

CA SYSVIEW® Performance Management

Installation Guide

Version 14.0



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CA Technologies Product References

This document references the following CA products:

- CA Datacom®/DB (CA Datacom/DB)
- CA Datacom® CICS Services (CA Datacom CICS Services)
- CA Insight™ Database Performance Monitor for DB2 for z/OS (CA Insight for DB2)
- CA Chorus™ Software Manager (CA MSM)
- CA Chorus™ (CA Chorus)
- CA Roscoe® Interactive Environment (CA Roscoe)
- CA Common Services™ (CCS)
- CA ACF2™ for z/OS
- CA Top Secret® for z/OS (CA Top Secret for z/OS)
- CA Easytrieve® Report Generator (CA Easytrieve RG)
- CA SYSVIEW® Performance Management (CA SYSVIEW PM)
- CA SYSVIEW® Performance Management CA Datacom® Option (CA SYSVIEW PM CA Datacom Option)
- CA SYSVIEW® Performance Management Option for CICS (CA SYSVIEW PM Option for CICS)
- CA SYSVIEW® Performance Management Option for IMS (CA SYSVIEW PM Option for IMS)
- CA SYSVIEW® Performance Management Option for TCP/IP (CA SYSVIEW PM Option for TCP/IP)
- CA SYSVIEW® Performance Management for CA APM (CA SYSVIEW for CA APM)
- CA MIM™ Resource Sharing (CA MIM RS)
- CA NSM
- CA Service Desk (CA SD)
- CA SymDump® System (CA SymDump)

Contact CA Technologies

Contact CA Support

For your convenience, CA Technologies provides one site where you can access the information that you need for your Home Office, Small Business, and Enterprise CA Technologies products. At <http://ca.com/support>, you can access the following resources:

- 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
- Other helpful resources appropriate for your product

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Documentation Changes

The following documentation updates have been made since the last release of this documentation:

- [How the Installation Process Works](#) (see page 15): Updated the topic.
- [Integration with Other CA Products](#): (see page 16) Updated the CA APM topic to include IMS Transaction Tracing.
- [Installation Preparation](#) (see page 19):
 - Added CA Master to the list of CA Common Services for z/OS components and features.
 - Changed CA Health Checker to CA Health Checker Common Service.
- [Software Requirements](#): (see page 20) Updated the topic.
- [CA Common Services Requirements](#) (see page 22): Added CA Master.
- [CA Insight for DB2](#) (see page 22): Added two bullets for XNET and PassTickets.
- [Concurrent Releases](#) (see page 24): Removed the SVC information.
- [Available Components](#) (see page 26): Updated CA Insight for DB2.
- [CA Common Services for z/OS Components](#) (see page 28): Added CA Master
- [Installing Your Product Using CA CSM](#) (see page 35): Updated the chapter.
- [Unload the Installation Library](#) (see page 50): Updated step 1.
- [Modify and Run the Job INSTALL](#) (see page 51):
 - Removed the SVC number reference.
 - HQL requirement changed from 20 characters to 24 characters.
 - Updated SITEDSN to include <dsn_hlq>.
 - Added IDMS.
- Updated [\(Optional\) Create Run-Time SITE Libraries \(INST0005\)](#) (see page 68).
- [Apply IBM APARs](#) (see page 75): Updated the topic.
- [How to Deploy Without CA CSM](#) (see page 76): Removed CAI.SYSVIEW.CNM4BLPA.
- [GSVIINST Macro - Set INSTALL Parameters](#) (see page 81):
 - Removed the SVC information.
 - Removed the AUTHLIB information.
 - Updated SITEDSN to include <dsn_hlq>.
 - Added IDMS.
 - HQL requirement changed from 20 characters to 24 characters.

- [Output from INSTALL](#) (see page 93):
 - Removed the SVC information.
 - Removed the Job INST0100.
- [Run the System Information Utility GSVUTIL \(INST0010\)](#) (see page 96): Removed the SVC information.
- [System Configuration Options](#) (see page 98):
 - Updated Security-Validation to include USERDEF.
 - Removed the SVC information.
- [Update the CICS JCL](#) (see page 150): Removed the LPA reference.
- [Prepare to Start Your Product](#) (see page 151): Removed the SVC information.
- [Post-Installation Considerations](#) (see page 155): Removed the SVC information.
- [Dynamic Installation of CA SYSVIEW](#) (see page 158): New Migration Information topic.
- [User Supervisor Call \(SVC\) Removal](#) (see page 159): New Migration Information topic.
- [LPA Load Library Data Set Removal](#): (see page 159) New Migration Information topic.
- [Anchor Address Space Removal](#) (see page 160): New Migration Information topic.
- [Configuration Options Member - OPTIONS](#) (see page 163): New Migration Information topic.
- [External Security](#) (see page 164): New Migration Information topic.
- [Event Scheduler](#): (see page 164) New migration topic.
- [Configuration Options - Parmlib Member CICSOPTS](#) (see page 165): New Migration Information topic.
- [Logical Group Definitions Removed - Parmlib Member CICSGRPS](#) (see page 165): New Migration Information topic.
 - [Logical Groups Overview](#) (see page 165) - New logical groups migration section.
 - How to Use Logical Groups
 - Migrating Logical Group Definitions
 - Use the Warm Start Method
 - Use the Cold Start Method
 - Conversion Utility - GSVYLGCV
- [IMS Dependent Regions - Data Collection](#) (see page 176): New Migration Information topic.
- [FMIDs](#) (see page 177): Removed references to unsupported releases.

- [CAMASTER Services](#) (see page 178): New topic containing FMIDs.

Topics Removed

- Run the Dynamic Installation Utility (INST0100)
- How the Dynamic Installation Utility Works
- Add the LPA Module to the System (Optional)

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Chapter 1: Overview

This guide describes how to install and implement CA SYSVIEW.

This section contains the following topics:

[CA SYSVIEW Overview](#) (see page 13)

[CA SYSVIEW Server Overview](#) (see page 14)

[Audience](#) (see page 14)

[How the Installation Process Works](#) (see page 15)

[Integration with Other CA Products](#) (see page 16)

CA SYSVIEW Overview

CA SYSVIEW is a performance monitoring and management tool for your z/OS system environment. Operators, systems programmers, performance analysts, and end users can use it to monitor and manage the following resources:

- z/OS
- JES2
- JES3
- DB2
- CICS
- IMS
- CA Datacom/DB
- TCP/IP
- WebSphere MQ

Note: For more information about product components and options, see the CA SYSVIEW online help. For other questions, visit <http://ca.com/support>, and search for SYSVIEW, or navigate to Solutions, Product Solutions, Enterprise Systems Management, Server Management, Systems Management for z/OS.

CA SYSVIEW Server Overview

CA SYSVIEW Server is designed to provide data to other CA software products. All customers are eligible to run the CA SYSVIEW Server.

The SYSVIEW 3270 interfaces are available for use by the CA SYSVIEW Server only customer. Functionality is limited.

The CA SYSVIEW Server functionality is automatically available when you are running CA SYSVIEW with any of the licensed options. Multiple copies of CA SYSVIEW are not required.

Licensed Options:

- CA SYSVIEW CA Datacom Option
- CA SYSVIEW Option for CICS
- CA SYSVIEW Option for IMS
- CA SYSVIEW Option for TCP/IP
- CA SYSVIEW for CA APM
- Event Capture
- WebSphere MQ
- z/OS

Audience

Readers of this book need knowledge in the following areas:

- JCL
- TSO/ISPF
- z/OS environment and installing software in this environment
- Your IT environment, enterprise structure, and region structure

Consult with the following personnel, as required:

- Systems programmer for z/OS and VTAM definitions
- Storage administrator, for DASD allocations

How the Installation Process Works

CA Technologies has standardized product installations across all mainframe products. Installation uses the following process:

- Acquisition—Transports the software to your z/OS system.
- Installation using SMP/E—Creates an SMP/E environment and runs the RECEIVE, APPLY, and ACCEPT steps. The software is untailed.
- (For CA CSM Release 5.1 and earlier only) Deployment—Copies the target libraries to another system or LPAR.

Note: This step is optional for CA CSM Version 6.0. For more information, see the scenario *Configuring Products Using CA CSM* that is available in the CA CSM Version 6.0 bookshelf at <http://ca.com/support>.

- Configuration—Creates customized load modules, bringing the software to an executable state.
- (For staging system configurations in CA CSM Version 6.0 only) Deployment—Makes configured run-time libraries available to a remote location where that software can be activated, bringing it to an executable state.

[CA Chorus™ Software Manager \(CA CSM\)](#) - formerly known as CA Mainframe Software Manager™ (CA MSM) - is an intuitive web-based tool that can automate and simplify many CA Technologies product installation activities on z/OS systems. This application also makes obtaining and applying corrective and recommended maintenance easier. A web-based interface enables you to install and maintain your products faster and with less chance of error. As a best practice, we recommend that you install mainframe products and maintenance using CA CSM. Using CA CSM, someone with limited knowledge of JCL and SMP/E can install a product.

Note: If you do not have CA CSM, you can download it from the Download Center at <http://ca.com/support>. Follow the installation instructions in the CA Chorus Software Manager documentation bookshelf on the CA Chorus Software Manager product page.

You can also complete the standardized installation process manually using pax files that are downloaded from <http://ca.com/support> or a product DVD.

To install your product, do the following tasks:

1. Prepare for the installation by [confirming that your site meets all installation requirements](#) (see page 19).
2. Verify that you acquired the product using one of the following methods:
 - Download the software from <http://ca.com/support> using CA CSM.
 - Download the software from <http://ca.com/support> using Pax-Enhanced Electronic Software Delivery (Pax ESD).
 - Order a product DVD. To do so, contact your account manager or a CA Technologies Support representative.
3. Perform an SMP/E installation using one of the following methods:
 - If you used CA CSM to acquire the product, start the installation process from the SMP/E Environments tab in CA CSM.
 - If you used Pax ESD to acquire the product, you can install the product in the following ways:
 - Install the product manually.
 - Complete the SMP/E installation using the Add Product option in CA CSM.
 - If you used a DVD, install the product manually.

Note: If a CA Recommended Service (CA RS) package is published for your product, install it before proceeding.
4. (For CA CSM Release 5.1 and earlier only) Deploy the target libraries.

Note: This step is optional for CA CSM Version 6.0. For more information, see the scenario *Configuring Products Using CA CSM* that is available in the CA CSM Version 6.0 bookshelf at <http://ca.com/support>.
5. Configure your product using CA CSM or manually.
6. (For staging system configurations in CA CSM Version 6.0 only) Deploy configured run-time libraries, and activate your product.

Note: Configuration is considered part of starting your product.

Integration with Other CA Products

The following CA products integrate with CA SYSVIEW:

- CA NSM
- Through an interface with CA NSM, you can use the CA SYSVIEW data collection function. This interface uses TCP/IP communication technology.

- CA Service Desk

When CA Service Desk is installed, you can allow CA SYSVIEW to open CA Service Desk requests for unexpected product ABENDs. This capability provides your organization with an immediately recorded notification of the identified problem. You can then address the situation before it causes more serious problems with CA SYSVIEW that could affect the ability to monitor the system performance.

Note: For more information, see the CA Service Desk documentation.

- CA OPS/MVS

When CA OPS/MVS is installed, CA SYSVIEW can send event notifications to CA OPS/MVS.

- CA SymDump System

CA SymDump System uses the CA SYSVIEW technology to generate diagnostic reports during a dump capture. Output from any CA SYSVIEW command can be captured and written to the dump data set for later viewing. Using report control statements in the CA SymDump System library, you can control exactly which reports are produced for each type of dump. CA SymDump System communicates with CA SYSVIEW using the GSS component of CA Common Services for z/OS. Install GSS before capturing or viewing dumps.

- CA APM

CA SYSVIEW integration with CA APM provides the following features:

- CICS Transaction Tracing

CA SYSVIEW extends CA APM Transaction Tracing into CICS. This increases end-to-end visibility for quickly isolating transaction performance problems.

- IMS Transaction Tracing

CA SYSVIEW extends CA APM Transaction Tracing into CA SYSVIEW PM Option for IMS. This increases end-to-end visibility for quickly isolating transaction performance problems.

- Introscope Dashboards

The Dashboard integration between CA SYSVIEW and CA APM brings mainframe statistics and metrics into the CA APM bus. Dashboards enable a side-by-side view of data from the mainframe and other managed platforms.

Chapter 2: Preparing for Installation

This section describes what you need to know and do before you install the product.

This section contains the following topics:

- [Installation Preparation](#) (see page 19)
- [Software Requirements](#) (see page 20)
- [CA Common Services Requirements](#) (see page 22)
- [CA Insight for DB2](#) (see page 22)
- [GMI Software Requirements](#) (see page 23)
- [IBM REXX Library Requirements](#) (see page 23)
- [Security Requirements](#) (see page 23)
- [Storage Requirements](#) (see page 24)
- [Concurrent Releases](#) (see page 24)
- [Memory Requirements](#) (see page 24)
- [Available Options](#) (see page 25)
- [Available Components](#) (see page 26)
- [IBM RMF](#) (see page 27)
- [Access and Invoke the IMS APIs](#) (see page 27)
- [Access the MVS/QuickRef Interface](#) (see page 28)
- [CA Common Services for z/OS Components](#) (see page 28)
- [How Components and Options Are Enabled](#) (see page 34)

Installation Preparation

Before you begin the installation steps, review the following items:

- To understand the new features and the enhancements that have been made after the previous release, read the *Release Notes*.
- As a precaution, use a test environment to install and perform the initial evaluations of the product and its components. This testing lets you detect any possible conflicts with other vendor products.
- Decide which options and components you want to install and enable.
- Be sure that all prerequisites and system requirements are met.
- The IBM Resource Management Facility (RMF) must be installed for the CA SYSVIEW RMF component to work properly. The RMF component displays data from RMF.

- IBM REXX Library:

The SYSLOG, OUTPUT, IPCONFIG, IPSTATS, and IPDEVICE commands, and the DASHBOARD objects, use compiled REXX programs, which require one of the following libraries:

 - Library for REXX on zSeries
 - Alternate Library for REXX

The Alternate Library for REXX is free and lets you run REXX compiled code without having to purchase the Library for REXX on zSeries. The Alternate Library for REXX is included with z/OS V1R9, or you can access it from the following link:

<http://www-01.ibm.com/support/Alternate REXX Library>
- To use CA Common Services for z/OS components and features, be sure that the requirements that apply to the following components are met:

 - CAIRIM
 - CA LMP of CAIRIM
 - CAICCI
 - CA GSS
 - CA Health Checker Common Service
 - CA zIIP Enablement Services of CAIRIM
 - CA Master
- During or after each IPL, be sure that the SYSVIEW main address started task procedure is started before CA GSS.
- SMP/E is the tool for installing, maintaining, and servicing CA SYSVIEW. SMP/E selects the proper levels of installed elements, calls system utility programs to install changes, and keeps records of these changes.
- Before CA SYSVIEW can start, use the CA LMP facility of CAIRIM to code the CA LMP statements for your product license authorization.

Software Requirements

The following software is required for CA SYSVIEW:

Option/Component	Product	Supported Releases	Dropped
Base	z/OS	1.12, 1.13, 2.1	None
	JES2	1.12, 1.13, 2.1	None
	JES3	1.12, 1.13, 2.1	None

Option/Component	Product	Supported Releases	Dropped
CICS (CA SYSVIEW Option for CICS)	CICS Transaction Server	3.1, 3.2, 4.1, 4.2, 5.1, 5.2	None
DATACOM (CA SYSVIEW CA Datacom Option)	CA Datacom	12.0, 14.0, 15.0	None
	CA Datacom CICS Services	11.0, 14.0	None
DB2 (CA SYSVIEW component for CA Insight for DB2)	Database 2	9.1, 10.1, 11.1	None
	Requires the following products: <ul style="list-style-type: none"> ■ CA Insight for DB2 ■ CA DB2 Tools Xmanager ■ CA DB2 Tools Xnet 	15.0, 16.0, 17.0	14.0, 14.5
IDMS (CA SYSVIEW for IDMS component)	IDMS	17.0.0, 17.0.1, 18.0.0, 18.5.0	None
	Requires the following: <ul style="list-style-type: none"> ■ CA IDMS Performance Monitor 	18.5.0	
IMS (CA SYSVIEW Option for IMS)	IMS	11.1, 12.1, 13.1	None
MQ (Option for WebSphere MQ)	WebSphere MQ for z/OS	7.0.1, 7.1, 8.0.0	None

CA Common Services Requirements

The following CA Common Services are used with CA SYSVIEW:

- CAICCI
- CAIRIM
- CA LMP of CAIRIM
- CAISSF of CAIRIM
- CA GSS
- CA Health Checker Common Service
- CA zIIP Enablement Services of CAIRIM
- CA Master

Note: If other CA products are installed at your site, some of these services may already be installed.

CA Insight for DB2

To use the component CA SYSVIEW for CA Insight for DB2, do the following checks:

- The following products are installed on your system:
 - CA Insight for DB2 Version 14.0.0 or above
 - CA DB2 Tools Xmanager Version 14.0.0 or above
 - CA DB2 Tools Xnet Version 14.0.0 or above
- The XNET agent is configured to start.
- The XNET agent is configured to use PassTickets
- PassTickets are configured with the external security package.

For more information, see Interfacing with External Security in the *Security Guide*.

GMI Software Requirements

To use the CA SYSVIEW CA Vantage GMI component, be sure that the following products are installed on your system:

- CA Vantage Client Release 12.5.0 and above
- CA Vantage Release 12.6.0 and above
- CA SYSVIEW User Address Space:

- XSystem eXternal Session Server

This session server provides CA Vantage GMI access to CA SYSVIEW using the external server for establishing the user sessions.

- CAICCI

This service provides the communications protocol.

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

- IBM REXX Library is required for the SYSLOG and OUTPUT objects.

IBM REXX Library Requirements

The REXX library is required for:

- The IPCONFIG, IPSTATS, and IPDEVICE commands
- The DASHBOARD command
- The SYSLOG and OUTPUT objects under GMI

Note: The Alternate Library for REXX is free and lets you run REXX compiled code without having to purchase the Library for REXX on zSeries. The Alternate Library for REXX is included with z/OS V1R9, or you can access it from the following link:

[http://www-01.ibm.com/support/Alternate REXX Library](http://www-01.ibm.com/support/Alternate%20REXX%20Library)

Security Requirements

CA SYSVIEW internal security provides and controls the user access to CA SYSVIEW and CA SYSVIEW commands and command groups.

Note: For detailed security requirements, see the *Security Guide*.

Storage Requirements

Verify that you have the following storage available:

- For an ESD installation, 30 cylinders for the download of the CA SYSVIEW product package.
- For the installation and setup:
 - Installation = 372 cylinders
 - SMP/E temporary libraries = 372 cylinders

Concurrent Releases

You can install the current release of CA SYSVIEW and can continue to use an older release for your production environment. If you plan to continue to run a previous release, consider the following points:

- When installing into an existing SMP/E environment, this installation deletes previous releases.
- When you acquire your product with ESD:
 - Select a different target zone from your currently installed release.
 - Select a different distribution zone from your currently installed release.

The new zones use different libraries than your current release.

Note: CA CSM installs the product into a new CSI by default.

- Define the DDDEF entries in your new zones to point SMP/E to the proper installation libraries. Be sure that they point to the new release libraries.

Memory Requirements

Ensure that you have the following memory available:

- 1208 KB of private area storage with all options active.

Most of this storage is allocated above the 16-MB line. Maximum storage requirements depend upon which of the product commands is entered. You can reduce private area storage requirements by placing reentrant CA SYSVIEW modules in the pageable link pack area.

- 1 KB of common storage area (CSA)
- 500 KB of extended CSA with all options active on a permanent basis for all users.

More extended CSA is required for short periods (less than one second) to transfer data from other address spaces to the CA SYSVIEW address space.

Available Options

The CA SYSVIEW options that you want to install are listed in the following table. After an option is installed, you can decide whether to enable it. The table includes the LMP codes and OPTIONS values you specify during the installation to enable an option. The table also includes installation and customization requirements for each option.

Options	OPTIONS Value	LMP Code	Installation and Customization Requirements
Base (z/OS)	MVS	FU	Complete the installation process. No additional installation or customization is required.
CA SYSVIEW Option for CICS	CICS	FV	Complete the installation process. Complete the installation steps for CA SYSVIEW Option for CICS.
CA SYSVIEW CA Datacom Option	DATAKOM	FW	Complete the installation process. No additional installation or customization is required. Note: For information about defining the CA SYSVIEW CA Datacom Option address spaces, see the <i>Administration Guide</i> .
TCP/IP	TCPIP	JD	Complete the installation process. No additional installation or customization is required.
CA SYSVIEW Option for IMS	IMS	PH	Complete the installation process. No additional installation or customization is required.
CA SYSVIEW Option for WebSphere MQ	MQSERIES	JE	Complete the installation process. No additional installation or customization is required.
CA SYSVIEW Event Capture Option	CAPTURE	2G	Complete the installation process. No additional installation or customization is required.
CA Cross Enterprise APM	CEAPM	11	Complete the installation process. Additional steps are required.

More information:

[How Components and Options Are Enabled](#) (see page 34)

Available Components

The CA SYSVIEW components that you want to install are listed in the following table. After a component is installed, enable it as a COMPONENT value. The table includes the LMP codes and COMPONENT values you specify during the installation to enable a component. The table also includes installation and customization requirements for each component.

Note: To customize components, follow the procedures in the *Administration Guide*.

Component	COMPONENT Value	LMP Code	Installation and Customization Requirements
CA MIM	MIM	FU	Complete the installation process. No additional installation or customization is required.
CA Roscoe	ROSCOE	FU	Complete the installation process. Note: For information about installing the CA Roscoe monitor, see the <i>Administration Guide</i> .
CA SYSVIEW for CA Insight for DB2	DB2	IE	Complete the installation process. Additional external security setup is required for PasTickets. Note: For information about configuring the component CA SYSVIEW for CA Insight for DB2, see the <i>Administration Guide</i> . Note: For information about the required PasTicket setup, see the <i>Security Guide</i> .
Cross-System	XSYSTEM	FU	Review the XSYSTEM and SYSNAMES parmlib members and complete the installation process. No additional installation or customization is required. Note: For the list of parmlib members and components for which they are valid, see the <i>Administration Guide</i> .
USS	USS	FU	Complete the installation process. No additional installation or customization is required.
IBM Health Checker	HCHECK	FU	No additional installation or customization is required.

More information:

[How Components and Options Are Enabled](#) (see page 34)

IBM RMF

CA SYSVIEW uses the data IBM Resource Measurement Facility (RMF) provides for the CA SYSVIEW RMF displays. RMF and RMF Monitor III must be active to gather the data for the CA SYSVIEW displays.

Access and Invoke the IMS APIs

Some IMS commands gather statistic by invoking IMS APIs that are distributed with the IBM IMS libraries.

The following procedure guides you through accessing and invoking the IMS APIs.

Follow these steps:

1. Add the IMS RESLIB to the SYSVIEW STEPLIB.
The API modules reside in the IMS RESLIB.
2. If you invoke CA SYSVIEW from TSO, add the RESLIB to the USER address space and the user TSO logon procedure STEPLIB.
3. Invoke the IMS APIs using the following commands:

IMSSPOC

Invokes the Common Service Layer API.

IMSSLOGS

Invokes the IMS DBRC API.

IMSQSTAT

Invokes the Common Queue Server API.

IMSQSUM

Invokes the Common Queue Server API.

IMSQTRAN

Invokes the Common Queue Server API.

The IMS APIs are invoked and you can use the IMS commands to gather statistics.

Note: For more information in the IBM IMS APIs, see *The IMS System Programming API Reference*.

Access the MVS/QuickRef Interface

The Chicago-Soft MVS/QuickRef product interface provides access to CA SYSVIEW product messages.

Follow these steps:

1. Issue the QUICKREF command.

A direct program call is made that queries the MVS/QuickRef database. The QUICKREF command requires that the MVS/QuickRef load modules be available, using the standard search order for loading modules. If the MVS/QuickRef load library is not part of the LNKST concatenation, proceed to step 2.

2. Add the MVS/QuickRef load library in the STEPLIB or TASKLIB.

MVS/QuickRef access must be made available to both the CA SYSVIEW User Interface address space (SYSVUSER) and the TSO user address space.

CA Common Services for z/OS Components

The required CA Common Services for z/OS components for licensing this product are described in the following list.

Note: For more information about CA Common Services for z/OS components, see the CA Common Services for z/OS documentation on the [Technical Support website](#) (see page 4).

CAIRIM

Prepares your operating system environment for all CA applications and starts them. The common driver for a collection of dynamic initialization routines eliminates the need for user SVCs, SMF exits, subsystems, and other installation requirements commonly encountered when installing systems applications.

Integral parts of CAIRIM are CAISSF, CA LMP, and CA zIIP Enablement Services.

CAISSF

Provides an external security mechanism for controlling and monitoring access to all system and application resource processes. CAISSF is integrated into many CA enterprise applications and is also used by other CCS for z/OS services. CAISSF provides security services for user logon, resource access control, process use control, and recording and monitoring of violation activity.

CA LMP

Provides a standardized and automated approach to the tracking of licensed software and is provided as an integral part of CAIRIM. After CAIRIM is installed, you have access to Technical Support for all CA LMP-supported products.

CA zIIP Enablement Services

Provides a common service for CA products to allow their code to run on zIIP processors, if available.

CAICCI

Provides CA enterprise applications with a common communications software layer that insulates the applications from dealing with protocol specifics, error recovery, and system connection establishment.

CA GSS

CA GSS is part of CA Common Services for z/OS and is installed with it.

To make full use of some of your product features, you must have CA GSS installed at your site. CA GSS is required for the following features:

- System Condition Monitor (SCM)
- Console Interface
- Information modules (IMOD) to provide automation for system monitoring when thresholds are exceeded

Note: For information about customizing CA GSS, see the *Administration Guide*.

CA Health Checker Common Service

Provides a simple and consistent method for CA products to create health checks to run under the IBM Health Checker for z/OS. The IBM Health Checker for z/OS helps you identify potential problems in your z/OS environment by checking system or product parameters and system status against recommended settings. CA has joined other vendors in creating checks for CA z/OS products. CA SYSVIEW health checks are automatically activated on the target system when the product is started on a system where the following components are installed and configured:

- CA Health Checker Common Service
- IBM Health Checker for z/OS

For more information about installing the CA Health Checker Common Service, see the *CA Common Service Installation Guide*.

For more information about the IBM Health Checker for z/OS, see the *IBM Health Checker for z/OS User Guide*.

CA Master

The CAMASTER address space is an early IPL, limited function, permanent system address space. CAMASTER provides a set of operating system level services that any CA Technologies product can use.

CAMASTER provides the capability for privileged CA Technologies components to:

1. Register the non-space switch PC function routines that can be used instead of SVC routines, or to provide persistent access to component-specific function routines through the hardware assisted program-call mechanism.
2. Use persistent private storage that the CAMASTER address space provides to eliminate the need for using z/OS common storage resources such as ESQA or ECSA. This private storage is provided through CAMASTER space switch PC storage management services or explicit STORAGE OBTAIN using the CAMASTER ALET in AR ASC mode.
3. Provide a CA Technologies owned permanent system address space from which to anchor CA Technologies product objects, such as public access data spaces.

In short, CAMASTER can help CA Technologies products reduce their ECSA usage, avoid using user SVCs, and avoid using the IBM *MASTER* address space.

License the Product

You code CA Common Services CA License Management Program (LMP) statements to license this product on each system that uses this product.

Follow these steps:

1. Ensure that CA Common Services CA Resource Initialization Manager (CAIRIM) is installed on the system.
2. Add product license LMP codes from the product's Key Certificate as CA LMP statements in the CAIRIM KEYS member.

Note: For more information, see the *CA Common Services for z/OS Administration Guide*.

3. Start the CAS9 procedure at the next IPL. Alternatively, if you do not want to wait for the next IPL, do the following:
 - a. Create a special CAS9 procedure under a different name with the following settings:
 - PARMLIB and AUTOCMDS DD statements set to DUMMY
 - KEYS DD statement set to the KEYS member with the newly added LMP key statements
 - b. Start the special procedure.

The product is licensed on the system.

KEYS Member—Add Execution Key

Add the CA LMP execution key, provided on your product key certificate, to the CAIRIM parameters. This execution key ensures the proper initialization.

To define a CA LMP execution key to the CAIRIM parameters, modify the KEYS member.

This sample parameter structure for the KEYS member has the following format:

```
PROD(pp) DATE(ddmmyy) CPU(ttt-mmm/sssss)
LMPCODE(kkkkkkkkkkkkkkkkk)
```

The parameter definitions are as follows:

PROD(pp)

Specifies the two-character product code. This code agrees with the product code already in use by the CAIRIM initialization parameters for any earlier releases (if applicable).

Values for *pp* are as follows:

FU

Indicates CA SYSVIEW

FV

Indicates CA SYSVIEW Option for CICS

FW

Indicates CA SYSVIEW CA Datacom Option

2G

Indicates CA SYSVIEW Event Capture Option

IE

Indicates CA Insight for DB2

JE

Indicates CA SYSVIEW Option for WebSphere MQ

PH

Indicates CA SYSVIEW Option for IMS

JD

Indicates CA SYSVIEW Option for TCP/IP

11

Indicates CA SYSVIEW for CA APM

DATE(ddmmyy)

Specifies the CA LMP licensing agreement expiration date, for example, 13MAR12.

CPU(tttt-mmmm/sssss)

tttt

Specifies the CPU type on which CA LMP is to run, for example, 3090.

-mmmm

Specifies the CPU model on which CA LMP is to run, for example, 600.

Note: If the CPU type and or model require fewer than four characters, blank spaces are inserted for the unused characters.

/sssss

Specifies the serial number of the CPU on which CA LMP is to run.

LMPCODE(kkkkkkkkkkkkkkk)

Specifies the execution key (kkkkkkkkkkkkkk) needed to run CA LMP. The key certificate shipped with each CA LMP software solution provides this CA LMP execution key.

Example: Add CA LMP Execution Key

The following example shows a control statement for the CA LMP execution software parameter:

```
PROD(FU) DATE(27JUN12) CPU(2097-E26 /370623)  
LMPCODE(52H2K06130Z7RZD6)
```

In this example, with your product running on the specified CPU, the CA LMP licensing agreement will expire on June 27, 2012. The product code and execution key values are different when you install your product at your site.

Note: See the *CA Common Services for z/OS Administration Guide* for:

- The procedure for defining the CA LMP execution key to the CAIRIM parameters
- Details about the features and associated utilities of CAIRIM

CA LMP Key Certificate

Examine the CA License Managed Program (CA LMP) key certificate. Your certificate contains the following information:

Product Name

Defines the trademarked or registered name of your product as licensed for the designated site and CPUs.

Product Code

Defines a two-character code that corresponds to the product.

Supplement

Defines the reference number of your license for a particular facility and has the following format:

nnnnn-nnn

This format differs slightly inside and outside North America and, in some cases, the reference number may not be provided at all.

CPU ID

Defines the code that identifies the specific CPU for which installation of this product is valid.

Execution Key

Defines an encrypted code required by CA LMP for installing your product. During installation, it is referred to as the LMP code.

Expiration Date

Defines the date your license expires and has the following format:

dclmmyy

Example: 21Mar12

Technical Contact

Defines the name of the designated technical contact at your site who is responsible for the installation and maintenance of your product. CA addresses all CA LMP correspondence to this person.

MIS Director

Defines the name of the Director of MIS or the person who performs such a function at your site. If the title but not the name of the individual is indicated on the certificate, supply the actual name when correcting and verifying the certificate.

CPU Location

Defines the address of the building in which the CPU is installed.

How Components and Options Are Enabled

Enabling components and options means that you can use their respective commands and, by default, gain access to them from the CA SYSVIEW main menu.

During installation, you specify a COMPONENTS and OPTIONS value for each component and option. (COMPONENTS and OPTIONS are modifiable GSVIINST parameters.) After the installation completes, the COMPONENTS and OPTIONS values let you enable those components and options that you plan to use.

More information:

[Available Components](#) (see page 26)

[Available Options](#) (see page 25)

Chapter 3: Installing Your Products Using CA CSM

As a system programmer, your responsibilities include acquiring, installing, maintaining, deploying, and configuring CA Technologies mainframe products on your system.

CA CSM is an application that simplifies and unifies the management of your CA Technologies mainframe products on z/OS systems. As products adopt the CA CSM services, you can install your products in a common way according to industry best practices.

If you do not have CA CSM installed, download it from the Download Center at <http://ca.com/support>. This web page also contains links to the complete documentation for CA CSM.

You can use the following scenarios to guide you through the [product installation process](#) (see page 15) using CA CSM:

- [Acquiring Products Using CA CSM](#)
- [Installing Products Using CA CSM](#)
- [Maintaining Products Using CA CSM](#)
- [Configuring Product Using CA CSM](#)

These scenarios are available in the CA CSM Version 6.0 bookshelf at <http://ca.com/support>. For additional information about how to use CA CSM, use the online help.

Chapter 4: Installing Your Product Using Pax ESD or DVD

This section contains the following topics:

- [How to Install Your Product Using a Pax File](#) (see page 37)
- [Allocate and Mount a File System](#) (see page 39)
- [Acquire the Product Pax Files](#) (see page 41)
- [Create a Product Directory from the Pax File](#) (see page 47)
- [Copy Installation Files to z/OS Data Sets](#) (see page 48)
- [Unload the Installation Library](#) (see page 50)
- [Modify and Run the Job INSTALL](#) (see page 51)
- [Delete, Allocate, and Initialize Libraries \(INST0001\)](#) (see page 65)
- [Allocate and Mount the z/FS Release Dependent Data Set \(INST0002\)](#) (see page 66)
- [Receive, Apply, and Accept SMP/E Functions \(INST0003\)](#) (see page 67)
- [Create Run-Time Libraries \(INST0004\)](#) (see page 67)
- [Create Run-Time SITE Libraries \(INST0005\)](#) (see page 68)
- [Clean Up the USS Directory](#) (see page 68)
- [Apply Preventive Maintenance](#) (see page 69)

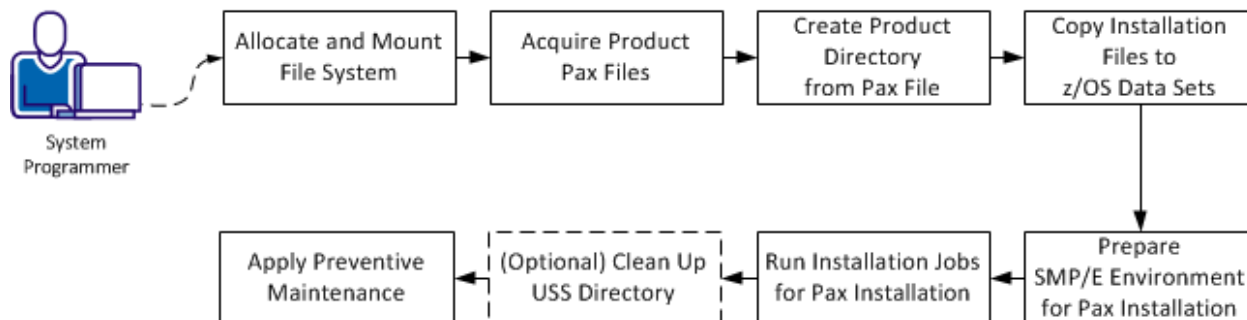
How to Install Your Product Using a Pax File

As a system programmer, your responsibilities include installing products on your mainframe system. With this option, you acquire a product pax file from <http://ca.com/support> or from a product DVD.

The DVD contains a folder that includes the pax file for the product. Product updates may have occurred after you acquired the product DVD. The files on the online site always have the most current product updates. To determine if you have the latest updates, go to <http://ca.com/support> and click Download Center.

You perform the following tasks to install a product with a pax file:

How to Install a Product Using a Pax File



1. [Allocate and mount the file system](#) (see page 39).
2. [Acquire the product pax files](#) (see page 41).
3. [Create a product directory from the pax file](#) (see page 47).
4. [Copy the installation files to z/OS data sets](#) (see page 48).
5. Prepare the SMP/E environment for a pax installation.
6. Run the installation jobs for a pax installation.
7. (Optional) [Clean up the USS directory](#) (see page 68).
8. Apply preventive maintenance.

USS Environment Setup

You need a UNIX System Services (USS) directory and a file system with adequate space to perform the following tasks:

- Receive product pax files from <http://ca.com/support>.
- Perform utility functions to unpack the pax file into MVS data sets that you can use to complete the product installation.

We recommend that you allocate and mount a file system that is dedicated to Pax ESD. The amount of space that you need for the file system depends on the following variables:

- The size of the pax files that you intend to download.
- Whether you plan to keep the pax files after unpacking them. We do not recommend this practice.

We recommend that you use one directory for downloading and unpacking pax files. Reusing the same directory minimizes USS setup. You need to complete the USS setup only one time. You reuse the same directory for subsequent downloads. Alternatively, you can create a directory for each pax download.

Important! Downloading pax files for the SMP/E installation as part of the Pax ESD process requires write authority to the UNIX System Services (USS) directories that are used for the Pax ESD process. In the file system that contains the Pax ESD directories, you also need free space approximately 3.5 times the pax file size to download the pax file and unpack its contents. For example, to download and unpack a 14 MB pax file, you need approximately 49 MB of free space in the file system hosting your Pax ESD directory.

Allocate and Mount a File System

The product installation process requires a USS directory to receive the pax file and to perform the unpack steps. We recommend that you allocate and mount a file system that is dedicated to the product acquisition and create the directory in this file system.

You can use the zSeries File System (zFS) or hierarchical file system (HFS) for product downloads.

This procedure describes how to perform the following tasks:

- Allocate a zFS or an HFS.
- Create a mount point in an existing maintenance USS directory of your choice.
- Mount the file system on the newly created mount point.

Note: You must have either SUPERUSER authority, or the required SAF profile setting to allow you to issue the USS mount command for the file system.

- Optionally, permit write access to anyone in the same group as the person who created the directory.

Important! USS commands are case-sensitive.

Follow these steps:

1. Allocate the file system by customizing one of the following samples to your site requirements:

- On a zFS, use the following sample:

```
//DEFINE EXEC PGM=IDCAMS
//SYSPRINT DD SYSOUT=*
//SYSUDUMP DD SYSOUT=*
//AMSDUMP DD SYSOUT=*
//SYSIN DD *
  DEFINE CLUSTER ( +
    NAME(your_zFS_data_set_name) +
    STORAGECLASS(class) +
    LINEAR +
    CYL(primary secondary) +
    SHAREOPTIONS(3,3) +
  )
/*
//FORMAT EXEC PGM=IOEAGFMT,REGION=0M,
// PARM=(' -aggregate your_zFS_data_set_name -compat')
//SYSPRINT DD SYSOUT=*
//SYSUDUMP DD SYSOUT=*
//STDOUT DD SYSOUT=*
//STDERR DD SYSOUT=*
//CEEDUMP DD SYSOUT=*
/*
```

- On an HFS, use the following sample:

```
//ALCHFS EXEC PGM=IEFBR14
//CAPAX DD DSN=yourHFS_data_set_name,
// DISP=(NEW,CATLG,DELETE),UNIT=3390,
// DSNTYPE=HFS,SPACE=(CYL,(primary,secondary),1)
```

The file system is allocated.

Note: Ensure that the zFS or HFS data set name that you use conforms to your data set naming conventions for USS file systems. If the allocation of the file system data set fails, it is because of environmental settings not allowing for the allocation. On an HFS, try using the ISPF 3.2 Data Set Utility to allocate your HFS data set.

2. Create a mount point for the file system. This example shows how to create a /CA/CAPAX directory in an existing directory, /u/maint. From the TSO OMVS shell, enter the following commands:

```
cd /u/maint/
mkdir CA
cd CA
mkdir CAPAX
```

Note: This document refers to this structure as *yourUSSpaxdirectory*.

The mount point is created.

3. Mount the file system by customizing one of the following samples to your site requirements:

- On a zFS, use the following sample:

```
MOUNT FILESYSTEM('your_zFS_data_set_name')
MOUNTPOINT('yourUSSpaxdirectory')
TYPE(ZFS) MODE(RDWR)
PARM(AGGRGROW)
```

- On an HFS, use the following sample:

```
MOUNT FILESYSTEM('your_HFS_data_set_name')
MOUNTPOINT('yourUSSpaxdirectory')
TYPE(HFS) MODE(RDWR)
```

The file system is mounted.

4. (Optional) Set security permissions for the directory. You can use the chmod command to let other users access the Pax ESD directory and its files. For example, to allow write access to the Pax ESD directory for other users in your USS group, from the TSO OMVS shell, enter the following command:

```
chmod -R 775 /yourUSSpaxdirectory/
```

Write access is granted.

Note: For more information about the chmod command, see the IBM *z/OS UNIX System Services User Guide (SA22-7802)*.

Acquire the Product Pax Files

To begin the CA Technologies product installation procedure, copy the product pax file into the USS directory that you set up.

Important! Downloading pax files for the SMP/E installation as part of the Pax ESD process requires write authority to the UNIX System Services (USS) directories that are used for the Pax ESD process. Also, you must have available USS file space before you start the procedures in this guide.

Use one of the following methods:

- [Download the product pax file from http://ca.com/support to your PC](http://ca.com/support) (see page 42), and then upload it to your USS file system.
If you download a zip file, you must unzip it before uploading to your USS file system.
- [Download the pax files from http://ca.com/support directly to your USS file system](http://ca.com/support) (see page 43).
- [Download the pax file from the product DVD to your PC, and then upload the pax files to your USS file system.](#) (see page 46)

This section includes the following information:

- A sample batch job to download a product pax file from the CA Support Online FTP server directly to a USS directory on your z/OS system
- Sample commands to upload a pax file from your PC to a USS directory on your z/OS system

Important! The FTP procedures vary due to local firewall and other security settings. Consult your local network administrators to determine the appropriate FTP procedure to use at your site.

Ensure that sufficient free space is available in the USS file system that you are using to hold the product pax file. If you do not have sufficient free space, error messages similar to the following appear:

```
EZA1490I Error writing to data set  
EZA2606W File I/O error 133
```

When the download finishes, the pax file size in your USS directory matches the value in the Size column for the corresponding pax file on the CA Technologies Products Download window.

Download Files to a PC Using Pax ESD

You can download product installation files from <http://ca.com/support> to your PC.

Follow these steps:

1. Log in to <http://ca.com/support>, and click Download Center.
The Download Center web page appears.
2. Under Download Center, select Products from the first drop-down list, and specify the product, release, and gen level (if applicable), and click Go.
The CA Product Download window appears.

3. Download an entire CA Technologies product software package or individual pax files to your PC. If you download a zip file, you must unzip it before continuing.

Note: For traditional installation downloads, see the *Traditional ESD User Guide*. For information about download methods, see the Download Methods and Locations article. Go to <http://ca.com/support>, log in, and click Download Center. Links to the guide and the article appear under the Download Help heading.

Download Using Batch JCL

You download a pax file from <http://ca.com/support> by running batch JCL on the mainframe. Use the sample JCL attached to the PDF file as [CAtoMainframe.txt](#) (see page 45) to perform the download.

Important! The PDF version of this guide includes sample JCL jobs that you can copy directly to the mainframe. To access these jobs, click the paper clip icon at the left of the PDF reader. A window displaying attachments opens. Double-click a file to view a sample JCL. We recommend that you use the latest version of Adobe Reader for viewing PDF files.

Note: We recommend that you follow the preferred download method as described on <http://ca.com/support>. This JCL procedure is our preferred download method for users who do not use CA CSM. We also include the procedure to download to the mainframe through a PC in the next section.

Follow these steps:

1. Replace *ACCOUNTNO* with a valid JOB statement.
The job points to your profile.
2. Replace *yourTCPIP.PROFILE.dataset* with the name of the TCP/IP profile data set for your system. Consult your local network administrators, if necessary.
The job points to your profile.
3. Replace *YourEmailAddress* with your email address.
The job points to your email address.
4. Replace *yourUSSpaxdirectory* with the name of the USS directory that you use for Pax ESD downloads.
The job points to your USS directory.
5. Locate the product component to download on the CA Support Product Download window.
You have identified the product component to download.
6. Click Download for the applicable file.
Note: For multiple downloads, add files to a cart.
The Download Method window opens.

7. Click FTP Request.

The Review Download Requests window displays any files that you have requested to download.

Note: We send you an email when the file is ready to download or a link appears in this window when the file is available.

8. Select one of the following methods:

Preferred FTP

Uses CA Technologies worldwide content delivery network (CDN). If you cannot download using this method, review the security restrictions for servers that company employees can download from that are outside your corporate network.

Host Name: ftp://ftpdnloads.ca.com

Alternate FTP

Uses the original download servers that are based on Long Island, New York.

Host Name: ftp://scftpd.ca.com for product files and download cart files and ftp://ftp.ca.com for individual solution files.

Both methods display the host, user name, password, and FTP location, which you then can copy into the sample JCL.

Note: The following links provide details regarding FTP: the FTP Help document link in the Review Download Requests window and the Learn More link available in the Download Methods window.

9. Submit the job.

Important! If your FTP commands are incorrect, it is possible for this job to fail and still return a zero condition code. Read the messages in the job DDNAME SYSPRINT to verify the FTP succeeded.

After you run the JCL job, the pax file resides in the mainframe USS directory that you supplied.

Example: CAtoMainframe.txt, JCL

The following text appears in the attached CAtoMainframe.txt JCL file:

```
//GETPAX JOB (ACCOUNTNO),'FTP GET PAX ESD PACKAGE',
//          MSGCLASS=X,CLASS=A,NOTIFY=&SYSUID
//*****
/* This sample job can be used to download a pax file directly from *
/* CA Support Online to a USS directory on your z/OS system.      *
/*                                                                *
/* When editing the JCL ensure that you do not have sequence numbers *
/* turned on.                                                    *
/*                                                                *
/* This job must be customized as follows:                        *
/* 1. Supply a valid JOB statement.                               *
/* 2. The SYSTCPD and SYSFTPD JCL DD statements in this JCL may be *
/* optional at your site. Remove the statements that are not    *
/* required. For the required statements, update the data set   *
/* names with the correct site-specific data set names.         *
/* 3. Replace "Host" based on the type of download method.      *
/* 4. Replace "YourEmailAddress" with your email address.       *
/* 5. Replace "yourUSSpaxdirectory" with the name of the USS     *
/* directory used on your system for Pax ESD downloads.         *
/* 6. Replace "FTP Location" with the complete path              *
/* and name of the pax file obtained from the FTP location     *
/* of the product download page.                                *
//*****
//GETPAX EXEC PGM=FTP,PARM='(EXIT TIMEOUT 120',REGION=0M
//SYSTCPD DD DSN=yourTCPIP.PROFILE.dataset,DISP=SHR
//SYSFTPD DD DSN=yourFTP.DATA.dataset,DISP=SHR
//SYSPRINT DD SYSOUT=*
//OUTPUT DD SYSOUT=*
//INPUT DD *
Host
anonymous YourEmailAddress
lcd yourUSSpaxdirectory
binary
get FTP_location
quit
/*
```

Download Files to Mainframe through a PC

You download the product installation files to your PC and transfer them to your USS system.

Follow these steps:

1. Download the product file to your PC using one of the following methods:
 - [Pax ESD](#) (see page 42). If you downloaded a zip file, first unzip the file to use the product pax files.
 - DVD. Copy the entire product software package (or individual pax files) to your PC.

The pax file resides on your PC.

Note: Do *not* change the format of the pax.Z.

2. Open a Windows command prompt.

The command prompt appears.

3. Customize and enter the following FTP commands:

```
FTP mainframe
userid
password
bin
lcd C:\PC\folder\for\thePAXfile
cd /yourUSSpaxdirectory/
put paxfile.pax.Z
quit
exit
```

mainframe

Specifies the z/OS system IP address or DNS name.

userid

Specifies your z/OS user ID.

password

Specifies your z/OS password.

C:\PC\folder\for\thePAXfile

Specifies the location of the pax file on your PC.

Note: If you specify a location that has blanks or special characters in the path name, enclose that value in double quotation marks.

yourUSSpaxdirectory

Specifies the name of the USS directory that you use for Pax ESD downloads.

paxfile.pax.Z

Specifies the name of the pax file to upload.

The pax file is transferred to the mainframe.

Create a Product Directory from the Pax File

The pax command performs the following actions:

- Extracts the files and directories that are packaged within the pax file.
- Creates a USS directory in the same directory structure where the pax file resides.
- Automatically generates a product and level-specific directory name.

Set the current working directory to the directory containing the pax file, and create a directory in your USS directory by entering the following command:

```
pax -rvf pax-filename
```

Use the sample JCL that is attached to the PDF file as [Unpackage.txt](#) (see page 48) to extract the product pax file into a product installation directory.

Important! The PDF version of this guide includes sample JCL jobs that you can copy directly to the mainframe. To access these jobs, click the paper clip icon at the left of the PDF reader. A window displaying attachments opens. Double-click a file to view a sample JCL. We recommend that you use the latest version of Adobe Reader for viewing PDF files.

Follow these steps:

1. Replace *ACCOUNTNO* with a valid JOB statement.
2. Replace *yourUSSpaxdirectory* with the name of the USS directory that you use for product downloads.

The job points to your specific directory.

3. Replace *paxfile.pax.Z* with the name of the pax file.

The job points to your specific pax file.

4. Submit the job.

The job creates the product directory.

Note: If the PARM= statement exceeds 71 characters, uncomment and use the second form of UNPAXDIR instead. This sample job uses an X in column 72 to continue the PARM= parameters to a second line.

Example: JCL File, Unpackage.txt, to Customize

The following text appears in the attached Unpackage.txt JCL file:

```
//ESDUNPAX JOB (ACCOUNTNO),'UNPAX PAX ESD PACKAGE',
// MSGCLASS=X,CLASS=A,NOTIFY=&SYSUID
//*****
/* This sample job can be used to invoke the pax command to create *
/* the product-specific installation directory. *
/* *
/* This job must be customized as follows: *
/* 1. Supply a valid JOB statement. *
/* 2. Replace "yourUSSpaxdirectory" with the name of the USS *
/* directory used on your system for Pax ESD downloads. *
/* 3. Replace "paxfile.pax.Z" with the name of the pax file. *
/* NOTE: If you continue the PARM= statement on a second line, *
/* start entering characters in column 16 and make sure *
/* the 'X' continuation character is in column 72. *
//*****
//UNPAXDIR EXEC PGM=BPXBATCH,
// PARM='sh cd /yourUSSpaxdirectory/; pax -rvf paxfile.pax.Z'
/*UNPAXDIR EXEC PGM=BPXBATCH,
/* PARM='sh cd /yourUSSpaxdirectory/; pax X
/* -rvf paxfile.pax.Z'
//STDOUT DD SYSOUT=*
//STDERR DD SYSOUT=*
```

Copy Installation Files to z/OS Data Sets

Use this procedure to invoke the SMP/E GIMUNZIP utility to create MVS data sets from the files in the product-specific directory.

The file UNZIPJCL in the product directory contains a sample job to GIMUNZIP the installation package. You edit and submit the UNZIPJCL job to create z/OS data sets.

Follow these steps:

1. Locate and read the product readme file or installation notes, if applicable, which resides in the product-specific directory that the pax command created. This file contains the product-specific details that you require to complete the installation procedure.

You have identified the product-specific installation details.

2. Use ISPF EDIT or TSO ISHELL to edit the UNZIPJCL sample job. You can perform this step in one of the following ways:
 - Use ISPF EDIT. Specify the full path name of the UNZIPJCL file.
 - Use TSO ISHELL. Navigate to the UNZIPJCL file and use the E line command to edit the file.

The job is edited.

3. Change the SMPDIR DD PATH to the product-specific directory created by the pax command.

Your view is of the product-specific directory.

4. If ICSF is not active, perform the following steps:
 - a. Change the SMPJHOME DD PATH to your Java runtime directory. This directory varies from system to system.
 - b. Perform one of the following steps:
 - Change the SMPCPATH DD PATH to your SMP/E Java application classes directory, typically `/usr/lpp/smp/classes/`.
 - Change HASH=YES to HASH=NO on the GIMUNZIP parameter.

One of the following occurs: ICSF is active or you are using Java.

5. Change all occurrences of *yourHLQ* to the high-level qualifier (HLQ) for z/OS data sets that the installation process uses. We suggest that you use a unique HLQ for each expanded pax file to identify uniquely the package. Do *not* remove CAI after *yourHLQ*. Do *not* use the same value for *yourHLQ* as you use for the SMP/E RELFILES.

All occurrences of *yourHLQ* are set to your high-level qualifier for z/OS data sets.

6. Submit the UNZIPJCL job.

The UNZIPJCL job completes with a zero return code. Messages GIM69158I and GIM48101I in the output and IKJ56228I in the JES log are acceptable.

GIMUNZIP creates z/OS data sets with the high-level qualifier that you specified in the UNZIPJCL job. You use these data sets to perform the product installation. The pax file and product-specific directory are no longer needed.

Note: For more information, see the IBM *SMP/E for z/OS Reference (SA22-7772)*.

Unload the Installation Library

To copy the installation library from an ESD created DASD-based product distribution file, use the following procedure.

Follow these steps:

1. Modify the sample JCL to the specification of your site.

A copy of the sample JCL can be obtained from *yourHLQ.CAI.CNM4E00.F1(ESDJCL)* that the UNZIPJCL created.

2. Modify the job stream to your site by replacing the following lowercase, italicized items in the sample JCL with the information described here.

volume

Specifies the volume serial number where the installation library is to reside.

yourHLQ

Specifies the HLQ used during the UNZIP step of the ESD process.

The job stream to modify follows:

```
//ESDINST JOB (0000)
//*
/*=====*
/*
/* Sample job to create the sysview.SAMPJCL data set
/*
/*=====*
/*
// SET HLQ='yourHLQ'
// SET VOLUME=volume
/*
//COPY EXEC PGM=IEBCOPY
//SYSUT3 DD UNIT=SYSDA,SPACE=(CYL,(5,1))
//SYSUT4 DD UNIT=SYSDA,SPACE=(CYL,(5,1))
//SYSPRINT DD SYSOUT=*
/*
//IN DD DISP=SHR,DSN=&HLQ..CAI.CNM4D50.F1
/*
//SAMPJCL DD DSN=&HLQ..SAMPJCL,
// DISP=(NEW,CATLG,DELETE),
// UNIT=SYSDA,
// VOL=SER=&VOLUME,
// DCB=(RECFM=FB,LRECL=80,BLKSIZE=6160),
// SPACE=(CYL,(05,02,45))
/*
//SYSIN DD DISP=SHR,DSN=&HLQ..CAI.CNM4D50.F1(SAMPJCL)
```

3. Submit the modified sample JCL.

The installation library (SAMPJCL) is copied from the DASD-based SMP/E RELFILE that the UNZIP step of the ESD process created.

Modify and Run the Job INSTALL

The job INSTALL in the installation library SAMPJCL generates the JCL stream necessary to install CA SYSVIEW.

This step contains instructions for modifying the job INSTALL to meet the needs of your site.

Before you begin this step, have the following information available:

- The high-level qualifier (HLQ), which must be 24 characters or fewer.

Follow these steps:

1. Modify the following JOB statement in INSTALL to the requirements of your site:

```
//INSTALL JOB (00000000), 'SYSVIEW', CLASS=A
```

2. Modify the following SYSLIB statement in INSTALL to replace the high-level qualifier of *sysview* with the qualifier you chose when you downloaded the installation library:

```
//SYSLIB DD DISP=SHR, DSN=sysview.SAMPJCL
```

3. Modify the GSVIINST macro parameters in INSTALL.

The INSTALL job stream contains the parameters for the macro GSVIINST. The values that are assigned to these parameters determine how CA SYSVIEW is installed. You can change these values in the generated job stream before the step where they are used.

4. Submit the job INSTALL.

The job is submitted to the internal reader, and the job stream is generated.

The job name that you specified on the JOBNAME parameter is the output from the assembly. If you did not specify a job name, the job output is INST0000.

Important! Your TSO enqueues on the *sysview.SAMPJCL* while members are edited. Therefore, end the edit session to release this data set so the job executes.

More information:

[GSVIINST Macro—Set INSTALL Parameters](#) (see page 81)

GSVIINST Macro—Set INSTALL Parameters

Set the GSVIINST macro parameters before you submit the job INSTALL. The following example shows the default parameter values that appear in the job INSTALL.

These parameters have the following syntax:

```
//INSTALL JOB (000000000),'SYSVIEW',CLASS=A
//*
/*-----*
/* CA SYSVIEW *
/* Installation generator *
/* *
/* This job will dynamically build the other jobs that are *
/* required to complete the installation. *
/* *
/* *-----* Important Notice *-----* *
/* *
/* CA Mainframe Software Manager *
/* *
/* If you have used CA Mainframe Software Manager *
/* to perform the installation of the product, *
/* this step is required. *
/* *
/* Step: Required *
/* *
/*-----*
//ASM EXEC PGM=ASMA90,REGION=1024K,PARM='NOTERM,LIST,DECK,NOOBJECT'
//*
//SYSUT1 DD UNIT=SYSDA,SPACE=(1700,(600,100))
//SYSUT2 DD UNIT=SYSDA,SPACE=(1700,(600,100))
//SYSUT3 DD UNIT=SYSDA,SPACE=(1700,(600,100))
//SYSPUNCH DD SYSOUT=(*,INTRDR),DCB=(RECFM=FB,LRECL=80,BLKSIZE=2000)
//SYSPRINT DD SYSOUT=*
/*-----*
/* The data set defined to the DDNAME SYSLIB should also *
/* be coded as the data set name on the GSVIINST option *
/* INSTLIB=. *
/* *
/* The options that require modification or inspection *
/* for specific site installation needs are marked with *
/* a "<---". *
/*-----*
/*
//SYSLIB DD DISP=SHR,DSN=sysview.SAMPJCL <---INSTLIB
/*
/*
/* Note: When modifying the macro below, remember to include
/* the continuation character "X" in column 72 for all
```

```

/**          lines except the last line containing the DUMMY=
/**          parameter.
/**
/**+. ....1....+...2....+...3....+...4....+...5....+...6....+...7.X
//SYSIN    DD *
*
          PRINT NOGEN
          GSVIINST                                X
          , *-----* X
          , * Installation data set name          * X
          , * This is the data set name that you are * X
          , * editing now.                        * X
          , *-----* X
          INSTLIB=sysview.SAMPJCL,                <--- X
          , *-----* X
          , * System parmlib data set            * X
          , *-----* X
          SYSPLIB=SYS1.PARMLIB,                  <--- X
          , *-----* X
          , * Source installation Media          * X
          , *   ESD - ESD file on DASD          * X
          , *   DVD - Contains PAX file         * X
          , *-----* X
          SOURCE=ESD,                            ESD | DVD <--- X
          , *-----* X
          , * High-level qualifier used when the ESD file * X
          , * was UNZIPPED.                      * X
          , *-----* X
          ESDHLQ=yourHLQ,                        ESD HLQ <--- X
          , *-----* X
          , * Data set allocation                * X
          , *-----* X
          PREFIX=sysview,                        <--- X
          SITEDSN=YES,                           <--- X
          DELETE=YES,                             X
          DASDVOL=volume,                        <--- X
          SMS=NO,                                 X
          SMSVOL=,                                X
          STORCLAS=,                              X
          DSKUNIT=SYSDA,                          X
          WRKUNIT=SYSDA,                          X
          PROFTYPE=PDS,                           X
          , *-----* X
          , * Data set blocksizes                * X
          , *-----* X
          BLKSZU=6144,                            X
          BLKSZFB=3200,                           X
          BLKSZVB=25600,                          X
          , *-----* X

```

```

, * z/FS data set allocation * X
, *-----* X
ZFSHLQ=OMVS.SYSVIEW, <--- X
PATHPREFIX=, X
, *-----* X
, * SMP/E * X
, *-----* X
SMPEHLQ=, X
SMPETZ=CAIT, X
SMPEDZ=CAID, X
SMPEVOL=volume, <--- X
DLIBVOL=volume, <--- X
SMPEUNIT=SYSDA, X
DLIBUNIT=SYSDA, X
, *-----* X
, * Data set and high level qualifiers * X
, *-----* X
CEEHLQ=CEE, <--- X
IMSHLQ=ims, <--- X
MQSHLQ=mqseries, <--- X
SYSTCPD=TCPIP.TCPIP.DATA, <--- X
TCPMBR=, X
, *-----* X
, * CA SYSVIEW Options * X
, *-----* X
OPTIONS=(, Begin option list X
NOCAPTURE, ...option X
NOCICS, ...option X
NODATACOM, ...option X
NOIMS, ...option X
NOMVS, ...option X
NOMQSERIES, ...option X
NOTCPIP, ...option X
NOCEAPM, ...option X
NOCHORUS, ...option X
), End option list X
, *-----* X
, * CA SYSVIEW Components * X
, *-----* X
COMPONENTS=(, Begin component list X
DB2 ...component X
HCHECK, ...component X
MIM, ...component X
ROSCOE, ...component X
IDMS, ...component X
USS, ...component X
XSYSTEM, ...component X
), End component list X
, *-----* X

```

```
, * CA SYSVIEW GEN parameters * X
, *-----* X
SUBSYS=GSVX, X
, *-----* X
, * The CA customer siteid. * X
, * The siteid will be used to assist technical * X
, * support with diagnostics. This is used when * X
, * FTPing information to CA. (optional) * X
, *-----* X
SITEID=siteid, <--- X
, *-----* X
, * Jobcard/JCL creation * X
, *-----* X
JOBNAME=, X
NAME='PROGRAMMER NAME', <--- X
ACCT=(000000000), X
NOTIFY=NO, X
CLASS=A, X
MSGCLASS=A, X
MSGLEVEL=(1,1), X
ROUTE=NO, X
SYSAFF=NO, X
OUTC=*, X
, *-----* X
, * Assemble and Link edit * X
, *-----* X
ASMPGM=ASMA90, X
LINKPGM=IEWL, X
, *-----* X
, * End of Macro * X
, *-----* X
DUMMY=DUMMY

*
* Do not remove the following line.
*
END
/*
```


You can modify the following GSVIINST parameters:

INSTLIB

Names the current installation library data set. Be sure that you use the same high-level qualifier you used in the SYSLIB statement. See the step Modify and Run the Job INSTALL.

Default: *sysview.SAMPJCL*

SYSPLIB

Specifies the system parameter library that contains the system configuration options member.

Default: *SYS1.PARMLIB*

SOURCE=source

Specifies the source installation media type.

Valid Values:

- ESD—Provides the Electronic Software Delivery DASD file.
- DVD—Contains a folder that includes the pax file for the product.

ESDHLQ=yourHLQ

This parameter is only used and required if SOURCE=ESD.

Specifies the high-level qualifier that is used when unzipping the ESD files to z/OS data sets. UNZIPJCL performs this job.

The UNZIPJCL job references the high-level qualifier as *yourHLQ*. Use the same value for the ESDHLQ= value.

PREFIX

Specifies the prefix for allocating data sets.

Limit: The length of PREFIX and SUFFIX must not exceed 24 characters.

Default: *PREFIX=sysview*

SITEDSN

Specifies whether to use a set of site libraries for maintaining your customized library members.

The site data sets can be reused and carried forward when you migrate or update to a new release of CA SYSVIEW.

Valid Values:

YES

Generates the sample job INST0006. This job creates a set of site libraries and updates the sample GSVX* System configuration member accordingly.

NO

The sample job INST0006 is not generated.

<dsn_hlq>

Specify the high-level qualifier for an existing set of site libraries.

The low-level qualifier of CNM4Bnnn will be appended to the <dsn_hlq> specified. The INST0005 job is not generated and the sample GSVX* System configuration member is updated using the existing site HLQ.

Default: SITEDSN=YES

DELETE

Specifies the parameter for indicating whether to generate a DELETE request for each new library before allocation. Specify YES or NO. If you are reinstalling to an existing set of libraries, specify DELETE=NO.

Default: DELETE=YES

DASDVOL

Specifies the volume serial number (volser) of the volume on which to allocate data sets.

SMS

Specifies the parameter for defining whether SMS is used for the data set allocation. Specify YES or NO. If you specify YES, specify an SMS storage class on the STORCLAS parameter.

Default: SMS=NO

SMSVOL

Specifies the volume serial number (volser) of the volume that is used to allocate the SMS data sets.

Note: Some sites do not allow the volser to be specified for SMS.

STORCLAS

Specifies the SMS storage class that is used when you have specified YES on the SMS parameter.

DSKUNIT

Specifies the disk unit type.

Default: DSKUNIT=SYSDA

WRKUNIT

Specifies the disk work unit type.

Default: WRKUNIT=SYSDA

PROFTYPE

Specifies the profile data set type that you want to allocate.

Valid Values:

PDS

Allocates the PDS profile data set, which is shared across multiple sysplexes.

LIBRARY

Allocates the profile PDSE data set, which can only be shared within a single sysplex. If your configuration contains more than one sysplex, for each sysplex allocate a unique data set.

Default: PDS

BLKSZU

Specifies the block size that is used when allocating data sets with an undefined record length. Use this parameter for allocating the load library data sets.

Default: BLKSZU=6144

BLKSZFB

Specifies the block size that is used when allocating fixed block data sets.

Default: BLKSZFB=3200

BLKSZVB

Specifies the block size that is used when allocating variable block data sets.

Default: BLKSZVB=25600

ZFSLQ

Specifies the high-level qualifier for the z/FS data set created during the installation process:

- zfshlq.ZFS

fmid

Contains the CA SYSVIEW SMP/E fmid.

Default: ZFSLQ=OMVS.SYSVIEW

PATHPREFIX

Specifies the pathname prefix for the mount point of the z/FS data sets.

Default: PATHPREFIX=,

Example:

PATHPREFIX=/instpath

Resolves to the following mount points:

instpath/usr/lpp/sysview

instpath/usr/lpp/sysview/fmid

fmid

Contains the CA SYSVIEW SMP/E fmid.

SMPEHLQ

Specifies the HLQ for the SMP/E libraries. Specifying a value for SMP/E HLQ generates an extra sample job (INST0004). This job creates a set of run-time libraries using the PREFIX specified HLQ.

SMPETZ

Specifies the SMP/E target zone.

Default: SMPETZ=CAIT

SMPEDZ

Specifies the SMP/E distribution zone.

Default: SMPEDZ=CAID

SMPEVOL

Specifies the volume where you allocated the internal SMP/E and target data sets.

DLIBVOL

Specifies the volume where you allocate the SMP/E distribution data sets.

SMPEUNIT

Specifies the unit type for the SMPEVOL specified volume.

DLIBUNIT

Specifies the unit type for the DLIBVOL specified volume.

CEEHLQ

Specifies the C language environment high-level qualifier at your site.

IMSHLQ

Specifies the IMS high-level qualifier for your site. If multiple releases of IMS are being used, specify the highest level. This high-level qualifier is used to generate the DD statements for the following data sets:

```
DD DSN=imshlq.SDFSRESL
```

MQSHLQ

Specifies WebSphere MQ high-level qualifier for your site. If multiple releases of WebSphere MQ are being used, specify the highest level. This high-level qualifier is used to generate the DD statements for the following data sets:

```
DD DSN=mqshlq.SCSQAUTH  
DD DSN=mqshlq.SCSQLOAD  
DD DSN=mqshlq.SCSQANLE
```

SYSTCPD

Specifies the name of the system TCP/IP configuration file. This parameter can also be coded as a Hierarchical File System (HFS) path.

Default: TCPIP.TCPIP.DATA

TCPMBR

Specifies the member name from the TCP/IP data set (if any).

Note: This parameter is required only if the data set specified on the SYSTCPD parameter is a PDS.

Default: None

OPTIONS

Specifies to enable those options that are licensed to the customer. The options include the base product. Specifying an option value lets you use the option commands. By default, you can access commands for the option from the CA SYSVIEW main menu.

Note: Specify at least one option.

Values for the options parameter include:

- CAPTURE|NOCAPTURE—Event Capture Option
- CICS|NOCICS—CA SYSVIEW Option for CICS
- DATACOM|NODATACOM—CA SYSVIEW CA Datacom Option
- IMS|NOIMS—CA SYSVIEW Option for IMS
- MVS|NOMVS—CA SYSVIEW Option for z/OS
- MQSERIES|NOMQSERIES—CA SYSVIEW Option for WebSphere MQ

- TCPIP|NOTCPIP—CA SYSVIEW Option for TCP/IP
- CEAPM|NOCEAPM—CA Cross Enterprise APM
- CHORUS|NOCHORUS—CA Chorus

COMPONENTS

Specifies the CA SYSVIEW components that you want enabled. Specifying a component value lets you use the component commands. By default, you can access commands for the component from the CA SYSVIEW main menu.

Note: DB2 is a new component and requires a license LMP key for CA Insight for DB2.

Values for the components parameter include:

- DB2|NODB2—CA Insight for DB2
- HCHECK|NOHCHECK—IBM Health Checker
- MIM|NOMIM—CA MIM Resource Sharing for z/OS
- ROSCOE|NOROSCOE—CA Roscoe
- IDMS|NOIDMS
- USS|NOUSS—UNIX System Services
- XSYSTEM|NOXSYSTEM—The Cross-system component

Note: Complete the CA SYSVIEW installation before installing or customizing some of these components and options.

SUBSYS

Specifies the suffix for the System Configuration Options member name in the system parameter library. Use GSVX if it is not already in use by another product. The same subsystem can share multiple releases of CA SYSVIEW.

Default: SUBSYS=GSVX

SITEID=*siteid*

Specifies the CA customer site ID used when contacting technical support. Use this site ID to FTP information to CA.

JOBNAME

Specifies the job name that is used when creating a JOB statement for installation jobs. If no parameter is specified, the name of the installation member is used.

NAME

Specifies the programmer name that is specified on the JOB statement.

ACCT

Specifies the account number when it is necessary to build a JOB statement.

Default: ACCT=(00000000)

NOTIFY

Specifies the user ID that is notified when the job completes. If NO is specified, this parameter is not generated on the JOB statement.

Default: NOTIFY=NO

CLASS

Specifies the job class for use on the JOB statement.

Default: CLASS=A

MSGCLASS

Specifies the message class for use on the JOB statement.

Default: MSGCLASS=A

MSGLEVEL

Specifies the message level for use on the JOB statement.

Default: MSGLEVEL=(1,1)

ROUTE

Generates the following route statement:

```
/*ROUTE PRINT userid
```

If NO is specified, this statement is not generated.

Default: ROUTE=NO

SYSAFF

Generates the following system affinity statement:

```
/*JOBPARM SYSAFF=sysname
```

If NO is specified, this statement is not generated.

Default: SYSAFF=NO

OUTC

Specifies the output class for use with SYSOUT.

Default: OUTC=*

ASMPGM

Specifies the name of the program that is used to assemble modules. Possible values are IEV90 and ASMA90.

Default: ASMPGM=ASMA90

LINKPGM

Specifies the name of the program that is used to link-edit modules.

Default: LINKPGM=IEWL

More information:

[Modify and Run the Job INSTALL](#) (see page 51)

Output from ESD or DVD Install

The following table shows the members that are created during the installation.

Job/Procedure	SAMPLIB	Purpose
INST0001	None	Deletes, allocates, and initializes the data sets.
INST0002	None	Allocates and mounts the z/FS release dependent data set.
INST0003	None	Performs the SMP/E functions RECEIVE, APPLY, and ACCEPT.
INST0004	None	Creates a set of run-time libraries.
INST0005	None	Creates an empty set of site libraries.

Delete, Allocate, and Initialize Libraries (INST0001)

This step deletes, allocates, and initializes the CA SYSVIEW and SMP/E libraries, which must be done before the libraries can be populated.

Follow these steps:

1. Review the INST0001 member in the *sysview.SAMPJCL* data set to ensure all of the files that are referenced in the job are correct.
2. Submit the member INST0001.

When the job ends with a condition code of 0, the libraries are successfully allocated and ready to be populated.

Allocate and Mount the z/FS Release Dependent Data Set (INST0002)

Job INST002 creates the z/FS data set, directories, and mount-point for the new release of CA SYSVIEW. This job is required each time that you install a new release of CA SYSVIEW.

Important: Keep the file systems mounted and permanently available.

This procedure guides you through allocating and mounting the z/FS release dependent data set.

Follow these steps:

1. Review the INST0002 member in the *sysview.SAMPJCL* data set to ensure all of the names and parameters are correct.
2. Specify the allocation type:
Set ZFS='TRUE' for the z/FS files
Set ZFS='FALSE' for the HFS files
3. Submit the member INST0002

This member contains and runs the following steps. Each step must complete with a return code of zero:

UNMOUNT

Unmounts an existing z/FS.

This step lets you execute the job again. The return code is forced to zero.

DELDIR

Deletes the specific release directory.

This step lets you execute the job again. The return code is forced to zero.

DELZFS

Deletes the z/FS.

This step lets you execute the job again. The return code is forced to zero.

ALLOCFZFS

Allocates the z/FS data set.

FORMAT

Formats the z/FS data set.

MAKEDIR

Creates the required directory structure.

MOUNT

Mounts the z/FS data set at the specified directory.

When the job ends with a return code of 0, the z/FS release dependent data set is successfully allocated and mounted.

Receive, Apply, and Accept SMP/E Functions (INST0003)

This step performs the SMP/E RECEIVE, APPLY, and ACCEPT functions.

Follow these steps:

1. Review the INST0003 member in the *sysview.SAMPJCL* data set to ensure all of the files that the job references are correct.
2. Submit the member INST0003.

When the job ends with a condition code of 4 or less, the RECEIVE, APPLY, and ACCEPT functions have been performed.

Create Run-Time Libraries (INST0004)

This optional step creates a set of run-time libraries for your environment.

Follow these steps:

1. Code a value for SMPEHLQ and specify a different HLQ for the SMP/E libraries.
The sample JCL member INST0004 is generated to create a set of run-time libraries.
2. Copy the SMP/E target libraries that are coded in the System Configuration Options member.

The run-time libraries are created.

Note: INST0004 JCL is not generated when you eliminate the value for SMPEHLQ, or SMPEHLQ has the same value as PREFIX.

Create Run-Time SITE Libraries (INST0005)

This optional step creates a set of run-time SITE libraries for your environment using the same HLQ as the SYSTEM run-time libraries. The qualifier ".SITE" is appended before the low-level data set qualifier to differentiate the SITE libraries from the SYSTEM libraries.

Follow these steps:

1. Code a value for SMPHLQ to specify a different HLQ for the SMP/E libraries. This step allows the coded value for PREFIX to be used as the HLQ for both the SYSTEM and SITE run-time libraries.

The sample JCL member INST0005 is generated to create a set of SITE run-time libraries.

2. Copy the members that were configured from the run-time libraries of your prior version of CA SYSVIEW into the SITE libraries.

The SITE run-time libraries are created.

Note: INST0005 JCL is not generated when you specify SITEDSN=NO, or you specify a high-level qualifier for SITEDSN to carry an existing set of SITE libraries forward from a prior release. If you specified SITEDSN=YES, then run INST0005 to allocate the libraries. If you do not run INST0005, then reset the "Dsn-Site" values in the sample System Configuration member back to NONE.

Clean Up the USS Directory

Important! This procedure is optional. Do not use this procedure until you complete the entire installation process.

To free file system disk space for subsequent downloads after downloading and processing the pax files for your CA Technologies product, we recommend removing the files from your USS directory and deleting unnecessary MVS data sets. You can delete the following items:

- Pax file
- Product-specific directory that the pax command created and all of the files in it
- SMP/E RELFILES, SMPMCS, and HOLDDATA MVS data sets

These data sets have the HLQ that you assigned in the UNZIPJCL job.

Note: Retain non-SMP/E installation data sets such as *yourHLQ*.INSTALL.NOTES for future reference.

Follow these steps:

1. Navigate to your Pax ESD USS directory.

Your view is of the applicable USS directory.

2. Delete the pax file by entering the following command:

```
rm paxfile
```

paxfile

Specifies the name of the CA Technologies pax file that you downloaded.

The pax file is deleted.

3. Delete the product-specific directory by entering the following command:

```
rm -r product-specific_directory
```

product-specific_directory

Specifies the product-specific directory that the pax command created.

The product-specific directory is deleted.

Note: You can also use TSO ISHELL to navigate to the pax file and product-specific directory, and delete them using the D line command.

Apply Preventive Maintenance

Important! We strongly recommend that you use CA CSM to maintain your CA Technologies z/OS-based products. The procedure that is discussed in this section is fully automated when you use CA CSM.

CA Support Online at <http://ca.com/support> has the maintenance and HOLDDATA published after the installation data was created. After the maintenance process completes, the product is ready to deploy.

Use this procedure during the product installation and for ongoing preventive maintenance in noninstallation use cases according to your maintenance strategy.

Note: To review the CA Technologies mainframe maintenance philosophy, see your *Best Practices Guide* or visit the [CA Next-Generation Mainframe Management page](#).

This procedure directs you to use the CAUNZIP utility. The CAUNZIP utility processes ZIP packages directly on z/OS without the need for an intermediate platform, such as a Microsoft Windows workstation. If you are not familiar with this utility, see the *CA Common Services for z/OS Administration Guide*. This guide includes an overview and sample batch jobs. To use this utility, you must be running CA Common Services for z/OS Version 14.0 with PTF RO54887 or CA Common Services for z/OS Release 14.1 with PTF RO54635.

Follow these steps:

1. Check the Download Center at <http://ca.com/support> for PTFs that have been published after this release was created. A recently created base release has no published PTFs. When PTFs exist, add published solutions for your product to your Download Cart and click Checkout.
2. Specify that you want a complete package.

When the processing completes, a link appears on the Review Download Requests page. You also receive an email notification.
3. Click the Alternate FTP link for your order to obtain the FTP login information and the ZIP file location. Download the ZIP file into a USS directory on your z/OS system.
4. Run the CAUNZIP utility.

CAUNZIP unzips the package of published solutions and creates the SMPNTS file structure that the SMP/E RECEIVE FROMNTS command can process. For the sample JCL to run the utility that is located in *yourHLQ.CAW0JCL(CAUNZIP)*, see the *CA Common Services for z/OS CAUNZIP Administration Guide*. After the execution completes, the ZIPRPT data set contains the summary report. The summary report provides the following information:
 - Summarizes the content of the product order ZIP file.
 - Details the content of each data set and the z/OS UNIX files produced.
 - Provides a sample job for receiving the PTFs in your order.
5. Review the sample job that is provided in the CAUNZIP output ZIPRPT file.

To receive the PTFs in your order:
 - a. Cut and paste the JCL into a data set.
 - b. Specify your SMP/E CSI on the SMPCSI DD statement.
 - c. Submit the job.
6. Submit the SAMPJCL member NM41HOLD.

The job downloads the external HOLDDATA file.
7. Submit the SAMPJCL member NM47RECH.

The job receives the external HOLDDATA file.
8. Submit the SAMPJCL member NM48APYP.

The PTFs are applied.
9. (Optional) Submit the SAMPJCL member NM49ACCP.

The PTFs are accepted.

Note: You do not have to submit the job now. You can accept the PTFs according to your site policy.

HOLDDATA

When you apply maintenance, you typically encounter SMP/E HOLDDATA. We use HOLDDATA to notify your SMP/E system of SYSMODs that have errors or special conditions. We support system and external HOLDDATA.

System HOLDDATA

System HOLDDATA indicates data that is an in-stream part of the SYSMOD, informing you of special conditions. The following reasons are used with SYSTEM HOLDDATA for your product:

ACTION

Indicates that you must perform special processing before or after you apply this SYSMOD.

AO

Affects automated operations. It changes either the message identifier or the displacement of a field inside the message.

DDDEF

Indicates that data sets and DDDEFs are being added or modified.

DELETE

Deletes the SYSMOD load module. You cannot reverse this type of SYSMOD with the SMP/E RESTORE command.

DEP

Indicates a dependency for this SYSMOD that you must externally verify.

DOC

Indicates a documentation change with this SYSMOD.

DYNACT

Describes the steps to dynamically activate this fix without performing an IPL.

ENH

Introduces a small programming enhancement. The hold contains the instructions to implement the enhancement. If no action is needed to implement the enhancement, give a summary of the enhancement.

EXIT

Indicates that changes delivered by this SYSMOD require reassembly of user exits.

EXRF

Indicates that the SYSMOD must be installed in both the Active and Alternate Extended Recovery Facility Systems.

MULTSYS

Apply this SYSMOD to multiple systems for either pre-conditioning, coexistence, or exploitation.

RESTART

Indicates that after applying this SYSMOD, the site must perform a special restart as opposed to a routine restart.

SYSMOD

Indicates that some or all of the elements that this SYSMOD delivers are to be downloaded to a workstation.

Code a bypass operand on your APPLY command to install SYSMODs that have internal holds. Code the bypass operand only after you have performed the required action, or if you are performing the action after the APPLY, if that is appropriate.

External HOLDDATA

External HOLDDATA is not part of the PTF. The HOLDDATA resides in a separate file and contains both error and FIXCAT HOLDDATA. The error HOLDDATA is commonly used for SYSMODs that have been distributed and later are discovered to cause problems. The FIXCAT HOLDDATA helps identify maintenance that is required to support a particular hardware device, software, or function.

Download the external HOLDDATA from <http://ca.com/support> to a DASD file, and allocate the file to the SMPHOLD DD statement. To take care of the external HOLDDATA, receive it into your SMP/E environment. SMP/E receives the HOLDDATA from CA-supplied jobs.

You can find JCL to download the external HOLDDATA in your SAMPJCL member. Open NM41HOLD in an edit session and execute the NM4SEEDIT macro on the command line. Then, submit the JCL.

Error HOLDDATA

If a SYSMOD has an unresolved hold error, SMP/E does not install it unless you add a bypass to your APPLY command. You can bypass an error hold in situations that are not applicable to you. Error holds that are not applicable to you can include a problem that happens only with a hardware device that you do not have or in a product feature that you do not use.

When CA Technologies publishes a SYSMOD that resolves the hold, the resolving SYSMOD supersedes the hold error. This action lets you apply the original SYSMOD in conjunction with the fixing SYSMOD.

A special HOLDDATA class that is called ERREL exists. We have determined that the problem fixed by the SYSMOD is more important than the one that it causes. We recommend that you apply these SYSMODs.

The only manual task is running a REPORT ERRSYSMODS. This report identifies the following:

- Any held SYSMODs already applied to your system
- Any resolving SYSMODs that are in RECEIVE status

SMP/E identifies the SYSMOD to apply to correct the situation.

FIXCAT HOLDDATA

CA Technologies provides [FIXCAT HOLDDATA](#) to help identify maintenance that is required to support a particular hardware device, software, or function. Fix categories are supplied as SMP/E FIXCAT HOLDDATA statements. Each FIXCAT HOLDDATA statement associates an APAR and its related fixing PTF to one or more fix categories.

Chapter 5: Starting Your Product

This section contains the following topics:

[How to Prepare for Deployment](#) (see page 75)

[How to Complete Deployment With CA CSM](#) (see page 75)

[How to Deploy Without CA CSM](#) (see page 76)

[How to Complete Configuration With CA CSM](#) (see page 77)

[How to Configure Without CA CSM](#) (see page 78)

[Assemble and Link the Default SSID \(USRM0001\)](#) (see page 151)

[Prepare to Start Your Product](#) (see page 151)

[Start Your Product](#) (see page 154)

[Post-Installation Considerations](#) (see page 155)

How to Prepare for Deployment

This section contains topics that describe the manual tasks you need to perform before beginning the deployment process.

Apply IBM APARs

CA Support identifies any IBM APARs that impact the operation or performance of your product and makes them available in the UPGRADE solution record. We recommend that you review our current list of IBM APARs and apply only those that are appropriate to your environment.

Note: For a current list of IBM APARs, read the UPGRAD solution record for SYSVW.

Run Any Other Jobs

Before deployment and configuration, the following tasks must be performed.

How to Complete Deployment With CA CSM

The topics in this section describe the manual tasks you perform when deploying your product using CA CSM.

Startup JCL Procedures Customized by CA CSM

Use CA CSM to deploy a copy of all CA SYSVIEW SMP/E installed target libraries to any systems defined in the CA CSM system registry, including:

- Non-sysplex systems
- Sysplexes
- Shared DASD Clusters
- Staging systems

How to Deploy Without CA CSM

The topics in this section describe the manual tasks you perform if you are not deploying your product using CA CSM.

Note: We recommend that you do not use SMP/E target libraries for runtime.

See install job INST0005 in the topic [Output from INSTALL](#) (see page 93).

Deploy a runtime copy of the following CA SYSVIEW SMP/E-installed target libraries:

- CAI.SYSVIEW.CNM4BLOD
- CAI.SYSVIEW.CNM4BCAP
- CAI.SYSVIEW.CNM4BCLS
- CAI.SYSVIEW.CNM4BDAT
- CAI.SYSVIEW.CNM4BHLP
- CAI.SYSVIEW.CNM4BISP
- CAI.SYSVIEW.CNM4BMAP
- CAI.SYSVIEW.CNM4BMIB
- CAI.SYSVIEW.CNM4BPLT
- CAI.SYSVIEW.CNM4BPNL
- CAI.SYSVIEW.CNM4BPRF
- CAI.SYSVIEW.CNM4BPRM
- CAI.SYSVIEW.CNM4BREX
- CAI.SYSVIEW.CNM4BSAM
- CAI.SYSVIEW.CNM4BSEC
- CAI.SYSVIEW.CNM4BTMP

You can provide access to these libraries using one of the following methods:

- Allocate a single copy of these libraries on shared DASD that is accessible to all systems.
- Allocate a unique copy of these libraries on each system.

How to Complete Configuration With CA CSM

The topics in this section describe the manual tasks you perform when configuring your product using CA CSM.

The operational narratives in the CA CSM user interface guide you through the configuration.

How to Configure Without CA CSM

The topics in this section describe the manual tasks you perform if you are not configuring your product using CA CSM.

The SAMPJCL data set is required to complete the configuration steps. If you installed using the ESD method, the SAMPJCL data set has already been created. If you installed using CA CSM, the sample JCL to allocate the SAMPJCL data set is in the member MSMJCL of the CNM4BSAM SMP/E target library.

If you installed using the ESD method, continue with the section titled [Output from Install](#) (see page 93).

Sample JCL for Product Configuration

Complete the configuration steps using the following JCL.

```
//MSMINST JOB (0000)
//*
/*=====*
/*
/* Sample job to create the sysview.SAMPJCL data set.
/*
/* PREFIX = the dataset HLQ used for the SMP/E target
/*          zone when the MSM install was performed.
/* VOLUME = DASD volume
/*
/*=====*
/*
// SET PREFIX=sysview
// SET VOLUME=volume
/*
//COPY EXEC PGM=IEBCOPY
//SYSUT3 DD UNIT=SYSDA,SPACE=(CYL,(5,1))
//SYSUT4 DD UNIT=SYSDA,SPACE=(CYL,(5,1))
//SYSPRINT DD SYSOUT=*
/*
//IN DD DISP=SHR,DSN=&PREFIX..CNM4BSAM
/*
//SAMPJCL DD DSN=&PREFIX..SAMPJCL,
//          DISP=(NEW,CATLG,DELETE),
//          UNIT=SYSDA,
//          VOL=SER=&VOLUME,
//          DCB=(RECFM=FB,LRECL=80,BLKSIZE=6160),
//          SPACE=(CYL,(05,02,45))
/*
//SYSIN DD DISP=SHR,DSN=&PREFIX..CNM4BSAM(SAMPJCL)
/*
```

Note: For CA CSM information, see the CA Chorus Software Manager documentation bookshelf on the CA Chorus Software Manager product page.

Modify and Run the Job INSTALL

The job INSTALL in the installation library SAMPJCL generates the JCL stream necessary to install CA SYSVIEW.

This step contains instructions for modifying the job INSTALL to meet the needs of your site.

Before you begin this step, have the following information available:

- The high-level qualifier (HLQ), which must be 24 characters or fewer.

Follow these steps:

1. Modify the following JOB statement in INSTALL to the requirements of your site:

```
//INSTALL JOB (00000000), 'SYSVIEW', CLASS=A
```

2. Modify the following SYSLIB statement in INSTALL to replace the high-level qualifier of *sysview* with the qualifier you chose when you downloaded the installation library:

```
//SYSLIB DD DISP=SHR, DSN=sysview.SAMPJCL
```

3. Modify the GSVIINST macro parameters in INSTALL.

The INSTALL job stream contains the parameters for the macro GSVIINST. The values that are assigned to these parameters determine how CA SYSVIEW is installed. You can change these values in the generated job stream before the step where they are used.

4. Submit the job INSTALL.

The job is submitted to the internal reader, and the job stream is generated.

The job name that you specified on the JOBNAME parameter is the output from the assembly. If you did not specify a job name, the job output is INST0000.

Important! Your TSO enqueues on the *sysview.SAMPJCL* while members are edited. Therefore, end the edit session to release this data set so the job executes.

More information:

[GSVIINST Macro—Set INSTALL Parameters](#) (see page 81)

GSVIINST Macro—Set INSTALL Parameters

Set the parameters for the GSVIINST macro before you submit the job INSTALL. The following example shows the default parameter values that appear in the job INSTALL.

These parameters have the following syntax:

```
//INSTALL JOB (000000000),'SYSVIEW',CLASS=A
//*
//*-----*
//* CA SYSVIEW *
//* Installation generator *
//* *
//* This job will dynamically build the other jobs that are *
//* required to complete the installation. *
//* *
//* *-----* Important Notice *-----* *
//* *
//* CA Mainframe Software Manager *
//* *
//* If you have used CA Mainframe Software Manager *
//* to perform the installation of the product, *
//* this step is required. *
//* *
//* Step: Required *
//* *
//*-----*
//ASM EXEC PGM=ASMA90,REGION=1024K,PARM='NOTERM,LIST,DECK,NOBJECT'
//*
//SYSUT1 DD UNIT=SYSDA,SPACE=(1700,(600,100))
//SYSUT2 DD UNIT=SYSDA,SPACE=(1700,(600,100))
//SYSUT3 DD UNIT=SYSDA,SPACE=(1700,(600,100))
//SYSPUNCH DD SYSOUT=(*,INTRDR),DCB=(RECFM=FB,LRECL=80,BLKSIZE=2000)
//SYSPRINT DD SYSOUT=*
//*-----*
//* The data set defined to the DDNAME SYSLIB should also *
//* be coded as the data set name on the GSVIINST option *
//* INSTLIB=. *
//* *
//* The options that require modification or inspection *
//* for specific site installation needs are marked with *
//* a "<---". *
//*-----*
//*
//SYSLIB DD DISP=SHR,DSN=sysview.SAMPJCL <---INSTLIB
//*
//*
//* Note: When modifying the macro below, remember to include
//* the continuation character "X" in column 72 for all
//* lines except the last line containing the DUMMY=
```

```

/**          parameter.
/**
/**+. . . .1. . . .+. . . .2. . . .+. . . .3. . . .+. . . .4. . . .+. . . .5. . . .+. . . .6. . . .+. . . .7.X
//SYSIN    DD *
*
        PRINT NOGEN
        GSVIINST                                X
        , *-----* X
        , * Installation data set name           * X
        , * This is the data set name that you are * X
        , * editing now.                         * X
        , *-----* X
        INSTLIB=sysview.SAMPJCL,                 <--- X
        , *-----* X
        , * System parmlib data set             * X
        , *-----* X
        SYSPLIB=SYS1.PARMLIB,                   <--- X
        , *-----* X
        , * Source installation Media           * X
        , *   ESD - ESD file on DASD          * X
        , *-----* X
        SOURCE=ESD,      ESD|DVD                 <--- X
        , *-----* X
        , * High-level qualifier used when the ESD file * X
        , * was UNZIPPED.                       * X
        , *-----* X
        ESDHLQ=yourHLQ,      ESD HLQ            <--- X
        , *-----* X
        , * Data set allocation                 * X
        , *-----* X
        PREFIX=sysview,                         <--- X
        SITEDSN=YES,                             <--- X
        DELETE=YES,                              X
        DASDVOL=volume,                          <--- X
        SMS=NO,                                   X
        SMSVOL=,                                  X
        STORCLAS=,                               X
        DSKUNIT=SYSDA,                            X
        WRKUNIT=SYSDA,                            X
        PROFTYPE=PDS,                             X
        , *-----* X
        , * Data set blocksizes                 * X
        , *-----* X
        BLKSZU=6144,                              X
        BLKSZFB=3200,                              X
        BLKSZVB=25600,                             X
        , *-----* X
        , * z/FS data set allocation           * X
        , *-----* X

```

```

ZFSHLQ=OMVS.SYSVIEW,                                <--- X
PATHPREFIX=,                                         X
, *-----* X
, *   SMP/E                                           * X
, *-----* X
SMPEHLQ=,                                           X
SMPETZ=CAIT,                                         X
SMPEHLQ=,                                           X
SMPEDZ=CAID,                                         X
SMPEVOL=volume,                                     <--- X
DLIBVOL=volume,                                     <--- X
SMPEUNIT=SYSDA,                                     X
DLIBUNIT=SYSDA,                                     X
, *-----* X
, *   Data set and high level qualifiers               * X
, *-----* X
CEEHLQ=CEE,                                         <--- X
IMSHLQ=ims,                                         <--- X
MQSHLQ=mqseries,                                    <--- X
SYSTCPD=TCPIP.TCPIP.DATA,                           <--- X
TCPMBR=,                                             X
, *-----* X
, *   CA SYSVIEW Options                             * X
, *-----* X
OPTIONS=(,           Begin option list              X
NOCAPTURE,           ...option                       X
NOCICS,              ...option                       X
NODATACOM,          ...option                       X
NOIMS,              ...option                       X
NOMVS,              ...option                       X
NOMQSERIES,         ...option                       X
NOTCPIP,            ...option                       X
NOCEAPM,            ...option                       X
NOCHORUS,           ...option                       X
),                  End option list                  X
, *-----* X
, *   CA SYSVIEW Components                         * X
, *-----* X
COMPONENTS=(,       Begin component list             X
DB2,                ...component                    X
HCHECK,             ...component                    X
MIM,                ...component                    X
ROSCOE,             ...component                    X
IDMS,               ...component                    X
USS,                ...component                    X
XSYSTEM,            ...component                    X
),                  End component list               X
, *-----* X
, *   CA SYSVIEW GEN parameters                     * X

```

```
, *-----* X
SUBSYS=GSVX, X
, *-----* X
, * The CA customer siteid. * X
, * The siteid will be used to assist technical * X
, * support with diagnostics. This is used when * X
, * FTPing information to CA. (optional) * X
, *-----* X
SITEID=siteid, <--- X
, *-----* X
, * Jobcard/JCL creation * X
, *-----* X
JOBNAME=, X
NAME='PROGRAMMER NAME', <--- X
ACCT=(000000000), X
NOTIFY=NO, X
CLASS=A, X
MSGCLASS=A, X
MSGLEVEL=(1,1), X
ROUTE=NO, X
SYSAFF=NO, X
OUTC=*, X
, *-----* X
, * Assemble and Link edit * X
, *-----* X
ASMPGM=ASMA90, X
LINKPGM=IEWL, X
, *-----* X
, * End of Macro * X
, *-----* X
DUMMY=DUMMY

*
* Do not remove the following line.
*
END
/*
```

You can modify the following GSVIINST parameters:

INSTLIB

Names the current installation library data set. Ensure that you use the same high-level qualifier that you used in the SYSLIB statement in the step Modify and Run the Job INSTALL.

Default: *sysview.SAMPJCL*

SYSPLIB

Specifies the system parameter library that contains the system configuration options member.

Default: *SYS1.PARMLIB*

SOURCE=source

Specifies the source installation media type.

Valid Values:

- ESD—Specifies the electronic software delivery DASD file, use SOURCE=ESD if you installed using MSM.
- DVD—Contains a folder that includes the pax file for the product.

ESDHLQ=*yourHLQ*

This parameter is only used and required if SOURCE=ESD.

Specifies the high-level qualifier for unzipping the ESD files to z/OS data sets. UNZIPJCL performs this job.

Specifies the high-level qualifier for unzipping the ESD files to z/OS data sets. UNZIPJCL performs this job.

The UNZIPJCL job references the high-level qualifier as *yourHLQ*. Use this same value for the ESDHLQ= value.

PREFIX

Specifies the prefix that is used for allocating data sets.

Limit: The length of PREFIX and SUFFIX must not exceed 24 characters.

Default: *PREFIX=sysview*

SITEDSN

Specifies whether to use a set of site libraries for maintaining your customized library members.

The site data sets can be reused and carried forward when you migrate or update to a new release of CA SYSVIEW.

Valid Values:

YES

Generates the sample job INST0005. This job creates a set of site libraries and updates the sample GSVX* System configuration member accordingly.

NO

The sample job INST0005 is not generated.

<dsn_hlq>

Specify a data set HLQ for an existing set of SITE libraries.

The low-level qualifier of CNM4Bnnn will be appended to the <dsn_hlq> specified. The INST0005 job is not generated and the sample GSVX* System configuration member is updated using the existing site HLQ.

Default: SITEDSN=YES

DELETE

Specifies the parameter that is used to indicate whether to generate a DELETE request for each new library before allocation. Specify YES or NO. If you are reinstalling to an existing set of libraries, specify DELETE=NO.

Default: DELETE=YES

DASDVOL

Specifies the volume serial number (volser) of the volume on which to allocate data sets.

SMS

Specifies the parameter that is used to define whether SMS is used for the data set allocation. Specify YES or NO. If you specify YES, then specify an SMS storage class on the STORCLAS parameter.

Default: SMS=NO

SMSVOL

Specifies the volume serial number (volser) of the volume for allocating the SMS data sets.

Note: Some sites do not allow the volser to be specified for SMS.

STORCLAS

Specifies the SMS storage class that you use when you specify YES on the SMS parameter.

DSKUNIT

Specifies the disk unit type.

Default: DSKUNIT=SYSDA

WRKUNIT

Specifies the disk work unit type.

Default: WRKUNIT=SYSDA

PROFTYPE

Specifies the profile data set type that you want to allocate.

Valid Values:

PDS

Allocates the PDS profile data set. One PDS is shared across multiple sysplexes.

LIBRARY

Allocates a PDSE profile data set, which can only be shared within a single sysplex. If your configuration contains more than one sysplex, each sysplex requires a unique data set allocated.

Default: PDS

BLKSZU

Specifies the block size when allocating data sets with an undefined record length. Use this parameter for allocating the load library data sets.

Default: BLKSZU=6144

BLKSZFB

Specifies the block size when allocating fixed block data sets.

Default: BLKSZFB=3200

BLKSZVB

Specifies the block size when allocating variable block data sets.

Default: BLKSZVB=25600

ZFSLQ

Specifies the high-level qualifier for the z/FS data set created during the installation process:

- zfshlq.ZFS

fmid

Contains the CA SYSVIEW SMP/E fmid.

Default: ZFSLQ=OMVS.SYSVIEW

PATHPREFIX

Specifies the pathname prefix for the mount point of the z/FS data sets.

Default: PATHPREFIX=,

Example:

PATHPREFIX=/instpath

This prefix resolves to the following mount points:

instpath/usr/lpp/sysview
instpath/usr/lpp/sysview/fmid

fmid

Contains the CA SYSVIEW SMP/E fmid.

SMPEHLQ

Specifies the HLQ for the SMP/E libraries. Specifying a value for the SMP/E HLQ generates an extra sample job (INST0004). This job creates a set of run-time libraries using the HLQ specified with PREFIX.

SMPETZ

Specifies the SMP/E target zone.

Default: SMPETZ=CAIT

SMPEDZ

Specifies the SMP/E distribution zone.

Default: SMPEDZ=CAID

SMPEVOL

Specifies the volume where you allocated the internal SMP/E and target data sets.

DLIBVOL

Specifies the volume where you allocate the SMP/E distribution data sets.

SMPEUNIT

Specifies the unit type for the SMPEVOL specified volume.

DLIBUNIT

Specifies the unit type for the DLIBVOL specified volume.

CEEHLQ

Specifies your site C language environment high-level qualifier.

IMSHLQ

Specifies your site IMS high-level qualifier. If multiple releases of IMS are being used, specify the highest level. This high-level qualifier is used to generate the DD statements for the following data sets:

```
DD DSN=imshlq.SDFSRESL
```

MQSHLQ

Specifies your site WebSphere MQ high-level qualifier. If multiple releases of WebSphere MQ are being used, specify the highest level. This high-level qualifier is used to generate the DD statements for the following data sets:

```
DD DSN=mqshlq.SCSQAUTH
```

```
DD DSN=mqshlq.SCSQLOAD
```

```
DD DSN=mqshlq.SCSQANLE
```

SYSTCPD

Specifies the name of the system TCP/IP configuration file. You can also code this parameter as a Hierarchical File System (HFS) path.

Default: TCPIP.TCPIP.DATA

TCPMBR

Specifies the member name from the TCP/IP data set (if any).

Note: This parameter is required only if the data set specified on the SYSTCPD parameter is a PDS.

Default: None

OPTIONS

Enables those options that are licensed to the customer. The options include the base product. Specifying an option value lets you use the option commands. By default, you can access commands for the option from the CA SYSVIEW main menu.

Note: Specify at least one option.

Values for this parameter include:

- CAPTURE|NOCAPTURE—Event Capture Option
- CICS|NOCICS—CA SYSVIEW Option for CICS
- DATACOM|NODATACOM—CA SYSVIEW CA Datacom Option
- IMS|NOIMS—CA SYSVIEW Option for IMS
- MVS|NOMVS—CA SYSVIEW Option for z/OS
- MQSERIES|NOMQSERIES—CA SYSVIEW Option for WebSphere MQ
- TCPIP|NOTCPIP—CA SYSVIEW Option for TCP/IP
- CEAPM|NOCEAPM—CA SYSVIEW for CA APM
- CHORUS|NOCHORUS—CA Chorus

COMPONENTS

Specifies the CA SYSVIEW components that you want to enable. Specifying a component value lets you use the component commands. By default, you can access commands for the component from the CA SYSVIEW main menu.

Note: DB2 is a new component and requires a license, LMP key, for CA Insight for DB2.

This parameter includes the following values:

- DB2|NODB2—CA Insight for the DB2
- HCHECK|NOHCHECK—IBM Health Checker
- MIM|NOMIM—CA MIM Resource Sharing for the z/OS
- ROSCOE|NOROSCOE—CA Roscoe
- IDMS|NOIDMS
- USS|NOUSS—UNIX System Services
- XSYSTEM|NOXSYSTEM—The Cross-system component

Note: Perform extra installation or customization for some of these components and options after completing this installation of CA SYSVIEW.

SUBSYS

Specifies the suffix for the System Configuration Options member name in the system parameter library. Use GSVX if it is not already in use by another product. The same subsystem can share multiple releases of CA SYSVIEW.

Default: SUBSYS=GSVX

SITEID=*siteid*

Specifies the CA customer site ID for contacting technical support. Use this site ID to FTP information to CA.

JOBNAME

Specifies the job name that you use to create a JOB statement for installation jobs. If no parameter is specified, the name of the installation member is used.

NAME

Specifies the programmer name from the JOB statement.

ACCT

Specifies the account number when it is necessary to build a JOB statement.

Default: ACCT=(00000000)

NOTIFY

Specifies the user ID that is notified when the job completes. If NO is specified, this parameter is not generated on the JOB statement.

Default: NOTIFY=NO

CLASS

Specifies the job class that is used on the JOB statement.

Default: CLASS=A

MSGCLASS

Specifies the message class that is used on the JOB statement.

Default: MSGCLASS=A

MSGLEVEL

Specifies the message level that is used on the JOB statement.

Default: MSGLEVEL=(1,1)

ROUTE

Generates the following route statement:

```
/*ROUTE PRINT userid
```

If NO is specified, this statement is not generated.

Default: ROUTE=NO

SYSAFF

Generates the following system affinity statement: `/*JOBPARM SYSAFF=sysname`. If NO is specified, this statement is not generated.

Default: SYSAFF=NO

OUTC

Specifies the output class for use with SYSOUT.

Default: OUTC=*

ASMPGM

Specifies the name of the program that is used to assemble modules. Possible values are IEV90 and ASMA90.

Default: ASMPGM=ASMA90

LINKPGM

Specifies the name of the program that is used to link-edit modules.

Default: LINKPGM=IEWL

More information:

[Modify and Run the Job INSTALL](#) (see page 51)

Output from INSTALL

During the installation, the job INST0110 copies selected members from the INSTLIB to the `sysview.CNM4BSAM`. The copied members are shown with a member name in the SAMPLIB column.

The following table shows the members that are created during the installation.

Job/Procedure	SAMPLIB	Purpose
INST0004	None	Creates a set of run-time libraries when SMPEHLQ is coded.
INST0005	None	Creates the run-time site libraries.
INST0010	None	Specifies the system information utility, GSVUTIL.
INST0011	GSVXGSVX	Copies System Configuration Options member to the system PARMLIB.
INST0013	MVSMAPS	Assembles the MVS DSECT maps.
INST0020	ASMJES	Assembles and links the JES configuration module.
INST0021	JESMAPS	Assembles the JES DSECT maps.
INST0030	CAPINDEX	Initializes the Event Capture index data set.
INST0031	None	Defines the CA GSS IMOD library.
INST0032	None	Loads and compiles IMOD source modules into the CA GSS IMOD library.
INST0040	LOGRADTT	Allocates log stream Audit.
INST0041	LOGRPLOT	Allocates log stream Plot.
INST0042	LOGRXLOG	Allocates log stream Xlog.
INST0043	LOGRSMFD	Allocates log stream SMFD.
INST0044	LOGRCICS	Allocates log stream CICS.
INST0045	LOGRIMTR	Allocates log stream IMS.
INST0046	LOGRMQHR	Allocates log stream MQ.
INST0050	CNVTSECU	Converts the security data set.
INST0051	CNVTPROF	Converts the profile data set.
INST0060	CSDUTIL	Defines the CICS CSD objects.

Job/Procedure	SAMPLIB	Purpose
INST0061	None	Link edits CICS object members to create a load module to format the CICS internal trace table entries.
INST0110	None	Copies sample members to specific libraries for future use.
USRM0001	None	USERMOD to assemble and link the default substem ID (SSID).
IVPnnnnn	None	Verifies the installation. Note: This set of installation verification programs can be executed when the installation is complete and CA SYSVIEW is started.
ASMCMDX	ASMCMDX	Assembles the command exit.
ASMSDSFX	ASMSDSFX	Assembles the SDSF command exit.
CICSJCL	CICSJCL	Indicates sample CICS JCL statements.
CICSMAPS	CICSMAPS	Assembles the CICS DSECT maps.
EXPRPT	EXPRPT	Sample job for EXPLORE Report Writer.
FTPCA	FTPCA	Sample JCL to FTP data sets to CA support.
IMODLOAD	IMODLOAD	Utility job to copy and compile IMODS into the CA SYSVIEW IMOD library.
IMSMAPS	IMSMAPS	Assembles the IMS DSECT maps.
MIBCOMP	MIBCOMP	Indicates the MIB compiler.
SYSVIEW	SYSVIEW	Indicates the CA SYSVIEW main services startup procedure.
SYSVLCL	SYSVLCL	Indicates the CA SYSVIEW local 3270 interface startup procedure.
SYSVUSER	SYSVUSER	Indicates the CA SYSVIEW user address space startup procedure.
SYSVAUX	SYSVAUX	Indicates the CA SYSVIEW auxiliary services startup procedure.
EZREPORT	EZREPORT	Indicates the sample CA Easytrieve report JCL.
SMPPTF	None	Applies individual test APARs and published PTFs.
NM41HOLD	None	FTP download SMP/E ERROR HOLDDATA
NM47RECH	None	SMP/E Receive HOLDDATA
NM47RECP	None	SMP/E Receive SYSMODS
NM48APYP	None	SMP/E Apply PTFs
NM49ACCP	None	SMP/E Accept PTFs

Create Run-Time Libraries (INST0004)

This optional step creates a set of run-time libraries for your environment.

Follow these steps:

1. Code a value for SMP EHLQ and specify a different HLQ for the SMP/E libraries.

The sample JCL member INST0004 is generated to create a set of run-time libraries.

2. Copy the SMP/E target libraries that are coded in the System Configuration Options member.

The run-time libraries are created.

Note: INST0004 JCL is not generated when you eliminate the value for SMP EHLQ, or SMP EHLQ has the same value as PREFIX.

Create Run-Time SITE Libraries (INST0005)

This optional step creates a set of run-time SITE libraries for your environment using the same HLQ as the SYSTEM run-time libraries. The qualifier ".SITE" is appended before the low-level data set qualifier to differentiate the SITE libraries from the SYSTEM libraries.

Follow these steps:

1. Code a value for SMP EHLQ to specify a different HLQ for the SMP/E libraries. This step allows the coded value for PREFIX to be used as the HLQ for both the SYSTEM and SITE run-time libraries.

The sample JCL member INST0005 is generated to create a set of SITE run-time libraries.

2. Copy the members that were configured from the run-time libraries of your prior version of CA SYSVIEW into the SITE libraries.

The SITE run-time libraries are created.

Note: INST0005 JCL is not generated when you specify SITEDSN=NO, or you specify a high-level qualifier for SITEDSN to carry an existing set of SITE libraries forward from a prior release. If you specified SITEDSN=YES, then run INST0005 to allocate the libraries. If you do not run INST0005, then reset the "Dsn-Site" values in the sample System Configuration member back to NONE.

Run the System Information Utility GSVUTIL (INST0010)

The system information utility GSVUTIL provides you with a report showing your system during the installation. After you run this utility, use the information to verify your GSVINST parameter values.

Follow these steps:

1. Review the INST0010 member in the data set *sysview.SAMPJCL* and verify the files that are referenced in the job are correct.
2. Submit the member INST0010.

You receive a report with the following information when this job ends with a condition code of 0:

- z/OS system
 - Subsystem
 - Authorized Program Facility (APF) list
 - The SYSVIEW LMP keys
3. Verify parameter values.
 - a. Review the report information.
 - b. Compare the parameter values shown on the report with the values you entered to modify and run the INSTALL job.
 - c. Modify parameter values if the information is incorrect.

If the information is correct, the installation can continue.

Copy System Configuration Options to System PARMLIB (INST0011)

The System Configuration Options member is used to set configuration options during the initialization of CA SYSVIEW.

Follow these steps:

1. Review the INST0011 member in the *sysview.SAMPJCL* data set.

The SAMPJCL SMP/E target library contains the sample GSVXGSVX member.

2. Submit the member INST0011.

- INST0011 copies the System Configuration Options member to the System PARMLIB that was defined in the INSTALL job.
- The member name is based on the SUBSYS that was specified in INSTALL and has the following format:

GSVX<*subsys*>

subsys

The System Configuration Options member name. The default value for *subsys* is GSVX, so the default System Configuration Options member name is GSVXGSVX.

- The INSTALL job generates a System Configuration Options member in the SAMPJCL using the SUBSYS suffix from INSTALL. INST0011 copies this member into the System PARMLIB.

System Configuration Options

The system configuration options are set during the CA SYSVIEW initialization. They are not case-sensitive. Review the following options before running job INST0011.

Administrator-Userid

Define at least one administrator using this option. You can code this option multiple times to specify more administrators.

Note: You can also use the CA SYSVIEW SECURITY command to define more administrators.

Valid Values: Any valid user ID

Default: None

CA-Customer-SiteID

Specifies the CA customer site ID that you use to contact technical support. Use the site ID to FTP information to CA.

Valid Values: Seven-digit numeric value

Default: 0000000

Company-Name

Specifies a company name to be associated with this installation. The company name is included in Event Captures.

Valid Values: A string of 1 to 32 characters. If the name includes embedded blanks, enclose the name in single quotes.

Default: ''

Component-DB2

Specifies whether to activate the component CA SYSVIEW for CA Insight DPM for DB2. The DB2 component requires the product CA Insight DPM for DB2.

Valid Values: Yes, No

Default: No

Component-Health-Check

Specifies whether to activate the CA SYSVIEW Health Check. The Health Check component is included as a subcomponent of the option CA SYSVIEW for MVS.

Valid Values: Yes, No

Default: No

Component-MIM

Specifies whether to activate the component CA SYSVIEW for CA MIM Resource Sharing for z/OS. The CA MIM component is included as a subcomponent of the option CA SYSVIEW for MVS.

Valid Values: Yes, No

Default: No

Component-ROSCOE

Specifies whether to activate the component CA SYSVIEW for CA Roscoe. The CA Roscoe component is included as a subcomponent of the option CA SYSVIEW for MVS.

Valid Values: Yes, No

Default: No

Component-USS

Specifies whether to activate CA SYSVIEW for UNIX System Services (USS). The USS component is included as a subcomponent of the option CA SYSVIEW for MVS.

Valid Values: Yes, No

Default: No

Component-XSYSTEM

Specifies whether to activate the CA SYSVIEW Cross-System component. The cross system component is included as a subcomponent of the option CA SYSVIEW for MVS.

Valid Values: Yes, No

Default: No

Dsn-Site-CAPLIB

Specifies the data set name of the site Event Capture library. Members in the Event Capture library define a list of instructions to process when an Event Capture occurs.

Valid Values: Any valid data set name.

Default: NONE

Sharing: This data set can be shared with multiple instances of CA SYSVIEW and across systems.

Security: All users can have read access to the data set but not required. The user ID assigned to the SYSVIEW User Interfaces address space must have read access to the data set.

Dsn-Site-CLISTLIB

Specifies the data set name of the site command list library.

Valid Values: Any valid data set name.

Default: NONE

Sharing: This data set can be shared with multiple instances of CA SYSVIEW and across systems.

Security: All users must have read access to the data set.

Dsn-Site-HELPLIB

Specifies the data set name of the site online help library.

Valid Values: Any valid data set name.

Default: NONE

Sharing: This data set can be shared with multiple instances of CA SYSVIEW and across systems.

Security: All users must have read access to the data set.

Dsn-Site-MAPLIB

Specifies the data set name of the site MAP library.

Valid Values: Any valid data set name.

Default: NONE

Sharing: This data set can be shared with multiple instances of CA SYSVIEW and across systems.

Security: All users must have read access to the data set.

Dsn-Site-MIBLIB

Specifies the data set name of the site MIB library.

Valid Values: Any valid data set name.

Default: NONE

Sharing: This data set can be shared with multiple instances of CA SYSVIEW and across systems.

Security: All users must have read access to the data set.

Dsn-Site-PANELLIB

Specifies the data set name of the site panel library. The panel library contains MENU definitions for online CA SYSVIEW displays.

Valid Values: Any valid data set name.

Default: NONE

Sharing: This data set can be shared with multiple instances of CA SYSVIEW and across systems.

Security: All users must have read access to the data set.

Dsn-Site-PARMLIB

Specifies the data set name of the site parameter library.

Valid Values: Any valid data set name.

Default: NONE

Sharing: This data set can be shared with multiple instances of CA SYSVIEW and across systems.

Security: All users must have read access to the data set.

Dsn-Site-PLOTLIB

Specifies the data set name of the site plot definition library.

Valid Values: Any valid data set name.

Default: NONE

Sharing: This data set can be shared with multiple instances of CA SYSVIEW and across systems.

Security: All users must have read access to the data set.

Dsn-Site-REXXLIB

Specifies the data set name of the site REXX exec library. This data set contains text and compiled REXX execs that CA SYSVIEW uses.

This library is dynamically concatenated to the SYSEXEC DD when you log in to the TSO/ISPF interface.

Valid Values: Any valid data set name.

Default: NONE

Sharing: This data set can be shared with multiple instances of CA SYSVIEW and across systems.

Security: All users must have read access to the data set.

Dsn-Site-TEMPLATE

Specifies the data set name of the site template library.

Valid Values: Any valid data set name.

Default: NONE

Sharing: This data set can be shared with multiple instances of SYSVIEW and across systems.

Security: All users must have read access to the data set.

Dsn-System-CAPDATA-HLQ

Specifies the high-level qualifier (HLQ) for the Event Capture library data sets. When a capture is taken, CA SYSVIEW uses the HLQ to allocate a new data set. A time and date suffix are added to the HLQ to create the full data set name.

Time and date suffix = Thhmmss.Dyymmdd

Valid Values: Any valid data set name. Limit the HLQ to 28 characters so that the time and date can be added as a suffix.

Example: SYSVIEW.CAPDATA

Default: NOT.DEFINED.SYSVIEW.CAPDATA

Dsn-System-CAPINDEX

Specifies the name of the Event Capture index data set. A unique data set can be created for each system, or the index can be shared across systems.

Symbolic substitution variables can be used to make definitions easier.

Valid Values: Any valid data set name.

Examples:

SYSVIEW.CAPINDEX.PROD

SYSVIEW.CAPINDEX.TEST

SYSVIEW.CAPINDEX.&SYSNAME

Default: NOT.DEFINED.SYSVIEW.CAPINDEX.SYSNAME

Sharing: This data set can be shared with multiple instances of CA SYSVIEW and across systems.

Dsn-System-CAPINDEX-HLQ

Specifies the high-level qualifier (HLQ) for the Event Capture index data sets. The CA SYSVIEW online commands use the HLQ to reference multiple Event Capture index data sets.

Valid Values: Any valid data set name.

Example: SYSVIEW.CAPINDEX

Default: NOT.DEFINED.SYSVIEW.CAPINDEX

Dsn-System-CAPLIB

Specifies the data set name of the system Event Capture library. Members in the Event Capture library define a list of instructions to process when an Event Capture occurs.

Valid Values: Any valid data set name.

Default: NOT.DEFINED.SYSVIEW.CNM4BCAP

Sharing: This data set can be shared with multiple instances of CA SYSVIEW and across systems.

Security: All users can have read access to the data set but not required. The user ID assigned to the SYSVIEW User Interfaces address space must have read access to the data set.

Dsn-System-CLISTLIB

Specifies the data set name of the command list library.

Valid Values: Any valid data set name.

Default: NOT.DEFINED.SYSVIEW.CNM4BCLS

Sharing: This data set can be shared with multiple instances of CA SYSVIEW and across systems.

Security: All users must have read access to the data set.

Dsn-System-DATALIB

Specifies the data set name of the persistent data store or data library. This data set can be reused when migrating or updating CA SYSVIEW releases.

Valid Values: Any valid data set name.

Default: NOT.DEFINED.SYSVIEW.CNM4BDAT

Sharing: This data set can be shared with multiple instances of CA SYSVIEW and across systems. The data set is allocated as a PDSE and therefore can only be shared within a single sysplex.

Security: All users must have read access to the data set. The user ID assigned to the SYSVIEW Main Services address space must have Update access to the data set.

Dsn-System-HELPLIB

Specifies the data set name of the online help library.

Valid Values: Any valid data set name.

Default: NOT.DEFINED.SYSVIEW.CNM4BHLP

Sharing: This data set can be shared with multiple instances of CA SYSVIEW and across systems.

Security: All users must have read access to the data set.

Dsn-System-MAPLIB

Specifies the data set name of the system MAP library.

Valid Values: Any valid data set name.

Default: NOT.DEFINED.SYSVIEW.CNM4BMAP

Sharing: This data set can be shared with multiple instances of CA SYSVIEW and across systems.

Security: All users must have read access to the data set.

Dsn-System-MIBLIB

Specifies the data set name of the system MIB library.

Valid Values: Any valid data set name.

Default: NOT.DEFINED.SYSVIEW.CNM4BMIB

Sharing: This data set can be shared with multiple instances of CA SYSVIEW and across systems.

Security: All users must have read access to the data set.

Dsn-System-PANELLIB

Specifies the data set name of the panel library. The panel library contains MENU definitions for online CA SYSVIEW displays.

Valid Values: Any valid data set name.

Default: NOT.DEFINED.SYSVIEW.CNM4BPNL

Sharing: This data set can be shared with multiple instances of CA SYSVIEW and across systems.

Security: All users must have read access to the data set.

Dsn-System-PARMLIB

Specifies the data set name of the parameter library.

Valid Values: Any valid data set name.

Default: NOT.DEFINED.SYSVIEW.CNM4BPRM

Sharing: This data set can be shared with multiple instances of CA SYSVIEW and across systems.

Security: All users must have read access to the data set.

Dsn-System-PLOTLIB

Specifies the data set name of the plot definition library.

Valid Values: Any valid data set name.

Default: NOT.DEFINED.SYSVIEW.CNM4BPLT

Sharing: This data set can be shared with multiple instances of CA SYSVIEW and across systems.

Security: All users must have read access to the data set.

Dsn-System-PROFILE

Specifies the data set name of the profile library.

Valid Values: Any valid data set name.

Default: NOT.DEFINED.SYSVIEW.CNM4BPRF

Sharing: This data set can be shared with multiple instances of CA SYSVIEW and across systems. If profile data set is allocated as a PDS, it can be shared across multiple sysplexes. If profile data set is allocated as a PDSE, it can only be shared within a single sysplex.

Security: All users must have read access to the data set. Users can change profile settings while in an online session. Users must have Update access to the data set to harden the user settings.

Dsn-System-REXXLIB

Specifies the data set name of the REXX exec library. This data set contains text and compiled REXX execs that CA SYSVIEW uses.

This library is dynamically concatenated to the SYSEXEC DD when you log in to the TSO/ISPF interface.

The library is installed as a RECFM=F data set. If your installation uses a RECFM=V for the SYSEXEC DD, then copy and convert the SYSVIEW REXX library to a RECFM=V data set.

The compiled REXX execs cannot simply be copied from a RECFM=F to a RECFM=V data set. They also need converted.

CA SYSVIEW supplies GSVUCFV1 and GSVUCFV2 REXX utility execs to copy and convert SYSVIEW REXX execs:

- GSVUCFV1 uses the ISPF library management services to copy one or more REXX execs from a RECFM=F to a RECFM=V data set. This exec can also call the GSVUCFV2 exec to convert any copied compiled REXX execs.
- GSVUCFV2 uses the ISPF library management services to convert a single compiled REXX exec from a RECFM=F to RECFM=V data set.

CA SYSVIEW supplies to the REXXFTOV job in the SAMPLIB data set to copy and convert the REXX execs.

The REXXFTOV SAMPLIB JCL member invokes:

1. GSVUCFV1 to copy all REXX execs from a RECFM=F to a RECFM=V data set.
2. GSVUCFV2 to convert any compiled REXX execs that were copied.

The Dsn-System-REXXLIB option must specify the data set name of the converted RECFM=V data set.

Valid Values: Any valid data set name.

Default: NOT.DEFINED.SYSVIEW.CNM4BREX

Sharing: This data set can be shared with multiple instances of CA SYSVIEW and across systems.

Security: All users must have read access to the data set.

Dsn-System-SAMPLIB

Specifies the data set name of the sample library.

Valid Values: Any valid data set name.

Default: NOT.DEFINED.SYSVIEW.CNM4BSAM

Sharing: This data set can be shared with multiple instances of CA SYSVIEW and across systems.

Security: All users can have read access to the data set but not required.

Dsn-System-SECURITY

Specifies the data set name of the security library.

Valid Values: Any valid data set name.

Default: NOT.DEFINED.SYSVIEW.CNM4BSEC

Sharing: This data set can be shared with multiple instances of CA SYSVIEW and across systems.

Security: All users must have read access to the data set. Administrators need update access.

Dsn-System-TEMPLATE

Specifies the data set name of the template library.

Valid Values: Any valid data set name.

Default: NOT.DEFINED.SYSVIEW.CNM4BTMP

Sharing: This data set can be shared with multiple instances of SYSVIEW and across systems.

Security: All users must have read access to the data set.

Dump-Destination

Specifies the output destination that is used when CA SYSVIEW allocates a dump data set. Specify a value when allocating a dump data set or no destination is used. Use this parameter option with the parameter Dump-Remote-Userid for routing a dump to a specific user.

Valid Values: Any valid destination.

Default: None

Dump-Remote-Userid

Specifies the remote user ID that is used when CA SYSVIEW allocates a dump data set. Supply a value when allocating a dump data set or no remote user ID is used. Any value that is specified for this parameter is ignored if a value was not also specified for the parameter Dump-Destination.

Valid Values: Any valid user ID.

Default: None

Dump-SYSOUT-Class

Specifies the SYSOUT class that is used when CA SYSVIEW allocates a dump data set. User ID is used when allocating a dump data set.

Valid Values: Any valid class.

Default: A

Exit-Module-Command

Specifies the command exit module name.

Valid Values: Any valid member name.

Default: GSVXCMDX

Exit-Module-SDSF

Specifies the SDSF command exit module name.

Valid Values: Any valid member name.

Default: GSVXSDSX

JES-Name

(Optional) Specifies the default JES subsystem name. If this optional parameter is not specified, the primary JES subsystem is used. Using CA SYSVIEW with a secondary JES2 subsystem requires that you code the subsystem name of the secondary JES2 subsystem for this parameter.

Valid Values: Any valid JES subsystem name.

Default: None

Map-Member-System

Defines the name of the assembled z/OS control block maps member.

Valid Values: Any valid member name that is located in the maps library.

Default: GSVXMAPS

Option-CICS

Specifies whether to activate CA SYSVIEW for CICS.

Valid Values: Yes, No

Default: No

Option-DATACOM

Specifies whether to activate CA SYSVIEW for DATACOM.

Valid Values: Yes, No

Default: No

Option-Event-Capture

Specifies whether to activate CA SYSVIEW Event Capture.

Valid Values: Yes, No

Default: No

Option-MVS

Specifies whether to activate CA SYSVIEW for MVS.

Valid Values: Yes, No

Default: No

Option-IMS

Specifies whether to activate CA SYSVIEW for IMS.

Valid Values: Yes, No

Default: No

Option-TCPIP

Specifies whether to activate CA SYSVIEW for TCP/IP.

Valid Values: Yes, No

Default: No

Option-WebSphereMQ

Specifies whether to activate CA SYSVIEW for WebSphere MQ.

Valid Values: Yes, No

Default: No

Option-CEAPM

Specifies whether to activate CA Cross Enterprise APM.

Valid Values: Yes, No

Default: No

Route-Code

Specifies the console route codes that you use for all WTO and WTOR macros that CA SYSVIEW issues. The route codes are specified as decimal numbers. The parameter Route-Code can be specified multiple times when more than one route code is desired. Each specification contains one route code.

Examples:

Route-Code 2

Route-Code 11

Valid Values: 1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16

Default: 2, 11

Security-Validation

Specifies how to perform the security verification and validation.

Valid Values:

- USER specifies the System Authorization Facility (SAF) to use to validate user IDs and passwords at session logon to the following interfaces: CICS, VTAM, and local 3270. For other interfaces such as TSO, ISPF, and CA Roscoe, only the user ID is validated.
- GROUP specifies the assigned group name to the user ID from the external security product. This group name is used to determine which internal CA SYSVIEW security group to use. If the user ID belongs to multiple groups, the default group (DFLTGRP) is used. The GROUP option includes all USER option functionality.
- USERDEF specifies that a user-defined field in the external security product is used to set the internal CA SYSVIEW security group. For more details, see the following members in the CNM4BSAM target library:
 - GSVUDEFA – for CA ACF2
 - GSVUDEFR – for RACF
 - GSVUDEFT – for CA TopSecret

The USERDEF option includes all USER option functionality.

- NO specifies that user ID validation is not performed when logging on to the CICS, VTAM, or Local 3270 interface.

Default: USER

SYSOUT-Class

Specifies the default SYSOUT class for dynamically allocated files.

Valid Values: Any valid class

Default: '*'

TCP-SYSTCPD-Dsn

Specifies the name of the system TCP/IP configuration file. This name can be specified as a Hierarchical File System (HFS) path.

Valid Values: Any valid data set or path name

Default: VTAM.TCPIP.TCPIP.DATA

TCP-SYSTCPD-Member

Specifies the member name that you use (if any) for the TCP/IP data set. This parameter is required only if the data set specified in the TCP-SYSTCPD-Dsn parameter is a PDS.

The member parameter supports the use of system symbols. The supplied string for the TCP-SYSTCPD-Member parameter can be up to 24 bytes long. Anything longer than 24 bytes is truncated. When the symbols in the string are resolved, the final member name consists of the first 8 bytes of the TCP-SYSTCPD-Member value. Anything longer than 8 bytes is truncated and ignored.

Valid Values: Any valid member name.

Default: None

User-Abend-Code

Specifies the ABEND code that you use for all user abends issued. Unique reason codes are used to identify the reason for the ABEND.

Valid Values: A number from 0 to 4095

Default: 2999

VTAM-Appid

Specifies the VTAM APPL name that the CA SYSVIEW VTAM interface uses.

Override this parameter with the APPLID parameter of the START command that starts the CA SYSVIEW VTAM interface.

Valid Values: Any valid application ID name.

Default: None

VTAM-SPO-Appid

Specifies a value that overrides the default VTAM APPL name that the CA SYSVIEW VTAM command uses. The specified value must be from three to eight characters long and end with two numeric digits.

If you specify a value for this parameter, change the corresponding APPL names in the SYSVAPPL member in the *sysview.CNM4BSAM* data set.

The first name that is coded in the SYSVAPPL member matches the VTAM-SPO-Appid parameter value. You can specify more APPL names by incrementing the numeric suffix by one. The numeric suffix does not need to start at 00, but only numbers that are consecutive with the initial value are used.

Valid Values: Three to eight characters, ending with two numeric digits.

Default: None

Assemble the MVS Control Block Maps (INST0013)

The MAP command of CA SYSVIEW provides a facility to display any system or user-defined control block in virtual storage. Assemble the control block maps so that DSECTs or control block structures are created with the software releases you are using.

Follow these steps:

1. Review the INST0013 member in the *sysview.SAMPJCL* data set to ensure all of the files that the job references are correct.
2. Submit the member INST0013.

When the job ends with a condition code of 0, the control block maps are assembled successfully.

Maintenance Considerations When Assembling the Control Block Maps

Consider the following points when you apply the maintenance to your system:

- Reassemble the GSVXMAPS object after applying maintenance to z/OS.
- Include the SYS1.SMPMTS data set in the SYSLIB concatenation when:
 - You have applied maintenance to the system that is not accepted.
 - The current system is running with the maintenance.

Update the JES Configuration Names Table

The JES parmlib member is used to specify the JES subsystems and the associated JES configuration modules and map module names that CA SYSVIEW uses.

Create a JES configuration module for each system where CA SYSVIEW is used.

To Update the JES Configuration Name Table

1. Access the JES parmlib member in the sysview.CNM4BPRM data set.

The JES parmlib member contains the JES configuration names table.

2. Modify the JES configuration names table in the JES parmlib member by entering the appropriate information in the supplied table.

The table entries are coded in columns in the following table:

Keyword	Column	Description
SysName	01-08	Defines the z/OS system name. Specify the keyword ANY to match any system name.
JES	10-17	Defines the JES subsystem ID.
Module	19-26	Defines the JES configuration module name for the subsystem.
Maps	28-35	Defines the JES control block maps member.

How the JES Configuration Names Table Works

When a CA SYSVIEW session initializes, it searches the JES parmlib member to find a matching OS system name in the SysName column. This match to the JES subsystem provides access to JES-related commands.

Matches are made as follows:

- The value for the JES-name parameter that you specified in the System Configuration Option member is compared with the JES subsystem ID specified in the JES column.

If it matches, the following actions occur:

1. The JES configuration module is loaded. The module is specified in the Module column.
2. The JES product level and service level are compared with the product and service level of the JES subsystem.
 - If they match, the search is complete.
 - If they do not match, the search continues for another matching system name in the SysNames column.

Note: The product and service level are assembled into the JES configuration module.

- A search of the entire JES parmlib member finds a match on the JES product level but the service levels do not match:
 - The matching JES configuration module is used and a warning message is displayed saying the service levels do not match.
 - The maintenance has been applied.
 - The JES configuration module *must* be reassembled.
- A match cannot be found for a JES configuration module:
 - The JES services initialization terminates.
 - The JES-related commands cannot be used.
- You can use the ANY system name to match any system name. However, the JES configuration module product and service levels *must* match the running JES subsystem.
- The generic wildcard matching is not performed on any column in the JES parmlib member.

Naming Conventions for JES Configuration Modules

The following recommended naming conventions are based on either the JES version or the z/OS SMF ID:

- **Base the names of the modules and maps on the JES version**

Module Name: JES*n*vr*r*q

Maps: MAP*n*vr*r*q

n

Specifies the JES system. Possible values are:

- 2 if JES2
- 3 if JES3

v

Specifies the JES version.

rr

Specifies the JES release.

q

Specifies the qualifier. That is, if a qualifier is needed.

- **Base the names of the modules and maps on the z/OS SMF ID**

Module: JES*n*smf

Maps: MAP*n*smf

n

Specifies the JES system. Possible values are:

- 2 if JES2
- 3 if JES3

smf

Specifies the z/OS SMF ID (up to four characters).

Example: Add Entries to the JES Configuration Names Table.

The following examples use the JES version naming convention.

```
*...+...1...+...2...+...3...+...4...+...5...+...6...+...7
*=====*
```

```
* System name SY01 is running JES2.                               *
* The associated JES Configuration module is JES2111.             *
* The DSECT maps for JES2 have been assembled into member MAP2111. *
*=====*
```

```
*SysName JES      Module  Maps
*-----*
SY01    JES2      JES2111  MAP2111

*=====*
```

```
* System name SY02 is running JES3.                               *
* The associated JES Configuration module is JES3111.             *
* The DSECT maps for JES3 have been assembled into member MAP3111. *
*=====*
```

```
*SysName JES      Module  Maps
*-----*
SY02    JES3      JES3111  MAP3111

*=====*
```

```
* This is a "Catch-All" entry that will match all system names   *
* running JES2.                                                    *
* The associated JES Configuration module is JES2109.             *
* The DSECT maps for JES2 have been assembled into member MAP2109. *
*=====*
```

```
*SysName JES      Module  Maps
*-----*
ANY     JES2      JES2109  MAP2109

*=====*
```

```
* This is a "Catch-All" entry that will match all system names   *
* running JES3.                                                    *
* The associated JES Configuration module is JES3110.             *
* The DSECT maps for JES3 have been assembled into member MAP3110. *
*=====*
```

```
*SysName JES      Module  Maps
*-----*
ANY     JES3      JES3110  MAP3110
```

Assemble and Link the JES Configuration Modules (INST0020)

The JES Configuration module contains release specific information about both JES2 and JES3. This information is used to obtain JES data.

Assemble and link a JES Configuration module for *each* system where CA SYSVIEW is used.

The need to run this job multiple times depends on the combination of systems, and versions of JES2 and JES3. A system with different maintenance levels is considered a unique or different version.

Follow these steps:

1. Review the INST0020 member in the *sysview.SAMPJCL* data set to ensure all of the files that the job references are correct.
2. Create JES2 and JES3 configuration modules by changing the SET statements.
 - To create the JES2 Configuration module, change the following SET statements:

```
SET JES=JES2
SET MODULE=JES2vrrq
```
 - To create the JES3 Configuration module, change the following SET statements:

```
SET JES=JES3
SET MODULE=JES3vrrq
```

The name that you specified on the SET MODULE= statement must match the name in the PARMLIB member JES (JES Configuration Names Table).

3. Submit the INST0020 job.

When all steps in the INST0020 job complete with a condition code of 0, the system has successfully assembled and linked the JES Configuration module.

Note: If any assembly errors occur, contact Technical Support at <http://ca.com/support>. To see the lines in error, try specifying LIST=YES on the JOFFT macro in the source member.

Important! When running this job at a different operating system level than the target system, modify the SYSLIB concatenation to add volume references to the target SYSRES.

Maintenance Considerations When Assembling and Linking the JES Configuration Modules

Consider the following steps when applying the maintenance to your system or to the CA SYSVIEW product.

- Reassemble the JES Configuration module after applying maintenance to JES (JES2 or JES3) and when there is a new release of CA SYSVIEW.
- Include the SYS1.SMPMTS data set in the SYSLIB concatenation when the following conditions are true:
 - Maintenance is applied to the system that is not accepted.
 - The current system is running with the maintenance.

Assemble the JES Control Block Maps (INST0021)

The MAP command of CA SYSVIEW provides a facility to display any system or user-defined control block in virtual storage. Assemble the control block maps so that DSECTs or control block structures are created with the software releases you are using.

Follow these steps:

1. Review the INST0021 member in the *sysview.SAMPJCL* data set to ensure all of the files that the job references are correct.
2. Set the MAPIN and MAPOUT values.
 - To create the JES2 map module, change the following SET statements:

```
SET MAPIN=JES2MAPS
SET MAPOUT=MAP2vrrq
```
 - To create the JES3 map module, change the following SET statements:

```
SET MAPIN=JES3MAPS
SET MAPOUT=MAP3vrrq
```
3. Submit the member INST0021.

When the job ends with a condition code of 0, the control block maps are assembled successfully.

Maintenance Considerations When Assembling the Control Block Maps

Consider the following steps when applying the maintenance to your system:

- Reassemble the JES map object after applying maintenance to JES (JES2 or JES3).
- Include the SYS1.SMPMTS data set in the SYSLIB concatenation when the following conditions are true:
 - Maintenance is applied to the system that is not accepted.
 - The current system is running with the maintenance.

Initialize the Event Capture Index Data Set (INST0030)

You initialize the Event Capture index data sets to catalog a list of captured events. The Event Capture index is used even if the Event Capture option is not available. You can take and send event captures to CA for diagnostic purposes.

Note: If you are upgrading and reusing the index data set from the prior release, you can skip this step.

A common or shared index data set can be used for all systems when the data set is allocated on shared DASD. A separate index data set can also be used for each system. This index file is defined as a VSAM KSDS (key-sequenced data set). If separate index data sets are used, the high-level qualifier you specified for the index data sets must contain the system name. Specify the system name using the &SYSNAME symbolic parameter.

Follow these steps:

1. Review the INST0030 member in the *sysview.SAMPJCL* data set to ensure all of the files that the job references are correct.
2. Submit the member INST0030.

When the job ends with a condition code of 0, the Event Capture index data sets are successfully initialized.

Define and Load the IMOD Data Set (INST0031 - INST0032)

The source members that are used for the information modules (IMODs) are distributed in the PDS data set *sysview.CNM4BISR*. The IMOD source members are loaded and compiled into a CA GSS IMODLIB VSAM data set.

Follow these steps:

1. Modify the JCL in the INST0031 and INST0032 members of the *sysview.SAMPJCL* data set.
2. Submit the INST0031 job.
This job defines the IMOD VSAM data set.
3. Submit the INST0032 job.
This job performs the following functions:
 - a. Loads the source IMOD REXX EXECs from the source IMOD PDS into the VSAM IMOD data set.
 - b. Compiles the IMODs in the VSAM data set.

Define Log Streams (INST0040 - INST0046)

Note: If you are upgrading and already have the log streams defined, you can reuse those log streams.

Note: For information about log stream size, see the *Administration Guide*.

Log streams must be defined before you can view the following types of collected data online:

- Historical Audit Event data records
- Historical Plot data records
- Monitored data records
- Exception Records

Note: Before you run INST0040 through INST0046, activate the z/OS system logger services and define a LOGR policy on the system.

Follow these steps:

1. Review the INST0040 through INST0046 members in the *sysview.SAMPJCL* data set to ensure all of the files that the jobs are referencing are correct.
2. Define the log stream as shown in the following sample definition. The JCL defines a DASD-only log stream and lists the characteristics of the log stream:

```
//INST004* JOB (09900000) , 'PROGRAMMER NAME' ,
        REGION=0M,
        MSGCLASS=A,
        CLASS=A,
        MSGLEVEL=(1,1)

//DEFINE EXEC PGM=IXCMIAPU,REGION=0M
//SYSPRINT DD SYSOUT=*
//SYSIN DD *

DATA TYPE(LOGR) REPORT(NO)

DEFINE LOGSTREAM
        NAME(ssidrrm.taskname.type.smfi)
        AUTODELETE(YES)
        DASDONLY(YES)
        DESCRIPTION(....16chars.....)
        DIAG(NO)
        EHLQ(LOGGER)
        HIGHOFFLOAD(70)
        LOWOFFLOAD(0)
        LS_SIZE(1000)
        MAXBUFSIZE(32767)
        MODEL(NO)
        OFFLOADRECALL(YES)
        RETPD(7)
        STG_SIZE(750)

LIST LOGSTREAM
        NAME(ssidrrm.taskname.type.smfi)
        DETAIL(YES)
```

3. Submit the appropriate jobs that define the z/OS log streams needed on each system.

After the job ends with a condition code of 0, you can view the log streams online. The records that are written to these log streams are in SMF format.

Log Stream Guidelines

Defining log streams requires that you follow these guidelines:

- SMS must manage your log stream data sets.
- The SMS data class must support data compression.
- Observe the log stream naming conventions.

Note: If you are upgrading and already have log streams defined, you can reuse those log streams.

- Use the available log data types.

The available log data types are as follows:

ADTT

Indicates Audit Event records

IMRS

Indicates IMS region summary records

IMTR

Indicates IMS transaction records

MQHR

Indicates MQ historic requests

PLOT

Indicates historical plot records

SMFD

Indicates SMF data records

TRAN

Indicates CICS detailed transaction records

TSUM

Indicates CICS transaction summary records

SYSD

Indicates CICS system interval data records

XLOG

Indicates exception records for all components

Note: Although multiple log data types can share a log stream, we do not recommend sharing log streams that contain the SMFD and TRAN data types. The volume of data records being written to these logs is much greater than the volume being written to the other types.

- Observe the LOGSTREAM description.

The LOGSTREAM description is 16 characters and cannot contain blanks.

Log Stream Naming Conventions

Log stream naming conventions let you define log streams for online viewing.

Note: The parmlib members for specifying log stream names are located in the `sysview.CNM4BPRM` data set.

We suggest the following naming convention, which adheres to the 26-character restriction:

ssidrm.taskname.type.smfi

ssid

Specifies the SYSVIEW subsystem ID

rrm.

Specifies the release number plus separator character

taskname.

Specifies the owning SYSVIEW task plus separator character

type.

Specifies the log data type qualifier plus separator character

smfi

Specifies the SMF ID

Limits: 26 characters for the log stream name; the name must be unique across a SYSPLEX. (Any naming convention that provides a unique log stream name across the SYSPLEX is acceptable.)

Example: Log Stream Naming Convention

The following table shows examples of the suggested naming convention for the log stream name:

Taskname.Type	Log Stream Name
AUDIT.ADTT	GSVX130.AUDIT.ADTT.smfid
IMSLOGR.IMRS	GSVX130.IMSLOGR.IMRS.smfid
IMSLOGR.IMTR	GSVX130.IMSLOGR.IMTR.smfid
MQSDATA.MQHR	GSVX130.MQSDATA.MQHR.smfid

Taskname.Type	Log Stream Name
SMFDATA.PLOT	GSVX130.SYSDATA.PLOT.smfid
SYSDATA.SMFD	GSVX130.SMFDATA.SMFD.smfid
SYSDATA.XLOG	GSVX130.SMFDATA.XLOG.smfid
CICSLOGR.TRAN	GSVX130.CICSLOGR.TRAN.smfid
CICSLOGR.TSUM	GSVX130.CICSLOGR.TSUM.smfid
CICSLOGR.SYSD	GSVX130.CICSLOGR.SYSD.smfid
CICSLOGR.XLOG	GSVX130.CICSLOGR.XLOG.smfid

Step 1: Define a Log Stream for Audit Events (INST0040)

This step defines a set of log streams to contain historical audit event data records.

A unique log stream must be created for each audit event data record that has been defined on each system.

Note: The parmlib members for specifying log stream names are located in the *sysview.CNM4BPRM* data set.

Follow these steps:

1. Specify the log stream as shown in the example that follows this procedure.
2. Specify the name of the defined log stream in the following parmlib members:

AUDIT

```
LOGSTREAM-AUDIT-NAME  logstream.name
```

If the audit logging function is not going to be used or the log stream has not been defined, set the following options:

```
LOGSTREAM-AUDIT-NAME  NONE
```

LGLOOKUP

```
Sysname  Logname.....LogStream-Name  
sysname  AUDIT          logstream.name
```

3. Submit the INST0040 job.

The log stream for the historical audit event data records is defined, and the contents of the log stream can be viewed online.

Example: Define a DASD-Only Audit Log Stream.

This example defines a DASD-only audit log stream for collecting historical audit event data records:

```
DATA TYPE(LOGR) REPORT(NO)
DEFINE LOGSTREAM
    NAME(GSVX130.AUDIT.ADTT.smfi)
    AUTODELETE(YES)
    DASDONLY(YES)
    DESCRIPTION(AUDIT_LOG)
    DIAG(NO)
    EHLQ(LOGGER)
    HIGHOFFLOAD(70)
    LOWOFFLOAD(0)
    LS_SIZE(5000)
    MAXBUFSIZE(32767)
    MODEL(NO)
    OFFLOADRECALL(YES)
    RETPD(7)
    STG_SIZE(3500)
```

View Log Stream Online for Audit Events

After you have defined the log stream containing records created by the audit events data loggers, you can view the log stream online.

Use the following command to view the log stream:

AUDITLOG

Displays the audit event data collection logs.

The log stream is displayed for viewing.

Step 2: Define a Log Stream for Historical Plot Data Records (INST0041)

To view online historical plot data records created by the data collectors, define a log stream that contains those records.

Create a unique log stream on each system.

Note: The parmlib members for specifying log stream names are located in the *sysview.CNM4BPRM* data set.

Follow these steps:

1. Specify the log stream as shown in the example that follows this procedure.
2. Specify the name of the defined log stream in the following parmlib members:

SYSDATA

```
LOGSTREAM-PLOTLOG-NAME  logstream.name
```

If the plot logging function is not going to be used or the log stream has not been defined, set the following options:

```
LOG-PLOT-RECORDS      NO
```

```
LOGSTREAM-PLOTLOG-NAME  NONE
```

LGLOOKUP

```
Sysname  Logname . . . . . LogStream-Name
```

```
sysname  PLOTLOG      logstream.name
```

3. Submit the INST0041 job.

The log stream for the historical plot data records is defined, and the contents of the log stream can be viewed online.

Example: Define a DASD-Only Log Stream

This example defines a DASD-only log stream for collecting historical plot data records:

```
DATA TYPE(LOGR) REPORT(NO)
DEFINE LOGSTREAM
    NAME(GSVX130.SYSDATA.PLOT.smfi)
    AUTODELETE(YES)
    DASDONLY(YES)
    DESCRIPTION(PLOT_LOG)
    DIAG(NO)
    EHLQ(LOGGER)
    HIGHOFFLOAD(70)
    LOWOFFLOAD(0)
    LS_SIZE(1000)
    MAXBUFSIZE(32767)
    MODEL(NO)
    OFFLOADRECALL(YES)
    RETPD(30)
    STG_SIZE(750)
```

View Historical Plot Data Records Online

After you have defined the log stream containing historical plot data records created by the data collectors, you can view the log stream online.

Use the following commands to view the log stream:

LGLOGS

Displays the data collection logs.

PLOTLOG

Displays the historical plot log.

The log stream is displayed for viewing.

Step 3: Define a Log Stream for XLOG Log Stream (INST0042)

This step defines a log stream to contain the exception records that the following data collectors create:

- IMS
- MVS
- TCP/IP
- WebSphere MQ

A unique log stream must be created on each system.

Note: The parmlib members for specifying log stream names are located in the *sysview.CNM4BPRM* data set.

Follow these steps:

1. Specify the log stream as shown in the example that follows this procedure.
2. Specify the name of the log stream that this step defines in the following parmlib members:

SYSDATA:

```
LOGSTREAM-XLOG-NAME    logstream.name
```

If the exception records are not going to be used or the log stream has not been defined, set the following options:

```
LOG-XLOG-RECORDS      NO
LOGSTREAM-XLOG-NAME   NONE
```

LGLOOKUP:

```
Sysname  Logname.....LogStream-Name..
sysname  XLOG          logstream.name
```

3. Submit the INST0042 JOB.

The log stream for the XLOG state exception records is defined.

Example: Define the XLOG Log Stream

This example defines an XLOG log stream for collecting exception records.

```
DATA TYPE(LOGR) REPORT(NO)
DEFINE LOGSTREAM
    NAME(GSVX130.SYSDATA.XLOG.smfi)
    AUTODELETE(YES)
    DASDONLY(YES)
    DESCRIPTION(XLOG_LOG)
    DIAG(NO)
    EHLQ(LOGGER)
    HIGHOFFLOAD(70)
    LOWOFFLOAD(0)
    LS_SIZE(1500)
    MAXBUFSIZE(32767)
    MODEL(NO)
    OFFLOADRECALL(YES)
    RETPD(14)
    STG_SIZE(1000)
```

View XLOG State Exception Data Records Online

After you have defined the log stream containing XLOG state exception records, you can view the collected data online.

Use the following commands to view the log stream:

LGLOGS

Displays data collection logs specified in parmlib member LGLOOKUP.

XLOG

Displays threshold and state exception records for all CA SYSVIEW components.

Step 4: (Optional) Define a Log Stream in Event Capture Option (INST0043)

This step is required only if you are running the CA SYSVIEW Event Capture Option.

Define a log stream that contains the SMF records that the SMFDATA task collected. SMF data collection is a component of the CA SYSVIEW Event Capture Option.

Note: For more information about the SMF Event Capture setup, see the chapter "Starting the Subtasks" in the *Administration Guide*.

A unique log stream must be created on each system.

Note: The parmlib members for specifying log stream names are located in the *sysview.CNM4BPRM* data set.

Follow these steps:

1. Specify the log stream as shown in the Define a DASD-Only Log Stream example that follows this procedure.
2. Specify the name of the defined log stream in the following parmlib members:

SMFDATA

```
LOGSTREAM-SMFDATA-NAME    logstream.name
```

If the SMF logging function is not going to be used or the log stream has not been defined, set the following options:

```
LOGSTREAM-SMFDATA-NAME    NONE
```

In addition, do not start the SMFDATA task in the SYSVIEW parmlib member.

LGLOOKUP

```
Sysname  Logname..... LogStream-Name
sysname  SMFDATA      logstream.name
```

3. Submit the INST0043 job.

The log stream for the Event Capture Option is defined, and the collected data can be viewed online.

Example: Define a DASD-Only Log Stream

This example shows a DASD-only log stream:

```
DATA TYPE(LOGR) REPORT(NO)

DEFINE LOGSTREAM
    NAME(GSVX130.SMFDATA.SMFD.smfi)
    AUTODELETE(YES)
    DASDONLY(YES)
    DESCRIPTION(SMF_LOG)
    DIAG(NO)
    EHLQ(LOGGER)
    HIGHOFFLOAD(70)
    LOWOFFLOAD(0)
    LS_SIZE(15000)
    MAXBUFSIZE(32767)
    MODEL(NO)
    OFFLOADRECALL(YES)
    RETPD(5)
    STG_SIZE(10000)
```

View Log Stream Online for Event Capture Option

After you have defined the log stream containing SMF records collected by the SMFDATA task, you can view the log stream online.

Use the following commands to view the log stream:

LGLOGS

Displays the data collection logs

SMFLOG

Displays the SMF logs

The log stream is displayed for viewing.

Step 5: (Optional) Define a Set of Log Streams for CICS Option (INST0044)

This step is required only if you are running the CA SYSVIEW Option for CICS.

This step defines a set of log streams to contain records that the CICS data collectors created.

The CICS data collectors route the records through a specified CICS logger running in the CA SYSVIEW main address space. Multiple CICS loggers can be defined.

A unique log stream must be created for each CICS logger that has been defined on each system.

Note: The parmlib members for specifying log stream names are located in the *sysview.CNM4BPRM* data set.

Follow these steps:

1. Specify the log streams as shown in the examples that follow this procedure. You can define 1- to 4-log streams.

The suggested naming convention for the log stream is as follows:

```
ssidrm.cicslogr.TRAN.smfi
ssidrm.cicslogr.TSUM.smfi
ssidrm.cicslogr.SYSD.smfi
ssidrm.cicslogr.XLOG.smfi
```

ssid

Specifies the CA SYSVIEW subsystem ID

rrm

Specifies the release number

cicslogr

Names the CICS logger

smfi

Specifies the SMF ID

The log data types are as follows:

TRAN

Specifies the CICS transaction log

TSUM

Specifies the CICS transaction summary

SYSD

Specifies the CICS system data

XLOG

Specifies the CICS exception log

Important! Multiple log data types can share a log stream. Sharing the log stream that is defined to contain the CICS transaction log record is not recommended. The volume of data in this log is much greater than other log types.

2. Specify the name of the log stream that is defined in this step in the following parmlib members:

CICSLOGR

Provides default configuration options for the CICS Data Logger function.

If a log stream is not going to be used or has not been defined, set the appropriate option value to NONE.

LOGSTREAM-CICSTRAN-NAME	NONE
LOGSTREAM-CICSTSUM-NAME	NONE
LOGSTREAM-CICSSYSD-NAME	NONE
LOGSTREAM-CICSXLOG-NAME	NONE

LGLOOKUP

Associates a log name that is defined in this member with a log stream name.

<i>Sysname</i>	<i>Logname</i>	<i>LogStream-Name</i>
Sysname	CICSLOGR.TRAN...	logstream.name
Sysname	CICSLOGR.TSUM...	logstream.name
Sysname	CICSLOGR.SYSD...	logstream.name
Sysname	CICSLOGR.XLOG...	logstream.name

3. Submit the INST0044 job.

The log streams for the CICS option are defined, and the contents of CA SYSVIEW maintained log streams can be viewed online.

Example: Define a TRAN Log Stream

This example shows a CICS transaction log stream:

```
DATA TYPE(LOGR) REPORT(NO)

DEFINE LOGSTREAM
    NAME(GSVX130.CICSLOGR.TRAN.smfi)
    AUTODELETE(YES)
    DASDONLY(YES)
    DESCRIPTION(CICS_TRANLOG)
    DIAG(NO)
    EHLQ(LOGGER)
    HIGHOFFLOAD(70)
    LOWOFFLOAD(0)
    LS_SIZE(20000)
    MAXBUFSIZE(32767)
    MODEL(NO)
    OFFLOADRECALL(YES)
    RETPD(5)
    STG_SIZE(15000)
```

Example: Define a TRANSUMM Log Stream

This example shows a CICS transaction summary log stream:

```
DEFINE LOGSTREAM
    NAME(GSVX130.CICSLOGR.TSUM.smfi)
    AUTODELETE(YES)
    DASDONLY(YES)
    DESCRIPTION(CICS_TRANSUMM)
    DIAG(NO)
    EHLQ(LOGGER)
    HIGHOFFLOAD(70)
    LOWOFFLOAD(0)
    LS_SIZE(1000)
    MAXBUFSIZE(32767)
    MODEL(NO)
    OFFLOADRECALL(YES)
    RETPD(30)
    STG_SIZE(750)
```

Example: Define a SYSD Log Stream

This example shows a CICS data log stream:

```
DEFINE LOGSTREAM
    NAME(GSVX130.CICSLOGR.SYSD.smfi)
    AUTODELETE(YES)
    DASDONLY(YES)
    DESCRIPTION(CICS_SYSDATA)
    DIAG(NO)
    EHLQ(LOGGER)
    HIGHOFFLOAD(70)
    LOWOFFLOAD(0)
    LS_SIZE(1000)
    MAXBUFSIZE(32767)
    MODEL(NO)
    OFFLOADRECALL(YES)
    RETPD(90)
    STG_SIZE(750)
```

Example: Define an XLOG Log Stream

This example shows a CICS exception log stream:

```
DEFINE LOGSTREAM
    NAME(GSVX130.CICSLOGR.XLOG.smfi)
    AUTODELETE(YES)
    DASDONLY(YES)
    DESCRIPTION(CICS_XLOG)
    DIAG(NO)
    EHLQ(LOGGER)
    HIGHOFFLOAD(70)
    LOWOFFLOAD(0)
    LS_SIZE(1000)
    MAXBUFSIZE(32767)
    MODEL(NO)
    OFFLOADRECALL(YES)
    RETPD(30)
    STG_SIZE(750)
```

View Log Streams Online for CICS Option

After you have defined the log streams containing records created by the CICS data collectors, you can view the log streams online.

Use the following commands to view the log streams:

CSYSDATA

Displays the CICS system interval analysis

CTRANLOG

Displays the CICS transaction log summary

CTRANSUM

Displays the CICS transaction intervals

LGLOGS

Displays the data collection logs

XLOG

Displays the CICS exception log

The log streams are displayed for viewing.

Step 6: (Optional) Define a Log Stream for IMS Option (INST0045)

This step is required only if you are running the CA SYSVIEW Option for IMS.

This step defines a set of log streams to contain records the IMS transaction data loggers created.

The IMS transaction data loggers create records that are logged through a task running in the CA SYSVIEW main address space. When multiple IMS loggers are running, each logger can share a specific log stream or can define a specific log stream for its use.

Note: Multiple loggers and types can share a log stream. However, sharing the log stream containing IMS transaction log records is not recommended. The volume of data in this log is greater than in other log types.

Note: The parmlib members for specifying log stream names are located in the *sysview.CNM4BPRM* data set.

Follow these steps:

1. Specify a log stream as shown in the examples that follow this procedure.

The following naming convention for the log stream is suggested:

ssidrrm.IMSLOGR.IMRS.smfi

ssidrrm.IMSLOGR.IMTR.smfi

or

ssidrrm.IMSssid.IMRS.smfi

ssidrrm.IMSssid.IMTR.smfi

ssid

Specifies the SYSVIEW subsystem ID

rrm

Specifies the release number

IMS

Specifies the IMS logger name

ssid

Specifies the IMS subsystem

IMRS

Specifies the log data type for the IMS region summary records

IMTR

Specifies the log data type for the IMS transactions

smfi

Specifies the SMF ID

2. Specify the name of the defined log stream in the following parmlib members:

IMSLOGR

Provides default configuration options for the IMS Data Logger function.

LOGSTREAM-IMSREGN-NAME *logstream.name*

LOGSTREAM-IMSTRAN-NAME *logstream.name*

If a log stream is not going to be used or has not been defined, set the appropriate option value to NONE.

LOGSTREAM-IMSREGN-NAME NONE

LOGSTREAM-IMSTRAN-NAME NONE

LGLOOKUP

Associates a log name that is defined in this member with a log stream name.

```
Sysname  Logname..... LogStream-Name
Sysname  IMSLOGR.IMRS    logstream.name
Sysname  IMSLOGR.IMTR    logstream.name
```

or

```
Sysname  IMSssid.IMRS    logstream.name
Sysname  IMSssid.IMTR    logstream.name
```

3. Submit the INST0045 job.

The log stream for the IMS option is defined, and the collected data can be viewed online.

Example: Define an IMRS Log Stream

This example shows an IMS region summary data log stream:

```
DATA TYPE(LOGR) REPORT(NO)
```

```
DEFINE LOGSTREAM
```

```
  NAME(GSVX130.IMSLOGR.IMRS.smfi)
  AUTODELETE(YES)
  DASDONLY(YES)
  DESCRIPTION(IMS_RSUMLOG)
  DIAG(NO)
  EHLQ(LOGGER)
  HIGHOFFLOAD(70)
  LOWOFFLOAD(0)
  LS_SIZE(1000)
  MAXBUFSIZE(32767)
  MODEL(NO)
  OFFLOADRECALL(YES)
  RETPD(14)
  STG_SIZE(750)
```

Example: Define an IMTR Log Stream

This example shows an IMS transaction data log stream:

```
DATA TYPE(LOGR) REPORT(NO)
```

```
DEFINE LOGSTREAM
    NAME(GSVX130.IMSLOGR.IMTR.smfi)
    AUTODELETE(YES)
    DASDONLY(YES)
    DESCRIPTION(IMS_TRANLOG)
    DIAG(NO)
    EHLQ(LOGGER)
    HIGHOFFLOAD(70)
    LOWOFFLOAD(0)
    LS_SIZE(5000)
    MAXBUFSIZE(32767)
    MODEL(NO)
    OFFLOADRECALL(YES)
    RETPD(5)
    STG_SIZE(4000)
```

View Log Stream Online for IMS Option

After you have defined the log stream containing records created by the IMS data loggers, you can view the log stream online.

Use the following commands to view the log stream:

LGLOGS

Displays the data collection logs

IMSRLOG

Displays the collection data online

IMSTLOG

Displays the IMST log

The log stream is displayed for viewing.

Step 7: (Optional) Define a Log Stream for WebSphere MQ Option (INST0046)

This step is required only if you are running the CA SYSVIEW Option for WebSphere MQ.

This step defines a log stream to contain the WebSphere MQ data collector created records. A unique log stream must be created on each system.

Note: The parmlib members for specifying log stream names are located in the *sysview.CNM4BPRM* data set.

Follow these steps:

1. Specify the log stream as shown in the example that follows this procedure.
2. Specify the name of the log stream that this step defined in the following parmlib members:

MQSDATA

Provides default configuration options for the WebSphere MQ Data Collector function.

```
LOGSTREAM-MQSDATA-NAME  logstream.name
```

If the logging function is not going to be used or the log stream has not been defined, set the following option:

```
LOGSTREAM-MQSDATA-NAME  NONE
```

LGLOOKUP

Associates a log name that is defined in this member with a log stream name.

```
Sysname  Logname.....LogStream-Name
Sysname  MQSDATA.MQHR  logstream.name
```

3. Submit the INST0046 job.

The log stream for WebSphere MQ Option is defined and the collected data can be viewed online.

Example: Define an MQHR Log Stream

This example shows an MQ log stream:

```
//MQS      EXEC  PGM=IXCMIAPU,REGION=0M
//SYSPRINT DD  SYSOUT=*
//SYSIN    DD  *
          DATA TYPE(LOGR) REPORT(NO)

          DEFINE LOGSTREAM
              NAME(GSVX130.MQSDATA.MQHR.smfi)
              AUTODELETE(YES)
              DASDONLY(YES)
              DESCRIPTION(MQS_MQHR)
              DIAG(NO)
              EHLQ(LOGGER)
              HIGHOFFLOAD(70)
              LOWOFFLOAD(0)
              LS_SIZE(1000)
              MAXBUFSIZE(32767)
              MODEL(NO)
              OFFLOADRECALL(YES)
              RETPD(5)
              STG_SIZE(750)
```

View Log Stream Online for CA SYSVIEW Option for WebSphere MQ

After you have defined the log stream containing records created by the CA SYSVIEW Option for WebSphere MQ data collector, you can view the log stream online.

Use the following commands to view the log stream:

LGLOGS

Displays the data collection logs.

MQRLOG

Displays the MQR log.

The log stream is displayed for viewing.

Convert the Security Data Set (INST0050)

If you are installing CA SYSVIEW for the first time, skip this step. If CA SYSVIEW is already installed, complete this installation step to convert your existing security data set to the new format for this release.

Follow these steps:

1. Modify the JCL in the INST0050 member, which is in the *sysview.SAMPJCL* data set.
2. Edit the SYSUT1 DD statement to specify the existing security data set.
3. Submit the INST0050 job.
4. Update the security authorization for all new command and display fields after you initialize the CA SYSVIEW product.

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

When the job ends with a condition code of 0, the security data set successfully converted to the new format.

Important: Executing this job to convert your existing security file marks the security authorization as **FAILED** for all new commands in this release.

JCL Statements (INST0050)

The following ddnames and descriptions are in the JCL for the GSVXCNV5 program:

STEPLIB

Points to the new CA SYSVIEW load library.

SYSPRINT

Displays messages produced by the conversion process.

SYSUT1

Points to the security data set used with the previous release of CA SYSVIEW. This data set is input to the conversion process and is not modified.

SYSUT2

Points to the security data set to be used with the new release of CA SYSVIEW. This data set is the output from the conversion process and is modified. This data set name should match the data set name specified on the Dsn-System-SECURITY parameter of the System Configuration Options member.

Condition Codes

INST0050 and INST0051 convert an existing data set to the new format. Job INST0050 converts the security data set; job INST0051 converts the profile data set. Either job can return the following condition codes:

0

The conversion process completed successfully.

4

The GETMAIN for the initial work area failed. Increase the region size of the job.

8

The GSVXCOMM module could not be loaded. Review the job log for the reason the load failed.

12

The GSVXNUC module could not be loaded. Review the job log for the reason the load failed.

16

An error occurred during initialization processing. Review the output from the SYSPRINT DD statement for the reason initialization failed.

20

The Open for the SYSUT1 DD statement failed. Be sure that the SYSUT1 DD statement is specified in the JCL.

24

A Write to the SYSPRINT DD statement failed. Be sure that the SYSPRINT DD statement is specified in the JCL.

28

The profile data set release is not supported. The data set supplied with the SYSUT1 DD statement is for a release that is no longer supported. Contact Technical Support at <http://ca.com/support>.

Convert the Profile Data Set (INST0051)

If CA SYSVIEW is already installed, complete this step to convert your existing profile data set to the new format.

If you are installing CA SYSVIEW for the first time, skip this step.

Note: When someone is using the new release of CA SYSVIEW during the profile conversion process, the profile of that user is not converted.

Follow these steps:

1. Modify the JCL in the INST0051 member, which is in the *sysview.SAMPJCL* data set.
2. Edit the SYSUT1 DD statement by providing the existing profile data set used with the previous release in the SET OLD= parameter.

The SET NEW= parameter is filled in for you with new profile data set to be used with this new release. You can modify this value.

Example: Data set variable names

```
SET OLD='old.profile.dataset '  
SET NEW='new.profile.dataset '
```

OLD

Specifies the data set name of the existing profile to convert.

NEW

Specifies the data set name of the new profile data set that was distributed with the new release.

3. Submit the INST0051 member.

The job converts the existing profile data set to the current release using the following two steps:

- a. Initializes the new or output profile data set with members from the distribution profile.
- b. Converts the profile data set from a prior release into the new profile data set.

The profile data set is converted.

More information

[JCL Statements \(INST0051\)](#) (see page 142)

JCL Statements (INST0051)

The following ddnames and descriptions are in the JCL for the GSVXPROC program:

STEPLIB

Points to the new CA SYSVIEW load library.

SYSPRINT

Displays messages produced by the conversion process.

SYSUT1

Points to the profile data set used with the previous release of CA SYSVIEW. This data set is input to the conversion process and is not modified.

SYSUT2

Points to the profile data set to be used with the new release of CA SYSVIEW. This data set is the output from the conversion process and is modified. This data set name should match the data set name specified on the Dsn-System-PROFILE parameter of the System Configuration Options member.

Condition Codes

INST0050 and INST0051 convert an existing data set to the new format. Job INST0050 converts the security data set; job INST0051 converts the profile data set. Either job can return the following condition codes:

0

The conversion process completed successfully.

4

The GETMAIN for the initial work area failed. Increase the region size of the job.

8

The GSVXCOMM module could not be loaded. Review the job log for the reason the load failed.

12

The GSVXNUC module could not be loaded. Review the job log for the reason the load failed.

16

An error occurred during initialization processing. Review the output from the SYSPRINT DD statement for the reason initialization failed.

20

The Open for the SYSUT1 DD statement failed. Be sure that the SYSUT1 DD statement is specified in the JCL.

24

A Write to the SYSPRINT DD statement failed. Be sure that the SYSPRINT DD statement is specified in the JCL.

28

The profile data set release is not supported. The data set supplied with the SYSUT1 DD statement is for a release that is no longer supported. Contact Technical Support at <http://ca.com/support>.

Update the CICS Tables (INST0060)

Complete the following steps to update your CICS tables:

- Step 1: Define Program and Transaction Entries
- Step 2: Add Entries to the PLTPI
- Step 3: (Optional) Add Entries to the PLTSD
- Step 4: Start the CICS Data Collector Automatically

Step 1: Define Program, Transaction, and Library Entries

Define program and transaction entries by updating the CICS tables.

Before you begin defining program and transaction entries, be sure that the following assigned values meet your site requirements:

- The input statements to the CICS system definition file utility program DFHCSDUP:
`sysview.CNM4BSAM(CICSCSD)`
- The sample JCL for the system definition file utility program in the member CSDUTIL of SAMPLIB (after job INST0110 is executed, which involves [copying installation members to a sample library](#) (see page 150))

Follow these steps:

1. Modify the INST0060 member in the `sysview.SAMPJCL` data set to the standards of your site.
2. Submit the member INST0060.

When the job ends with a condition code of 0, the following CICS transactions have been defined:

Transaction	Use
GSVS	Starts the CICS Data Collector manually. This transaction requires the CA SYSVIEW Option for CICS.

Transaction	Use
GSVT	Terminates the CICS Data Collector manually. This transaction requires the CA SYSVIEW Option for CICS.
GSVI	Identifies the CICS Data Collector that uses this transaction as an internal transaction to the function requests. The transaction cannot be executed directly. It is started internally by the GSVS transaction. This transaction requires the CA SYSVIEW Option for CICS.
SYSV	Identifies the CA SYSVIEW online interface. This transaction does not require the CA SYSVIEW Option for CICS.

Note: For more information about the CICS system definition file utility program, see the IBM *CICS Resource Definition Guide* or the IBM *CICS Operations and Utilities Guide*.

CICS Dynamic Library Definition

Starting at CICS TS 3.2, CICS provides the ability to use a dynamic library definition to dynamically allocate and concatenate the load library data sets to the ddname DFHRPL.

You can dynamically add definitions to the CICS CSD file using the CICS DFHCSDUP utility.

The following sample definition, which is available in the CICSCSD member of the sample library (CNM4BSAM) data set, defines the CA SYSVIEW loadlib data set:

```
DEFINE LIBRARY(SYSVIEW)
  RANKING(50)
  CRITICAL(NO)
  STATUS(ENABLED)
  DSNAMES01(sysview.CNM4BL0D)
  GROUP(SYSVIEW)
```

CA SYSVIEW no longer requires any JCL updates to a CICS job stream. You can perform installation and maintenance to an active CICS region.

All data set allocation is performed dynamically. The CA SYSVIEW loadlib (sysview.CNM4BL0D) must be accessible through STEPLIB or link list. If the loadlib is in the link list, then no JCL changes are required.

Step 2: Add Entries to the PLTPI

Update the CICS tables by adding entries to the PLTPI.

Follow these steps:

Note: If you do not use a PLTPI table, skip this step.

1. Change the PLTPI for each CICS system being monitored.
2. If you are using a PLTPI table, add the following entry to the table:

```
DFHPLT TYPE=ENTRY,PROGRAM=GSVCGSVS
```

The entry is added to the PLTPI.

Example: PLTPI (initialization) module

```
DFHPLT TYPE=INITIAL,SUFFIX=PI
```

```
DFHPLT TYPE=ENTRY,PROGRAM=DFHDELIM
```

```
DFHPLT TYPE=ENTRY,PROGRAM=GSVCGSVS
```

```
DFHPLT TYPE=FINAL
```

```
END DFHPLTBA
```

Step 3: (Optional) Add Entries to the PLTSD

You control termination by the placement of the termination program GSVCGSVT for CA SYSVIEW for CICS within the CICS PLTSD shutdown module.

Adding the GSVCGSVT entry to the PLTSD is optional. By default, the data collector for CA SYSVIEW for CICS terminates during the Stage 2 portion of a normal CICS shutdown.

Follow these steps:

The options for entries to add to the PLTSD are shown in the samples that follow:

- Request STAGE 1 shutdown:
Add GSVCGSVT before DFHDELIM entry.
- Request STAGE 2 shutdown:
Add GSVCGSVT after DFHDELIM entry.
The chosen entry is added to the PLTSD.

Example: PLT - Stage 2 Shutdown

```
PRINT GEN
DFHPLT TYPE=INITIAL,SUFFIX=SD
DFHPLT TYPE=ENTRY,PROGRAM=DFHDELIM
DFHPLT TYPE=ENTRY,PROGRAM=GSVCGSVT
DFHPLT TYPE=FINAL
END DFHPLTBA
```

Step 4: Start the CICS Data Collector Automatically

A post-initialization table that overrides the default system initialization table (SIT) is required if you want to start the CICS Data Collector automatically during CICS initialization. The post-initialization table name is DFHPLTxx, where xx is the suffix specified by the SIT parameter PLTPI.

To have CICS use the DFHPLTPI table during post-initialization processing, code PLTPI=PI in the SIT. Code for DFHPLTPI has been supplied in the SAMPLIB member CICSPLT.

Note: If you are not currently using a PLTPI table, you can obtain one by specifying PLTPI=PI in the SIT override.

CICS Data Collection Start Modes

The CA SYSVIEW for the CICS data collector requires the configuration information during the initialization. The original or initial configuration definitions are stored in various PARMLIB members.

During the termination of the CICS data collector, configuration information is saved. The configuration information can then be persistent.

The initial or startup configurations are always obtained from the PARMLIB member CICSOPTS.

You can specify the following start modes:

COLD

Retrieves the configuration information from the PARMLIB member. Configuration data from the previous session is *not* restored.

WARM

Retrieves the configuration information from the persistent data store. Configuration data from the previous session is restored.

If the object does not exist, the data is retrieved from the associated PARMLIB member.

How to Specify the Start Mode

You can specify the start mode using two methods. Use the following matrix to help you understand the resulting mode when more than one method is used simultaneously.

- Define a CICS System Initialization Table (SIT) INITPARM for the program GSVCGSVS by adding the following SIT parameter:

```
INITPARM=(GSVCGSVS='GSVI=tran,USERID=userid,START=start,SSID=ssid')
```

tran

Specifies the transaction that was defined with the initial program GSVCGSVI. By Default, the transaction ID is GSVI. Specifying an asterisk (*) causes the use of the transaction ID GSVI.

userid

Specifies the user ID to be associated with the GSVI transaction. Specifying an asterisk (*) causes the transaction ID GSVI to start without a specific user ID.

start

Specifies the start type for the CICS data collector.

Valid Values:

- Asterisk (*) indicates a warm start.
- WARM indicates a warm start.
- COLD indicates a cold start.

ssid

Specifies the subsystem ID that the initial program GSVCGSVI connects to. Specifying an asterisk (*) causes the use of the default subsystem ID defined in module GSVBSSID.

- Manually enter the start mode as a parameter to the start transaction GSVS as follows:

Syntax:

GSVS <START=*mode*>

mode

* | WARM | COLD

Start Mode Matrix Table

The following table shows how the start mode specified using the CICS SIT INITPARM and GSVS START= affects the resulting start mode.

CICS SIT INITPARM	GSVS START=	Resulting Mode
none	none	WARM
none	*	WARM
none	COLD	COLD
none	WARM	WARM
*	none	WARM
*	*	WARM
*	COLD	COLD
**	WARM	WARM
COLD	none	COLD
COLD	*	WARM
COLD	COLD	COLD
COLD	WARM	WARM

WARM	none	WARM
WARM	*	WARM
WARM	COLD	COLD
WARM	WARM	WARM

Link Edit the CICS Object Members (INST0061)

This step link edits your CICS object members. The link edit creates a load module for formatting CICS internal trace table entries that display when you issue the CTRACE command.

Note: If multiple releases of CICS are in use, specify the library using the highest available CICS release.

Follow these steps:

1. Modify the SYSLIB DD statement in the INST0061 member of the *sysview.SAMPJCL* data set to use the correct CICS library.

A sample SYSLIB DD statement follows:

```
//SYSLIB DD DSN=cics.ADFHMOD
```

2. Submit the member INST0061.

When the job ends with a condition code of 0, the link edit of the CICS object members completed.

Update the CICS JCL

Enable the CICS Data Collector and online interface by updating the CICS JCL. Sample JCL is found in *sysview.SAMPJCL(CICSJCL)*. Perform this procedure for each CICS system being monitored.

Follow these steps:

1. Add a DD statement for the load library to your CICS job stream DFHRPL and STEPLIB DD statements, as shown:

```
//STEPLIB DD DSN=...  
//          DD DSN=sysview.CNM4BLOD  
//DFHRPL  DD DSN=...  
//          DD DSN=sysview.CNM4BLOD
```

Note: Replace the high-level qualifier with the one you assigned to the CA SYSVIEW load library.

2. Make the CNM4BLOD data set accessible through the STEPLIB DDname or the linklist.

Starting at CICS TS 3.2, CICS provides Dynamic Program Library Management. The CNM4BLOD data set can be dynamically added to CICS and made accessible using a LIBRARY resource definition. This step can be done in place of adding the data set DFHRPL ddname.

The CICS JCL is now updated for each CICS system being monitored.

Copy the Installation Members to a Sample Library (INST0110)

The created and used jobs during the installation are copied to the *sysview.CNM4BSAM* data set. To run one of these jobs in the future, use the copy in the SAMPLIB data set to avoid altering the original installation jobs.

Follow these steps:

1. Review the INST0110 member in the *sysview.CNM4BSAM* data set to ensure all of the files that are referenced in the job are correct.
2. Submit the member INST0110.

When the job ends with a condition code of 0, the members reside in the sample library.

Assemble and Link the Default SSID (USRM0001)

CA SYSVIEW requires a Subsystem Identifier (SSID) to determine which System Configuration Options member to use from the System PARMLIB. If you are using the default SSID of GSVX, then the USERMOD is not required.

If you are not using the default SSID of GSVX, review these steps.

Follow these steps:

1. Review the sample JCL in USRM0001.
2. Submit member USRM0001.
 - a. The sample JCL creates the SMP/E USERMOD.
 - b. The SMP/E USERMOD assembles and links the default SSID into the load module GSVBSSID.

Prepare to Start Your Product

When the following procedures are complete, the subsystem and APF load libraries are installed; CA SYSVIEW is installed on your system after the IPL completes.

Increase ASIDs (Optional)

When the CA SYSVIEW main address space is stopped multiple times, and you are not using ASID reuse:

- You can run out of address space identifiers (ASIDs).
- You would need to IPL your system to obtain additional ASIDs.

To avoid having to IPL your system, use the following procedure to increase the number of ASIDs.

Follow these steps:

1. Access the RSVNONR in the member IEASYSxx of SYS1.PARMLIB.
2. Increase the RSVNONR size to accommodate the number of times you could start and stop address spaces that define a system linkage index (System LX) within the life of an IPL.

Note: When you run out of ASIDs, messages alert you of the failed address space creation and to IPL to obtain additional ASIDs.

System Linkage Index and ASID Reuse

System Linkage Index

A linkage index is reserved as a reusable System LX when the ASN and LX reuse facility is installed.

If the ASN and LX reuse facility is installed, the reusable System LX can be reserved. When the SYSVIEW Main Address Space is stopped, the system can reuse the System LX.

If the ASN and LX reuse facility is *not* installed and the SYSVIEW Main Address Space stops, the System LX becomes dormant. When the SYSVIEW Main Address Space is restarted, CA SYSVIEW reclaims the previously used System LX.

Note: Parameter NSYSLX specifies the number of linkage indexes, LXs, to be reserved. However, because the product reuses the System LX, you do not need to increase this number.

Reusable ASIDs

When the SYSVIEW Main Address Space is terminated, the ASID can become unavailable for use due to a System LX being reserved. The ASID can be reused when all the following conditions are true:

1. ASN and LX reuse facility is installed.
2. REUSASID(YES) is specified in the DIAGxx member of the SYS1.PARMLIB.
3. The SYSVIEW Main Address Space started task is started with the parameter REUSASID=YES:

```
S SYSVIEW,REUSASID=YES
```

4. The WebSphere MQ data collection task, MQSDATA, uses the WebSphere MQ MQI to gather MQ performance data.

WebSphere MQ does *not* support address spaces that are started in the SYSVIEW Main Address Space with REUSASID=YES. Using this method causes an abend with an S0D3 abend code.

5. The IMS Common Queue Server task, IMSCQS, uses the IMS Common Queue Server APIs to gather IMS Shared Message Queue performance data.

The IMS CQS address space APIs do *not* support clients that are started in the SYSVIEW Main Address Space with REUSASID=YES. Using this method causes an abend with an S0D3 abend code.

APF-Authorize the Load Library

Authorize the load library to make it available.

Follow these steps:

Add the following command to the PROGxx member in SYS1.PARMLIB:

```
APF ADD DSNAME(sysview.CNM4BLOD) VOLUME(volume)
```

After you add the DSNAME and VOLUME to the PROGxx member, the load library is APF-authorized. If the runtime load library is SMS managed, use 'xxxxxx' for volume.

Set Up the LOGR Exit and Linklist

The provided LOGR subsystem exit lets you use any z/OS log stream as an input file to a batch program. The LOGR subsystem exit must reside in a linklist data set.

Follow these steps:

- If you have defined the data set *sysview.CNM4BLOD* to the linklist, no other steps are required.
- If you have not defined the data set *sysview.CNM4BLOD* to the linklist, copy the following modules to an existing linklist data set:
 - GSVXLGEX
 - GSVXLGXG (alias of GSVXLGEX)

After the modules are copied, the LOGR subsystem exit resides in a linklist data set.

Add Startup Procedure to System Procedure Library

Note: If you configured CA SYSVIEW using MSM, the system procedures were already copied to the library specified during the configuration.

Update the startup procedures and add them to one of the system procedure libraries. The CA SYSVIEW main address space performs the data collection for z/OS, JES2, CICS, IMS, WebSphere MQ, and TCP/IP.

You can start the CICS and VTAM interfaces from:

- The CA SYSVIEW user interface address space.
- The SYSVUSER parameter library member that contains default startup options.

This procedure guides you through adding a startup procedure to a system procedure library.

Follow these steps:

1. Copy the PROC from the data set *sysview.SAMPJCL* into one of your system procedure libraries.

SYSVIEW PROC Member

Contains the JCL used to start the CA SYSVIEW main services address space.

MEM Keyword Default: SYSVIEW

COMMNDxx Member Entry: COM='S SYSVIEW,REUSASID=YES'

SYSVUSER PROC Member

Provides the list of default CA SYSVIEW functions and tasks that are started during the initialization.

MEM Keyword Default: SYSVUSER

COMMNDxx Member Entry: COM='S SYSVUSER'

2. Point the MEM keyword on the PROC statement to a member in the *sysview.CNM4BPRM* data set that contains initialization parameters for the address space.

Note: For more information about the CA SYSVIEW address space, see the *Administration Guide*.

3. Review the initialization parameters before you start the address space.
4. If you want to start the address space automatically at IPL, add the start command to the COMMNDxx member in SYS1.PARMLIB.

Note: For more information about the COMMNDxx member in SYS1.PARMLIB, see the appropriate IBM guide.

The initialization (startup) procedures are added to the system procedure library.

Start Your Product

To use CA SYSVIEW, start the main address space.

Follow these steps:

1. Verify that the CA LMP codes are defined according to your specifications.
2. Start SYSVIEW to initialize the main services address space. Start SYSVUSER to start the user address space.

After the LMP codes are correctly defined and these procedures have run, the main address space is started.

Post-Installation Considerations

The installation verification program (IVP) can be executed when the installation is completed and CA SYSVIEW is started. IVP can also be executed any time that you want to verify your installation.

IVP provides the following programs:

- GSVUTIL
Provides functions that let you review the settings of your installation parameters.
- GSVXBAT
Executes in batch any valid CA SYSVIEW command so that you can exercise components in CA SYSVIEW.

To verify your installation using the program GSVUTIL:

1. Submit member IVP00001.

The resulting IVP report provides the installation settings for the following functions:

- z/OS system
 - Subsystem
 - Authorized Program Facility (APF) list
 - SYSVIEW LMP keys
2. Review the report and verify your settings.

To verify your installation using the program GSVXBAT:

1. Submit member IVP00002.

The output from the CA SYSVIEW command is returned to the SYSPRINT ddname where the settings can be verified.

2. Review for messages in the SYSPRINT output.

Whether commands return data depends on the installed or active components.

For example, the IMSLIST command display is empty when IMS is inactive.

Note: For a sample job, see the SAMPLIB member EXECBAT. For more information about the GSVXBAT program, see the *Administration Guide*.

Chapter 6: Migration Information

This section contains the following topics:

[Update the INSTALL Job](#) (see page 157)

[Dynamic Installation of CA SYSVIEW](#) (see page 158)

[User Supervisor Call \(SVC\) Removal](#) (see page 159)

[LPA Load Library Data Set Removal](#) (see page 159)

[Anchor Address Space Removal](#) (see page 160)

[Library Concatenation](#) (see page 161)

[JES Definitions](#) (see page 163)

[Configuration Options Member - OPTIONS](#) (see page 163)

[External Security](#) (see page 164)

[Event Scheduler](#) (see page 164)

[Configuration Options - Parmlib Member CICSOPTS](#) (see page 165)

[Logical Group Definitions Removed - Parmlib Member CICSGRPS](#) (see page 165)

[IMS Dependent Regions - Data Collection](#) (see page 176)

Update the INSTALL Job

The member INSTALL found in the installation data set *sysview.SAMPJCL* is used to create dynamically all of the other installation members.

The following entry generates a step to allocate a set of SITE libraries:

```
SITEDSN=YES
```

The generated *GSVXgsvx* system configuration options member includes the definitions for site libraries.

Dynamic Installation of CA SYSVIEW

The steps that are required to install and dynamically configure CA SYSVIEW have been simplified.

For CA SYSVIEW Version 14.0

Starting in Version 14.0, CA SYSVIEW does not provide or require the execution of a dynamic installation job or step. The DYNAMIC job step was removed from the JCL for the CA SYSVIEW started tasks. The installation provides updated JCL for the started tasks.

Note: The job fails when you use the old JCL without removing the DYNAMIC job or step. The execute program, GSVXINST, no longer exists.

The SYSVIEW load library data set must be APF authorized before starting CA SYSVIEW.

For previous releases of CA SYSVIEW

In releases before Version 14.0, CA SYSVIEW required the following system resources to be defined:

- User SVC

The existing SVC definitions can be removed when prior releases are no longer used.

```
SYS1.PARMLIB(IEASVCnn)  
SVC Parm nnn,REPLACE,TYPE(3),APF(NO),EPNAME(GSVXSVC)
```

- LPA Modules

The existing LPA definitions can be removed when prior releases are no longer used.

```
SYS1.PARMLIB(IEALPAnn)  
INCLUDE LIBRARY(sysview.CNM4BLPA)  
MODULES(GSVXSVC,GSVXAAST,CAIXNM4$)
```

- The APF authorization of SYSVIEW load library data set

The APF authorization is still required.

```
SYS1.PARMLIB(PROGxx)  
APF ADD DSNAME(sysview.CNM4BL0D) VOLUME(volume)
```

The required system resources could have been defined using one of the following methods:

1. Providing manual definitions in the SYS1.PARMLIB members

```
SVC - SYS1.PARMLIB(IEASVCnn)  
LPA - SYS1.PARMLIB(IEALPAnn)
```

2. Execution of a stand-alone dynamic install job

`sysview.SAMPJCL(INST0100)` or
`sysview.CNM4SAM(DYNMINST)`

3. The following CA SYSVIEW Services started task contained a job or step DYNAMIC that was used to install dynamically the required resources. The step could be run even if the resources had been manually defined.

SYSVIEW - Main Services Address Space
SYSVUSER - User Interface Address Space

User Supervisor Call (SVC) Removal

In releases before Version 14.0, you defined a user SVC in the CA SYSVIEW System Configuration Options member GSVXGSVX. This member resides in the system parmlib concatenation.

Starting at Version 14.0, remove the following obsolete System Configuration Option from any options member:

SVC-Number

If you do not remove this option, the CA SYSVIEW initialization continues while issuing the following series of warning messages:

GSV445W Configuration member: GSVXGSVX

GSV446W Configuration option: SVC-Number *nnn*

GSV447W Configuration error: Option name is obsolete.

LPA Load Library Data Set Removal

The installation of CA SYSVIEW no longer requires a separate data set to contain the required LPA load modules.

The following data set is no longer distributed:

`sysview.CNM4BLPA`

Anchor Address Space Removal

CA SYSVIEW Version 14.0 utilizes the CA Common Services CAMASTER address space to anchor any required resources.

In releases before CA SYSVIEW Version 14.0

CA SYSVIEW utilized an anchor address space:

SYSVAAST - Anchor Address Space (prior to r14.0)

The purpose of the anchor address space was to anchor data spaces that CA SYSVIEW services created and used.

The anchor address space:

- Did not execute any code or programs.
- Was defined as non-cancelable and non-memtermable
- Was created automatically at initialization by the main services address space
- Remained and was reused through the life of an IPL.

Library Concatenation

A CA SYSVIEW installation is comprised of several types of libraries or data sets designed to contain a specific type of data. This library is referred to as a library type(libtype).

A library type can consist of multiple data sets. These data sets dynamically concatenate when a read request is made for the specified library type.

Only one data set can be defined for each data set type. Therefore, a maximum of three data sets can be concatenated.

If defined, the data sets are concatenated in the following order:

```
libtype DD DISP=SHR,DSN=user.data.set
        DD DISP=SHR,DSN=site.data.set
        DD DISP=SHR,DSN=system.data.set
```

The possible data set types are:

User (Optional)

The optional user-defined data sets contain definitions or overrides to site or system definitions.

The users define and maintain the user data set names in their CA SYSVIEW profile.

Site (Optional)

The optional site defined data sets contain definitions or overrides to system definitions.

The site data set names are defined in the CA SYSVIEW System Configuration Options member: GSVXGSVX

The system configuration options member must be located in the concatenation of the z/OS system parmlib data sets.

Example: SYS1.PARMLIB

System

The required system defined data sets contain definitions or configuration options. The set of system data sets contains the original members the product installation delivered. The system data set names are defined in the CA SYSVIEW System Configuration Options member: GSVXGSVX.

The system configuration options member must be located in the concatenation of the z/OS system parmlib data sets.

Example: SYS1.PARMLIB

For more information, see the following help topic: Library concatenation - USER, SITE, and SYSTEM.

Data Sets Eligible for Library Concatenation

A SYSTEM data set is required for all library types. USER and SITE data sets are not required. The definition of USER and SITE data sets are always optional.

USER and SITE data sets are not eligible for all library types.

The following table shows data set eligibility by library type:

Library Type	DSN Suffix	User Data Set	Site Data Set	System Data Set
CAPLIB	CNM4BCAP	n/a	Site	System
CLISTLIB	CNM4BCLS	User	Site	System
DATALIB	CNM4BDAT	n/a	n/a	System
HELPLIB	CNM4BHLP	User	Site	System
MAPLIB	CNM4MAP	User	Site	System
MIBLIB	CNM4MIB	User	Site	System
PANELLIB	CNM4BPNL	User	Site	System
PARMLIB	CNM4BPRM	User	Site	System
PLOTLIB	CNM4BPLT	User	Site	System
PROFILE	CNM4BPRF	n/a	n/a	System
REXXLIB	CNM4BREX	n/a	Site	System
SAMPLIB	CNM4BSAM	n/a	n/a	System
SECURITY	CNM4BSEC	n/a	n/a	System
TEMPLATE	CNM4BTMP	User	Site	System

The following table shows data set eligibility by library type before Release 13.9:

Note: A SITE data set did not exist and a USER data set was available for a limited number of library types. Only a limited number of parmlib members were eligible for the USER library.

Library Type	DSN Suffix	User Data Set	Site Data Set	System Data Set
CAPLIB	CNM4BCAP	n/a	n/a	System
CLISTLIB	CNM4BCLS	User	n/a	System
DATALIB	CNM4BDAT	n/a	n/a	System
HELPLIB	CNM4BHLP	n/a	n/a	System

MAPLIB	CNM4MAP	User	n/a	System
MIBLIB	CNM4MIB	User	n/a	System
PANELLIB	CNM4BPNL	n/a	n/a	System
PARMLIB	CNM4BPRM	User	n/a	System
PLOTLIB	CNM4BPLT	User	n/a	System
PROFILE	CNM4BPRF	n/a	n/a	System
REXXLIB	CNM4BREX	n/a	n/a	System
SAMPLIB	CNM4BSAM	n/a	n/a	System
SECURITY	CNM4BSEC	n/a	n/a	System
TEMPLATE	CNM4BTMP	n/a	n/a	System

For more information, see the following help topic: Library concatenation - USER, SITE, and SYSTEM.

JES Definitions

In releases before CA SYSVIEW Release 13.9, the data statements that were entered in the JES parmlib member were column-dependent or specific.

The data is no longer column specific. The data is positional and can be entered in any column as long as the data is contained in columns 1 through 72.

Configuration Options Member - OPTIONS

All CA SYSVIEW tasks and sessions read the OPTIONS parmlib member.

Starting in CA SYSVIEW Version 14.0, the OPTIONS parmlib member is cached to reduce the data set allocation.

The main task within each of the service address spaces will:

- Read the member from the parmlib data sets
- Replace any cached data

External Security

To control command access using external security, code a SAF Class Name in the External Security section of the User Groups in the security file.

A new XSDATA resource has been added in CA SYSVIEW Version 14.0. To handle the new XSDATA resource, you create a rule or profile.

Permit all users read access to:

```
SV.SUSP.*.RESN.XSDATA
```

*

The wildcard third node assumes that you have the default value of YES for System SMFID in Entity Name. By creating the suspend rule, you cause all XSDATA SAF calls to be bypassed. This suspend rule allows all cross-system eligible commands to function as they did in prior releases.

To start controlling access to the command data from remote systems:

- You would not grant access to the suspend rule.
- You would create new rules for the cross-system capable commands.

See the online help XSCMDS command for the complete list.

Example, allow all commands except CTASKS to retrieve cross-system data:

- Permit the user read access to: SV.RESN.CA31.XSDATA.*
- Forbid the user read access to: SV.RESN.CA31.XSDATA.CTASKS

Event Scheduler

The WebSphere MQ event function MQSDATA-SYSTEM has been functionally combined with the event function MQSDATA-QMGRS. MQSDATA-SYSTEM is now obsolete.

If you use the CA SYSVIEW persistent data store to save scheduled events, then the definitions are converted automatically.

If the SYSVIEW event scheduler task (SCHEDULE) is being COLD started, then update the parmlib member SCHDMQS to remove:

- The event MQS-SYSTEM
- Any defined event with the function MQSDATA-SYSTEM

If any events with function MQSDATA-SYSTEM remain, you receive a warning message indicating the function is now obsolete.

Configuration Options - Parmlib Member CICSOPTS

Default values were changed for the following configuration options:

Configuration Options	New Default	Prior Default
-----	-----	-----
PERFORMANCE-GLOBAL-EXIT-TS	Yes	No

The following configuration options have been removed and made obsolete:

- TRANSACTION-GROUP-MEMBER
- TRANSACTION-GROUPS-STARTTYPE

Logical Group Definitions Removed - Parmlib Member CICSGRPS

The parmlib member CICSGRPS is no longer used and has been removed.

Logical group definitions are no longer maintained for a specific CICS region. The definitions have been merged into the common set of logical groups that CA SYSVIEW maintains.

Define your definitions in the parmlib member GROUPS or using the online command GROUPS.

Logical Groups Overview

CA SYSVIEW Logical Groups define a list of similar items as a single logical group name. Use the group name for referencing the entire list.

The following list provides example logical group ideas:

- Production CICS regions
- CICS MRO regions
- CICS transactions that are part of an application
- A logical group of DASD volumes for exception processing
- A logical group of related job names

How to Use Logical Groups

CA SYSVIEW Logical Groups can be used in several ways.

- Create a threshold definition that monitors CPU usage for a list of job names.
 1. Create a logical group with a type of JOBNAME that contains the list of job names.

```
Parmlib: GROUPS
```

```
Command: GROUPS
```

```
DEFINE PROD      TYPE  JOBNAME
                  DESC  'Production jobs'
                  MEMBER CICSPROD
                  MEMBER PAYROLL
                  MEMBER DB2PROD
```

2. Create a threshold definition using the logical group name PROD.

```
Parmlib: MVSTHRSH
```

```
Command: THRESH
```

```
DEFINE JOBCPUT% RSCE >PROD LIMIT 90
```

The RSCE value for the metric JOBCPUT% is a jobname. The value >PROD begins with the logical group name indicator character >. Therefore, the supplied jobname processes as a logical group instead of a single job name.

- Use a jobname logical group within a source member)IF statement.
- Using multiple)IF statements:

```
Parmlib: CICSOPTS
```

```
    )IF JOBNAME EQ CICSPROD
      LOGGER-NAME CICSLOGR
    )ENDIF
    )IF JOBNAME EQ CICSTEST
      LOGGER-NAME CICSLOGR
    )ENDIF
```

- Using logical groups:

```
Parmlib: GROUPS
```

```
Command: GROUPS
```

```
DEFINE CICSLST  TYPE  JOBNAME
                  DESC  'CICS jobs'
                  MEMBER CICSPROD
                  MEMBER CICSTEST
```

```
Parmlib: CICSOPTS
```

```
)IF JOBNAME IN CICSLST/JOBNAME
  LOGGER-NAME CICSLOGR
)ENDIF
```

- Use a jobname logical group for displaying a list of job names on the command ACTIVITY.

1. Create a logical group with a type of JOBNAME that contains the list of job names.

Parmlib: GROUPS

Command: GROUPS

```
DEFINE PROD      TYPE  JOBNAME
                  DESC  'Production jobs'
                  MEMBER CICSPROD
                  MEMBER PAYROLL
                  MEMBER DB2PROD
```

2. Issue the command ACTIVITY.
3. Issue the command SELECT to filter the displayed information.

```
SELECT fieldname IN group.instance/type
SELECT fieldname IN group/type
```

```
SELECT JOBNAME IN PROD/JOBNAME
```

The JOBNAME field on the ACTIVITY display is defined to have an associated logical group type of JOBNAME. Therefore, the logical group type is not required on the SELECT command.

```
SELECT JOBNAME IN PROD
```

Migrating Logical Group Definitions

Starting with CA SYSVIEW 14.0:

- You have one single set of logical group definitions.
- All definitions are loaded each time the SYSVIEW Main Services Address Space is started.
- All logical group definitions are loaded from the parmlib member GROUPS or from the SYSVIEW persistent data store. This choice depends on the start type of WARM or COLD.
- Logical Groups can be displayed, updated, or altered using the online command GROUPS.
- The CICS logical group definitions must be combined with the definitions maintained by the SYSVIEW Main Services Address Space.
- When the CA SYSVIEW Main Services Address Space terminates, the list of logical group definitions are written to the CA SYSVIEW persistent data store
- The syntax for the logical groups definitions are the same.

The migration of logical group definitions from one release of CA SYSVIEW to another depends on the method being used to start CA SYSVIEW.

- [Starting SYSVIEW using WARM Start](#) (see page 169)

The migration is automatic if the logical groups definitions are stored in the persistent data store.

- [Starting SYSVIEW using COLD Start](#) (see page 170)

Logical group definitions load from the parmlib member GROUPS when COLD starting the SYSVIEW Main Services Address Space. In this case, the user is responsible for maintaining the definitions from release to release. The SYSVIEW SITE libraries ease the need for manual changes or tracking.

Logical Groups Prior to CA SYSVIEW 14.0

Before CA SYSVIEW 14.0, there were two separately maintained sets of logical groups.

1. Logical Groups that SYSVIEW Main Services Address Space maintained.
 - Parameter Library Member: GROUPS
 - Online Command: GROUPS
2. Logical Groups that CA SYSVIEW for CICS Data Collector maintained in each monitored CICS region. These groups have been removed.
 - Parameter Library Member: CICSGRPS
 - Online Command: CGROUPS

Load logical group definitions into each CICS region separately to let the same logical group name be defined in multiple CICS regions, but contain a different list of logical group members.

CICS logical group definitions were loaded from the parmliib member CICSGRPS or the CA SYSVIEW persistent data store.

The CICS logical group processor supported the following logical group types:

- CICSTRAN - CICS transaction IDs
- TRAPDEST - SNMP trap destinations specified as IP addresses or DNS names

Use the Warm Start Method

When WARM starting CA SYSVIEW:

- The logical group definitions are not being maintained in parmliib members GROUPS and CICSGRPS.
- SYSVIEW Main Services Address Space and all CICS data collectors are being WARM started.
- The persistent data store is being utilized to maintain definitions.
- The CICS logical group definitions need added. Create a parmliib member containing the list of logical group definitions that are required.

Follow these steps:

1. Create a parmliib member using the conversion utility GSVYLGCV.
2. Add the CICS logical group definitions that were maintained in the SYSVIEW persistent data store.
3. From the GROUPS command on a SYSVIEW 14.0 system, issue the following commands to load the definitions from this new parmliib member.
 - a. Issue the command:
GROUPS
 - b. Issue the command:
RELOAD *member*

Use the Cold Start Method

When COLD starting CA SYSVIEW:

- All logical group definitions are being maintained in parmlib members GROUPS and CICSGRPS.
- The SYSVIEW Main Services Address Space and all CICS data collectors are being COLD started.
- The persistent data store is not being utilized to maintain definitions.

Follow these steps:

1. Copy the definitions in the parmlib member CICSGRPS to the parmlib member GROUPS.
2. Carry any CICS definition)IF logic forward as an instance when that logic caused a specific CICS region to use the definition.

Note: The instance value can be defined using generic mask characters.

- Example: The prior CICSGRPS definition with no)IF logic:

```
DEFINE CICS  TYPE  CICSTRAN
             DESC  'CICS transaction group'
             MEMBER CEMT
             MEMBER CEDA
             MEMBER CECI
             MEMBER CEBR
```

- Example: The new definition in the member GROUPS

```
DEFINE CICS  TYPE  CICSTRAN
             INSTANCE =
             DESC  'CICS transaction group'
             MEMBER CEMT
             MEMBER CEDA
             MEMBER CECI
             MEMBER CEBR
```

- Example: The prior CICSGRPS definition with)IF logic

```
)IF JOBNAME EQ CICSPROD
DEFINE CICS  TYPE  CICSTRAN
             DESC  'CICS transaction group'
             MEMBER CEMT
             MEMBER CEDA
             MEMBER CECI
             MEMBER CEBR
)ENDIF
```

- Example: The new definition in the member GROUPS

```
DEFINE CICS  TYPE  CICSTRAN
             INSTANCE CICSPROD
```

```
DESC      'CICS transaction group'  
MEMBER   CEMT  
MEMBER   CEDA  
MEMBER   CECI  
MEMBER   CEBR
```

Conversion Utility - GSVYLGCV

The conversion utility processes the CICS logical groups that have been saved in the CA SYSVIEW persistent data store.

You can find a sample job to convert CA SYSVIEW for CICS logical group definitions in SYSVIEW.DEV.BASE.SAMPLIB(GSVYLGCV).

In previous releases, CICS logical group definitions were saved in the persistent data store. Definitions were saved for each CICS jobname. View a list of all saved definitions using the DLLIST online command.

The definitions are saved and contain the following information:

- DataId: CICSGRPS_jobname
- System: System name
- SSid: Subsystem identifier of the SYSVIEW
- Bld: The build associated with the SYSVIEW release.

The utility processes the saved definitions. The goal of the utility is to combine logical group definitions that are identical across all CICS regions for a specific group name and type. The identical definitions convert to a single definition with an INSTANCE value of "=".

Example: Identical logical group definitions

```
DEFINE CICS  TYPE      CICSTRAN
             INSTANCE =
             DESC      'CICS transaction group'
             MEMBER    CEMT
             MEMBER    CEDA
             MEMBER    CECI
             MEMBER    CEBR
```

If the members of a logical group are not identical for a specific group name and type, then a jobname specific logical group definition must be created for that jobname. The CICS jobname is used as the INSTANCE value.

Example: Different logical group members

```
DEFINE CICS  TYPE      CICSTRAN
             INSTANCE jobname
             DESC      'CICS transaction group'
             MEMBER    CEMT
             MEMBER    CEDA
             MEMBER    CECI
             MEMBER    CEBR
```

Logical Group Types:

Type	Max Length Group Name	Max Length Member Name	Description
CHANNEL	7	2	MVS channel Format: FF (hex)
CICSJOB	8	8	CICS job names
CICSPLEX	8	8	CICS job names Used by the GROUP parameter on CICS commands.
CICSTRAN	7	8	CICS transaction IDs
CPU	7	4	CPU processor number Format: 0000 (hex) ALL, CP, IIP, IFA. SP
DBAREA	7	17	Database areas Format: database.areaname
DB2SSID	8	4	DB2 subsystem IDs
DEVICE	7	8	Device names Formats: DASD volume = volume DASD device = DASDnnnn TAPE device = TAPEnnnn
EMAIL	8	64	Email IDs
IDMS	8	8	IDMS job names
IMSBALG	7	8	IMS balance groups
IMSBUFP	7	4	IMS buffer pool names
IMSESUB	7	17	IMS external subsystems Format: jobname.subsys
IMSID	7	4	IMS subsystem IDs
IMSLTERM	7	17	IMS Logical Terminals Format: termtype.terminal
IMSOTMA	7	17	IMS OTMA Format: Tmember.Tpipe
IMSPPOOL	7	4	IMS pool names

IMSREGN	7	13	IMS dependent regions Format: type.jobname type - IMS dependent region type
IMSSPOC	8	8	IMS subsystems ID to used by the command: IMSSPOC
IMSTRAN	7	8	IMS transaction names
JES2NODE	7	8	JES2 node names
JOBCLASS	8	8	JES job classes
JOBNAME	7	8	Job names
MQBPPOOL	7	4	WebSphere MQ buffer pools
MQCHAN	7	20	WebSphere MQ channels
MQPSET	7	4	WebSphere MQ page sets
MQQMGR	7	4	WebSphere MQ queue managers
MQQUEUE	7	48	WebSphere MQ queue names
OUTCLASS	8	8	JES output classes
PORTLIST	8	5	TCP/IP port numbers
SYSNAME	8	8	System names
TCPID	7	8	TCP/IP job names
TRAPDEST	8	64	SNMP trap destinations specified as IP addresses or DNS names
TYPEJOBN	8	12	Job type and job names Format: Type.Jobname
USER	8	128	User defined. The members in this logical group type have no predefined meaning or association. This logical group type can be very useful when creating a group to be used with the SELECT command.
VTAMAPPL	7	8	VTAM applids

WMREPORT	8	8	WLM Report Class
XSCONN	8	8	Cross-system connection
XSDS	8	8	Cross-system data server
XSHDWR	8	8	Cross-system hardware
XSLOGNNR	8	8	Cross-system logon not required
XSLOGNRQ	8	8	Cross-system logon required
XSNODE	8	8	Cross-system nodes
XSPLEX	8	8	Cross-system sysplex
XSSS	8	8	Cross-system session server
XSSYSTEM	8	8	Cross-system sysnames

The following logical group types support an instance qualifier:

Type	Instance	Max Instance Length	Description
CICSTRAN	jobname	8	CICS jobname
TRAPDEST	jobname	8	CICS jobname
USER	anything	8	User defined. When used on a SELECT command, if a specific instance value is not specified, the userid associated with the session will be used to locate the best match logical group definition.

IMS Dependent Regions - Data Collection

New data collection has been added to collect information about IMS-dependent regions.

The following process explains how you perform this type of collection.

1. Add a data collection event to the CA SYSVIEW Event Scheduler.
 - The event IMS-REGIONS is automatically added.
 - The event IMS-REGIONS is also defined in the parmlib member SCHDIMS.
2. Add a monitor entry that defines those IMS regions to be monitored.

The parmlib member IMSMON contains the following sample definitions for monitoring all regions and types by default:

```
MONITOR IMSREGN  IMSID =    RSCE =          INCLUDE
MONITOR IMSREGN  IMSID =    RSCE =. =       INCLUDE
```

If you are starting the IMS data collector with a WARM start, IMS monitor definition is loaded from the SYSVIEW persistent data store. In that case, you add manually the monitor definitions using the online IMSMON command or start the IMS data collector with a COLD start.

Appendix A: CCS for z/OS Component Requirements

This section contains the following topics:

[FMIDs](#) (see page 177)

FMIDs

This section describes the CA Common Services for z/OS components and their corresponding FMIDs that are required by CA SYSVIEW to perform various functions. For more complete and up-to-date information, see Installation Dependencies in the chapter “System Requirements” in the *CCS for z/OS Getting Started Guide*.

Two sets of FMIDs are provided:

- The first set of FMIDs are based on CCS for z/OS 14.0.
- The second set is based on CCS for z/OS r14.1.

CA LMP (License Management Program)

The following CCS for z/OS components are required to validate base product licensing for CA SYSVIEW.

- The FMID based on CCS for z/OS v14:

FMID	Component
CAS9E00	CAIRIM

- The FMIDs based on CCS for z/OS r14.1:

FMID	Component
CAS9E10	CAIRIM

CA MASTER

The following CCS for z/OS components are required for the CA SYSVIEW interface to the CAMASTER services.

- The FMID based on CCS for z/OS v14:

FMID	Component
CEI0E00	CA MASTER

- The FMIDs based on CCS for z/OS r14.1:

FMID	Component
CEI0E10	CA MASTER

Interface to IBM Health Checker

The following CCS for z/OS component is required for the CA SYSVIEW interface to the IBM Health Checker.

The FMID based on CCS for z/OS r14.1:

FMID	Component
CEF5E10	CA Health Checker Common Service

Note: For information on additional setup and configuration steps that must be completed, see the *CCS for z/OS Administration Guide*.

CA zIIP Enablement Services

The following CCS for z/OS component is required for the CA SYSVIEW interface to the CA zIIP Enablement Services.

- The FMID based on CCS for z/OS r14:

FMID	Component
CAS9E00	CAIRIM

- The FMID based on CCS for z/OS r14.1:

FMID	Component
CAS9E10	CAIRIM

Appendix B: Interface Options

This section contains the following topics:

[TSO and CA Roscoe/ETSO Interface Support](#) (see page 181)

[ISPF Interface Support](#) (see page 182)

[VTAM Interface Support](#) (see page 183)

[CICS Interface Support](#) (see page 184)

[Console Interface Support](#) (see page 186)

[Local 3270 Device Interface Support](#) (see page 188)

[Batch Interface Support](#) (see page 188)

TSO and CA Roscoe/ETSO Interface Support

The timesharing option (TSO) and the CA Roscoe/Extended timesharing option (CA Roscoe/ETSO) interface let you access CA SYSVIEW from TSO or CA Roscoe/ETSO.

You can use the CA SYSVIEW TSO interface or the CA Roscoe/ETSO interface without performing additional installation steps.

Note: Add a STEPLIB or JOBLIB DD statement when the *sysview.CNM4BLOD* data set is not in the linklist. This addition lets you use the TSO interface for accessing CA SYSVIEW.

The TSO command module for CA SYSVIEW is named SYSV.

Access CA SYSVIEW from CA Roscoe/ETSO

After you install the CA Roscoe/ETSO interface, you can access CA SYSVIEW from CA Roscoe/ETSO.

Follow these steps:

1. Add an entry for the SYSV program name to the Eligible Program List (EPL).

MODESET authorization flag

Sets the MODESET authorization flag when the flag is set to Y (yes).

Command processor flag

Sets the command processor flag when the flag is set to CP (command processor).

2. Add the *sysview.CNM4BLOD* data set to the ETSOLIB DD statement in the ROSCOE JCL.

3. Enter the following command on the CA Roscoe/ETSO command line:

```
CALL SYSV
```

CA SYSVIEW initiates under CA Roscoe/ETSO.

Note: For detailed information about defining applications to CA Roscoe/ETSO, see the CA Roscoe documentation.

ISPF Interface Support

The ISPF interface lets CA SYSVIEW run under ISPF to take advantage of the ISPF split-screen capabilities.

Installing ISPF support consists of copying members from the data set *sysview.CNM4BISP* to the appropriate ISPF DD statement in your TSO logon PROC.

Note: If you are reinstalling ISPF interface support, then also install the new ISPF panels and the GSVXCMD5 member.

Install ISPF Support Permanently

You can install ISPF support permanently to use the ISPF split-screen capabilities.

Follow these steps:

1. Copy the GSVXCMD5 member in the data set *sysview.CNM4BISP* to a data set pointed to by the ISPTLIB DD statement in your TSO logon PROC.

Note: Specify a user-defined data set, if possible.

2. Copy the following members from the data set *sysview.CNM4BISP* to a data set pointed to by the ISPLLIB DD statement in your TSO logon PROC:

- GSVX000M
- GSVX000J
- GSVX000D
- GSVX00KM
- GSVX000P
- GSVX00KP

Note: Specify a user-defined data set, if possible.

3. Update the ISPF Primary Option Menu member `ISR@PRIM` with the statements that contain `SYSV` or `GSVX` in the `sysview.CNM4BISP(SAM@PRIM)` member. The `ISR@PRIM` member is in a data set pointed to by the `ISPPLIB` DD statement in your TSO logon PROC.

CA `SYSVIEW` appears on the ISPF Main Menu as a selection option.

Note: Add a `STEPLIB` or `JOBLIB` DD statement when the `sysview.CNM4BLOD` data set is not in the linklist. This addition lets you use the ISPF interface for accessing CA `SYSVIEW`.

Install ISPF Support Dynamically

You can also install ISPF support dynamically to use the ISPF split-screen capabilities.

Follow these steps:

1. Use the `SYSVCLST` member or the `SYSVREXX` member from the data set `sysview.CNM4BSAM` to access the ISPF `LIBDEF` facilities.
These members use the ISPF `LIBDEF` facilities.
2. Temporarily allocate the panels, tables, and modules that are required to invoke CA `SYSVIEW`.

The dynamic installation of the ISPF support is complete.

VTAM Interface Support

The VTAM interface lets CA `SYSVIEW` run under VTAM. Using the IBM ACF/VTAM Programmed Operator Interface, you can enter VTAM commands and see the results from within CA `SYSVIEW`.

Install VTAM Support

After you install the VTAM interface support, you can use CA `SYSVIEW` from VTAM.

Follow these steps:

1. Copy the `SYSVAPPL` member from the data set `sysview.CNM4BSAM` to the `SYS1.VTAMLST` data set.

The following support is now available from the data set `SYS1.VTAMLST`:

- The APPLIDs used when using CA `SYSVIEW` with VTAM.
- The APPL statements the CA `SYSVIEW` VTAM command uses.

2. Set the ACBNAME parameter on the first APPL statement in the SYSVAPPL member. Select the name to use when logging in to CA SYSVIEW through the VTAM interface. Use that name when you start the VTAM interface.

The CA SYSVIEW VTAM command uses the remaining APPL statements (named SYSVPO00 through SYSVPO03) to submit commands to ACF/VTAM. The four APPL statements provide support for users who are using the VTAM command concurrently. To increase this number, add additional APPL statements incrementing the numeric suffix of the SYSVPO n APPL name by one for each APPL added.

3. Add the SYSVAPPL name to the ATCCON member in the SYS1.VTAMLST data set.

The SYSVAPPL member activates when VTAM starts.

4. Add the CA SYSVIEW USSTAB entry that is in the USSTAB member in the data set *sysview.CNM4BSAM* to your installation USSTAB member.

This entry simplifies the CA SYSVIEW logon procedure.

If you do not use the USSTAB entry, use the complete LOGON command to log in to CA SYSVIEW from VTAM.

5. Set the CMD and DEFAULT parameters in the USSTAB member to the value you used for the ACBNAME parameter in Step 2 of this procedure.

6. Assemble the USSTAB table and place it in the appropriate data set in your VTAMLIB concatenation.

Note: Skip this step if your site already has a suitable USSTAB available.

7. Reload the USSTAB in VTAM using the MODIFY TABLE command.

The changes for CA SYSVIEW are incorporated into your system. VTAM interface support is installed.

Note: For information about how to start the VTAM interface, see the *Administration Guide*.

CICS Interface Support

CICS interface support lets you access CA SYSVIEW from a CICS session and monitor and customize the interface.

The CICS interface does not require the CICS data collection option to be active.

Note: After you have installed CICS interface support and before you can log in, start the CICS interface in the CA SYSVIEW user address space. For information about starting and using the CICS interface, see the *Administration Guide*.

CICS User ID Exit Routine

The following information describes the CICS user ID exit routines:

- The user ID exit routine obtains the user ID of a CICS user. This routine provides the appropriate CA SYSVIEW profile data set member for the online interface. The user ID is also used for CA SYSVIEW security.
- The default user ID exit distributed in the CA SYSVIEW load library does not pass a user ID back to CA SYSVIEW. Therefore, CA SYSVIEW prompts the user for a user ID.
- The source for the default exit is in the GSVXCXT1 member of the *sysview.CNM4BSAM* data set. You do not need to assemble it.

Modify the Exit to Use Your Security System

Some CICS systems have their own exit security system. You can alter the exit to obtain user IDs from the control blocks of your security system.

Follow these steps:

1. Obtain the GSVXCXT1 member from the *sysview.CNM4BSAM* data set.
2. Alter the GSVXCXT1 member to meet your security needs.
3. Assemble the GSVXCXT1 member and link it into the data set *sysview.CNM4BLOD* with the name GSVXCXT1.

Your security system is defined to CA SYSVIEW.

CICS Transaction Termination Exit Routine

A description of the CICS transaction termination exit routine follows:

- The routine can pass control to another transaction at CA SYSVIEW online interface transaction termination time.
- The source for the default exit is in the GSVXCXT2 member in the *sysview.CNM4BSAM* data set. You do not need to assemble it.

Modify the Transaction Termination Exit

You can alter the transaction termination exit to specify the transaction to which control is passed.

Follow these steps:

1. Obtain the GSVXCXT2 member from the data set *sysview.CNM4BSAM*.
2. Alter the GSVXCXT2 member to meet your needs.
3. Assemble the GSVXCXT2 member and link it into the data set *sysview.CNM4BLOD* with the name GSVXCXT2.

Control is passed to the transaction you specified.

Console Interface Support

The CA SYSVIEW console interface, which lets you communicate with and execute CA SYSVIEW commands from a console, is implemented through the product CA GSS. CA GSS is installed with CA Common Services for z/OS, which is also required for the licensing of CA SYSVIEW.

How CA GSS Communicates with CA SYSVIEW

CA GSS communicates with CA SYSVIEW through the supplied application program interface GSVXAPIE.

During initialization, CA GSS communicates as follows:

- Starts a server that attaches a long-running session with CA SYSVIEW. The default server name is SYSVCONS. All console commands that are directed to CA SYSVIEW are routed through this server.
- Executes the IMOD `$_SYSVIEWE_INIT`. This IMOD starts CA SYSVIEW services.

During termination, CA GSS executes the IMOD `$_SYSVIEWE_TERM`. This IMOD terminates CA SYSVIEW services.

Enabling the Console Interface

Before the console interface can be enabled, the following conditions must be met:

- CA SYSVIEW must be installed.
- CA GSS must be installed and active.
- The following statements must be in the CA GSS run-time parameter member RUNPARM:

```
COMMAND VERB SYSV IMOD SYSVIEW_CONSOLE  
PRODUCT SYSVIEWE  
ADDRESS SYSVIEWE GSVXAPIE 15 DETACH TYPE 0  
ISET    SYSVIEWE DSN sysview.CNM4BIMD SSID ISRV LOAD
```

Note: The RUNPARM member may already contain some or all of the preceding statements. The SAMPLIB member GSS contains these statements.

Customize the Console Interface

You can customize the console interface to meet the needs of your site.

Follow these steps:

1. Select any or all of the following options in the IMOD SYSVIEW_CONSOLE:
 - Attach a prefix to all output messages.
 - Specify a WTO route code.
 - Specify WTO descriptor codes.
 - Specify maximum message length.
 - Display the end of data line.
 - Specify the maximum number of data lines.
2. Customize and save each option.

When you finish, your console interface is customized.

Local 3270 Device Interface Support

The CA SYSVIEW local 3270 device interface lets you run the product in a dedicated mode from any locally attached 3270 device. Copy the SYSVLCL PROC from the *sysview.SAMPJCL* data set to one of your system procedure libraries to install the interface.

Use this interface:

- To start a session with CA SYSVIEW, even when TSO and VTAM are not active.
- When JES is not active.
- If the SYSVLCL PROC is placed in SYS1.PROCLIB and you specify SUB=MSTR when you start the procedure.

Note: For information about how to start the SYSVLCL local 3270 device interface procedure, see the *Administration Guide*.

Batch Interface Support

The batch interface lets you perform batch processing in CA SYSVIEW. No installation procedures are required to use the batch interface.

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

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