 0.500000

0.500001 <= 1.000000

1.000001 <= 2.000000

2.000001 <= 5.000000

5.000001 <= 10.000000

30.000001 <= 60.000000

> 60.000000

CICS Resource Definition Entries

During the installation process, the CICS utility DFHCSDUP is used to add the required definitions to the CSD file. Transaction class definitions are being added in release r13.7 so that the following transaction IDs can only be executed one at a time.

- GSVS - Start CA SYSVIEW for CICS
- GSVT - Terminate CA SYSVIEW for CICS
- GSVI - Execute CA SYSVIEW for CICS. GSVS starts the GSVI transaction.

The following sample library member is available as input to the DFHCSDUP utility:

- CICSCSD - This member deletes the existing group CA SYSVIEW and adds all definitions to the CSD file.

  Transaction Classes:

  The transaction class definitions are new in release r13.7.

```
DEFINE TRANCLASS(GSVCGSVS)
       MAXACTIVE(01)
       PURGETHRESH(01)
       GROUP(SYSVIEW)

DEFINE TRANCLASS(GSVCGSVI)
       MAXACTIVE(01)
       PURGETHRESH(01)
       GROUP(SYSVIEW)
```

  Transactions:

  The TRANCLASS(class) attribute is being added to the previously existing transaction definitions.

```
DEFINE TRANSACTION(GSVI)
       PROGRAM(GSVCGSVI)
       TASKDATAKEY(CICS)
       TASKDATALOC(BELOW)
       SHUTDOWN(ENABLED)
       RUNAWAY(0)
       PRIORITY(255)
       ISOLATE(NO)
       TRANCLASS(GSVCGSVI)
       GROUP(SYSVIEW)

DEFINE TRANSACTION(GSVS)
       PROGRAM(GSVCGSVS)
       TASKDATAKEY(CICS)
       TASKDATALOC(BELOW)
       SHUTDOWN(ENABLED)
       RUNAWAY(0)
       PRIORITY(255)
       ISOLATE(NO)
```

```
        TRANCLASS(GSVCGSVS)
        GROUP(SYSVIEW)

DEFINE TRANSACTION(GSVT)
        PROGRAM(GSVCGSVT)
        TASKDATAKEY(CICS)
        TASKDATALOC(BELOW)
        SHUTDOWN(ENABLED)
        RUNAWAY(0)
        PRIORITY(255)
        ISOLATE(NO)
        TRANCLASS(GSVCGSVS)
        GROUP(SYSVIEW)
```

CICS Monitor Activation

During the initialization of the CA SYSVIEW for CICS Data Collector, CICS monitoring classes are turned on or enabled.

The classes include:

- Monitoring - MN=YES
- Performance - MNPER=YES
- Exception - MNEXC=YES
- Conversational - MNCONV=YES

The following messages are written to the log to record the action and current state of CICS monitoring at initialization.

- GSVC051I (GSVI) CICS monitoring has been set ON. CICS setting OFF. CVDA value 200.
- GSVC051I (GSVI) CICS Performance monitoring has been set ON. CICS setting OFF. CVDA value 331.
- GSVC051I (GSVI) CICS Exception monitoring has been set ON. CICS setting OFF. CVDA value 333.
- GSVC051I (GSVI) CICS Conversational monitoring has been set ON. CICS setting OFF. CVDA value 601.

If CICS monitoring is activate and it was not originally desired or active, CA SYSVIEW ensures that unwanted records for performance and exceptions are not created. During the termination of the CA SYSVIEW for CICS Data Collector, CICS monitoring classes are restored to the original state.

The following messages are written to the log to record the action.

- GSVC051I (GSVI) CICS Conversational monitoring has been set OFF. CICS setting OFF. CVDA value 601.
- GSVC051I (GSVI) CICS Exception monitoring has been set OFF. CICS setting OFF. CVDA value 333.
- GSVC051I (GSVI) CICS Performance monitoring has been set OFF. CICS setting OFF. CVDA value 331.
- GSVC051I (GSVI) CICS monitoring has been set OFF. CICS setting OFF. CVDA value 200.

CICS Monitor Exit Interface (MEI)

The CA SYSVIEW for CICS Monitor Exit Interface (MEI) provides CICS programs or transactions an API into the CA SYSVIEW for CICS data collection process. Information that is passed to the MEI is recorded in the detailed transaction record of the calling transaction.

Two methods or APIs are available. Both methods can be used within a single transaction or program.

1. CICS command level program and a standard CICS COMMAREA New in release 13.0.
2. Assembler macro interface.

Any required action by the existing users of the Monitor Exit Interface depends on the currently used interface.

- XPFCMEI Macro Interface - The XPFCMEI macro interface was remove in release r13.0. The GSVCMEI macro replaced the XPFCMEI macro.

  If you use the XPFCMEI macro, convert those programs using the XPFCMEI macro to use the updated GSVCMEI macro or the CICS command-level interface. Failure to convert existing modules does not cause a problem, but Monitor Exit Interface data is not collected.

- GSVCMEI Macro Interface - The GSVCMEI macro interface has been modified at r13.7.

  If you use the GSVCMEI macro, reassemble those programs using the GSVCMEI macro. No code changes are required. You could also optionally convert those programs to use the CICS command-level interface. Failure to convert existing modules does not cause a problem, but Monitor Exit Interface data is not collected.

- MEI CICS command-level interface - No changes are required.

CA Chorus Infrastructure Management for Networks and Systems

This release of CA SYSVIEW introduces CA Chorus integration. The Time Series Facility collects data that is presented as graphs. New data collection events have been incorporated into CA SYSVIEW to provide this information. New event functions are defined to the scheduler that control the collection.

New scheduler event functions:

- TSF-SYSTEM - Time Series Facility - System Data
- TSF-TRANS - Time Series Facility - Transactions

Event definitions are defined in the CICSSCHD parmlib member. Data collection and TSF events are defined in the SCHDCICS parmlib member that is dynamically included into the CICSSCHD member.

The parmlib members are only used to create the initial list of events or during a COLD start of the event scheduler. If the event scheduler is being WARM started, the recommended start method, then the list of events is maintained in the persistent data store.

Make ongoing changes to the data collection events through the online displays. The Event Scheduler could be using WARM or COLD start procedures. Ensure that the new events get created regardless of the start type. If the events are not created in the scheduler, data collection is not performed.

If the Event Scheduler is being WARM started, the list of events are retrieved from the persistent data store. In this case, no parmlib members are read. Data collection events must be created because the events were present in the saved list of event definitions. During the initialization process for each data collection task, the task dynamically creates the data collection events. The tasks create or add the data collection events using a method that does *not* replace or overlay any existing definitions.

Therefore, when you start CA SYSVIEW using a COLD start and the SCHDCICS parmlib member contains the default data collection events, the internal process does not replace the user definitions.

If the user does not want a specific data collection event to execute, mark the event definition as disabled instead of deleting the entry. The integration of CICS data with CA Chorus and the Time Series Facility is enabled through the following CICS configuration option:

Configuration Options - Parmlib member - CICSOPTS

TSF-ENABLE

Specify to enable the Time Series Facility data collection.

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.

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 must be located in the concatenation of the system parmlib data sets. If the CA SYSVIEW CICS Data Collector is connecting to a CA SYSVIEW subsystem ID other than the default GSVX, then specify the subsystem ID.

You can specify or override the default subsystem ID using the following methods:

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

  GSVS <initialization parameters>

  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>

  Example:

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

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

  Example:

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

WTO Console Messages (CICS)

An identifier of the task issuing the WTO is inserted at the beginning of all GSVC*nnn* messages.

GSVCnnnI (task) message text:

- XDIS - External data interface
- SDCS - System data collector
- SCHT - Scheduler
- LOGT - Message logging
- TPPT - Tran post processing
- GSVI - CICS initialization transaction
- TSFT - Time Series Facility
- Task - CICS transaction

Example messages earlier to release 13.5:

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

Example messages at release 13.5:

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.

CICS Jobname Information Lines

The CICS jobname information lines have been changed to include the group name on one line, when specified.

Example information line earlier to release 13.7:

Jobname CICSPRD1 ASID 0177 Jobid STC50850 CICS TS4.2 Mode SYSTEM Group MYCICS

Example new information line at release 13.7:

Jobname CICSPRD1 ASID 0177 Jobid STC50850 CICS 4.2 Mode SYSTEM Group MYCICS

Transaction Options—Parmlib Member CICSTOPT

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

TSF

Transaction statistics is sent to the CA Chorus Time Series Facility.

NOTSF

Transaction statistics is not sent to the CA Chorus Time Series Facility.

Renamed keyword:

- Renamed WILYAPM to CA Cross-Enterprise APM.
- Renamed NOWILYAPM to NOCEAPM.

Existing definitions found in the persistent data store are automatically converted.

Option for IMS

The CA SYSVIEW Option for IMS has been enhanced.

IMS Data Collection

New data collection event functions have been added. The data collection events are controlled and scheduled using the CA SYSVIEW Event Scheduler. The new events are dynamically added to existing schedules during the initialization of the IMS data collection task IMSDATA.

The Event Scheduler definitions have been added to the parmlib member SCHDIMS.

- Balance groups

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

- Databases

```
DEFINE IMS-DATABASE
        GROUP     IMSDATA
        DESC      'IMS data collection - Databases       '
        TYPE      RECUR
        ALLDAYS
        DATEBEGIN *       DATEEND *
        TIMEBEGIN  MIDNIGHT  TIMEEND *
        EVERY     00:10:00
        LIMIT     NOLIMIT
        FUNCTION   IMSDATA-DATABASE
        PARMS     *
        ENABLED
ENDDEFINE
```

- IRLM locks

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

- Logical terms

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

- OSAM buffer pools

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

- Open Transaction Manager Access facility

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

- VSAM buffer pools

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

IMS Fast Path Transactions

Support has been added for Fast Path transactions. The transaction is recorded as an SMF record. Thresholds can be defined for the Fast Path transactions.

Commands Added

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

IMSLOGRS

Displays IMS loggers.

IMSOMAT

Displays IMS Operation Manager (OM) audit trail.

IMSOMAX

Displays IMS OM audit response record.

Commands Enhanced

The following enhancements have been made to existing commands.

IMSLOCKS

Displays IMS IRLM locks.

New data fields:

- DCB - The database data set DCB number.
- RBA - The database RBA.
- SegName - The database segment name.
- SSA - The segment search argument.

IMSMON

Displays IMS monitor definitions.

New Syntax:

IMSMON < ADDLINE | NOADDLINE >

- ADDLINE - Display the "?Add" line.
- NOADDLINE - Do not display the "?Add" line.

IMSREGNS

Displays IMS dependent regions

New data fields:

- Trans - The number of transactions the IMSLOGR processed after the message processing region was last scheduled.
- RO% - Specifies the percentage of time, during the ROIntvl, in which the region was not waiting for input to arrive. It is calculated as follows:

  RO% = ((ROIntvl - Input wait time) / ROIntvl)

  This field only applies to full function WI-FI message processing regions.

  ROIntvl - The time interval after the message processing region was last scheduled.

IMSRSLOG

IMS region summary log.

New data fields:

- RO% - The ratio of time that was not spent waiting for transactions to arrive and the elapsed time. This field is only valid for wait-for-input regions. This field is also only valid if the IMSLOGR is started. The calculation is as follows:

  RO% = ((E - WFI) / E

Where E is the Elapsed Time and WFI is the SQ6 time or time waiting for input to arrive. Essentially, the number represents the percentage of time the region was NOT waiting for work.

IMSSLOGS

IMS system logs status.

New information fields:

- OLDS ACTV - The number of active OLDS data sets.
- OLDS AUTOARCH - The current value of the AUTOARCH parameter.
- OLDS DFS3258 - Indicates that IMS has issued the DFS3258 message. This message indicates that IMS is waiting for an available OLDS.

IMSSTATE

Displays the IMS state definition.

New syntax

IMSSTATE < ADDLINE | NOADDLINE >

- ADDLINE - Display the "?Add" line.
- NOADDLINE - Do not display the "?Add" line.

IMSTHRSH

Displays the IMS threshold definitions.

New syntax

IMSTHERSH < ADDLINE | NOADDLINE >

- ADDLINE - Display the "?Add" line.
- NOADDLINE - Do not display the "?Add" line.

IMSTRANS

Displays IMS transaction codes.

New data field

- WFI - Specifies if the transaction is a wait-for-input transaction.

IMSVARS

Displays the available IMS monitor variables.

New data field:

- TSF - Specifies if the variable metric is eligible for Time Series Facility processing.

Data Collection Metrics Added

The data collection has been enhanced to include the following metrics:

IMDBALLO

Database allocation status.

Resource: dbarea

IMDBEEQE

Database EEQE status.

Resource: dbarea

IMDBINIT

Database initialization status.

Resource: dbarea

IMDBLOCK

Database lock status.

Resource: dbarea

IMDBOPEN

Database open status.

Resource: dbarea

IMDBOREC

Database online recovery status.

Resource: dbarea

IMDBRCAL

Database recall status.

Resource: dbarea

IMDBRCVR

Database recovery status.

Resource: dbarea

IMDBSTAT

Database availability status.

Resource: dbarea

IMDBSTRT

Database start status.

Resource: dbarea

IMESSTAT

External subsystem connection status.

Resource: imsesub

IMLKWAIT

Lock wait.

Resource: jobname

IMLTDEQR

LTerm dequeue rate.

Resource: imslterm

IMLTDEQS

LTerm dequeue count.

Resource: imslterm

IMLTENQR

LTerm enqueue rate.

Resource: imslterm

IMLTENQS

LTerm enqueue count.

Resource: imslterm

IMLTERR

LTerm error status.

Resource: imslterm

IMLTLOCK

LTerm lock status.

Resource: imslterm

IMLTQLCK

LTerm QLOCK status.

Resource: imslterm

IMLTQUE

LTerm queue depth.

Resource: imslterm

IMLTSTAT

LTerm status.

Resource: imslterm

IMOPALTR

Requests to alter the OSAM buffer.

Resource: subpool

IMOPBSW

OSAM buffer steal waits - no buffer.

Resource: subpool

IMOPBSWR

OSAM buffer steal waits - buffer read.

Resource: subpool

IMOPBSWW

OSAM buffer steal waits - buffer write.

Resource: subpool

IMOPBWP

OSAM blocks written by purge.

Resource: subpool

IMOPCFBX

OSAM CF blocks invalidated XI.

Resource: subpool

IMOPCFE

OSAM CF blocks expected but not read.

Resource: subpool

IMOPCFNW

OSAM CF blocks not written - full.

Resource: subpool

IMOPCFR

OSAM CF blocks read.

Resource: subpool

IMOPCFWC

OSAM blocks written to CF changed.

Resource: subpool

IMOPCFWP

OSAM blocks written to CF prime.

Resource: subpool

IMOPCFXI

OSAM CF successful XI requests.

Resource: subpool

IMOPCVRV

OSAM CF reclaim vector requests.

Resource: subpool

IMOPHIT%

OSAM lookaside hit percentage.

Resource: subpool

IMOPHITS

OSAM lookaside hits.

Resource: subpool

IMOPIOE

OSAM I/O errors.

Resource: subpool

IMOPLOC

OSAM locate requests.

Resource: subpool

IMOPLOCK

OSAM buffers locked due to write error.

Resource: subpool

IMOPLOCW

OSAM locates waited for busy indents.

Resource: subpool

IMOPNBLK

OSAM create block requests.

Resource: subpool

IMOPOWNW

OSAM buffer waits ownership released.

Resource: subpool

IMOPPSTW

OSAM PSTs waiting.

Resource: subpool

IMOPPURG

OSAM purge requests.

Resource: subpool

IMOPREAD

OSAM read I/O requests.

Resource: subpool

IMOPSBAR

OSAM SB anticipated reads.

Resource: subpool

IMOPSBIR

OSAM SB immediate reads.

Resource: subpool

IMOPSBW

OSAM single block writes by buffer steal.

Resource: subpool

IMOPSRCH

OSAM buffer search requests.

Resource: subpool

IMOTCONN

OTMA Tmember Connection status.

Resource: imsotma

IMOTDEQR

OTMA Dequeue rate.

Resource: imsotma

IMOTDEQS

OTMA Dequeue count.

Resource: imsotma

IMOTENQR

OTMA Enqueue rate.

Resource: imsotma

IMOTENQS

OTMA Enqueue count.

Resource: imsotma

IMOTFLOW

OTMA Tmember Flow status.

Resource: imsotma

IMOTMBR

OTMA Tmember Start status.

Resource: imsotma

IMOTMSGS

OTMA Queued messages.

Resource: imsotma

IMOTPIPE

OTMA TPipe Start status.

Resource: imsotma

IMOTSEC

OTMA Tmember Security status.

Resource: imsotma

IMOTXCF

OTMA Tmember XCF status.

Resource: imsotma

IMTFACTC

IMS Fast Path activity count.

Resource: imstran

IMTFACTT

IMS Fast Path activity time.

Resource: imstran

IMTFDDWC

IMS Fast Path DEDB read IWAIT count.

Resource: imstran

IMTFDDWT

IMS Fast Path DEDB read IWAIT time.

Resource: imstran

IMTFIMWC

IMS Fast Path input message IWAIT count.

Resource: imstran

IMTFIMWT

IMS Fast Path input message IWAIT time.

Resource: imstran

IMTFMDWC

IMS Fast Path MSDB write IWAIT count.

Resource: imstran

IMTFMDWT

IMS Fast Path MSDB write IWAIT time.

Resource: imstran

IMTFOBWC

IMS Fast Path OBA buffer IWAIT count.

Resource: imstran

IMTFOBWT

IMS Fast Path OBA buffer IWAIT time.

Resource: imstran

IMTFOTWC

IMS Fast Path DEDB OTHREAD IWAIT count.

Resource: imstran

IMTFOTWT

IMS Fast Path DEDB OTHREAD IWAIT time.

Resource: imstran

IMVPBGW

VSAM background writes.

Resource: subpool

IMVPEBUF

VSAM error buffers.

Resource: subpool

IMVPESDI

VSAM ESDS LRECL inserts.

Resource: subpool

IMVPGETS

VSAM GET requests.

Resource: subpool

IMVPHIT%

VSAM lookaside hit percentage.

Resource: subpool

IMVPHITS

VSAM lookaside hits.

Resource: subpool

IMVPHSRF

VSAM hiperspace reads failed.

Resource: subpool

IMVPHSRS

VSAM hiperspace reads successful.

Resource: subpool

IMVPHSWF

VSAM hiperspace writes failed.

Resource: subpool

IMVPHSWS

VSAM hiperspace writes successful.

Resource: subpool

IMVPKSDI

VSAM KSDS LRECL inserts.

Resource: subpool

IMVPLREC

VSAM LRECLs altered.

Resource: subpool

IMVPNUIW

VSAM non-user initiated writes.

Resource: subpool

IMVPPLHW

VSAM place header waits.

Resource: subpool

IMVPREAD

VSAM reads.

Resource: subpool

IMVPREQS

VSAM read requests.

Resource: subpool

IMVPRKEY

VSAM retrieve by key requests.

Resource: subpool

IMVPRRBA

VSAM retrieve by RBA requests.

Resource: subpool

IMVPSRCH

VSAM search buffer requests.

Resource: subpool

IMVPSYNC

VSAM system verify or sync points.

Resource: subpool

IMVPUIW

VSAM user initiated writes.

Resource: subpool

Data Collection Monitoring Metrics Added

The data collection monitoring metrics have been enhanced to include the following data collection:

IMSBALG

Monitored IMS balancing groups.

Resource: imsbalg

IMSDBASE

Monitored IMS databases and areas.

Resource: dbarea

IMSESUB

Monitored IMS external subsystems.

Resource: imsesub

IMSLTERM

Monitored IMS logical terminals.

Resource: imslterm

IMSOTMA

Monitored IMS OTMA Tmember.Tpipe.

Resource: imsotma

IMS Logger Options Parmlib Member IMSLOGR

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

LOG-IMSREGN-FPA-RECORDS

Specifies if Region Summary records are recorded for FASTPATH regions.

Type = IMS region summary.

Default: YES

LOG-PLOT-IMS-BALGRPS

Log hourly IMS balance group records to the PLOT log stream.

Default = NO

LOG-PLOT-IMS-LOCKS

Log hourly IMS lock records to the PLOT log stream.

Default = NO

LOG-PLOT-IMS-LTERMS

Log hourly IMS LTERMS records to the PLOT log stream.

Default = NO

LOG-PLOT-IMS-OSAM

Log hourly IMS OSAM buffer pool records to the PLOT log stream.

Default = NO

LOG-PLOT-IMS-OTMA

Log hourly IMS OTMA records to the PLOT log stream.

Default = NO

LOG-PLOT-IMS-VSAM

Log hourly IMS VSAM records to the PLOT log stream.

Default = NO

IMS Monitoring Definitions - Parmlib Member: IMSMON

New data collection event functions have been added. The data collection events are controlled and scheduled using the CA SYSVIEW Event Scheduler. Some of the data collection type requires that you create a monitoring definition specifying the resources to monitor.

- IMSBALG - IMS balance groups.

  Generics are allowed. Logical groups are supported.

- IMSDBASE - IMS database areas.

  Generics are allowed. Logical groups are supported.

  Resource format:

  database.areaname

- IMSESUB - IMS external subsystems.

  Generics are allowed. Logical groups are supported.

  Resource format:

  jobname.subsystem

- IMSLTERM - IMS logical terminals.

  Generics are allowed. Logical groups are supported.

  Resource format:

  termtype.terminal

- IMSOTMA - IMS OTMA Tmembers and Tpipes.

  Generics are allowed. Logical groups are supported.

  Resource format:

  Tmember.Tpipe

Configuration Options - Parmlib member - IMSVARS

The VARIABLE-SET option can be used to control the set of data collection metrics to collect. A new action has been defined to control the set of metrics that are sent to the Time Series Facility as part of the CA Chorus Infrastructure Management for Networks and Systems. Only those metrics that have been defined as TSF eligible can be enabled or disabled. The eligible list can be viewed on the IMSVARS command.

- VARIABLE-SET - source:variable:actions
  - Variable - The data collection metric name. You can specify the name generically.
    - The variable-length mask character: =
    - The fixed-length mask character: *
  - Actions - The actions to apply.
    - ENAbled - Enable collection
    - DISabled - Disable collection. TSF is also disabled.
    - TSF - Enable TSF collection. The metric must also be enabled.

TCP/IP Option

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

Commands Enhanced

The following enhancements have been made to existing commands.

CSMBUFF

Displays the CSM global buffer pool.

Renamed data fields:

- Renamed XSystem to XSSystem. The home system name is highlighted.

CSMOWNER

CSM global storage owners.

Renamed data fields:

- Renamed XSystem to XSSystem.

IPEECONN

Displays the Enterprise Extended connections.

Renamed data fields:

- Renamed XSystem to XSSystem.

IPEESUM

Displays the Enterprise Extended summary.

Renamed data fields:

- Renamed XSystem to XSSystem.

IPTCONN

Displays the TCP socket connections.

New line command:

- REmote - Invokes the IPTCONN command and selects the connection matching the remote port.

TCPMON

Displays the TCP/IP monitor definitions.

New Syntax:

TCPMON < ADDLINE | NOADDLINE >

- ADDLINE - Display the "?Add" line.
- NOADDLINE - Do not display the "?Add" line.

TCPSTATE

Displays TCP/IP state definitions.

New Syntax:

TCPMON < ADDLINE | NOADDLINE >

- ADDLINE - Display the "?Add" line.
- NOADDLINE - Do not display the "?Add" line.

TCPTHRSH

Displays TCP/IP threshold definitions.

New Syntax:

TCPTHRSH < ADDLINE | NOADDLINE >

- ADDLINE - Display the "?Add" line.
- NOADDLINE - Do not display the "?Add" line.

Option for WebSphere MQ

The CA SYSVIEW Option for WebSphere MQ has been enhanced.

Commands Enhanced

The following enhancements have been made to existing commands.

MQMON

MQ monitor definitions

New Syntax:

```
MQMON   < ADDLINE | NOADDLINE >
```

- ADDLINE - Display the "?Add" line.
- NOADDLINE - Do not display the "?Add" line.

MQSTATES

MQ state definition

New Syntax:

```
MQSTATES  < ADDLINE | NOADDLINE >
```

- ADDLINE - Display the "?Add" line.
- NOADDLINE - Do not display the "?Add" line.

MQTHRESH

MQ threshold definitions

New Syntax:

```
MQTHRESH  < ADDLINE | NOADDLINE >
```

- ADDLINE - Display the "?Add" line.
- NOADDLINE - Do not display the "?Add" line.

MQVARS

MQ monitor variables

New data fields:

- TSF - Specifies if the variable metric is eligible for Time Series Facility processing.

Configuration Options - Parmlib member - MQSVAR

The VARIABLE-SET option can be used to control the set of data collection metrics to collect. A new action has been defined to control the set of metrics that is sent to the CA Chorus Infrastructure Management for Networks and Systems Time Series Facility. Only those metrics that have been defined as TSF eligible can be enabled or disabled. The eligible list can be viewed on the MQVARS command.

VARIABLE-SET

source:variable:actions

- source: WEBMQ
- Variable: Name of data collection metric. You can specify this name generically.
  - The variable-length mask character: =
  - The fixed-length mask character: *
- Actions - Actions to apply.
  - ENAbled - Enable collection
  - DISabled - Disable collection. TSF is also disabled.
  - TSF - Enable TSF collection. The metric must also be enabled.
  - NOTSF - Disable TSF collection.

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 Added

The following audit event has been added:

- SYSTEM_EVENT_MESSAGE

  Logs an audit event each time a system event is created.

Audit Events Enhanced

The following enhancements have been made to audit events.

SESSION_LOGOFF

The session termination or logout record has been enhanced to include 64-bit storage usage information.

Section: Event Data

Elapsed time of session 17.83311

CPU time used by session 2.766444

Storage used below 16M HWM 33481

Storage used above 16M HWM 6.46M

Storage used above 2G HWM 4.9M

Section: zIIP usage:

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%System_

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

CA Graphical Management Interface

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

Objects Added

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

- CDISP - Dispatcher information
- CPROCTYP - Process types
- CRESUSE - Resource usage
- CTCBMODE - TCB modes
- CTCBPOOL - TCB pools
- CVLIST - Symbolic variable list
- IMSLOGRS - IMS loggers
- MSGPARMS - Message parameters

Objects Enhanced (GMI)

The following objects have been enhanced:

JOBSUM

Displays z/OS exception alerts.

Object Tree Name Change:

- Changed the GMI object name from SY155000 to SY155001.

JSPOOLS

Displays the CICS exception alerts.

The Add action is now an object level action.

New action:

- Add with data set - Allows a data set on the Add dialog.

New zoom:

- Jobs on Spool Volume - Zooms to JOBSUM.

SYS--Objects Rename

The following objects were renamed:

- New name: JSPOOLS

  SPOOLS has been renamed to JSPOOLS. JSPOOLS provides a JES2 and a JES3 version. The GMI object names are SY336001 and SY336002 respectively.

- New name: JHELDQUE

  LISTHELD has been renamed to JHELDQUE. JHELDQUE provides a JES2 and a JES3 version. The GMI object names are SY177002 and SY177004 respectively.

- New name: JJOBQUE

  LISTJOBS has been renamed to JJOBQUE. JJOBQUE has a JES2 and a JES3 version. The GMI object names are SY180002 and SY180004 respectively.

- JOUTQUE has been renamed to LISTOUT. JOUTQUE has a JES2 and a JES3 version. The GMI object names are SY182002 and SY182004 respectively.

Object Tree Enhancements

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

CA SYSVIEW\JES\Job Management\JES2

This new JES2 branch contains the JES2 commands.

CA SYSVIEW\JES\Job Management\JES3

This new JES3 branch contains the JES3 commands.

CA SYSVIEW\JES\Output Management\JES2

This new JES2 branch contains the JES2 commands.

CA SYSVIEW\JES\Output Management\JES3

This new JES3 branch contains the JES3 commands.

CA SYSVIEW\JES\Device Management\JES2

This new JES2 branch contains the JES2 commands.

CA SYSVIEW\JES\Device Management\JES3

This new JES3 branch contains the JES3 commands.

CA Explore Report Writer

The CA SYSVIEW CA EXPLORE Report Writer is packaged and delivered with CA SYSVIEW. You can use this easy to use report writer to create reports on CA SYSVIEW records and various SMF and RMF records.

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.

By default, the security file conversion marks command authorization for new commands as allowed.

Note: In previous releases, the default action was to fail new commands.

You can modify the default behavior by coding the SYSIN data set for the GSVXCNVS utility. The following example fails new commands for all groups except ADMIN:

```
//SYSIN  DD  *
 FAILNEWCMDS=YES,GROUP=*ALL*
 FAILNEWCMDS=NO,GROUP=ADMIN
/*
```

The input processes in the order that it is read and uses the last setting that applies to the user group.

The SPOOL resource has also been expanded to accommodate JES3:

- JES2 now includes the full 6-byte volume name
- JES3 includes the 8-byte DDname

Note: In prior releases of CA SYSVIEW, the SPOOL resource was a 2-byte suffix of the JES2 spool volume. Therefore, modify the resource name of your existing internal security rules for JES2 SPOOL to be the full spool volume name.

External Security Considerations

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

Modify any existing rules and profiles for the JES2 SPOOL resource if they were not generic enough to allow access to all spool volumes.

The entity:

SV.RESN.<system>.SPOOL.<JES2_ssid>.<2-byte_spool_volume_suffix>

Changed to:

SV.RESN.<system>.SPOOL.<JES2_ssid>.<6-byte_spool_volume>

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. You can define this 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 Checking

Code the following suspend rule to suspend all resource checking for the output class a job on the 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 controls user access to commands that have been defined in multiple command groups.

- Option: Fail new commands by default

  This option now has a default value of No. New commands added to the current release are allowed by default.

  You can only modify this setting using the GSVXCNVS utility when the security file is being converted from a prior release.

  Note: For more information, see the security conversion job that gets generated as part of installation.

External security section

The External Security Section of a CA SYSVIEW security user group contains the following new option to control external security requests:

- Option: Display SAF Class message at INIT

  Specify to generate a message at session initialization indicating that external security is active for the user using the SAF class specified.

  Default: No