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**z/OS**

# **SECURITY TECHNICAL IMPLEMENTATION GUIDE**

**Addendum**

**Version 6 Release 22**

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**Developed by DISA for the DoD**

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# 1 Introduction

A core mission for the Defense Information Systems Agency (DISA) Field Security Operations (FSO) is to secure Department of Defense (DoD) Computing systems. The processes and procedures outlined in this Security Technical Information Guide (STIG) Checklist, when applied, will decrease the risk of unauthorized disclosure of sensitive information. Security is clearly still one of the biggest concerns for our DoD customers, for example, the war fighter.

## 1.1 Background

This STIG Checklist was developed to enhance the confidentiality, integrity, and availability of sensitive DoD Automated Information Systems (AIS).

## 1.2 Authority

DoD Instruction (DoDI) 8500.01 requires that “all IT that receives, processes, stores, displays, or transmits DoD information will be [...] configured [...] consistent with applicable DoD cybersecurity policies, standards, and architectures” and tasks that Defense Information Systems Agency (DISA) “develops and maintains control correlation identifiers (CCIs), security requirements guides (SRGs), security technical implementation guides (STIGs), and mobile code risk categories and usage guides that implement and are consistent with DoD cybersecurity policies, standards, architectures, security controls, and validation procedures, with the support of the NSA/CSS, using input from stakeholders, and using automation whenever possible.” This document is provided under the authority of DoDI 8500.01.

Although the use of the principles and guidelines in these SRGs/STIGs provide an environment that contributes to the security requirements of DoD systems, applicable NIST SP 800-53 cybersecurity controls need to be applied to all systems and architectures based on the Committee on National Security Systems (CNSS) Instruction (CNSSI) 1253. The use of the principles and guidelines in this STIG Checklist will provide an environment that meets or exceeds the security requirements of DoD systems operating at the Mission Assurance Category (MAC) II Sensitive level, containing sensitive information.

It should be noted that Field Security Operations (FSO) support for the STIG Checklists and Tools is only available to DoD Customers.

## 1.3 Scope

The requirements set forth in this document will assist Information Assurance Managers (IAM), Information Assurance Officers (IAO/SA), Network Security Officers (NSO), and System Administrators (SAs) in support of protecting DoD Virtual Computing systems.

The Information Operations Condition (INFOCON) for the DoD recommends actions during periods when a heightened defensive posture is required to protect DoD computer networks from

attack. The IAO will ensure compliance with the security requirements of the current INFOCON level and will modify security requirements to comply with this guidance. Password length and complexity given throughout this document must be adjusted as needed to comply with INFOCON guidance.

## 1.4 Vulnerability Severity Code Definitions

	DISA Category Code Guidelines
<b>CAT I</b>	Any vulnerability, the exploitation of which will, <b>directly and immediately</b> result in loss of Confidentiality, Availability, or Integrity.
<b>CAT II</b>	Any vulnerability, the exploitation of which <b>has a potential</b> to result in loss of Confidentiality, Availability, or Integrity.
<b>CAT III</b>	Any vulnerability, the existence of which <b>degrades measures</b> to protect against loss of Confidentiality, Availability, or Integrity.

Any **NOTE** sections are strong recommendations that further enhance the security posture of the asset being discussed.

## 1.5 DISA Information Assurance Vulnerability Management (IAVM)

The DoD has mandated that all IAVMs are received and acted on by all commands, agencies, and organizations within the DoD. The IAVM process provides notification of these vulnerabilities and alerts require that each of these organizations take appropriate actions in accordance with the issued alert. IAVM notifications can be accessed at US Cyber Command (CYBERCOM) web site: <https://www.cybercom.mil/J3/IAVM/default.aspx>.

## 1.6 STIG Checklist Distribution

Parties within the DoD and Federal Government's computing environments can obtain the applicable STIG Checklist from the Information Assurance Support Environment (IASE) web site. This site contains the latest copies of any STIGs, STIG Checklists, as well as checklists, scripts, and other related security information. The NIPRNet URL for the IASE site is <http://iase.disa.mil/>.

## 1.7 Document Revisions

Comments or proposed revisions to this document should be sent via e-mail to [disa.letterkenny.FSO.mbx.stig-customer-support-mailbox@mail.mil](mailto:disa.letterkenny.FSO.mbx.stig-customer-support-mailbox@mail.mil). DISA FSO will coordinate all change requests with the relevant DoD organizations before inclusion in this document.



## 2 Introduction to z/OS

Addendum to VMS for z/OS-related update information - The purpose of this is to contain tables, etc. that VMS does not accommodate at the current time.

Cross Ref Section

-Use spreadsheet "PDI Table Xref" during development, copy into addendum when complete.

Common Tables

### 2.1 z/OS Background

Operating System Security Design for most mainframe information systems deployed throughout DoD use the International Business Machines (IBM) z/OS operating system. Controls within z/OS have been developed and documented in IBM references to ensure operating system integrity is maintained.

Security mechanisms that provide MAC II Sensitive level controls for the z/OS operating environments are implemented by the addition of Access Control Products (ACPs). The ACPs currently in use throughout DoD are listed below:

- Access Control Facility 2 (ACF2) - Computer Associates (CA)
- Resource Access Control Facility (RACF) - IBM Corporation<sup>1</sup>
- TOP SECRET (TSS) - Computer Associates (CA)

To maintain the integrity of the site, the ACP must be properly installed and configured. Options specified during the installation and techniques involved in the administration of these products can reduce the assurance introduced into the individual operating environment. As a result, guidance is needed on how these products should be configured in the operational environment.

The System Authorization Facility (SAF) provides an installation with centralized control over system security processing through a system service called the MVS router. The MVS router provides a focal point for all products that provide resource management. Access to the MVS router is via the **RACROUTE** macro, which invokes the router program itself. The router in turn invokes the ACP to determine if authorization exists for the resource being tested.

This concept provides a single interface that encourages the use of common functions across products and platforms. Products that interface via SAF calls can be protected with any of the three ACPs discussed in this document without modification of their interface code.

**All new software acquired for or developed by DoD will fully utilize the SAF interface. Existing software that fails to utilize the SAF interface will be converted to do so where possible.**

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<sup>1</sup> IBM has renamed RACF as the z/OS Security Server. In the interest of brevity, clarity, and continuity this document continues to refer to the product as RACF.

## 2.2 z/OS Authority

DoD Instruction (DoDI) 8500.01 requires that “all IT that receives, processes, stores, displays, or transmits DoD information will be [...] configured [...] consistent with applicable DoD cybersecurity policies, standards, and architectures” and tasks that Defense Information Systems Agency (DISA) “develops and maintains control correlation identifiers (CCIs), security requirements guides (SRGs), security technical implementation guides (STIGs), and mobile code risk categories and usage guides that implement and are consistent with DoD cybersecurity policies, standards, architectures, security controls, and validation procedures, with the support of the NSA/CSS, using input from stakeholders, and using automation whenever possible.” This document is provided under the authority of DoDI 8500.01.

Although the use of the principles and guidelines in these SRGs/STIGs provide an environment that contributes to the security requirements of DoD systems, applicable NIST SP 800-53 cybersecurity controls need to be applied to all systems and architectures based on the Committee on National Security Systems (CNSS) Instruction (CNSSI) 1253.

The use of the principles and guidelines in this document will provide an environment that meets or exceeds the security requirements of DoD systems operating at the MAC II Sensitive level, containing unclassified but sensitive information.

## 2.3 z/OS Scope

The requirements set forth in this document will assist Information Assurance Managers (IAMs), Information Assurance Officers (IAOs), System Administrators (SAs), and systems programming personnel in support of protecting z/OS operating systems, ACPs, and IA-enabled products in the following sites:

- Systems Management Centers (SMCs)
- Computing Services Processing Element (CSPE)
- Systems Support Offices (SSOs)
- DoD Components
- Other DoD customers

## 2.4 z/OS Vulnerability Severity Code Definitions

	DISA Category Code Guidelines
<b>CAT I</b>	Any vulnerability, the exploitation of which will, <b>directly and immediately</b> result in loss of Confidentiality, Availability, or Integrity.
<b>CAT II</b>	Any vulnerability, the exploitation of which <b>has a potential</b> to result in loss of Confidentiality, Availability, or Integrity.

**CAT III**

Any vulnerability, the existence of which **degrades measures** to protect against loss of Confidentiality, Availability, or Integrity.

## **2.5 z/OS STIG Checklist Distribution**

Parties within the DoD and Federal Government's computing environments can obtain the applicable STIG from the Information Assurance Support Environment (IASE) web site. This site contains the latest copies of any STIG, as well as checklists, scripts, and other related security information. The NIPRNet URL for the IASE site is <http://iase.disa.mil/>.

## **2.6 z/OS Document Revisions**

Comments or proposed revisions to this document should be sent via e-mail to [disa.letterkenny.FSO.mbx.stig-customer-support-mailbox@mail.mil](mailto:disa.letterkenny.FSO.mbx.stig-customer-support-mailbox@mail.mil). DISA FSO will coordinate all change requests with the relevant DoD organizations before inclusion in this document.

## **2.7 z/OS Additional Access/Logging Restrictions**

Data set and Resource access documented in the vulnerabilities establishes the basic access requirements. At the IAO discretion additional control maybe implemented to provide additional restrictions. An example of additional controls would be the use of program pathing to restrict access to a data set or resource when a specific program and/or program mask is used.

Data set and Resource logging requirements documented in the vulnerabilities specifies where successful access logging starts. By default all violations to access a data set and/or resource will require that logging be performed.

### 3 z/OS Privileged Users

Due to its architecture and its structure, the mainframe, definition of a Privileged user will refer to any users or tasks that require a level of access that provides for Control, monitoring, or administration of the Mainframe platform.

Roles commonly known as:

System Programmers

System Security Administrators

Operators

Tape Librarians

Storage Administrators

Automation Specialist

Schedulers

Application Support Teams (Domain level)

Any team member who has physical access to the data center and data storage

Members of these teams will be granted special privileges and special accesses that will be controlled by the Systems ACP (Access Control Program). **For the purpose of references in the z/OS STIG Checklist, the individuals listed above will refer only to personal under the management and control of the Data Center.** These individuals will be assigned by and be the responsibility of the Site IAM

For example references to System Programmers in the z/OS STIG Checklist will be as follows:

For the purpose of the z/OS STIG Checklist, a Systems Programmer will be defined as those individuals who are responsible for the z/OS systems software and z/OS systems products. They are the individuals who will have Level 1 responsibility to keep the z/OS Operating System software and its associated System Software Products functioning in a stable and well maintained status and will be under management and control of the data center. These individuals will be assigned by the Site IAM to perform these duties.

System programmers include such roles/functions as: OS System Programmer, DASD or Storage Administrators, CICS System Programmer, MQ Series System Programmer, Communications System Programmer, Database System Programmer (including not limited to IDMS, IMS, DB2, ADABAS, ORACLE, etc – DBA's who install executive software on the Mainframe)

The following table identifies which users or types of users can be identified in the specified Authorized User group. These Authorized User groups are specified throughout this document.

User Group	Description
APPDAUDT	Application Development Programmers. Users that maintain and develop application programs for the customer base.
AUDTAUDT	Auditors whether they are System, Security, or other. This can be any user

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User Group	Description
	that performs any type of auditing on the system. These users can be an actual person, batch user, or STC.
AUTOAUDT	Automated Operation STCs/Batch Jobs. STC and/or Batch users that perform any type of automated operations control on the system.
CHGOWNER	Users authorized to issue the chown in UNIX.
CONSOLES	The System Console user ids.
DABAAUDT	Data Base Administrators. Users that maintain and administer the data bases and the data base product software on the system. These users also perform backup and recovery of the data bases.
DAEMAUDT	Unix Daemon user ids.
DASBAUDT	DASD batch, jobs that perform DASD Backups, Migrate. Batch and/or STC users that perform DASD maintenance functions.
DASDAUDT	DASD Administrators. Users that administers DASD functions on the entire operating system. These users can perform a complete backup and recovery of the DASD farm.
DUMPAUDT	STCs/Batch ids that perform Dump processing. STC and/or Batch users that generate system level dumps.
EMERAUDT	Emergency TSO logon ids
MQSAAUDT	MQ Series Administrators. Users that define and administer the WebSphere MQ environment on the system.
OMVSAUDT	The OMVS started task kernel.
OPERAUDT	Operations personnel. Users that have direct access to the hardware components of the operating system.
PARMSTC	Users that have READ access justification via IAO. These users are STCs and/or batch jobs that obtain their configuration settings from the Logical parmlib concatenation.
PCSPAUDT	Production Control and Scheduling personnel. Users that have domain level control of all scheduling of batch processes on the system. Not users that schedule specific application batch jobs.
PRODAUDT	Production Started Tasks and batch logon ids
SECAAUDT	Security Administrators. Domain Level I security administrators, these users have total control over the administration of the ACP.
SECBAUDT	Security batch, jobs that perform ACP maintenance. Batch and/or STC users that perform security maintenance.
SECDAUDT	Decentralized Security Administrators
SERVAUDT	Unix Server user ids
SMFBAUDT	STCs/BATCH ids that perform SMF dump processing
STCGAUDT	STCs ids, that perform GTF processing
SUPRAUDT	User ids that require BPX.SUPERUSER
SYSPAUDT	Systems Programmers or Systems Administrators. Users that perform installation and maintenance on the operating system and vendor software.
TAPEAUDT	Tape Librarians, CA1 Prod Batch Jobs, and CA1 STCs. Users that perform control, initialization, and maintenance of a systems tape library.

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<b>User Group</b>	<b>Description</b>
TSTCAUDT	Trusted Started Tasks users. See list in TRUSTED STARTED TASKS in the z/OS STIG Addendum.
WEBAAUDT	Web Server Administrators

## 4 z/OS UNIX System Services

### 4.1 z/OS UNIX System Services Background

z/OS UNIX System Services, abbreviated by IBM as z/OS UNIX, provides a UNIX environment to z/OS users. It is now a base component of the z/OS operating system, conforms to the XPG4 UNIX 1995 standard (with UNIX 98 elements), and offers services designed to support applications written to open systems standards. z/OS UNIX also provides z/OS users the traditional UNIX structure for data storage through the Hierarchical File System (HFS) / zSeries File System (zFS). Finally z/OS UNIX supports the UNIX User Identifier (UID) and Group Identifier (GID) concepts that establish identity in the UNIX environment.

In z/OS UNIX, security is handled, in part, through the UID and GID constructs that identify users and groups. This security impacts file access and process (e.g., z/OS task) control. While it is possible in some environments for multiple users to be assigned the same UID, this does not provide a desirable level of security.

z/OS UNIX provides an operating environment that can host many services such as File Transfer Protocol (FTP) and z/OS UNIX Telnet servers. In addition, z/OS components such as Communications Server provide support to z/OS UNIX. This section of this document is intended to describe the security considerations for the z/OS UNIX environment and does not cover these supporting and supported components in appropriate detail. Please check other sections of this document and the pertinent vendor documentation for security considerations for these other components.

### 4.2 z/OS UNIX General Considerations

Because of the scope of z/OS UNIX and its difference from the traditional MVS environment, there are a number of considerations that must be addressed to understand the security implications. In this section, security considerations for the following areas are discussed:

- User Identity - UID and GID Assignment
- Data Storage - HFS / zFS Directories and Files
- Interactive Environment - The UNIX Shell
- Background Processes - Daemons and Servers
- Miscellaneous Considerations

These considerations are discussed in general to explain the z/OS UNIX environment. This background is used when discussing the specific controls that are used to implement security policy.

**Table 1 - General FACILITY Class BPX Resources**

Referenced by: ZUSS0021

GENERAL FACILITY CLASS BPX RESOURCES	
RESOURCE NAME	DESCRIPTION/NOTES
BPX.DAEMON	Allows a daemon to use the seteuid, setuid, setreuid, and spawn services.
BPX.DEBUG	Allows a user to use ptrace (via dbx) to debug programs that run with APF authority or with BPX.SERVER authority.
BPX.FILEATTR.APF	Allows a user to set the APF-authorized attribute in an HFS file.
BPX.FILEATTR.PROGCTL	Allows a user to set the program-controlled attribute in a HFS file. This attribute is required, in most cases, for all programs executed by daemons or servers.
BPX.JOBNAME	Allows a user to set jobnames using the _BPX_JOBNAME environment variable or the inheritance structure on spawn.
BPX.SAFFASTPATH	Enables SAF fastpath support. This means that successful security checks are not audited. No access list is needed; the existence of the profile enables the function.
BPX.SERVER	<p>READ: Allows the server to establish a thread-level security environment for its clients. Access control decisions are based on the server's userid and the client's userid unless the server specifies a password on the service invocation.</p> <p>UPDATE: Allows the server to establish a thread-level security environment for its clients. Access control decisions are based only on the client's userid.</p> <p>The pthread_security_np (create/delete security environment) and the auth_check_resource_np (resource authorization checking) services are used.</p> <p>Also see the BPX.SRV.userid profile description.</p>
BPX.SMF	Allows a user to write an SMF record or test if an SMF type or subtype is being recorded.
BPX.STOR.SWAP	Allows a user to make address spaces non-swappable or swappable.
BPX.SUPERUSER	Allows a user to switch to superuser authority (i.e., effective UID of 0).



GENERAL FACILITY CLASS BPX RESOURCES	
RESOURCE NAME	DESCRIPTION/NOTES
BPX.WLMSERVER	Allows a user to access Work Load Manager (WLM) server functions and C language WLM interfaces. These functions and interfaces are commonly used by server applications. Also see the BPX.SERVER profile description.

**Table 2 - UNIXPRIV Class Resources**

Referenced by: ZUSS0023

<i>UNIXPRIV CLASS RESOURCES</i>	
<i>RESOURCE NAME</i>	<i>DESCRIPTION/NOTES</i>
CHOWN.UNRESTRICTED <sup>2</sup>	Allows all z/OS UNIX users to transfer ownership for files they own to any UID or GID on the system. No access list is needed; the existence of the profile enables the function. Therefore the resource will not be defined.
SHARED.IDS (RACF only)	Allows users to assign UID and GID values that are not unique. To specify non unique UID or GID users must specify the SHARED keyword in the RACF AG, AU, ALG, and ALU commands. These users must have the SPECIAL attribute or at least READ authority to the resource. Therefore resource will be defined with no access given to users.
SUPERUSER.FILESYS	READ: Allows the user to read any HFS file and to read or search any HFS directory. UPDATE: Allows the user to write to any HFS file and includes <i>read</i> access. CONTROL: Allows user to write to any HFS directory and includes <i>update</i> access. <i>NOTE:</i> Allows access only to local HFS files, not to NFS files.
SUPERUSER.FILESYS.CHANGEPERMS	READ: Allows a user/group to do a CHMOD to any file.
SUPERUSER.FILESYS.CHOWN	READ: Allows the user to change the ownership of any file.
SUPERUSER.FILESYS.MOUNT	READ: Allows the user to mount a file system with the nosetuid option and to unmount a file system mounted with the nosetuid option. UPDATE: Allows the user to mount a file system with the setuid option and to unmount a file system mounted with the setuid option.

<sup>2</sup> The CHOWN.UNRESTRICTED profile defeats a basic file ownership protection, and must not be defined unless justified and documented to the IAO.

<i>UNIXPRIV CLASS RESOURCES</i>	
<i>RESOURCE NAME</i>	<i>DESCRIPTION/NOTES</i>
SUPERUSER.FILESYS.QUIESCE	READ: Allows the user to quiesce and unquiesce a file system mounted with the nosetuid option. UPDATE: Allows the user to quiesce and unquiesce a file system mounted with the setuid option.
SUPERUSER.FILESYS.PFSCTL	READ: Allows the user to use the pfsctl() (physical file system control) callable service.
SUPERUSER.FILESYS.VREGISTER	READ: Allows a server to use the v_reg() callable service to register as a virtual file system (VFS) file server.
SUPERUSER.IPC.RMID	READ: Allows the user to issue the ipcrm command to release IPC (Interprocess Communication) resources.
SUPERUSER.PROCESS.GETPSENT	READ: Allows the user to use the w_getpsent callable service to receive process status data for any process.
SUPERUSER.PROCESS.KILL	READ: Allows the user to use the kill() callable service to send signals to any process.
SUPERUSER.PROCESS.PTRACE	READ: Allows the user to use the ptrace() function through the dbx debugger to trace any process. Also allows users of the ps command to output information on all processes. <i>NOTE:</i> Authorization to FACILITY class resource BPX.DEBUG is required to trace processes that run with APF authority or BPX.SERVER authority.
SUPERUSER.SETPRIORITY	READ: Allows the user to increase that user's own priority.

**Table 3 - MVS Data Sets with z/OS UNIX Components**

Referenced by: ZUSS0032

<i>MVS DATA SETS WITH z/OS UNIX COMPONENTS</i>		
<i>DATA SET NAME/MASK</i>	<i>MAINTENANCE TYPE</i>	<i>FUNCTION</i>
SYS1.ABPX*	Distribution	IBM z/OS UNIX ISPF panels, messages, tables, clists
SYS1.AFOM*	Distribution	IBM z/OS UNIX Application Services
SYS1.BPA.ABPA*	Distribution	IBM z/OS UNIX Connection Scaling Process Mgr.
SYS1.CMX.ACMX*	Distribution	IBM z/OS UNIX Connection Scaling Connection Mgr.

<i>MVS DATA SETS WITH z/OS UNIX COMPONENTS</i>		
<i>DATA SET NAME/MASK</i>	<i>MAINTENANCE TYPE</i>	<i>FUNCTION</i>
SYS1.SBPX*	Target	IBM z/OS UNIX ISPF panels, messages, tables, clists
SYS1.SFOM*	Target	IBM z/OS UNIX Application Services
SYS1.CMX.SCMX*	Target	IBM z/OS UNIX Connection Scaling Connection Mgr.

### 4.3 z/OS UNIX User Identity

Within UNIX systems, users are assigned a user name and password that allow identification and authentication when the system is accessed. Each user is also assigned a numeric identifier that is known as the UID. Users are members of one or more groups; each of these groups has a name and a numeric identifier that is known as the GID. While it is possible in some environments to assign multiple users the same UID, this is not done where meaningful security is desired.

There are no software-specific UID or GID numbers, with one exception. If a user is assigned a UID value of 0 (zero), the user has *superuser* status and effectively bypasses all security checks. There are a limited number of instances where superuser status is actually needed, and z/OS UNIX provides some security resources that can be used to further limit the need to assign UID(0) to users.

During a UNIX shell session or during the execution of commands with certain attributes, it is possible for a user to temporarily use a different UID or GID value than what was assigned. The userid defined to the security system and used at system sign-on is referred to as the real ID. The temporary userid used for a specific period or process is referred to as the effective ID. For this reason it is important to check the effective ID when researching access control issues.

### 4.4 z/OS UNIX Data Storage - HFS / zFS Directories and Files

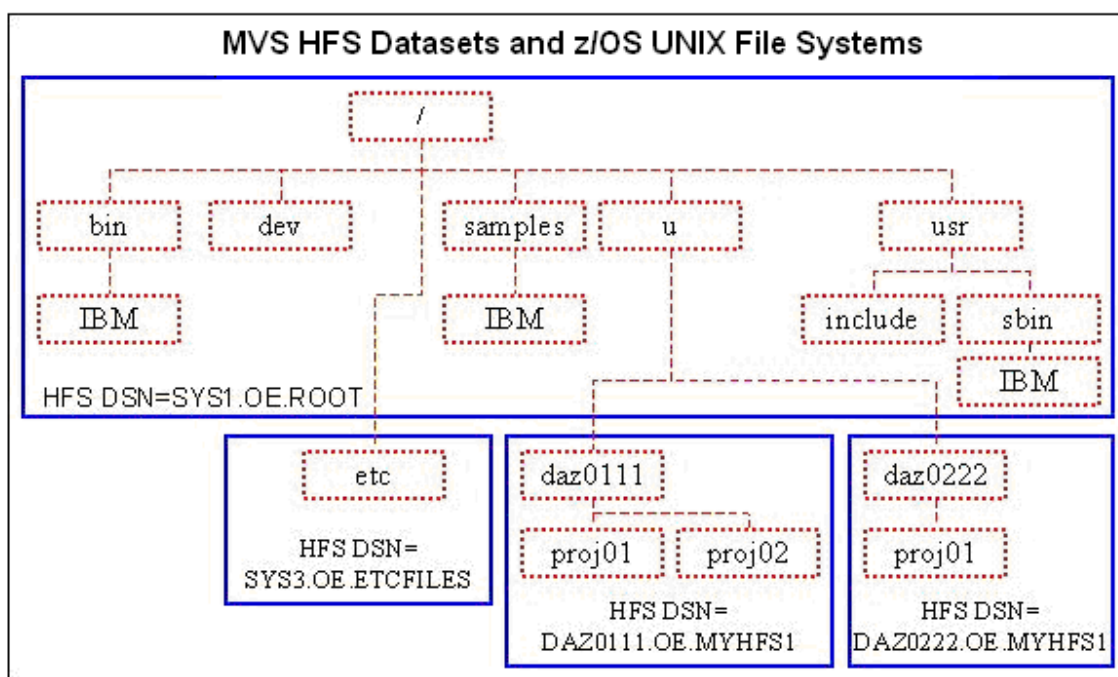
This section discusses the considerations related to data storage in the z/OS UNIX environment. These considerations include the logical and physical structures, file access permissions, extended attributes for executable files, and audit attributes. Understanding these considerations is important to setting and maintaining data and command security.

Hierarchical File System (HFS) / zSeries File System (zFS) is a tree structure consisting of multiple file systems. A file system is a logical collection of directories and files. The highest level directory in the hierarchy is the root directory; it is often kept in a file system with only a few other directories. Each file system is made available by a process known as mounting the file system. It is mounted at a *mount point* that is actually just a directory in the higher-level file system.

The entire file hierarchy is made up of a collection of HFS / zFS data sets. Each physical HFS / zFS data set is actually a mountable file system. This means that it can be attached to the HFS / zFS tree at a mount point that is in the root directory or at a mount point further down in the hierarchy. Each HFS / zFS data set needs data set access rules defined to protect it.

The following diagram illustrates the relationship between MVS HFS / zFS data sets and z/OS UNIX File Systems. This is an example with four MVS data sets (SYS1.OE.ROOT, SYS3.OE.ETCFILES, DAZ0111.OE.MYHFS1, and DAZ0222.OE.MYHFS1) corresponding to four z/OS UNIX file systems (*root*, *etc.*, *daz0111*, *daz0222*).

**Figure 4-1: MVS HFS Datasets and Z/OS UNIX File Systems**



To provide granularity in access control, there are three sets of permission bits to accommodate three categories of users whose access can be individually controlled:

- Owner** - The user who's UID matches the UID in the FSP
- Group** - A member of the group who's GID matches the GID in the FSP
- Other** - Anyone else

When permission bits are displayed in command output or used as command operands, they sometimes appear as a string of alphabetic characters and sometimes as a string of octal digits that correspond to these categories. For example, a file can have permissions set to "rwx r-- ---", where "rwx" applies to the owner, "r--" to the group, and "---" to other. This would be expressed digitally as 740 where 7 applies to the owner, 4 to the group, and 0 to other.

The following tables show the permission bits, their alphabetic symbolic notation, their octal values, and their meaning:

**Table 4 - Permission Bits**

PERMISSION BITS			
PERMISSION	SYMBOLIC NOTATION	OCTAL VALUE	MEANING FOR FILE OR DIRECTORY
Read	r	4	Directory: Allows the user to read, but not search, contents. File: Allows the user to read or print contents. <i>NOTE:</i> Running shell scripts requires read and execute.
Write	w	2	Directory: Allows the user to change the directory, adding or deleting members. File: Allows the user to change the file, adding or deleting data.
Execute	x	1	Directory: Allows the user to search the directory. File: Allows the user to run the executable program. <i>NOTE:</i> Running shell scripts requires read and execute.
no access	-	0	No access allowed.

There are additional permission bits that are used for special purposes. When in use, these bits may be displayed alphabetically in the *execute* position, with lower case indicating that the execute bit and special bit are both on. When displayed or used in a command in digital form, the value for these bits appears as an additional first digit in the string.

**Table 5 - Special Permission Bits**

SPECIAL PERMISSION BITS			
PERMISSION	SYMBOLIC NOTATION	OCTAL VALUE	MEANING FOR FILE OR DIRECTORY
set-user-ID set-group-ID	s/S	4 2	Used for an executable file, sets the effective userid and/or group ID of the user process executing the program to that of the file being executed. Allows a program to have temporary access to files (or potentially commands) that are not normally accessible.
sticky bit	t/T	1	Directory: Allows only the file owner, directory owner, or superuser to delete or rename files. File: Causes the search for an executable in the current STEPLIB, link pack area, or link list (the data in the HFS / zFS file is not loaded as the program).

These permissions are combined as required to allow the desired access.

The *chown*, *chgrp*, and *chmod* shell commands are provided. Refer to *z/OS UNIX Interactive Environment - The UNIX Shell*, for information on these commands.

**NOTE:** The ACF2 and TOP SECRET ACPs offer an option called CA SAF HFS / zFS security. If this option is enabled, file mode checking is bypassed in favor of access rules written for the ACP. However, because CA SAF HFS / zFS can be disabled, the standard UNIX file permissions must be maintained for system sensitive directories and files.

z/OS UNIX adds the feature of *extended attributes* that are meaningful for executable files. These extended attributes include the following:

**Table 6 - Extended Attributes**

EXTENDED ATTRIBUTES		
EXTENDED ATTRIBUTE	SYMBOLIC NOTATION	DESCRIPTION
APF-authorized	a	Executable program acts as if loaded from an APF-authorized MVS library.
Program-controlled	p	Executable program acts as if defined to program control in the ACP.
Shared	s	Executable foreground program runs in the same MVS address space as the user's z/OS shell. <b>NOTE:</b> This bit is on as the default for all executable files.

To maintain the extended attributes, the `extattr` shell command is provided. Refer to *Section z/OS UNIX Interactive Environment - The UNIX Shell*, in this document for information on this command.

z/OS UNIX adds a security extension in the form of audit attributes for files or directories. Audit attributes determine whether or not accesses to the object are audited by the System Authorization Facility (SAF) interface. The attributes can be set to audit successful access attempts (**s**), audit failed access attempts (**f**), audit all accesses (**a**), or do not audit access (**-**). To allow for both user and system auditing functions, there are two sets of audit attributes to accommodate two categories - user-requested and auditor-requested.

Within each category of audit attributes, the audit controls are as follows:

**Table 7 - Audit Bits**

AUDIT BITS		
AUDIT FLAG	ALPHA NOTATION	DESCRIPTION
Read	s/f/a/-	Audit attempts for <i>read</i> access
Write	s/f/a/-	Audit attempts for <i>write</i> access
Execute	s/f/a/-	Audit attempts for <i>execute</i> access

To maintain the audit attributes, the **chaudit** shell command is provided. Refer to *z/OS UNIX Interactive Environment - The UNIX Shell*, in this document for information on this command.



**Table 8 - System Directory Security Settings****Note: Any Directory that uses AUTOMOUNT, does not require the specified settings.****Referenced by:** ZUSS0016, ZUSS0034

<i>SYSTEM DIRECTORY SECURITY SETTINGS</i>			
<i>DIRECTORY</i>	<i>PERMISSION BITS</i>	<i>USER AUDIT BITS</i>	<i>FUNCTION</i>
/ [root]	755	faf	Root level of all file systems. Holds critical mount points.
/bin	1755	fff	Shell scripts and executables for basic functions
/dev	1755	fff	Character-special files used when logging into the OMVS shell and during C language program compilation. Files are created during system IPL and on a per-demand basis.
/etc	1755	faf	Configuration programs and files (usually with locally customized data) used by z/OS UNIX and other product initialization processes
/lib	1755	fff	System libraries including dynamic link libraries and files for static linking
/samples	1755	fff	Sample configuration and other files
/tmp	1777	fff	Temporary data used by daemons, servers, and users. <i>NOTE:</i> /tmp must have the sticky bit on to restrict file renames and deletions.
/u	1755	fff	Mount point for user home directories and optionally for third-party software and other local site files
/usr	1755	fff	Shell scripts, executables, help (man) files and other data. Contains sub-directories (e.g., lpp) and mount points used by program products that may be in separate file systems.
/var	1775	fff	Dynamic data used internally by products and by elements and features of z/OS UNIX.

**NOTE:** The sticky bit is set on to restrict file renames and file deletions or subdirectory deletions.

In addition, the following guidelines must be followed:

All directories (such as /tmp) with the *write* permission set for the other group must also have the sticky bit set.

Any directory (such as /tmp) with the *write* permission set for the other group must not contain any files with the following bits set:

- set-user-ID permission
- set-group-ID permission
- APF-authorized extended attribute
- Program control extended attribute

**Table 9 - System File Security Settings**

Referenced by: ZUSS0035, ZUSS0016

<i>SYSTEM FILE SECURITY SETTINGS</i>			
<i>FILE</i>	<i>PERMISSION BITS</i>	<i>USER AUDIT BITS</i>	<i>FUNCTION</i>
/bin/sh	1755	faf	z/OS UNIX shell <b>NOTE:</b> /bin/sh has the sticky bit on to improve performance.
/dev/console	740	fff	The system console file receives messages that may require System Administrator (SA) attention.
/dev/null	666	fff	A null file; data written to it is discarded.
/etc/auto.master and any <i>mapname</i> files	740	faf	Configuration files for automount facility
/etc/inetd.conf	740	faf	Configuration file for network services
/etc/init.options	740	faf	Kernel initialization options file for z/OS UNIX environment
/etc/log	744	fff	Kernel initialization output file
/etc/profile	755	faf	Environment setup script executed for each user
/etc/rc	744	faf	Kernel initialization script for z/OS UNIX environment
/etc/steplib	740	faf	List of MVS data sets valid for set-user-ID and set-group-ID executables
/etc/tablename	740	faf	List of z/OS userids and group names with corresponding alias names
/usr/lib/cron/at.allow /usr/lib/cron/at.deny	700	faf	Configuration files for the at and batch commands

<i>SYSTEM FILE SECURITY SETTINGS</i>			
<i>FILE</i>	<i>PERMISSION BITS</i>	<i>USER AUDIT BITS</i>	<i>FUNCTION</i>
/usr/lib/cron/cron.allow /usr/lib/cron/cron.deny	700	faf	Configuration files for the crontab command

Some of the files listed above (e.g., /etc/steplib) are not used in every configuration. While the absence of a file is generally not a security issue, the existence of a file that has not been properly customized can often be an issue. Therefore, all directories and files that do exist must have the specified permission and audit bit settings.

#### 4.5 z/OS UNIX Interactive Environment - The UNIX Shell

The z/OS UNIX shell is a command processor that allows users to do the following:

- Invoke shell commands or utilities
- Write shell scripts using the shell programming language
- Run shell scripts and C-language programs in the foreground, in the background, or in batch

This section describes the security considerations for the z/OS UNIX shell, including shell commands, shell access, interoperability between the shell and TSO/E, and built-in shell variables.

As with other interactive environments, there are certain commands available in the z/OS shell that have security implications. Most of these commands impact data security by altering security attributes for a directory or file; others impact system operation and user privileges. The most important of these commands are as follows:

**Table 10 - Security Impact Shell Commands**

SECURITY IMPACT SHELL COMMANDS		
COMMAND	DESCRIPTION	USER RESTRICTIONS
at <sup>3</sup>	Allows a user to run a series of commands at a specified later time, under control of the cron daemon.	Can be used by the superuser or users listed in the /usr/lib/cron/at.allow file.
automount	Configures the automount facility that mounts file systems at time of access.	Can only be used by a superuser. Started from /etc/rc.

<sup>3</sup> The at, batch, and crontab commands are used to manipulate the functions of the cron daemon. The default specified environment disables cron. The information is included here for the sake of completeness.

SECURITY IMPACT SHELL COMMANDS		
COMMAND	DESCRIPTION	USER RESTRICTIONS
batch	Allows a user to run a series of commands at a later time when the system is not busy, under control of the cron daemon.	Same as at command.
chaudit	Changes the audit attributes of files or directories. Audit attributes determine whether accesses to a file are audited by SAF.	Can only be used by the file owner or a superuser for non-auditor-requested audit attributes.
chgrp	Changes the GID for the specified file or directory.	By default, can be used only by the file owner or a superuser. The file owner must be a member of the group the file or directory is being changed to.
chmod	Changes the file modes (permission bits) for the specified file or directory.	By default, can be used only by the file owner or a superuser.
chown	Changes the UID and optionally the GID for the specified file or directory.	By default, the UID can only be changed by a superuser. Changes to the GID follow the rules for the chgrp command.
chroot	Changes the root directory to that specified in the command.	Can only be used by a superuser or a user with access to the BPX.SUPERUSER resource.
crontab	Allows a user to schedule a series of commands to be run on a regular basis, under control of the cron daemon.	Can be used by the superuser or users listed in the /usr/lib/cron/cron.allow file.
extattr	Sets, resets, and displays the extended attributes of executable files. Extended attributes include APF authorization, program control, and shared address space use.	Can only be used by the file owner or a superuser. The APF attribute requires access to the BPX.FILEATTR.APF resource. The program control attribute requires access to the BPX.FILEATTR.PROGCTL resource.

SECURITY IMPACT SHELL COMMANDS		
COMMAND	DESCRIPTION	USER RESTRICTIONS
su su userid	Starts a new shell with the security attributes of the superuser or a different user. When a different user is specified, the MVS identity is changed and MVS data set access is changed to that of the new MVS user. When issued as superuser (i.e., UID(0)) and BPX.DAEMON is defined, userid is switched to the value in BPXPRMxx SUPERUSER.	Access to superuser status requires access to the BPX.SUPERUSER resource. Access to a different user requires that user's password or access to the BPX.SRV.userid resource.
umask	Sets the file-creation permission mask. The mask specifies the default permissions that are not to be allowed when a file is created.	Not restricted

As indicated, security for each command depends on resource privileges that are accessible to the user. The default restrictions for these commands can change according to options available with the installed ACP. If CA SAF HFS / zFS security is enabled, commands that may have required superuser authority or access to UNIXPRIV class resources are controlled by BPX.CAHFS resources instead.

Access to the z/OS shell is possible from multiple origins:

TSO/E OMVS command - TSO/E users can enter the OMVS command to access the shell via a 3270 terminal interface.

rlogin - Users from another system can use the rlogin command to access the shell via an asynchronous terminal interface. The use of rlogin access is not permitted.

telnet - Users from another system can use the telnet command to access the shell via an asynchronous terminal interface.

z/OS Communication Server with an RS/6000 system - Users of terminals attached to serial ports on an RS/6000 that is connected to the host can log on directly via an asynchronous terminal interface.

While there are no implicit security implications to the access origin point, control of these facilities in their own environment may be desirable. There is a high degree of interoperability between MVS TSO/E and the z/OS shell. The following capabilities are provided:

Data can be moved between MVS data sets and files in a z/OS UNIX HFS / zFS file system.

Some TSO/E commands manipulate the HFS / zFS environment to perform tasks such as creating directories and mounting file systems.

TSO/E commands can be issued from the shell command line, from a shell script, or from a program.

MVS job control language (JCL) can include shell commands. The BPXBATCH utility provides this capability. For examples, refer to *The BPXBATCH Utility* in IBM's *z/OS UNIX System Services User's Guide* document, and *Appendix C. Running Shell Scripts or Executable Files under MVS Environments* in IBM's *z/OS UNIX System Services Command Reference*.

HFS / zFS files can be edited in TSO/E through ISPF/PDF or in the z/OS shell through editors such as ed, sed, and vi.

Extensions to the REXX language allow REXX programs to access callable services in the TSO/E, batch, shell, or C program environments.

The primary security implication resulting from these capabilities is that file and command access is based on the value of the z/OS userid and/or the z/OS UNIX UID and GID that are in effect at the time of file access or command execution.

Behavior within the z/OS shell can be altered by the values of data from built-in shell variables. Variables that have security implications are as follows:

**Table 11 - Security Impact Shell Variables**

SECURITY IMPACT SHELL VARIABLES		
VARIABLE	DESCRIPTION	IMPLICATION
HOME	The user's home directory set from values specified by the security system.	The user's home directory contains that user's personal files and scripts that establish any unique environment settings.
LOGNAME	The user's login name, set from values specified by the security system.	Child processes, by default, receive names based on LOGNAME.
SHELL	The full pathname of the shell program set from values specified by the security system.	An invalid shell program name would prevent system access. A compromised program could reduce system security.
PATH	The list of directories the system searches to find executable commands.	An improper sequence of directories could cause the wrong version of a program to be executed.

SECURITY IMPACT SHELL VARIABLES		
VARIABLE	DESCRIPTION	IMPLICATION
STEPLIB	For value = current: Currently, active TASKLIB, STEPLIB, or JOBLIB allocations are passed on. For value = none: No STEPLIB to be used in the search order. For value = <i>dsn1:dsn2:dsn3</i> : Use the specified, <b>cataloged</b> , user-accessible MVS load libraries. Default value = current.	Executables with the set-user-ID or set-group-ID bit set can only use STEPLIB data sets specified by the STEPLIBLIST parameter in BPXPRMxx.
_BPX_ACCT_DATA	The account data to be used for processes being created.	Could require additional access permissions if the use of account data is secured.
_BPX_JOBNAME	The MVS jobname to be used for processes being created.	Requires superuser authority or access to BPX.JOBNAME to be effective. Allows a user/process to start a child process that, by virtue of name, may have other security issues. <b>NOTE:</b> When the _BPX_JOBNAME variable is not set, processes created by fork or spawn are assigned jobnames consisting of the userid followed by a number (1-9).
_BPX_USERID	The z/OS user identity to be used for processes being created, effective only for users who have authority for the setuid() function.	Requires access to the BPX.DAEMON resource to be effective. Allows a user/process to start a child process using a different security context.

#### 4.6 z/OS UNIX Background Processes - Daemons and Servers

z/OS UNIX supports the execution of processes in the background. Daemons and servers are distinguished from other background processes by the duration of execution and the privileges used. z/OS UNIX daemons and servers correspond in function to MVS started tasks.

**NOTE:** z/OS UNIX supports two levels of security - UNIX and z/OS UNIX. UNIX-level security exists where the userids for daemons and servers are defined with a UID of 0

(i.e., superuser status) and the BPX.DAEMON and BPX.SERVER security resources are **not** defined. z/OS UNIX-level security exists where the BPX.DAEMON or BPX.SERVER security resources are defined. This level provides a higher degree of security. z/OS UNIX-level security must be configured so that the enhanced security is available.

A daemon is a background process that operates continuously or periodically to provide a system service. Daemons may be started at system initialization or in response to some event. Daemons must be assigned a userid with a UID of 0 (i.e., superuser authority) and have the appropriate permission to the BPX.DAEMON security resource. A daemon can use the `seteuid`, `setuid`, `setreuid`, or `spawn` (with change in userid requested) service to execute work using the security context of a user.

A server is a background process that operates continuously or periodically to provide an application service required by a client. Servers are typically started when the service they provide is required. Servers must have the appropriate permission to the BPX.SERVER security resource. A server can use the `pthread-security-np` service to create task-level security environments. If the server processes user requests without the client (e.g., user) password, the server acts as a surrogate and must have the appropriate permission to the BPX.SRV.*userid* (where *userid* is the z/OS userid) security resource.

The security setup requirements for daemons and servers are as follows:

The daemon or server must be assigned a userid. For daemons, the userid must be assigned a UID of 0.

The assigned userid must have the appropriate access to the BPX.DAEMON or BPX.SERVER security resource and to the BPX.SRV.*userid* resource(s) as required.

The ACP's Program Control feature must be active.

All programs to be loaded into the address space must be marked as controlled programs (i.e., defined to Program Control). Programs in HFS / zFS files must have the program-controlled extended attribute bit set.

Daemons are usually started in scripts executed at system initialization. These scripts contain commands that set up the environment and start the daemon. The commands used to start commonly used z/OS UNIX daemons include the following:

**Table 12 - Daemon Commands**

DAEMON COMMANDS		
COMMAND	DESCRIPTION	STARTUP



DAEMON COMMANDS		
COMMAND	DESCRIPTION	STARTUP
cron	Runs commands scheduled through at, batch, and crontab at specified dates and times.	At system initialization
inetd	Provides Internet service management for a network.	At system initialization
lm	Starts the login monitor daemon that starts the login process for logins initiated by Outboard Communications Server (OCS).	At system initialization
rlogind	Validates remote login (rlogin) requests.	By inetd
uucico	Processes uucp and uux file transfer requests.	By other processes including cron, uucpd, uucp, and uux
uucpd	Invokes uucico for TCP/IP connections from remote uucp systems.	By inetd
uuxqt	Runs commands from remote systems.	By uucico or cron

Unless justified and documented to the IAO, all of the daemons on this list, except for the inetd daemon, must be disabled. This policy improves system security by reducing the number of common targets of system attacks.

#### 4.7 z/OS UNIX Miscellaneous Considerations

This section discusses miscellaneous security considerations for the z/OS UNIX environment. These considerations include the following:

- SMF options
- Account data validation - IEFUJI
- Run-Time Library Services (RTLS)

**Table 13 - Restricted Network Services**

Referenced by: ZUSS0014

RESTRICTED NETWORK SERVICES					
Service	Port	Service	Port	Service	Port
Chargen	19	login	513	systat	11
Daytime	13	nameserver	42	talk	517
Discard	9	netstat	15	tftp	69
Echo	7	qotd	17	time	37
Exec	512	shell	514	timed	525

<i>RESTRICTED NETWORK SERVICES</i>					
Service	Port	Service	Port	Service	Port
finger	79	smtp	25	uucp	540

## 4.8 z/OS UNIX SMF Options

In the z/OS environment, SMF data is collected to identify access to the system and to measure the use of resources. This data can be critical to auditors investigating security incidents. SMF data can also be created by authorized applications; this function is controlled to preserve system integrity. The z/OS UNIX environment is not exempt from SMF data collection.

For processes under z/OS UNIX, SMF record type 30 contains data on user identity, program name, and file system activity. SMF record type 92 provides information on the I/O activity of a user or application against a specific file. SMF record types 30 and 92 must be recorded. Due to the potential for very high volumes, subtypes 10 and 11 of the type 92 record may be suppressed at the site's discretion. Refer to IBM's *z/OS MVS System Management Facilities (SMF)* documentation for details and descriptions for these records.

SMF record types 34 and 35 are used to record TSO/E activity, but are also written by default when a new address space is created for a fork or spawn in the z/OS UNIX environment. To eliminate errors in TSO/E accounting, IBM recommends that SYS1.PARMLIB(SMFPRMxx) be updated to suppress those records for z/OS UNIX processes (e.g., the OMVS subsystem). Therefore, SMF record types 34 and 35 for z/OS UNIX processes may be suppressed at the site's discretion.

User applications and non-IBM products that run under z/OS UNIX can generate SMF records or check if SMF records are being generated. This is done by using the smf\_record callable service. To be able to do this, an application must be running under a userid that has access to the BPX.SMF security resource. When the application or product is installed, the ACP must be updated to allow the access.

## 4.9 z/OS UNIX Account Data Validation - IEFUJI

IEFUJI is a z/OS exit that validates job names and/or accounting information. If IEFUJI is being used, there are special considerations for z/OS UNIX:

- OMVS should be defined as a subsystem in SYS1.PARMLIB(IEFSSNxx).
- IEFUJI should be set as an exit for subsystem OMVS in SYS1.PARMLIB(SMFPRMxx).
- The IEFUJI code should be adapted to exclude the names of some jobs and daemons started from /etc/rc.
- Refer to IBM's *z/OS UNIX System Services Planning* document for details.

The use of IEFUJI has security implications when ACP rules are in use to validate job names or accounting data. The correct function of IEFUJI and the appropriate ACP access rules must be verified to ensure proper system operation and security.

## 4.10 z/OS UNIX RTLS

Members of IBM's Language Environment (LE) run-time library are used by z/OS UNIX components (including the shell and utilities) and optionally by user applications running in the z/OS UNIX environment. Access to the LE members can be made available through the system link list (LNKLSTxx) and LPA list (LPALSTxx), through STEPLIBs, or through a z/OS feature known as Run-Time Library Services (RTLS).

If RTLS is used for z/OS UNIX, the following three steps must be completed:

- The RUNOPTS parameter must be coded in SYS1.PARMLIB(BPXPRMxx).
- The RTLS feature must be configured in SYS1.PARMLIB(CSVRTLxx).
- Security resource profiles must be defined to the ACP:

CSVRTL.S.LIBRARY.*library.version* for each logical RTLS library to enable security checking,

OR,

CSVRTL.NOSECCONNECT.*library.version* for each logical RTLS library to disable checking

OR,

CSVRTL.NOSECCONNECT.\* to disable all RTLS security checking.

If the other methods of access (i.e., link list or STEPLIB) to the LE members are used, the CSVRTL profiles are not needed.

## 5 Access Control Product Implementation

### 5.1 ACP General Considerations

The ACP is the primary mechanism that controls access to data and resources in z/OS systems. Each ACP in use on the DoD platforms provides the flexibility to tailor the implementation to meet the needs of the local installation.

Many different implementations of the various ACPs exist. These different implementations meet the needs of each local installation, but make it difficult to coordinate and control the DoD Enterprise.

The installation and implementation of each ACP should be standardized across all DoD processing environments. z/OS STIG Checklist recommended implementation criteria are specified in the individual ACP installation sections of this document.

All deviations are to be specifically noted, with justification and approval documentation, in the system security plan and the accreditation package submitted to the Designated Approving Authority (DAA).

To provide full compliance with the security support required by *DoD Directive 8500.1*, control all products within the operating system using the ACP. Use the following guidance in the acquisition of products to ensure that security-related issues are adequately addressed:

- (1) Products are to be on the National Information Assurance Partnership (NIAP) - Common Criteria Evaluation and Validation Scheme (CCEVS) Validated Products List before procurement and implementation.
- (2) At a minimum, evaluate products for sensitive functions and implement controls to protect these functions.
- (3) Restrict all data sets associated with a product to the access levels necessary for support and operation based upon the requirements. Only those authorized personnel who require the authority to modify or maintain the product are to have *update* and *alter* access.

Many products require special security considerations. Enforce the following considerations relating to compatibility and interfacing with the IBM System Authorization Facility (SAF):

- (1) Protect Commercial-Off-The-Shelf (COTS) products and associated data sets within the operating system using the ACP. Ensure that all COTS products being procured have, and utilize, the SAF interface to the ACP.
- (2) Secure Government-Off-The-Shelf (GOTS) products and newly developed applications, along with associated data sets, using the ACP. Whenever possible, develop applications using the SAF interface. Safeguards enforced by the ACP are not to be duplicated by security mechanisms implemented within an application. Limit developed internal security mechanisms to those functions that augment the safeguards present in the ACP.
- (3) Internal Product Security Controls (IPSCs) are security mechanisms internal to COTS products and GOTS applications. Only use IPSCs when existing products or applications do not interface to the ACP through SAF, or to augment the protections provided by the existing interface. Reconfigure products using IPSCs, which are capable of taking advantage of the SAF interface, to take proper advantage of the SAF interface.

Whenever IPSCs are being used, develop and maintain security documentation. The documentation is to include descriptions of the IPSCs, the configuration, and the policy being enforced. The IAO is to maintain the documentation and perform the administration of IPSCs where practical.

- (4) Modify all GOTS products and applications (if using ACP-specific interfaces) to interface with the ACP via standard SAF calls.

All applications are to eventually migrate from IPSCs to using the ACP. If this is unreasonable for any given application, the application is to be eventually phased out.

### 5.1.1 ACP Standard Global Options

Each ACP provides the capability for customization using global ACP configuration and processing options. These global options provide the flexibility to tailor the configuration and processing of the ACP to the needs of the local operating environment. These options also can pose the danger of compromising the operational environment when misused or when not properly applied.

In an organization as large as DoD, the additional complication of diversity exists. Many different applications of the global options exist. These different applications meet the needs of each local installation, but make it difficult to manage the organizational computing base as a whole. The task of optimizing the processing load of the enterprise across the myriad platforms becomes virtually impossible.

For the above reasons, and to mitigate the above risks and difficulties, all DoD processing environments are to implement the z/OS STIG Checklist required global options for each ACP installed. The z/OS STIG Checklist required options are specified in the individual Access Control Product installation sections of this document. The options specified are z/OS STIG Checklist requirements and each site can choose to be more restrictive.

### 5.1.2 ACP Userid Controls

Requires that each system user is uniquely identified to the operating environment, and that access to resources is limited to those needed to perform the function. In this case, a user is defined as either an individual accessing a computer resource, or as a task executing on the system that requires access to a resource. On z/OS systems a user is identified by means of a unique userid. This z/OS STIG Checklist requires that audit data record the identity of the user, time of access, interaction with the system, and sensitive functions that might permit a user or program to modify, bypass, or negate security safeguards.

It then follows that any userid (user) on the system must be associated with only one individual. It also follows, however, that any given individual may be assigned responsibility for multiple userids on a given system, depending on functional responsibilities, to ensure task segregation.

**Table 14 - Interactive Users - ACF2**

Referenced by:ACF0570

INTERACTIVE USERS - ACF2		
FIELD	DESCRIPTION	REQUIRED VALUE
AUTHSUP1	User Authorization Flag 1	ON for highly privileged users controlled by NC-PASS.  <b>NOTE:</b> Refer to Section 6.3.1, NC-PASS for ACF2, for further information.
GROUP(name)	This field is required for assigning <i>gids</i> to MVS OpenEdition users.  <b>NOTE:</b> For sites running UNIX Systems Services, see Section 2.5.3.2, Defining Users and Groups, for GROUP(name) requirements.	Will be defined for OpenEdition users.
IDLE(time)	Specifies the maximum time permitted (in minutes) between terminal transactions for this user. If exceeded, ACF2 needs the logonid and password to be revalidated before another transaction is accepted. Zero (0) indicates no limit is enforced. This field is available for IMS and CICS on-line processing.	IDLE(15)
INTERCOM/ NOINTERCOM	Indicates this user is willing to accept messages from other users through the TSO SEND command.	INTERCOM
LGN-ACCT/ NOLGN-ACCT	Indicates permission to specify an account number at logon time. If a user has the PMT-ACCT field, ACF2 prompts the user for an account number unless an account number is specified before the prompt. If a user does not specify an account number at logon and PMT-ACCT is not specified in the user's logonid record, ACF2 uses the user's default account number (TSOACCT is the logonid field) or the system default account number. Specifies the default in the ACCOUNT field of the GSO TSO record.	LGN-ACCT
MAIL/NOMAIL	Indicates a user can receive mail messages from TSO at logon time.	MAIL

INTERACTIVE USERS - ACF2		
FIELD	DESCRIPTION	REQUIRED VALUE
MAXDAYS(days)	Specifies the maximum number of days permitted between password changes before the password expires. Zero (0) indicates no limit.	MAXDAYS (60)
MINDAYS(days)	Specifies the minimum number of days that must elapse before a user can change a password. Zero (0) indicates no limit.	MINDAYS (1)
MSGID/NOMSGID	Indicates this user wants TSO messages to have message IDs prefixed.	MSGID
NO-STORE/ NONO-STORE	Specifies that a user cannot store or delete rule sets. This applies even if the value of the PREFIX field of the logonid record matches the \$KEY of the rule of the data set, if the user has the SECURITY privilege, or if the user has change authority through a %CHANGE or %RCHANGE control statement in the rule set.	NONO-STORE  <b>NOTE:</b> The GSO RULEOPTS record must specify CENTRAL. Refer to the GSO Options in Table A-30, Standard Global Options (GSO Records) - ACF2.
NOTICES/ NONOTICES	Indicates a user can receive TSO notices at logon time.	NOTICES
PASSWORD	The logon password for the user.	Must be completed.
PHONE	Specifies the 1- to 12-character telephone number of a user.	Optional
PMT-ACCT/ NOPMT-ACCT	Indicates that ACF2 requires a user to specify an account at logon time and to specify the LGN-ACCT field also. ACF2 does not prompt for an account number if the FSRETAIN field is also specified. FSRETAIN obtains account values from the last session.	May be required for Fee-for-Service support.
PREFIX	User access to the user's own data sets without rule validation.	PREFIX()
PROMPT/ NOPROMPT	Indicates that ACF2 prompts a user for missing or incorrect parameters.	PROMPT
TSOACCT	Specifies the user's default TSO logon account. Used for all billing.	May be required for Fee-for-Service support.
TSOPROC	Specifies the user's default TSO logon procedure.	Optional, may be completed for TSO users.

INTERACTIVE USERS - ACF2		
FIELD	DESCRIPTION	REQUIRED VALUE
VLD-ACCT/ NOVLD-ACCT	Indicates that ACF2 validates the TSO account number of a user. Creates a resource rule with a type code TAC and a \$KEY of the account number so that ACF2 will perform this validation.	VLD-ACCT  May be required for Fee-for-Service support.
VLD-PROC/ NOVLD-PROC	Indicates that ACF2 validates the TSO logon procedure of a user. Creates a resource rule with a type code TPR and a \$KEY of the logon procedure so that ACF2 will perform this validation.	VLD-PROC  Will be completed for all TSO users.

### 5.1.3 Password Complexity

Password complexity is a measure to minimize guessing and brute-force attacks. The DoD has instituted the requirement that all passwords must be at least fifteen (15) characters in length. Currently the zOS operating system can only support a maximum password length of eight (8). As mitigation to this shortfall each of the ACPs has introduced additional measures to assist in password complexity. One of these measures is a restriction of reserved words and prefixes. The following contains the default list of reserved words and prefixes. Each site can make additions to this list to reflect regional common words and prefixes.

APPL	APR	ASDF	AUG	BASIC
CADAM	DEC	DEMO	FEB	FOCUS
GAME	IBM	JAN	JUL	JUN
LOG	MAR	MAY	NET	NEW
NOV	OCT	PASS	ROS	SEP
SIGN	SYS	TEST	TSO	VALID
VTAM	XXX	1234		



## 6 Trusted Started Tasks

Referenced by: RACF0660, TSS0810, ACF0640

TRUSTED STARTED TASKS
ACF2
ACFBKUP
APSWPROA
APSWPROB
APSWPROC
APSWPROM
APSWPROT
CATALOG
CONSOLE
DFHSM*
DFS
DUMPSRV
GPMSERVE
GSKSRVR
IEEVMPCR
IOSAS
IXGLOGR
JES2
JESXCF
LLA
NFS
OMVS/OMVSKERN***
RACF
RMF
RMFGAT
SMF
SMSRESTN
SMSRESTR
SMSVSAM
TCPIP
TSS
TSSB
TSSBKUP
TSSRESTN

TRUSTED STARTED TASKS
VLF
VTAM
XCFAS
ZFS**

The primary source for this Trusted Started Task Table is the MVS Init & Tuning Guide.

\*=The name of the DFHSM Proc may be "DFSMSHSM". Another

consideration here is that IBM sometimes recommends that other Started Tasks be set up similar to DFHSM...reference SSO FIXDOC 1924. In this case where IBM recommends either mapping a proc to the DFHSM userid or setting up additional DFHSM-like userids then the TRUSTED attribute would be justified.

\*\*=This is not contained in the MVS Init & Tuning Guide. Reference Chapter 2 of z/OS V1R9.0 Distributed File Service zFS Administration z/OS V1R9.0 Distributed File Service zFS Administration.

\*\*\* = USS Planning Guide shows that the OMVS proc mapped to the OMVSKERN userid is OK to run as TRUSTED. This does not apply to the BPXOINIT proc.

**Note:** A Privileged user under ACF2 can have a logonid set up with Non Cancel attribute for special occasions. This logonid will not be used as an everyday logonid.

**Note:** Many of the Trusted Started tasks may be defined to the ACP with more stringent rules to restrict bypassing of security.

**Note:** "TRUSTED" Means any STC listed can have any level of access up to including complete bypassing of all security controls..

## 7 z/OS System and JES2 Commands

**Table 15 - Controls on z/OS System Commands**

Referenced by: ACP00282, ZIOA0040

CONTROLS ON z/OS SYSTEM COMMANDS				
Command/Keyword	Access	Resource-Name	Auth	Log
ACTIVATE	UPDATE	MVS.ACTIVATE	a o s t	Y
CANCEL device	UPDATE	MVS.CANCEL.DEV.device	a o s t	Y
CANCEL jobname (others)	UPDATE	MVS.CANCEL.JOB.jobname	a o s t	Y
CANCEL jobname (own jobs)	UPDATE	MVS.CANCEL.JOB.jobname	*	Y
The previous commands are for jobs that are <b>not</b> a started tasks.				
CANCEL jobname.id	UPDATE	MVS.CANCEL.STC.mbrname.id	a o s t	Y
CANCEL id	UPDATE	MVS.CANCEL.STC.mbrname.id	a o s t	Y
The previous command is for a started task for which an identifier is provided.				
CANCEL jobname	UPDATE	MVS.CANCEL.STC.mbrname.jobnam e	a o s t	Y
The previous command is for a started task for which an identifier was <b>not</b> provided. mbrname is the name of the member containing the JCL source.				
CANCEL jobname	UPDATE	MVS.CANCEL.ATX.jobname	a o s t \$	Y
The previous command is for APPC transaction programs.				
CANCEL U=userid	UPDATE	MVS.CANCEL.TSU.userid	a o s t \$	Y
CHNGDUMP	UPDATE	MVS.CHNGDUMP	a o s t	Y
CMDS DISPLAY	READ	MVS.CMDS.DISPLAY	*	Y
CMDS SHOW	READ	MVS.CMDS.SHOW	*	Y
CMDS REMOVE	CONTROL	MVS.CMDS.REMOVE	a o s t	Y
CMDS ABEND	CONTROL	MVS.CMDS.ABEND	a o s t	Y
CONFIG	CONTROL	MVS.CONFIG	a o s t	Y
CONTROL	READ	MVS.CONTROL.A	*	
<b>Note:</b> The access authority for all CONTROL commands except CONTROL M is normally READ, but the L=name (console name) operand can change the access level. When L=name specifies a console that is not full-capability and is not the issuing console, the access authority is UPDATE. When L=name specifies a console that is full-capability and is not the issuing console, the access authority is CONTROL.				
CONTROL C	READ	MVS.CONTROL.C	*	
<b>Note:</b> See the note for the CONTROL A command for exceptions.				
CONTROL D	READ	MVS.CONTROL.D	*	
<b>Note:</b> See the note for the CONTROL A command for exceptions.				
CONTROL E	READ	MVS.CONTROL.E	*	
<b>Note:</b> See the note for the CONTROL A command for exceptions.				
CONTROL M	CONTROL	MVS.CONTROL.M	a c o s t	
CONTROL N	READ	MVS.CONTROL.N	*	
<b>Note:</b> See the note for the CONTROL A command for exceptions.				
CONTROL Q	READ	MVS.CONTROL.Q	*	
<b>Note:</b> See the note for the CONTROL A command for exceptions.				
CONTROL S	READ	MVS.CONTROL.S	*	
<b>Note:</b> See the note for the CONTROL A command for exceptions.				

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CONTROLS ON z/OS SYSTEM COMMANDS				
Command/Keyword	Access	Resource-Name	Auth	Log
CONTROL V	READ	MVS.CONTROL.V	*	
<b>Note:</b> See the note for the CONTROL A command for exceptions.				
DEVserv	READ	MVS.DEVServ	*	
DISPLAY A	READ	MVS.DISPLAY.JOB	*	
DISPLAY ALLOC,GRPLOCKS	READ	MVS.DISPLAY.ALLOC	*	
DISPLAY ALLOC,OPTIONS	READ	MVS.DISPLAY.ALLOC	*	
DISPLAY APPC	READ	MVS.DISPLAY.APPC	*	
DISPLAY ASCH	READ	MVS.DISPLAY.ASCH	*	
DISPLAY ASM	READ	MVS.DISPLAY.ASM	*	
DISPLAY CEE	READ	MVS.DISPLAY.CEE	*	
DISPLAY CNGRP	READ	MVS.DISPLAY.CNGRP	*	
DISPLAY CONSOLES	READ	MVS.DISPLAY.CONSOLES	*	
DISPLAY DIAG	READ	MVS.DISPLAY.DIAG	*	
DISPLAY DLF	READ	MVS.DISPLAY.DLF	*	
DISPLAY DMN	READ	MVS.DISPLAY.DMN	*	
DISPLAY DUMP	READ	MVS.DISPLAY.DUMP	*	
DISPLAY EMCS	READ	MVS.DISPLAY.EMCS	*	
DISPLAY ETR	READ	MVS.DISPLAY.ETR	*	
DISPLAY GRS	READ	MVS.DISPLAY.GRS	*	
DISPLAY IOS	READ	MVS.DISPLAY.IOS	*	
DISPLAY IPLINFO	READ	MVS.DISPLAY.IPLINFO	*	
DISPLAY JOBS	READ	MVS.DISPLAY.JOB	*	
DISPLAY LOGGER	READ	MVS.DISPLAY.LOGGER	*	
DISPLAY LOGREC	READ	MVS.DISPLAY.LOGREC	*	
DISPLAY M	READ	MVS.DISPLAY.M	*	
DISPLAY MMS	READ	MVS.DISPLAY.MMS	*	
DISPLAY MPF	READ	MVS.DISPLAY.MPF	*	
DISPLAY MSGFLD	READ	MVS.DISPLAY.MSGFLD	*	
DISPLAY NET	READ	MVS.DISPLAY.NET	*	
DISPLAY OPDATA	READ	MVS.DISPLAY.OPDATA	*	
DISPLAY PARMLIB	READ	MVS.DISPLAY.PARMLIB	*	
DISPLAY PFK	READ	MVS.DISPLAY.PFK	*	
DISPLAY PROD	READ	MVS.DISPLAY.PROD	*	
DISPLAY PROG	READ	MVS.DISPLAY.PROG	*	
For DISPLAY PROG,EXIT, if resource CSVdYNEX.LIST exists in the FACILITY class, READ authorization to CSVdYNEX.LIST is required.				
DISPLAY R	READ	MVS.DISPLAY.R	*	
DISPLAY RRS	READ	MVS.DISPLAY.RRS	*	
DISPLAY RTLS	READ	MVS.DISPLAY.RTLS	*	
DISPLAY SLIP	READ	MVS.DISPLAY.SLIP	*	
DISPLAY SMF	READ	MVS.DISPLAY.SMF	*	
DISPLAY SMS	READ	MVS.DISPLAY.SMS	*	
DISPLAY SSI	READ	MVS.DISPLAY.SSI	*	
DISPLAY SYMBOLS	READ	MVS.DISPLAY.SYMBOLS	*	
DISPLAY T	READ	MVS.DISPLAY.TIMEDATE	*	
DISPLAY TRACE	READ	MVS.DISPLAY.TRACE	*	
DISPLAY TS	READ	MVS.DISPLAY.JOB	*	
DISPLAY U	READ	MVS.DISPLAY.U	*	
DISPLAY WLM	READ	MVS.DISPLAY.WLM	*	

CONTROLS ON z/OS SYSTEM COMMANDS				
Command/Keyword	Access	Resource-Name	Auth	Log
DISPLAY XCF	READ	MVS.DISPLAY.XCF	*	
DUMP	CONTROL	MVS.DUMP	a o s t	Y
DUMPDS	UPDATE	MVS.DUMPDS	a o s t	
FORCE device	CONTROL	MVS.FORCE.DEV.device	a o s t	Y
FORCE jobname	CONTROL	MVS.FORCE.JOB.jobname	a o s t	Y
The previous command is for a job that is <b>not</b> a started task.				
FORCE jobname.id	CONTROL	MVS.FORCE.STC.mbrname.id	a o s t	Y
FORCE id	CONTROL	MVS.FORCE.STC.mbrname.id	a o s t	Y
The previous command is for a started task for which an identifier was provided.				
FORCE jobname	CONTROL	MVS.FORCE.STC.mbrname.jobname	a o s t	Y
The previous command is for a started task for which an identifier was <b>not</b> provided. mbrname is the name of the member containing the JCL source.				
FORCE U=userid	CONTROL	MVS.FORCE.TSU.userid	a o s t	Y
FORCE device,ARM	CONTROL	MVS.FORCEARM.DEV.device	a o s t	Y
FORCE jobname,ARM	CONTROL	MVS.FORCEARM.JOB.jobname	a o s t	Y
The previous command is for a job that is <b>not</b> a started task.				
FORCE [jobname.] identifier,ARM	CONTROL	MVS.FORCEARM.STC.mbrname.id	a o s t	Y
The previous command is for a started task for which an identifier was provided.				
FORCE jobname,ARM	CONTROL	MVS.FORCEARM.STC.mbrname.jobname	a o s t	Y
The previous command is for a started task for which an identifier was <b>not</b> provided. mbrname is the name of the member containing the JCL source.				
FORCE U=userid,ARM	CONTROL	MVS.FORCEARM.TSU.userid	a o s t	Y
HALT EOD	UPDATE	MVS.HALT.EOD	a o s t	Y
HALT NET	UPDATE	MVS.HALT.NET	a o s t	Y
IOACTION	CONTROL	MVS.IOACTION	a o s t	Y
LIBRARY	UPDATE	MVS.LIBRARY	a o s t	Y
LOG	READ	MVS.LOG	*	
MODE	UPDATE	MVS.MODE	a o s t	Y
MODIFY jobname	UPDATE	MVS.MODIFY.JOB.jobname	a o s t	Y
The previous command is for a job that is <b>not</b> a started task.				
MODIFY userid	UPDATE	MVS.MODIFY.JOB.userid	a o s t	Y
MODIFY jobname	UPDATE	MVS.MODIFY.STC.mbrname.id	a o s t <sup>4</sup>	Y
MODIFY jobname.id	UPDATE	MVS.MODIFY.STC.mbrname.id	a o s t <sup>4</sup>	Y
MODIFY id	UPDATE	MVS.MODIFY.STC.mbrname.id	a o s t <sup>4</sup>	Y
The previous command is for a started task for which an identifier was provided.				
MODIFY jobname	UPDATE	MVS.MODIFY.STC.mbrname.jobname	a o s t <sup>4</sup>	Y
The previous command is for a started task for which an identifier was <b>not</b> provided. mbrname is the name of the member containing the JCL source. <b>Note:</b> MODIFY might actually affect more than one job. For example: If START ABC.DEF and START ABC.GHI are issued, MODIFY ABC.* affects both jobs, and one authorization request is issued for each. If the START ABC command is issued twice, two started tasks named ABC start running on the system. MODIFY ABC affects both jobs, and one authorization request is issued for each.				

<sup>4</sup> For systems running TSS the Master SCA can have access to identified resources.

CONTROLS ON z/OS SYSTEM COMMANDS				
Command/Keyword	Access	Resource-Name	Auth	Log
MONITOR	READ	MVS.MONITOR	*	
MOUNT	UPDATE	MVS.MOUNT	a o s t	
PAGEADD	UPDATE	MVS.PAGEADD	a o s t	Y
PAGEDEL	UPDATE	MVS.PAGEDEL	a o s t	Y
QUIESCE	CONTROL	MVS.QUIESCE	a o s t	Y
REPLY	READ	MVS.REPLY	* 4	Y
RESET	UPDATE	MVS.RESET	a o s t	Y
RESET CN	CONTROL	MVS.RESET.CN	a o s t	Y
ROUTE system	READ	MVS.ROUTE.CMD.system	*	
<b>Note:</b> When a system name is specified on the ROUTE command, <i>system</i> is the name of the system that is the target of the command.				
ROUTE *ALL	READ	MVS.ROUTE.CMD.ALLSYSTEMS	*	
ROUTE *OTHER	READ	MVS.ROUTE.CMD.OTHERSYSTEMS	*	
ROUTE sysgrpname	READ	MVS.ROUTE.CMD.sysgrpname	*	
ROUTE (sys1,...,sysN)	READ	MVS.ROUTE.CMD.sys1 . MVS.ROUTE.CMD.sysN	*	
ROUTE (group1,...,groupN)	READ	MVS.ROUTE.CMD.group1 . MVS.ROUTE.CMD.groupN	*	
SEND	READ	MVS.SEND	*	
SET APPC	UPDATE	MVS.SET.APPC	a o s t	Y
SET ASCH	UPDATE	MVS.SET.ASCH	a o s t	Y
SET CEE	UPDATE	MVS.SET.CEE	a o s t	Y
SET CLOCK	UPDATE	MVS.SET.TIMEDATE	a o s t	Y
SET CNGRP	UPDATE	MVS.SET.CNGRP	a o s t	Y
SET CNIDTR	UPDATE	MVS.SET.CNIDTR	a o s t	Y
SET DAE	UPDATE	MVS.SET.DAE	a o s t	Y
SET DATE	UPDATE	MVS.SET.TIMEDATE	a o s t	Y
SET DEVSUP	UPDATE	MVS.SET.DEVSUP	a o s t	Y
SET GRSRNL	UPDATE	MVS.SET.GRSRNL	a o s t	Y
SET ICS	UPDATE	MVS.SET.ICS	a o s t	Y
SET IOS	UPDATE	MVS.SET.IOS	a o s t	Y
SET IPS	UPDATE	MVS.SET.IPS	a o s t	
SET MMS	UPDATE	MVS.SET.MMS	a o s t	Y
SET MPF	UPDATE	MVS.SET.MPF	a o s t	Y
SET MSGFLD	UPDATE	MVS.SET.MSGFLD	a o s t	Y
SET OPT	UPDATE	MVS.SET.OPT	a o s t	Y
SET PFK	UPDATE	MVS.SET.PFK	a o s t	Y
SET PROG	UPDATE	MVS.SET.PROG	a o s t	Y
SET RESET	UPDATE	MVS.SET.TIMEDATE	a o s t	
SET RTLS	UPDATE	MVS.SET.RTLS	a o s t	Y
SET SCH	UPDATE	MVS.SET.SCH	a o s t	Y
SET SLIP	UPDATE	MVS.SET.SLIP	a o s t	Y
SET SMF	UPDATE	MVS.SET.SMF	a o s t	Y
SET SMS	UPDATE	MVS.SET.SMS	a o s t	Y
SET ALLOC	UPDATE	MVS.SETALLOC.ALLOC	d s t	Y
SETAPPC	UPDATE	MVS.SETAPPC.APPC	a o s t	Y
SETCEE	UPDATE	MVS.SETCEE.CEE	a o s t	Y
SETCON MONITOR (MN)	CONTROL	MVS.SETCON.MONITOR	a o s t	Y
SETCON TRACKING (TR)	CONTROL	MVS.SETCON.TRACKING	a o s t	Y

CONTROLS ON z/OS SYSTEM COMMANDS				
Command/Keyword	Access	Resource-Name	Auth	Log
SETDMN	UPDATE	MVS.SETDMN.DMN	a o s t	Y
SETETR	UPDATE	MVS.SETETR.ETR	a o s t	Y
SETGRS MODE=STAR ENQMAXA ENQMAXU CNS	UPDATE	MVS.SETGRS.MODE.STAR MVS.SETGRS.ENQMAXA MVS.SETGRS.ENQMAXU MVS.SETGRS.CNS	a o s t	Y
SETIOS	UPDATE	MVS.SETIOS.IOS	a o s t	Y
SETLOAD	UPDATE	MVS.SETLOAD.LOAD	a o s t	Y
SETLOGR	UPDATE	MVS.SETLOGR.LOGR	a o s t	Y
SETLOGRC	CONTROL	MVS.SETLOGRC.LOGRC	a o s t	Y
SETMF	UPDATE	MVS.SETMF.MF	a o s t	Y
SETPROG	UPDATE	MVS.SETPROG	a o s t	Y
SETRRS SHUTDOWN	UPDATE	MVS.SETRRS.SHUTDOWN	a o s t	Y
SETSMF	UPDATE	MVS.SETSMF.SMF	a o s t	Y
SETSMS	UPDATE	MVS.SETSMS.SMS	a o s t	Y
SETSSI ACTIVATE	CONTROL	MVS.SETSSI.ACTIVATE.subname	a o s t	Y
SETSSI ADD	CONTROL	MVS.SETSSI.ADD.subname	a o s t	Y
SETSSI DEACTIVATE	CONTROL	MVS.SETSSI.DEACTIVATE.subname	a o s t	Y
SETUNI	UPDATE	MVS.SETUNI.UNI	a o s t	Y
SETXCF	UPDATE	MVS.SETXCF.XCF	a o s t	Y
SLIP	UPDATE	MVS.SLIP	a o s t	Y
START mbrname[.identifier]	UPDATE	MVS.START.STC.mbrname[.id]	a o s t	Y
The previous command is for a started task for which an identifier was provided. mbrname is the name of the member containing the JCL source.				
START mbrname,JOBNAME=jobname	UPDATE	MVS.START.STC.mbrname.jobname	a o s t	Y
The previous command is for a started task for which an identifier was <b>not</b> provided. mbrname is the name of the member containing the JCL source.				
START commands that use one or more of the following keywords:  <ul style="list-style-type: none"> <li>DSN or DSNAME</li> <li>DISP</li> <li>PROTECT</li> </ul>	UPDATE	The resource name substitutes DDALERT for one or more of the keywords.  MVS.START.jobname.qualifier.D DALER	a o s t	Y
An example of the previous MVS START command is as follows: START jobname.qualifier,DSN=dsname.qualifier,DISP=SHR				
STOP jobname	UPDATE	MVS.STOP.JOB.jobname	a o s t	Y
The previous command is for a job that is <b>not</b> a started task.				
STOP userid	UPDATE	MVS.STOP.JOB.userid	a o s t	Y
STOP jobname STOP jobname.id STOP id	UPDATE	MVS.STOP.STC.mbrname.id	a o s t	Y
The previous command is for a started task for which an identifier was provided. mbrname is the name of the member containing the JCL source.				
STOP jobname	UPDATE	MVS.STOP.STC.mbrname.jobname	a o s t	Y
The previous command is for a started task for which an identifier was <b>not</b> provided. mbrname is the name of the member containing the JCL source. <b>Note:</b> STOP might actually affect more than one started task if more than one				

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CONTROLS ON z/OS SYSTEM COMMANDS				
Command/Keyword	Access	Resource-Name	Auth	Log
unit of work with the same name is active at the same time. If so, there is one call to RACF for command authorization for each unit of work.				
STOPMN	READ	MVS.STOPMN	*	
SWAP	UPDATE	MVS.SWAP	a o s t	Y
SWITCH SMF	UPDATE	MVS.SWITCH.SMF	a o s t	Y
TRACE CT	UPDATE	MVS.TRACE.CT	a o s t	Y
TRACE MT	CONTROL	MVS.TRACE.MT	a o s t	Y
TRACE ST	UPDATE	MVS.TRACE.ST	a o s t	Y
TRACE STATUS	UPDATE	MVS.TRACE.STATUS	a o s t	Y
Unknown MVS commands	UPDATE	MVS.UNKNOWN	a o s t 4	Y
UNLOAD	UPDATE	MVS.UNLOAD	a o s t	Y
VARY CN	UPDATE	MVS.VARY.CN	a o s t	Y
VARY CN,ACTIVATE	READ	MVS.VARY.CN	*	Y
<b>Note:</b> Issue VARY CN,ACTIVATE only from the system console.				
VARY CN,AUTH	UPDATE	MVS.VARY.CN	a o s t	Y
	CONTROL	MVS.VARYAUTH.CN	a o s t	Y
<b>Note:</b> VARY CN,AUTH requires both profiles.				
VARY CN,DEACTIVATE	READ	MVS.VARY.CN	*	Y
	UPDATE		a o s t	Y
<b>Note:</b> For the VARY CN,DEACTIVATE command, READ applies only when that command is issued from the system console; otherwise, UPDATE applies.				
VARY CN,LOGON	UPDATE	MVS.VARY.CN	a o s t	Y
	CONTROL	MVS.VARYLOGON.CN	a o s t	Y
<b>Note:</b> VARY CN,LOGON requires both profiles.				
VARY CN,LU	UPDATE	MVS.VARY.CN	a o s t	Y
	CONTROL	MVS.VARYLU.CN	a o s t	Y
<b>Note:</b> VARY CN,LU requires both profiles.				
VARY CN,OFFLINE,FORCE	CONTROL	MVS.VARYFORCE.CN	a o s t	Y
VARY CONSOLE	UPDATE	MVS.VARY.CONSOLE	a o s t	Y
VARY CONSOLE,AUTH	UPDATE	MVS.VARY.CONSOLE	a o s t	Y
	CONTROL	MVS.VARYAUTH.CONSOLE	a o s t	Y
<b>Note:</b> VARY CONSOLE,AUTH requires both profiles.				
VARY GRS	CONTROL	MVS.VARY.GRS	a o s t	Y
VARY HARDCPY	CONTROL	MVS.VARY.HARDCPY	a o s t	Y
VARY NET	UPDATE	MVS.VARY.NET	a o s t	Y
VARY OFFLINE	UPDATE	MVS.VARY.DEV	a o s t	Y
<b>Note:</b> If VARY CN,OFFLINE is specified, the rules for VARY CN apply (the system checks for UPDATE access to MVS.VARY.CN, not MVS.VARY.DEV).				
VARY OFFLINE,FORCE	CONTROL	MVS.VARYFORCE.DEV	a o s t	Y
VARY ONLINE	UPDATE	MVS.VARY.DEV	a o s t	Y
<b>Note:</b> If VARY CN,ONLINE is specified, the rules for VARY CN apply (the system checks for UPDATE access to MVS.VARY.CN, not MVS.VARY.DEV).				
VARY PATH	UPDATE	MVS.VARY.PATH	a o s t	Y
VARY SMS	UPDATE	MVS.VARY.SMS	a o s t	Y
VARY TCPIP	UPDATE	MVS.VARY.TCPIP	a o s t	Y
VARY TCPIP cmd	CONTROL	MVS.VARY.TCPIP.*	a o s t	Y
VARY WLM	CONTROL	MVS.VARY.WLM	a o s t	Y
VARY XCF	CONTROL	MVS.VARY.XCF	a o s t	Y
WRITELOG	READ	MVS.WRITELOG	*	Y

**Auth column****Log**

Y

a - AUTOAUDT, Automated operations.

c - CONSOLES, System consoles

d - DASDAUDT, Storage Management

o - OPERAUDT, Operations staff

s - SYSPAUDT, Systems Programming staff

t - TSTCAUDT, Trusted Started Tasks

\* - All Users

\$ - May be given to All Users using SDSF, CA Roscoe, and similar products that interface with a user's input/output requiring the issuing of console commands.

Note on ALTER authority on RACF profiles: For discrete profiles, ALTER allows some RACF Administrative functions such as use of the RDELETE Command. For this reason, access should be permitted based on the table above. ALTER should be flagged for all but Security Administrators or where justified by the IAO.

Resource access requirements are based on IBM minimal access requirements. Users that are authorized to have access to the resource can have the access specified or greater. The exceptions are those stated with the resource, resources that specify different accesses to users and above note. Where multiple users have different accesses, an example is one user has READ and another has UPDATE the "access specified or greater" will be to the user with UPDATE.



**Table 16 - Controls on JES2 System Commands**

Referenced by: ZJES0052

<b>CONTROLS ON JES2 SYSTEM COMMANDS</b>				
<b>JES2 command</b>	<b>Access</b>	<b>Resource-Name</b>	<b>Auth</b>	<b>Log</b>
\$ACTIVATE	CONTROL	Jesx.ACTIVATE.FUNCTION	a o s t	Y
\$ADD APPL	CONTROL	Jesx.ADD.APPL	a o s t	Y
\$ADD CONNECT	CONTROL	Jesx.ADD.CONNECT	a o s t	Y
\$ADD DESTID	CONTROL	jesx.ADD.DESTID	a o s t	Y
\$ADD PRTnnnn	UPDATE	jesx.ADD.DEV	a o s t	Y
\$ADD FSS	CONTROL	jesx.ADD.FSS	a o s t	Y
\$ADD LINE	CONTROL	jesx.ADD.LINE	a o s t	Y
\$ADD LOADMOD	CONTROL	jesx.ADD.LOADMOD	a o s t	Y
\$ADD LOGON	CONTROL	jesx.ADD.LOGON	a o s t	Y
\$ADD NETSRV	CONTROL	jesx.ADD.NETSRV	a o s t	Y
\$ADD PROCLIB	CONTROL	jesx.ADD.PROCLIB	a o s t	Y
\$ADD REDIRECT	CONTROL	jesx.ADD.REDIRECT	a o s t	Y
\$ADD RMT	CONTROL	jesx.ADD.RMT	a o s t	Y
\$ADD SOCKET	CONTROL	jesx.ADD.SOCKET	a o s t	Y
\$ADD SRVCLASS	CONTROL	jesx.ADD.SRVCLASS	a o s t	Y
\$B device	UPDATE	jesx.BACKSP.DEV	a o s t	Y
\$C A**	CONTROL	jesx.CANCEL.AUTOCMD	a o s t	Y
\$C J	UPDATE	jesx.CANCEL.BAT	a o s t \$	Y
\$C O J	UPDATE	jesx.CANCEL.BATOUT	a o s t \$	Y
\$C device	UPDATE	jesx.CANCEL.DEV	a o s t \$	Y
\$C Lx.yy	UPDATE	jesx.CANCEL.DEV	a o s t	Y
\$C OFFn.JR	UPDATE	jesx.CANCEL.DEV	a o s t	Y
\$C OFFn.JT	UPDATE	jesx.CANCEL.DEV	a o s t	Y
\$C OFFn.SR	UPDATE	jesx.CANCEL.DEV	a o s t	Y
\$C OFFn.ST	UPDATE	jesx.CANCEL.DEV	a o s t	Y
\$C O JOBQ	UPDATE	jesx.CANCEL.JSTOUT	a o s t	Y
\$C S	UPDATE	jesx.CANCEL.STC	a o s t \$	Y
\$C O S	UPDATE	jesx.CANCEL.STCOUT	a o s t	Y
\$C T	UPDATE	jesx.CANCEL.TSU	*	
\$C O T	UPDATE	jesx.CANCEL.TSUOUT	*	
\$DEL CONNECT	CONTROL	jesx.DEL.CONNECT	a o s t	Y
\$DEL DESTID	CONTROL	jesx.DEL.DESTID	a o s t	Y
\$DEL LOADMOD	CONTROL	jesx.DEL.LOADMOD	a o s t	Y
\$DEL PROCLIB	CONTROL	jesx.DEL.PROCLIB	a o s t	Y
\$D ACTIVATE	READ	jesx.DISPLAY.ACTIVATE	*	
\$D ACTRMT	READ	jesx.DISPLAY.ACTRMT	*	
\$D J	READ	jesx.DISPLAY.BAT	*	
\$D O J	READ	jesx.DISPLAY.BATOUT	*	
\$L J	READ	jesx.DISPLAY.BATOUT	*	
\$D CKPTDEF	READ	jesx.DISPLAY.CKPTDEF	*	
\$D CONDEF	READ	jesx.DISPLAY.CONDEF	*	
\$D CONNECT	READ	jesx.DISPLAY.CONNECT	*	
\$D DESTDEF	READ	jesx.DISPLAY.DESTDEF	*	
\$D DESTid	READ	jesx.DISPLAY.DESTID	*	
\$D PRT	READ	jesx.DISPLAY.DEV	*	
\$D PRTnnnn	READ	jesx.DISPLAY.DEV	*	

CONTROLS ON JES2 SYSTEM COMMANDS				
JES2 command	Access	Resource-Name	Auth	Log
\$D PUNnn	READ	jesx.DISPLAY.DEV	*	
\$D RDRnn	READ	jesx.DISPLAY.DEV	*	
\$D U	READ	jesx.DISPLAY.DEV	*	
\$D Rnnnnnn.CON	READ	jesx.DISPLAY.DEV	*	
\$D Rnnnnnn.PRm	READ	jesx.DISPLAY.DEV	*	
\$D Rnnnnnn.PUm	READ	jesx.DISPLAY.DEV	*	
\$D Rnnnnnn.RDm	READ	jesx.DISPLAY.DEV	*	
\$D I	READ	jesx.DISPLAY.INITIATOR	*	
\$D init stmt	READ	jesx.DISPLAY.initstmt	*	
\$D A	READ	jesx.DISPLAY.JOB	*	
\$D N	READ	jesx.DISPLAY.JOB	*	
\$D Q	READ	jesx.DISPLAY.JOB	*	
\$D JOBCLASS	READ	jesx.DISPLAY.JOBCLASS	*	
\$D JOBQ	READ	jesx.DISPLAY.JST	*	
\$D O JOBQ	READ	jesx.DISPLAY.JSTOUT	*	
\$L JOBQ	READ	jesx.DISPLAY.JSTOUT	*	
\$D L(nnnn).JR(n)	READ	jesx.DISPLAY.L	*	
\$D L(nnnn).JT(n)	READ	jesx.DISPLAY.L	*	
\$D L(nnnn).SR(n)	READ	jesx.DISPLAY.L	*	
\$D L(nnnn).ST(n)	READ	jesx.DISPLAY.L	*	
\$D LINE	READ	jesx.DISPLAY.LINE	*	
\$D LOADmod	READ	jesx.DISPLAY.LOADMOD	*	
\$D MASDEF	READ	jesx.DISPLAY.MASDEF	*	
\$D MODULE	READ	jesx.DISPLAY.MODULE	*	
\$D NETSRV	READ	jesx.DISPLAY.NETSRV	*	
\$D NJEDEF	READ	jesx.DISPLAY.NJEDEF	*	
\$D NODE	READ	jesx.DISPLAY.NODE	*	
\$D OPTSDEF	READ	jesx.DISPLAY.OPTSDEF	*	
\$D PATH	READ	jesx.DISPLAY.PATH	*	
\$D PCE	READ	jesx.DISPLAY.PCE	*	
\$D F	READ	jesx.DISPLAY.QUE	*	
\$D RDI	READ	jesx.DISPLAY.RDI	*	
\$D REBLD	READ	jesx.DISPLAY.REBLD	*	
\$D REDIRect	READ	jesx.DISPLAY.REDIRECT	*	
\$D SOCKET	READ	jesx.DISPLAY.SOCKET	*	
\$D SPOOL	READ	jesx.DISPLAY.SPOOL	*	
\$D SPOOLDEF	READ	jesx.DISPLAY.SPOOLDEF	*	
\$D SRVCLASS	READ	jesx.DISPLAY.SRVCLASS	*	
\$D SSI	READ	jesx.DISPLAY.SSI	*	
\$D S	READ	jesx.DISPLAY.STC	*	
\$D O S	READ	jesx.DISPLAY.STCOUT	*	
\$L S	READ	jesx.DISPLAY.STCOUT	*	
\$D SUBNET	READ	jesx.DISPLAY.SUBNET	*	
\$D JES2	READ	jesx.DISPLAY.SYS	*	
\$D MEMBer	READ	jesx.DISPLAY.SYS	*	
\$D TRACE(x)	READ	jesx.DISPLAY.TRACE	*	
\$D T	READ	jesx.DISPLAY.TSU	*	
\$D O T	READ	jesx.DISPLAY.TSUOUT	*	
\$L T	READ	jesx.DISPLAY.TSUOUT	*	
\$F device	UPDATE	jesx.FORWARD.DEV	a o s t	Y

CONTROLS ON JES2 SYSTEM COMMANDS				
JES2 command	Access	Resource-Name	Auth	Log
\$G C	UPDATE	jesx.GCANCEL.JOB	a o s t	Y
\$G D	READ	jesx.GDISPLAY.JOB	*	
\$G H	UPDATE	jesx.GMODIFYHOLD.JOB	a o s t	Y
\$G A	UPDATE	jesx.GMODIFYRELEASE.JOB	a o s t	Y
\$G R	UPDATE	jesx.GROUTE.JOBOUT	a o s t	Y
\$G R (for execution)	UPDATE	jesx.GROUTE.JOBOUT	a o s t	Y
\$Z A	CONTROL	jesx.HALT.AUTOCMD	a o s t	Y
\$Z device	UPDATE	jesx.HALT.DEV	a o s t	Y
\$Z OFFLOADn	UPDATE	jesx.HALT.DEV	a o s t	Y
\$Z I	CONTROL	jesx.HALT.INITIATOR	a o s t	Y
\$Z SPOOL	CONTROL	jesx.HALT.SPOOL	a o s t	Y
\$I device	UPDATE	jesx.INTERRUPT.DEV	a o s t	Y
\$MSPL	CONTROL	jesx.MIGRATE	a t	Y
\$T APPL	CONTROL	jesx.MODIFY.APPL	a o s t	Y
\$T A(CREATE)	READ	jesx.MODIFY.AUTOCMD	*	Y
\$T A(NOT OWNER)	CONTROL	jesx.MODIFY.AUTOCMD	a o s t	Y
\$T A(OWNER)	READ	jesx.MODIFY.AUTOCMD	*	Y
\$T J	UPDATE	jesx.MODIFY.BAT	a o s t	Y
\$T O J	UPDATE	jesx.MODIFY.BATOUT	a o s t \$	Y
\$T BUFDEF	CONTROL	jesx.MODIFY.BUFDEF	a o s t	Y
\$T CKPTDEF	CONTROL	jesx.MODIFY.CKPTDEF	a o s t	Y
\$T CONDEF	CONTROL	jesx.MODIFY.CONDEF	a o s t	Y
\$T CONNECT	CONTROL	jesx.MODIFY.CONNECT	a o s t	Y
\$T DEBUG	CONTROL	jesx.MODIFY.DEBUG	a o s t	Y
\$T DESTDEF	CONTROL	jesx.MODIFY.DESTDEF	a o s t	Y
\$T DESTid	CONTROL	jesx.MODIFY.DESTID	a o s t	Y
\$T device	UPDATE	jesx.MODIFY.DEV	a o s t	Y
\$T ESTBYTE	CONTROL	jesx.MODIFY.ESTBYTE	a o s t	Y
\$T ESTIME	CONTROL	jesx.MODIFY.ESTIME	a o s t	Y
\$T ESTLNCT	CONTROL	jesx.MODIFY.ESTLNCT	a o s t	Y
\$T ESTPAGE	CONTROL	jesx.MODIFY.ESTPAGE	a o s t	Y
\$T ESTPUN	CONTROL	jesx.MODIFY.ESTPUN	a o s t	Y
\$T EXIT	CONTROL	jesx.MODIFY.EXIT	a o s t	Y
\$T FSS	CONTROL	jesx.MODIFY.FSS	a o s t	Y
\$T I	CONTROL	jesx.MODIFY.INITIATOR	a o s t	Y
\$T init stmt	CONTROL	jesx.MODIFY.initstmt	a o s t	Y
\$T INTRDR	CONTROL	jesx.MODIFY.INTRDR	a o s t	Y
\$T JOBCLASS	CONTROL	jesx.MODIFY.JOBCLASS	a o s t	Y
\$T JOBDEF	CONTROL	jesx.MODIFY.JOBDEF	a o s t	Y
\$T JOBPRTY	CONTROL	jesx.MODIFY.JOBPRTY	a o s t	Y
\$T JOBQ	UPDATE	jesx.MODIFY.JST	a o s t	Y
\$T O JOBQ	UPDATE	jesx.MODIFY.JSTOUT	a o s t	Y
\$T LINE	CONTROL	jesx.MODIFY.LINE	a o s t	Y
\$T LOADMOD	CONTROL	jesx.MODIFY.LOADMOD	a o s t	Y
\$T LOGON	CONTROL	jesx.MODIFY.LOGON	a o s t	Y
\$T MASDEF	CONTROL	jesx.MODIFY.MASDEF	a o s t	Y
\$T NETSRV	CONTROL	jesx.MODIFY.NETSRV	a o s t	Y
\$T NJEDEF	CONTROL	jesx.MODIFY.NJEDEF	a o s t	Y
\$T NODE	CONTROL	jesx.MODIFY.NODE	a o s t	Y
\$T NUM	CONTROL	jesx.MODIFY.NUM	a o s t	Y

CONTROLS ON JES2 SYSTEM COMMANDS				
JES2 command	Access	Resource-Name	Auth	Log
\$T OFFx.yy	CONTROL	jesx.MODIFY.OFF	a o s t	Y
\$T OFFLOADx	CONTROL	jesx.MODIFY.OFFLOAD	a o s t	Y
\$T OUTCLASS	CONTROL	jesx.MODIFY.OUTCLASS	a o s t	Y
\$T OUTDEF	CONTROL	jesx.MODIFY.OUTDEF	a o s t	Y
\$T OUTPRTY	CONTROL	jesx.MODIFY.OUTPRTY	a o s t	Y
\$T PCE	CONTROL	jesx.MODIFY.PCE	a o s t	Y
\$T PRINTDEF	CONTROL	jesx.MODIFY.PRINTDEF	a o s t	Y
\$T RECVopts	CONTROL	jesx.MODIFY.RECVOPTS	a o s t	Y
\$T REDIRect	CONTROL	jesx.MODIFY.REDIRECT	a o s t	Y
\$T RMT	CONTROL	jesx.MODIFY.RMT	a o s t	Y
\$T SMFDEF	CONTROL	jesx.MODIFY.SMFDEF	a o s t	Y
\$T SOCKET	CONTROL	jesx.MODIFY.SOCKET	a o s t	Y
\$T SPOOL	CONTROL	jesx.MODIFY.SPOOL	a o s t	Y
\$T SPOOLDEF	CONTROL	jesx.MODIFY.SPOOLDEF	a o s t	Y
\$T SRVCLASS	CONTROL	jesx.MODIFY.SRVCLASS	a o s t	Y
\$T SSI	CONTROL	jesx.MODIFY.SSI	a o s t	Y
\$T S	UPDATE	jesx.MODIFY.STC	a o s t	Y
\$T STCCLASS	CONTROL	jesx.MODIFY.STCCLASS	a o s t	Y
\$T O S	UPDATE	jesx.MODIFY.STCOUT	a o s t \$	Y
\$T MEMBER(x)	CONTROL	jesx.MODIFY.SYS	a o s t	Y
\$T TPDEF	CONTROL	jesx.MODIFY.TPDEF	a o s t	Y
\$T TRACEDEF	CONTROL	jesx.MODIFY.TRACEDEF	a o s t	Y
\$T T	UPDATE	jesx.MODIFY.TSU	a o s t	Y
\$T TSUCLASS	CONTROL	jesx.MODIFY.TSUCLASS	a o s t	Y
\$T O T	UPDATE	jesx.MODIFY.TSUOUT	a o s t \$	Y
\$H J	UPDATE	jesx.MODIFYHOLD.BAT	a o s t \$	Y
\$H A	UPDATE	jesx.MODIFYHOLD.JOB	a o s t	Y
\$H JOBQ	UPDATE	jesx.MODIFYHOLD.JST	a o s t	Y
\$H S	UPDATE	jesx.MODIFYHOLD.STC	a o s t \$	Y
\$H T	UPDATE	jesx.MODIFYHOLD.TSU	a o s t \$	Y
\$A J	UPDATE	jesx.MODIFYRELEASE.BAT	a o s t \$	Y
\$A A	UPDATE	jesx.MODIFYRELEASE.JOB	a o s t	Y
\$A JOBQ	UPDATE	jesx.MODIFYRELEASE.JST	a o s t	Y
\$A S	UPDATE	jesx.MODIFYRELEASE.STC	a o s t	Y
\$A T	UPDATE	jesx.MODIFYRELEASE.TSU	a o s t	Y
\$M	READ	jesx.MSEND.CMD	a o s t \$	Y
\$N	READ	jesx.NSEND.CMD	a o s t	Y
\$O J	UPDATE	jesx.RELEASE.BATOUT	a o s t \$	Y
\$O JOBQ	UPDATE	jesx.RELEASE.JSTOUT	a o s t	Y
\$O S	UPDATE	jesx.RELEASE.STCOUT	a o s t \$	Y
\$O T	UPDATE	jesx.RELEASE.TSUOUT	a o s t \$	Y
\$N device	UPDATE	jesx.REPEAT.DEV	a o s t	Y
\$E J	CONTROL	jesx.RESTART.BAT	a o s t \$	Y
\$E device	UPDATE	jesx.RESTART.DEV	a o s t	Y
\$E OFFn.JT	UPDATE	jesx.RESTART.DEV	a o s t	Y
\$E OFFn.ST	UPDATE	jesx.RESTART.DEV	a o s t	Y
\$E LINE(x)	CONTROL	jesx.RESTART.LINE	a o s t	Y
\$E LOGON(x)	CONTROL	jesx.RESTART.LOGON	a o s t	Y
\$E NETSRV	CONTROL	jesx.RESTART.NETSRV	a o s t	Y
\$E CKPTLOCK	CONTROL	jesx.RESTART.SYS	a o s t	Y

CONTROLS ON JES2 SYSTEM COMMANDS				
JES2 command	Access	Resource-Name	Auth	Log
\$E MEMBER( )	CONTROL	jesx.RESTART.SYS	a o s t	Y
\$R ALL	UPDATE	jesx.ROUTE.JOBOUT	a o s t \$	Y
\$R PRT	UPDATE	jesx.ROUTE.JOBOUT	a o s t \$	Y
\$R PUN	UPDATE	jesx.ROUTE.JOBOUT	a o s t \$	Y
\$R XEQ	UPDATE	jesx.ROUTE.JOBOUT	a o s t \$	Y
\$D M	READ	jesx.SEND.MESSAGE	a o s t	Y
\$S A	CONTROL	jesx.START.AUTOCMD	a o s t	Y
\$S J	UPDATE	jesx.START.BAT	a o s t	Y
\$S device	UPDATE	jesx.START.DEV	a o s t	Y
\$S OFFLOADn	UPDATE	jesx.START.DEV	a o s t	Y
\$S OFFn.JR	UPDATE	jesx.START.DEV	a o s t	Y
\$S OFFn.JT	UPDATE	jesx.START.DEV	a o s t	Y
\$S OFFn.SR	UPDATE	jesx.START.DEV	a o s t	Y
\$S OFFn.ST	UPDATE	jesx.START.DEV	a o s t	Y
\$S I	CONTROL	jesx.START.INITIATOR	a o s t	Y
\$S LINE(x)	CONTROL	jesx.START.LINE	a o s t	Y
\$S LOGON(x)	CONTROL	jesx.START.LOGON	a o s t	Y
\$S N	CONTROL	jesx.START.NET	a o s t	Y
\$S RMT(x)	CONTROL	jesx.START.RMT	a o s t	Y
\$S SPOOL	CONTROL	jesx.START.SPOOL	a o s t	Y
\$S SRVCLASS	CONTROL	jesx.START.SRVCLASS	a o s t	Y
\$S	CONTROL	jesx.START.SYS	a o s t	Y
\$S XEQ	CONTROL	jesx.START.SYS	a o s t	Y
\$S TRACE(x)	CONTROL	jesx.START.TRACE	a o s t	Y
\$P O J	UPDATE	jesx.STOP.BATOUT	a o s t	Y
\$PO JOB	UPDATE	jesx.STOP.BATOUT	a o s t	Y
\$P device	UPDATE	jesx.STOP.DEV	a o s t	Y
\$P OFFLOADn	UPDATE	jesx.STOP.DEV	a o s t	Y
\$P OFFn.JR	UPDATE	jesx.STOP.DEV	a o s t	Y
\$P OFFn.JT	UPDATE	jesx.STOP.DEV	a o s t	Y
\$P OFFn.SR	UPDATE	jesx.STOP.DEV	a o s t	Y
\$P OFFn.ST	UPDATE	jesx.STOP.DEV	a o s t	Y
\$P I	CONTROL	jesx.STOP.INITIATOR	a o s t	Y
\$P JOBQ	UPDATE	jesx.STOP.JST	a o s t	Y
\$P O JOBQ	UPDATE	jesx.STOP.JSTOUT	a o s t	Y
\$PO JOBQ	UPDATE	jesx.STOP.JSTOUT	a o s t	Y
\$P LINE(x)	CONTROL	jesx.STOP.LINE	a o s t	Y
\$P LOGON(x)	CONTROL	jesx.STOP.LOGON	a o s t	Y
\$P NETSRV	CONTROL	jesx.STOP.NETSRV	a o s t	Y
\$P RMT(x)	CONTROL	jesx.STOP.RMT	a o s t	Y
\$P SPOOL	CONTROL	jesx.STOP.SPOOL	a o s t	Y
\$P SRVCLASS	CONTROL	jesx.STOP.SRVCLASS	a o s t	Y
\$P S	UPDATE	jesx.STOP.STC	a o s t	Y
\$P O S	UPDATE	jesx.STOP.STCOUT	a o s t	Y
\$PO STC	UPDATE	jesx.STOP.STCOUT	a o s t	Y
\$P	CONTROL	jesx.STOP.SYS	a o s t	Y
\$P JES2	CONTROL	jesx.STOP.SYS	a o s t	Y
\$P XEQ	CONTROL	jesx.STOP.SYS	a o s t	Y
\$P TRACE(x)	CONTROL	jesx.STOP.TRACE	a o s t	Y
\$P T	UPDATE	jesx.STOP.TSU	a o s t	Y

CONTROLS ON JES2 SYSTEM COMMANDS				
JES2 command	Access	Resource-Name	Auth	Log
\$P O T	UPDATE	jesx.STOP.TSUOUT	a o s t	Y
\$PO TSU	UPDATE	jesx.STOP.TSUOUT	a o s t	Y
\$VS*	CONTROL	jesx.VS	a o s t	Y
\$ZAPJOB	CONTROL	jesx.ZAP.JOB	a o s t	Y
\$JD DETAILS	READ	jesxMON.DISPLAY.DETAIL	*	
\$JD HISTORY	READ	jesxMON.DISPLAY.HISTORY	*	
\$JD JES	READ	jesxMON.DISPLAY.JES	*	
\$JD MONITOR	READ	jesxMON.DISPLAY.MONITOR	*	
\$JD STATUS	READ	jesxMON.DISPLAY.STATUS	*	
\$J STOP	CONTROL	jesxMON.STOP.MONITOR	a o s t	Y

**Auth column**

a - AUTOAUDT, Automated operations.  
o - OPERAUDT, Operations staff  
s - SYSPAUDT, Systems Programming staff  
t - TSTCAUDT, Trusted Started Tasks  
\* - All Users

\$ - May be given to All Users using SDSF, CA Roscoe, and similar products that interface with a user's input/output requiring the issuing of console commands.

**Log**

Y

Note on ALTER authority on RACF profiles: For discrete profiles, ALTER allows some RACF Administrative functions such as use of the RDELETE Command. For this reason, access should be permitted based on the table above. ALTER should be flagged for all but Security Administrators or where justified by the IAO.

Resource access requirements are based on IBM minimal access requirements. Users that are authorized to have access to the resource can have the access specified or greater. The exceptions are those stated with the resource, resources that specify different accesses to users and above note. Where multiple users have different accesses, an example is one user has READ and another has UPDATE the "access specified or greater" will be to the user with UPDATE.

## 8 Sensitive Utility Requirement

**Table 17- Sensitive Utility Controls**

Referenced by: ACP00320, RACF0770, TSS1040, ACF0380, and ACF0870

SENSITIVE UTILITY CONTROLS			
PROGRAM	PRODUCT	FUNCTION	AUTH
AHLGTF HHLGTF IHLGTF	z/OS	System Activity Tracing	STCGAUDT (users can issue started task only)
ICPIOCP IOPIOCP IXPIOCP IYPIOCP IZPIOCP	z/OS	System Configuration	SYSPAUDT
BLSROPTR	z/OS	Data Management	DASBAUDT DASDAUDT SYSPAUDT
DEBE	OS/DEBE	Data Management	DASDAUDT TAPEAUDT
DITTO	OS/DITTO	Data Management	DASDAUDT TAPEAUDT
FDRZAPOP	FDR	Product Internal Modification	SYSPAUDT
GIMSMP	SMP/E	Change Management Product	AUDTAUDT DABAAUDT SYSPAUDT
ICKDSF	z/OS	DASD Management	DASDAUDT SYSPAUDT
IDCSC01	z/OS	IDCAMS Set Cache Module	SYSPAUDT
IEHINITT	z/OS	Tape Management	TAPEAUDT
IFASMFDL	z/OS	SMF Data Dump Utility	AUDTAUDT PCSPAUDT SECAAUDT SMFBAUDT SYSPAUDT
IND\$FILE	z/OS	PC to Mainframe File Transfer (Applicable only for classified systems)	
CSQJU003 CSQJU004 CSQUCVX CSQ1LOGP	IBM WebSphere MQ		MQSAAUDT

SENSITIVE UTILITY CONTROLS			
PROGRAM	PRODUCT	FUNCTION	AUTH
CSQUTIL	IBM WebSphere MQ		AUDTAUDT MQSAAUDT
WHOIS	z/OS	Share MOD to identify user name from USERID. Restricted to data center personnel only.	DASDAUDT OPERAUDT SYSPAUDT TAPEAUDT

The following Sensitive Utilities will be checked or not checked for the reason specified.

AMDIOCP - May be in use on Fujitsu 5990, 5995a, and 5995m processors.  
 AMZIOCP - May be in use on Fujitsu Millennium and Omniflex processors.  
 DEBE - Check only if DEBE is installed on system.  
 DITTO - Check only if DITTO/ESA is installed on system.  
 FDRZAPOP - Check only if FDR from Innovation Data Processing is installed on system.  
 IND\$FILE - Check only on Classified systems.  
 CSQxxxx - Check only if WebSphere MQ is Installed.



## 9 SMS Program Requirement

Items highlighted in yellow below should be authorized for User / Customer Community upon request.

**DGTFMD01** module is the primary panel / initial entry into ISMF so that should be okay for all users.

**Table 18 - SMS Program Resources**

Referenced by: ZSMS0012

<b>SMS PROGRAM Resources</b>	
<b>SMS Program</b>	<b>Authority</b>
ACBFUTO2	a d e s t
ACBFUTO3	a d e s t
ACBFUTO4	a d e s t
ACBFUTO6	a d e s t
ACBFUTO7	a d e s t
<b>DFQFCND1</b>	*
<b>DFQFHA01</b>	*
<b>DFQFHB01</b>	*
<b>DFQFHBD1</b>	*
<b>DFQFHD01</b>	*
<b>DFQFHM01</b>	*
<b>DFQFHRC1</b>	*
<b>DFQFHRL1</b>	*
DGTFACAT	d e s t
DGTFADAD	d e s t
DGTFAGAA	d e s t
<b>DGTFAGCD</b>	*
DGTFAGDA	d e s t
<b>DGTFAGDI</b>	*
<b>DGTFAGLD</b>	*
<b>DGTFAL01</b>	*
DGTFAL11	d e s t
DGTFALD1	d e s t
DGTFALG1	d e s t
DGTFALH1	d e s t
DGTFALL1	d e s t
DGTFALM1	d e s t
DGTFALP1	d e s t
DGTFALR1	d e s t
DGTFALS1	d e s t

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DGTFALY1	d e s t
DGTFAU01	d e s t
DGTFAU02	d e s t
DGTFAU04	d e s t
DGTFAUL1	d e s t
DGTFAZ01	d e s t
DGTFBR01	*
DGTFBX01	d e s t
DGTFCAD1	d e s t
DGTFCAG1	d e s t
DGTFCAH1	d e s t
DGTFCAL1	d e s t
DGTFCAM1	d e s t
DGTFCAP1	d e s t
DGTFCAR1	d e s t
DGTFCAS1	d e s t
DGTFCAY1	d e s t
DGTFCB01	d e s t
DGTFCLO1	*
DGTFCM01	*
DGTFCN01	d e s t
DGTFCO01	*
DGTFCP01	*
DGTFCPAA	d e s t
DGTFCPCD	d e s t
DGTFCPDA	d e s t
DGTFCPDI	d e s t
DGTFCPLD	d e s t
DGTFCR01	*
DGTFCS01	d e s t
DGTFACT01	d e s t
DGTFCV01	d e s t
DGTFCY01	*
DGTFDCAA	d e s t
DGTFDCCD	*
DGTFDCDA	d e s t
DGTFDCDI	*
DGTFDCLD	*
DGTFDFO1	d e s t
DGTFDID1	*
DGTFDIH1	*
DGTFDIL1	d e s t
DGTFDIM1	*
DGTFDIP1	d e s t

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DGTFDIR1	d e s t
DGTFDIS1	*
DGTFDIY1	d e s t
DGTFDL01	*
DGTFDM01	d e s t
DGTFDND1	d e s t
DGTFDNG1	d e s t
DGTFDNH1	d e s t
DGTFDNL1	d e s t
DGTFDNM1	*
DGTFDNP1	d e s t
DGTFDNR1	d e s t
DGTFDNS1	d e s t
DGTFDNY1	d e s t
DGTFDO01	*
DGTFDP01	*
DGTFDS00	*
DGTFDU01	*
DGTFED01	*
DGTFEF01	d e s t
DGTFEJ01	d e s t
DGTFEL01	d e s t
DGTFER02	d e s t
DGTFFI01	*
DGTFFLAD	d e s t
DGTFFN01	*
DGTFFU01	*
DGTFHI01	*
DGTFIL01	d e s t
DGTFIN01	d e s t
DGTFIV01	d e s t
DGTFJLCD	*
DGTFLCAL	d e s t
DGTFLCCD	d e s t
DGTFLCDE	d e s t
DGTFLCDI	d e s t
DGTFLCLD	d e s t
DGTFLE01	*
DGTFLIC1	d e s t
DGTFLL01	*
DGTFLMAL	d e s t
DGTFLMCD	d e s t
DGTFLMDE	d e s t
DGTFLMDI	d e s t

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DGTFMLMLD	d e s t
DGTFMLVC1	p d e s t
DGTFMLVL1	d e s t
DGTFMCAA	d e s t
DGTFMCCD	*
DGTFMCDA	d e s t
DGTFMCDI	*
DGTFMCLD	*
DGTFMD01	*
DGTFMS00	*
DGTFOVCD	d e s t
DGTFPF00	*
DGTFPF01	*
DGTFPF02	*
DGTFPF03	*
DGTFPF04	*
DGTFPF05	p d e s t
DGTFPF20	d e s t
DGTFPF21	*
DGTFPF22	*
DGTFPR01	*
DGTFRA01	d e s t
DGTFRB01	d e s t
DGTFRC01	*
DGTFRCAL	d e s t
DGTFRCCD	d e s t
DGTFRCDE	d e s t
DGTFRCDI	d e s t
DGTFRCLD	d e s t
DGTFRE01	*
DGTFRF01	d e s t
DGTFRI01	*
DGTFRL01	*
DGTFRML1	d e s t
DGTFRO01	d e s t
DGTFRR00	*
DGTFRT01	*
DGTFRV01	d e s t
DGTFRW01	*
DGTFSAACD	d e s t
DGTFSCAA	d e s t
DGTFSCCD	*
DGTFSCDA	d e s t
DGTFSCDI	*

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DGTFSCLD	*
DGTFSGAR	d e s t
DGTFSGDR	p d e s t
DGTFSGFR	d e s t
DGTFSGLD	p d e s t
DGTFSGVR	d e s t
DGTFSLDS	*
DGTFSO01	*
DGTFSRD1	*
DGTFTVCD	d e s t
DGTFUP01	*
DGTFUS01	*
DGTFVA00	p d e s t
DGTFVLVA	d e s t
DGTFVW01	*

a - AUDTAUDT  
d - DASDAUDT  
e - SECAAUDT  
s - SYSPAUDT  
t - TSTCAUDT  
p - PCSCAUDT  
\* - All Users

## 10 z/OS Baseline Requirements

Referenced by: ACP00340

### **DISA Requirement a. (SD) 527-1 dated 27 Jan 2006 b. INFOCON 3**

Need to Baseline z/OS

1. DISA has determined based upon references (a) and (b) that all 'servers' including z/OS Mainframes shall perform 'baseline' reporting.
2. DISA has acquired throughout the enterprise a product called CA-AUDITOR on z/OS Mainframes. The old and commonly known name of this product is CA-Examine. CA-Auditor provides a new feature available starting with R12 – called "baseline" which uses a started task called EXAMMON. Currently there are 15 functional areas that can be 'baselined' and shall be implemented to meet the DoD requirement for 'baseline' of 'servers' (z/OS Mainframes). For ACP00340, we will only use **two** of these reports.

Basic process required per reference (a):

1. For INFOCON 5 – EXAMMON Policy control statements shall ensure the process run minimally every 180 days with responsible team members validating baseline analysis results (the delta as reported).
2. For INFOCON 4 – EXAMMON Policy control statements shall ensure the process run minimally every 90 days with responsible team members validating baseline analysis results (the delta as reported).
3. For INFOCON 3 – EXAMMON Policy control statements shall ensure the process run minimally every 60 days with responsible team members validating baseline analysis results (the delta as reported).
4. For INFOCON 2 – EXAMMON Policy control statements shall ensure the process run minimally every 30 days with responsible team members validating baseline analysis results (the delta as reported).

CA-Auditor Baseline Functions for ACP00340:

NOTE: These function codes (the numeric codes below) directly correspond to the CA-Auditor panels in such much that "221" is panel "2.2.1" and "243" would then be "2.4.3", just insert a "." between the numbers.

- 221** APF library stats (# of libraries in APF list, # duplicate libraries in APF list, # accessible of libraries in APF list, # of members in APF libraries, # of members linked with AC=1, # of APF libraries in LINKLIST/LPA, # duplicate of APF libraries in LINKLIST/APF, # of accessible APF libraries in LINKLIST/LPA, # of members in authorized LINKLIST/LPA, # of members links AC=1 in LINKLIST/LPA, total # of APF libraries, total # of unique APF libraries , total # of members with AC=1, total % of members with AC=1, APF datasets. This functional name will correspond to the dataset report file name that ends in “CS221C”.
- 243** LPA library display (LPA libraries added/removed, last accessed date for LPA libraries). This functional name will correspond to the dataset report file name that ends in “CS243C”.

Basic Procedures to get started:

1. Procedures required to fully implement Baseline Functions on z/OS Mainframe domains that are licensed for CA-AUDITOR:

Software CA-Auditor R12SP00 or most current version must be installed. Validate that the EXAMMON policy control statements are set to run the baseline per the required schedule (weekly, monthly, every 60 days, etc.) Details as to the format of the policy control statements/records are found in the technical reference guide for CA-Auditor – Chapter 13. Ensure local procedures are in place to have the responsible team members’ review the output of the Baseline reports (as stored in the specific GDG Datasets) and review/process of the online Alerts per each Mainframe domain.

Datasets that contain the actual baseline reports:

**NOTE:** These are merely examples, the actual dataset names depend upon the DISA Site and domain implementation and definition of the GDG bases. Regardless, all report dataset last qualifier will indicate the “report name” such as “2.2.1.” CA-Auditor panel corresponds to the Policy Control Function name of “221” and corresponds to the report dataset that ends in “CS221C” as documented above. CA-Auditor dynamically builds the “mem” as part of the automated process which is used as input for the actual report dataset name. **The output data sets must be a GDG data sets.**

**SYSID** = ‘SYSID’ of System Baseline is running on

**ACP** = ‘ACP’ running on Baseline System ex. (ACF2, RACF, TSS)

SYSID ACP.BASELINE.FUNCTION.CS221C

SYSID.ACP.BASELINE.FUNCTION.CS221C.G0001V00

SYSID ACP.BASELINE.FUNCTION.CS243C

SYSID ACP.BASELINE.FUNCTION.CS243C.G0001V00

See Sample output below:

Report CS221C:

PAGE

ETRUST CA EXAMINE BASELINE ANALYSIS INFORMATION

BASELINE ANALYSIS DATA

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-----

=====

BASELINE CHANGE DELTA DETAIL

FUNCTION: 2.2.1 APF STATS SUMMARY

BASELINE DATE: TUESDAY, 16 DECEMBER 2008 TIME: 11:10:46

CURRENT DATE: SUNDAY, 26 APRIL 2009 TIME: 05:23:01

SYSTEM SMFID: XXX

=====

- BASELINE: NUMBER OF LIBS IN APF LIST: 180
- CURRENT : NUMBER OF LIBS IN APF LIST: 181
- THE NUMBER OF APF LIBRARIES DIFFERS FROM THE SAVED BASELINE
- A CHANGE WAS MADE TO THE APF LIST
- IDENTIFY HOW CHANGE WAS MADE, WHETHER IT IS PROPER
  
- BASELINE: NUMBER OF ACCESSIBLE LIBS IN APF LIST: 180
- CURRENT : NUMBER OF ACCESSIBLE LIBS IN APF LIST: 180
- THE NUMBER OF ACCESSIBLE APF LIBS DIFFERS FROM SAVED BASELINE
- DATA SETS ARCHIVED/DELETED/MOVED/UNCATALOGED/RECATALOGED
- IDENTIFY WHY CHANGE OCCURED, VERIFY IF IT IS PROPER



- 
- BASELINE: NUMBER OF MEMBERS IN ACCESSIBLE APF LIBS: 56,679
  - CURRENT : NUMBER OF MEMBERS IN ACCESSIBLE APF LIBS: 56,679
  - THE # OF MEMBERS IN ACCESSIBLE APF LIBS DIFFERS FROM SAVED BASELINE
  - NUMEROUS METHODS
  - VALIDATE SPECIFIC CHANGE(S), VERIFY IF PROPER
- 
- BASELINE: NUMBER OF MEMBERS LINKED AC=1 IN APF LIST: 4,295
  - CURRENT : NUMBER OF MEMBERS LINKED AC=1 IN APF LIST: 4,320
  - THE NUMBER OF AC=1 APF MEMBERS DIFFERS FROM SAVED BASELINE
  - NUMEROUS METHODS
  - VALIDATE SPECIFIC CHANGE(S), VERIFY IF PROPER
- 
- BASELINE: NUMBER OF MEMBERS IN AUTHORIZED LINKLIST: 30,499
  - CURRENT : NUMBER OF MEMBERS IN AUTHORIZED LINKLIST: 30,499
  - NUMBER OF AUTHORIZED LINKLIST LIB MEMBERS DIFFERS FROM BASELINE
  - NUMEROUS METHODS
  - VALIDATE SPECIFIC CHANGE(S), VERIFY IF PROPER
- 
- BASELINE: NUMBER LINKED WITH AC=1 IN LINKLIST: 1,876
  - CURRENT : NUMBER LINKED WITH AC=1 IN LINKLIST: 1,876
  - NUMBER AC=1 LINKLIST MEMBERS DIFFERS FROM BASELINE
  - NUMEROUS METHODS
  - VALIDATE SPECIFIC CHANGE(S), VERIFY IF PROPER
- 
- BASELINE: TOTAL NUMBER OF APF LIBS: 266
  - CURRENT : TOTAL NUMBER OF APF LIBS: 266
  - NUMBER OF APF LIBRARIES DIFFERS FROM BASELINE

- NUMEROUS METHODS
- VALIDATE SPECIFIC CHANGE(S), VERIFY IF PROPER

xxx

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ETRUST CA EXAMINE BASELINE ANALYSIS INFORMATION

- BASELINE: TOTAL OF UNIQUE APF LIBS: 181
- CURRENT : TOTAL OF UNIQUE APF LIBS: 181
- NUMBER OF UNIQUE APF LIBS DIFFERS FROM BASELINE
- NUMEROUS METHODS
- VALIDATE SPECIFIC CHANGE(S), VERIFY IF PROPER
- BASELINE: TOTAL OF ACCESSIBLE APF LIBS: 181
- CURRENT : TOTAL OF ACCESSIBLE APF LIBS: 181
- NUMBER ACCESSIBLE APF LIBS DIFFERS FROM BASELINE
- NUMEROUS METHODS
- VALIDATE SPECIFIC CHANGE(S), VERIFY IF PROPER
- BASELINE: TOTAL OF UNIQUE MEMBERS IN APF LIBS: 56,825
- CURRENT : TOTAL OF UNIQUE MEMBERS IN APF LIBS: 56,825
- NUMBER UNIQUE APF MEMBERS DIFFERS FROM BASELINE
- NUMEROUS METHODS
- VALIDATE SPECIFIC CHANGE(S), VERIFY IF PROPER
- BASELINE: TOTAL MEMBERS WITH AC=1: 4,295
- CURRENT : TOTAL MEMBERS WITH AC=1: 4,295
- NUMBER AC=1 MEMBERS DIFFERS FROM BASELINE
- NUMEROUS METHODS
- VALIDATE SPECIFIC CHANGE(S), VERIFY IF PROPER
- BASELINE: PERCENTAGE OF AC=1: 7.56
- CURRENT : PERCENTAGE OF AC=1: 7.56
- AC=1 PERCENTAGE DIFFERS FROM BASELINE
- NUMEROUS METHODS
- USE AS GUIDE - AUDIT SPECIFIC MEMBERS IF IS OF CONCERN

=====

BASELINE CHANGE DELTA DETAIL

FUNCTION: 2.2.1 APF DATASETS

BASELINE DATE: TUESDAY, 16 DECEMBER 2008 TIME: 11:10:46

CURRENT DATE: SUNDAY, 26 APRIL 2009 TIME: 05:23:01

SYSTEM SMFID: XXX

=====

- BASELINE: APF DSN HAD THE FOLLOWING STATS:
- DSN: SYS2A.CADELIVE.V110701.CAILIB VOL: MYASS3
- NUMBER OF MEMBERS WITH AC=1: 124 TOTAL MEMBERS: 326
- CURRENT : APF DSN HAS THE FOLLOWING STATS:
- DSN: SYS2A.CADELIVE.V110701.CAILIB VOL: MYASS3
- NUMBER OF MEMBERS WITH AC=1: 124 TOTAL MEMBERS: 327
  
- BASELINE: APF DSN HAD THE FOLLOWING STATS:
- DSN: SYS2A.TSS.V12SP01.CAILIB VOL: MYASS1
- NUMBER OF MEMBERS WITH AC=1: 89 TOTAL MEMBERS: 382
- CURRENT : APF DSN HAS THE FOLLOWING STATS:
- DSN: SYS2A.TSS.V12SP01.CAILIB VOL: MYASS1
- NUMBER OF MEMBERS WITH AC=1: 90 TOTAL MEMBERS: 382

XXX  
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ETRUST CA EXAMINE BASELINE ANALYSIS INFORMATION

- BASELINE: APF DSN HAD THE FOLLOWING STATS:
- DSN: SYS2A.VIEW.V110603.CAILIB VOL: MYASS3
- NUMBER OF MEMBERS WITH AC=1: 35 TOTAL MEMBERS: 281
- CURRENT : APF DSN HAS THE FOLLOWING STATS:
- DSN: SYS2A.VIEW.V110603.CAILIB VOL: MYASS3

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- NUMBER OF MEMBERS WITH AC=1: 35 TOTAL MEMBERS: 282

xxx

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ETRUST CA EXAMINE AUDITING APF LIBRARY STATISTICS SUMMARY

PRESS ENTER FOR DETAILED DISPLAY.

```

+----- APF LIST INFORMATION -----+----- LINK LIST INFORMATION
+-----+
|
| LIBRARY NAMES SPECIFIED: 181 | APF LIBRARIES SPECIFIED: 86
|
| DUPLICATE LIBRARY NAMES: 0 | DUPLICATE LIBRARY NAMES: 0
|
| ACCESSIBLE LIBRARIES: 181 | ACCESSIBLE LIBRARIES: 86
|
| ACCESSED LIBRARY MEMBERS: 55,242 | ACCESSED LIBRARY MEMBERS:
30,505 |
| JOBSTEP APF AUTH MEMBERS: 4,320 | JOBSTEP APF AUTH MEMBERS:
1,877 |
|
|
|
| --- CONSOLIDATED LIST INFORMATION ---+----- LINK PACK AREA
-----+
|
| LIBRARY NAMES SPECIFIED: 267 | NUMBER OF UNIQUE MODULES:
2,362 |
| NET UNIQUE LIBRARY NAMES: 182 | JOBSTEP APF AUTH MODULES: 327
|
| NET ACCESSIBLE LIBRARIES: 182 | PERCENT AUTHORIZED:
13.84 |
| ACCESSED LIBRARY MEMBERS: 55,388 |
|
| JOBSTEP APF AUTH MEMBERS: 4,320 | MEMORY-BASED LPA IS AN
ADDITIONAL |
| PERCENT AUTHORIZED: 7.80 | SOURCE OF APF-AUTHORIZED
MODULES |
|
|
+-----+-----+
-----+

```

**Report: CS243C:**

xxx

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ETRUST CA EXAMINE BASELINE ANALYSIS INFORMATION

## BASELINE ANALYSIS DATA

-----  
-----

## =====

## BASELINE CHANGE DELTA DETAIL

FUNCTION: 2.4.1 KEY APF LIBRARIES

BASELINE DATE: TUESDAY, 16 DECEMBER 2008 TIME: 11:11:26

CURRENT DATE: SUNDAY, 26 APRIL 2009 TIME: 05:23:12

SYSTEM SMFID: xxx

=====

...

- THE FOLLOWING APF LIBS WERE ADDED:

- DSN: SYS2.CICSTS.V320807.CPSM.SEYUAUTH VOL: MYAS26

- DSN: SYS2.CICSTS.V320807.SDFHAUTH VOL: MYAS44

- DSN: SYS2.CICSTS.V320807.SDFJAUTH VOL: MYAS49

- DSN: SYS2.CICSTS.V320807.SDFJLPA VOL: MYAS2K

- DSN: SYS2.MICS.V120804.LOADLIB VOL: xxxxxx

- DSN: SYS2.MIMGR.V116SP02.APFLOAD VOL: xxxxxx

- DSN: SYS2.QUICKREF.V690.QWILINK VOL: xxxxxx

- DSN: SYS2.SYMUPDTE.V05325.LOAD VOL: xxxxxx

- DSN: SYS2A.CICSTS.V320807.CPSM.SEYULINK VOL: xxxxxx

- DSN: SYS2A.CICSTS.V320807.CPSM.SEYULPA VOL: xxxxxx

---

- DSN: SYS2A.CICSTS.V320807.SDFHEXCI VOL: xxxxxxx
- DSN: SYS2A.CICSTS.V320807.SDFHLINK VOL: xxxxxxx
- DSN: SYS2A.CICSTS.V320807.SDFHLPA VOL: xxxxxxx
  
- THE FOLLOWING APF LIBS WERE REMOVED:
- DSN: SYS2.CICSTS.V310601.CPSM.SEYUAUTH VOL: xxxxxxx
- DSN: SYS2.CICSTS.V310601.SDFHAUTH VOL: xxxxxxx
- DSN: SYS2.CICSTS.V310601.SDFJLPA VOL: xxxxxxx
- DSN: SYS2.CICSTS.V310611.SDFJAUTH VOL: xxxxxxx
- DSN: SYS2.MIMGR.V116.APFLOAD VOL: xxxxxxx
- DSN: SYS2.QUICKREF.V680.QWILINK VOL: xxxxxxx
- DSN: SYS2.SYMUPTDE.V01271.LOAD VOL: xxxxxxx
- DSN: SYS2A.CICSTS.V310601.CPSM.SEYULINK VOL: xxxxxxx
- DSN: SYS2A.CICSTS.V310601.SDFHEXCI VOL: xxxxxxx
- DSN: SYS2A.CICSTS.V310601.SDFHLINK VOL: xxxxxxx
- DSN: SYS2A.CICSTS.V310611.CPSM.SEYULPA VOL: xxxxxxx
- DSN: SYS2A.CICSTS.V310611.SDFHLPA VOL: xxxxxxx

\*\*\*\*\* Bottom of Data \*\*\*\*\*

## 11 Product Requirements

### 11.1 General Installed Product Information

Installed product will have checks for the protection of the installation datasets; privileged function datasets; datasets used by the product or product configuration datasets. To assist in the review, certain examples maybe identified for clarity of explanation of certain installation, STC, JCL, and user dataset categories.

Please note that the data sets and/or data set prefixes identified are only examples of a possible installation. The actual data sets and/or prefixes are determined when the product is actually installed on a system through the product's installation guide and can be site specific. The site's Product System programmer will have the specific information for each installation.,

### 11.2 BMC INCONTROL Resource Requirements

Table 19 - BMC IOA Resources

Referenced by: ZIOA0020

Resource Names	Logging	User Group	Access
\$\$ADDCND	None	AUTOAUDT OPERAUDT PCSPAUDT PRODAUDT SYSPAUDT	Alter
\$\$ADDCTL	Read	OPERAUDT PCSPAUDT PRODAUDT SYSPAUDT	Alter
\$\$ADDRES	Read	OPERAUDT PCSPAUDT PRODAUDT SYSPAUDT	Alter
\$\$CHARES	Read	OPERAUDT PCSPAUDT PRODAUDT SYSPAUDT	Alter
\$\$CHKCND	None	OPERAUDT PCSPAUDT SYSPAUDT	Alter
\$\$CHKCTL	None	OPERAUDT PCSPAUDT PRODAUDT SYSPAUDT	Alter
\$\$CHKRES	None	OPERAUDT	Alter

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Resource Names	Logging	User Group	Access
		PCSPAUDT SYSPAUDT	
\$\$DELCND	None	AUTOAUDT OPERAUDT PCSPAUDT PRODAUDT SYSPAUDT	Alter
\$\$DELCTL	Read	OPERAUDT PCSPAUDT SYSPAUDT	Alter
\$\$DELRES	Read	OPERAUDT PCSPAUDT SYSPAUDT	Alter
\$\$ERACND	Read	OPERAUDT PCSPAUDT SYSPAUDT	Alter
\$\$IOAAS	Read	OPERAUDT PCSPAUDT SYSPAUDT	Alter
\$\$IOACMD	Read	AUTOAUDT OPERAUDT PCSPAUDT SYSPAUDT	Alter
\$\$IOADEL	None	DPCSAUDT OPERAUDT PCSPAUDT SYSPAUDT	Alter
\$\$IOADIR	None	*	Alter
\$\$IOAEDM	None	*	Alter
\$\$IOAEDT	None	DPCSAUDT OPERAUDT PCSPAUDT SYSPAUDT	Alter
\$\$IOAGL	Read	OPERAUDT PCSPAUDT SYSPAUDT	Alter
\$\$IOAONLINE	None	OPERAUDT PCSPAUDT SYSPAUDT	Alter
\$\$IOARES	Read	OPERAUDT PCSPAUDT SYSPAUDT	Alter
\$\$IOASAV	None	DPCSAUDT OPERAUDT	Alter



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<b>Resource Names</b>	<b>Logging</b>	<b>User Group</b>	<b>Access</b>
		PCSPAUDT SYSPAUDT	
\$\$IOAUTL	Read	AUTOAUDT OPERAUDT PCSPAUDT SYSPAUDT	Alter
\$\$IOAVIW	None	DPCSAUDT OPERAUDT PCSPAUDT SYSPAUDT	Alter
\$\$NEWCND	None	OPERAUDT PCSPAUDT SYSPAUDT	Alter
\$\$SECIOA.qname	None	*	Alter

**Table 20 – BMC CONTROL-D Resources**

Referenced by: ZCTD0020

<b>Resource Names</b>	<b>Logging</b>	<b>User Group</b>	<b>Access</b>
\$\$ADDNOT	None	APPSAUDT OPERAUDT PCSPAUDT SYSPAUDT	Alter
\$\$ADNASR	None	APPSAUDT OPERAUDT PCSPAUDT SYSPAUDT	Alter
\$\$BKPORD	None	APPSAUDT BMC STCs OPERAUDT PCSPAUDT SYSPAUDT	Alter
\$\$CDDSEL	None	APPSAUDT SYSPAUDT	Alter
\$\$CHKRCL	Read	APPSAUDT OPERAUDT PCSPAUDT SYSPAUDT	Alter
\$\$CTDACT	Read	APPSAUDT OPERAUDT PCSPAUDT SYSPAUDT	Alter
\$\$CTDASR	Read	APPSAUDT OPERAUDT PCSPAUDT SYSPAUDT	Alter
\$\$CTDCDD	Read	APPSAUDT OPERAUDT PCSPAUDT SYSPAUDT	Alter
\$\$CTDEDM	None	APPSAUDT OPERAUDT PCSPAUDT SYSPAUDT	Alter
\$\$CTDJOB	None	APPSAUDT OPERAUDT PCSPAUDT SYSPAUDT	Alter
\$\$CTDOBJ	Read	APPSAUDT OPERAUDT	Alter

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Resource Names	Logging	User Group	Access
		PCSPAUDT SYSPAUDT	
\$\$CTDPNLA	None	APPSAUDT OPERAUDT PCSPAUDT SYSPAUDT	Alter
\$\$CTDPNLF	Read	APPSAUDT OPERAUDT PCSPAUDT SYSPAUDT	Alter
\$\$CTDPREFIX	None	APPSAUDT OPERAUDT PCSPAUDT SYSPAUDT	Alter
\$\$CTDPRF	None	APPSAUDT OPERAUDT PCSPAUDT SYSPAUDT	Alter
\$\$CTDRRST	None	APPSAUDT OPERAUDT PCSPAUDT SYSPAUDT	Alter
\$\$DELNOT	None	APPSAUDT OPERAUDT PCSPAUDT SYSPAUDT	Alter
\$\$DLNASR	None	APPSAUDT OPERAUDT PCSPAUDT SYSPAUDT	Alter
\$\$DPC1VIE	Read	APPSAUDT OPERAUDT PCSPAUDT SYSPAUDT	Alter
\$\$DPC2FRE	Read	APPSAUDT OPERAUDT PCSPAUDT SYSPAUDT	Alter
\$\$DPC2HLD	None	APPSAUDT OPERAUDT PCSPAUDT SYSPAUDT	Alter
\$\$DPC3DEL	Read	APPSAUDT OPERAUDT	Alter

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<b>Resource Names</b>	<b>Logging</b>	<b>User Group</b>	<b>Access</b>
		PCSPAUDT SYSPAUDT	
\$\$DPC3PRN	Read	APPSAUDT OPERAUDT PCSPAUDT SYSPAUDT	Alter
\$\$DPC4TRN	Read	APPSAUDT OPERAUDT PCSPAUDT SYSPAUDT	Alter
\$\$EDITNO	None	APPSAUDT OPERAUDT PCSPAUDT SYSPAUDT	Alter
\$\$EDNASR	None	APPSAUDT OPERAUDT PCSPAUDT SYSPAUDT	Alter
\$\$EXTENT	None	APPSAUDT OPERAUDT PCSPAUDT SYSPAUDT	Alter
\$\$GIPASR	Read	APPSAUDT OPERAUDT PCSPAUDT SYSPAUDT	Alter
\$\$GIVETO	Read	APPSAUDT SYSPAUDT	Alter
\$\$IPRASR	Read	APPSAUDT OPERAUDT PCSPAUDT SYSPAUDT	Alter
\$\$MIS1ZOO	Read	APPSAUDT OPERAUDT PCSPAUDT SYSPAUDT	Alter
\$\$MIS1LOG	Read	APPSAUDT OPERAUDT PCSPAUDT SYSPAUDT	Alter
\$\$MIS2FRE	None	APPSAUDT OPERAUDT PCSPAUDT SYSPAUDT	Alter

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<b>Resource Names</b>	<b>Logging</b>	<b>User Group</b>	<b>Access</b>
\$\$MIS2HLD	None	APPSAUDT OPERAUDT PCSPAUDT SYSPAUDT	Alter
\$\$MIS2RRN	None	APPSAUDT OPERAUDT PCSPAUDT SYSPAUDT	Alter
\$\$MIS3CHA	Read	APPSAUDT OPERAUDT PCSPAUDT SYSPAUDT	Alter
\$\$MIS3DEL	Read	APPSAUDT OPERAUDT PCSPAUDT SYSPAUDT	Alter
\$\$MIS3PPL	Read	APPSAUDT OPERAUDT PCSPAUDT SYSPAUDT	Alter
\$\$MIS3UPD	Read	APPSAUDT OPERAUDT PCSPAUDT SYSPAUDT	Alter
\$\$PAGI	None	APPSAUDT OPERAUDT PCSPAUDT SYSPAUDT	Alter
\$\$PAGII	None	APPSAUDT OPERAUDT PCSPAUDT SYSPAUDT	Alter
\$\$PAGIII	None	APPSAUDT OPERAUDT PCSPAUDT SYSPAUDT	Alter
\$\$PGASRI	None	APPSAUDT OPERAUDT PCSPAUDT SYSPAUDT	Alter
\$\$PGASRII	None	APPSAUDT OPERAUDT PCSPAUDT SYSPAUDT	Alter

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Resource Names	Logging	User Group	Access
\$PGASRII	None	APPSAUDT OPERAUDT PCSPAUDT SYSPAUDT	Alter
\$PRTORD	Read	APPSAUDT OPERAUDT PCSPAUDT SYSPAUDT	Alter
\$RCPASR	Read	APPSAUDT OPERAUDT PCSPAUDT SYSPAUDT	Alter
\$RDLASR	Read	APPSAUDT OPERAUDT PCSPAUDT SYSPAUDT	Alter
\$RECALL	Read	APPSAUDT OPERAUDT PCSPAUDT SYSPAUDT	Alter
\$RECDEL	Read	APPSAUDT SYSPAUDT	Alter
\$RECHEX	None	APPSAUDT OPERAUDT PCSPAUDT SYSPAUDT	Alter
\$RECINS	Read	APPSAUDT SYSPAUDT	Alter
\$RECIPR	None	APPSAUDT OPERAUDT PCSPAUDT SYSPAUDT	Alter
\$RECRPR	None	APPSAUDT OPERAUDT PCSPAUDT SYSPAUDT	Alter
\$RECRST	None	APPSAUDT OPERAUDT PCSPAUDT SYSPAUDT	Alter
\$RECUPD	None	APPSAUDT OPERAUDT PCSPAUDT SYSPAUDT	Alter

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Resource Names	Logging	User Group	Access
\$\$REPLST	Read	APPSAUDT OPERAUDT PCSPAUDT SYSPAUDT	Alter
\$\$REPOD	None	APPSAUDT OPERAUDT PCSPAUDT SYSPAUDT	Alter
\$\$RMVASR	Read	APPSAUDT OPERAUDT PCSPAUDT SYSPAUDT	Alter
\$\$RPRASR	None	APPSAUDT OPERAUDT PCSPAUDT SYSPAUDT	Alter
\$\$RSTASR	Read	APPSAUDT OPERAUDT PCSPAUDT SYSPAUDT	Alter
\$\$RSTORD	None	APPSAUDT BMC STCs OPERAUDT PCSPAUDT SYSPAUDT	Alter
\$\$RULONF	None	APPSAUDT OPERAUDT PCSPAUDT SYSPAUDT	Alter
\$\$RULSAV	None	APPSAUDT OPERAUDT PCSPAUDT SYSPAUDT	Alter
\$\$SECCTD.qname	None	*	Alter
\$\$SHNASR	None	APPSAUDT OPERAUDT PCSPAUDT SYSPAUDT	Alter
\$\$TREE	None	APPSAUDT OPERAUDT PCSPAUDT SYSPAUDT	Alter
\$\$UNRSTR	Read	APPSAUDT OPERAUDT	Alter

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Resource Names	Logging	User Group	Access
		PCSPAUDT SYSPAUDT	
\$\$UPDASR	Read	APPSAUDT OPERAUDT PCSPAUDT SYSPAUDT	Alter
\$\$UPDNOT	Read	APPSAUDT OPERAUDT PCSPAUDT SYSPAUDT	Alter
\$\$UPNASR	Read	APPSAUDT OPERAUDT PCSPAUDT SYSPAUDT	Alter
\$\$UPRASR	Read	APPSAUDT OPERAUDT PCSPAUDT SYSPAUDT	Alter
\$\$VEWUPD	None	APPSAUDT OPERAUDT PCSPAUDT SYSPAUDT	Alter
\$\$VIEASR	None	APPSAUDT OPERAUDT PCSPAUDT SYSPAUDT	Alter
\$\$VIEWCO	None	APPSAUDT OPERAUDT PCSPAUDT SYSPAUDT	Alter
\$\$VIEWNO	None	APPSAUDT OPERAUDT PCSPAUDT SYSPAUDT	Alter
\$\$VWNASR	None	APPSAUDT OPERAUDT PCSPAUDT SYSPAUDT	Alter



**Table 21 – BMC CONTROL-M Resources**

Referenced by: ZCTM0020

<b>Resource Names</b>	<b>Logging</b>	<b>User Group</b>	<b>Access</b>
\$\$CTMEDM	None	*	Alter
\$\$CTMPNL3	None	BMC STCs OPERAUDT PCSPAUDT SYSPAUDT	Alter
\$\$CTMSTC	Read	BMC STCs PCSPAUDT SYSPAUDT	Alter READ READ
\$\$JOB1ACT	None	OPERAUDT PCSPAUDT PRODAUDT SYSPAUDT	Alter
\$\$JOB1AES	None	OPERAUDT PCSPAUDT PRODAUDT SYSPAUDT	Alter
\$\$JOB1LOG	None	OPERAUDT PCSPAUDT PRODAUDT SYSPAUDT	Alter
\$\$JOB1STA	None	OPERAUDT PCSPAUDT PRODAUDT SYSPAUDT	Alter
\$\$JOB1SYS	None	OPERAUDT PCSPAUDT PRODAUDT SYSPAUDT	Alter
\$\$JOB1ZOO	None	OPERAUDT PCSPAUDT PRODAUDT SYSPAUDT	Alter
\$\$JOB2CHA	None	OPERAUDT PCSPAUDT PRODAUDT SYSPAUDT	Alter
\$\$JOB2CNF	None	OPERAUDT PCSPAUDT PRODAUDT SYSPAUDT	Alter
\$\$JOB2FOK	None	OPERAUDT	Alter

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Resource Names	Logging	User Group	Access
		PCSPAUDT PRODAUDT SYSPAUDT	
\$\$JOB2FRE	None	OPERAUDT PCSPAUDT PRODAUDT SYSPAUDT	Alter
\$\$JOB2HLD	None	OPERAUDT PCSPAUDT PRODAUDT SYSPAUDT	Alter
\$\$JOB2RRN	None	OPERAUDT PCSPAUDT PRODAUDT SYSPAUDT	Alter
\$\$JOB3CHA	None	OPERAUDT PCSPAUDT PRODAUDT SYSPAUDT	Alter
\$\$JOB3DEL	None	OPERAUDT PCSPAUDT PRODAUDT SYSPAUDT	Alter
\$\$JOB3EDI	None	OPERAUDT PCSPAUDT PRODAUDT SYSPAUDT	Alter
\$\$JOB3KIL	None	OPERAUDT PCSPAUDT PRODAUDT SYSPAUDT	Alter
\$\$JOB3PRI.	None	OPERAUDT PCSPAUDT PRODAUDT SYSPAUDT	Alter
\$\$JOBORD	None	OPERAUDT PCSPAUDT PRODAUDT SYSPAUDT	Alter
\$\$REFALL	None	OPERAUDT PCSPAUDT PRODAUDT SYSPAUDT	Alter
\$\$REFDEAD	None	OPERAUDT	Alter

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<b>Resource Names</b>	<b>Logging</b>	<b>User Group</b>	<b>Access</b>
		PCSPAUDT PRODAUDT SYSPAUDT	
\$\$REFNET	None	OPERAUDT PCSPAUDT PRODAUDT SYSPAUDT	Alter
\$\$REFPROP	None	OPERAUDT PCSPAUDT PRODAUDT SYSPAUDT	Alter
\$\$REGSTR	Read	OPERAUDT PCSPAUDT PRODAUDT SYSPAUDT	Alter
\$\$SECCTM.qname	None	*	Alter
\$\$STCORD	None	OPERAUDT PCSPAUDT PRODAUDT SYSPAUDT	Alter
\$\$STRSTC	None	OPERAUDT PCSPAUDT PRODAUDT SYSPAUDT	Alter

**Table 22 – BMC CONTROL-O Resources**

Referenced by: ZCTO0020

<b>Resource Names</b>	<b>Logging</b>	<b>User Group</b>	<b>Access</b>
\$\$CTOAOP	Read	OPERAUDT PCSPAUDT PRODAUDT SYSPAUDT	Alter
\$\$CTOASK	None	OPERAUDT PCSPAUDT PRODAUDT SYSPAUDT	Alter
\$\$CTOCMD	Read	OPERAUDT PCSPAUDT PRODAUDT SYSPAUDT	Alter
\$\$CTOCMO	None	OPERAUDT PCSPAUDT PRODAUDT SYSPAUDT	Alter
\$\$CTODOM	None	OPERAUDT PCSPAUDT PRODAUDT SYSPAUDT	Alter
\$\$CTODRL	None	OPERAUDT PCSPAUDT PRODAUDT SYSPAUDT	Alter
\$\$CTODSN	None	OPERAUDT PCSPAUDT PRODAUDT SYSPAUDT	Alter
\$\$CTODSP	None	OPERAUDT PCSPAUDT PRODAUDT SYSPAUDT	Alter
\$\$CTOEDM	None	OPERAUDT PCSPAUDT PRODAUDT SYSPAUDT	Alter
\$\$CTOENV	None	OPERAUDT PCSPAUDT PRODAUDT SYSPAUDT	Alter
\$\$CTOJAR	None	OPERAUDT	Alter

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<b>Resource Names</b>	<b>Logging</b>	<b>User Group</b>	<b>Access</b>
		PCSPAUDT PRODAUDT SYSPAUDT	
\$\$CTOJED	None	OPERAUDT PCSPAUDT PRODAUDT SYSPAUDT	Alter
\$\$CTOJSO	None	OPERAUDT PCSPAUDT PRODAUDT SYSPAUDT	Alter
\$\$CTOJST	None	OPERAUDT PCSPAUDT PRODAUDT SYSPAUDT	Alter
\$\$CTOKSL	None	OPERAUDT PCSPAUDT PRODAUDT SYSPAUDT	Alter
\$\$CTOMSG	None	OPERAUDT PCSPAUDT PRODAUDT SYSPAUDT	Alter
\$\$CTOONC	None	OPERAUDT PCSPAUDT PRODAUDT SYSPAUDT	Alter
\$\$CTOONM	None	OPERAUDT PCSPAUDT PRODAUDT SYSPAUDT	Alter
\$\$CTOONP	None	OPERAUDT PCSPAUDT PRODAUDT SYSPAUDT	Alter
\$\$CTOORD	Read	OPERAUDT PCSPAUDT PRODAUDT SYSPAUDT	Alter
\$\$CTOORL	None	OPERAUDT PCSPAUDT PRODAUDT SYSPAUDT	Alter
\$\$CTOPCM	None	OPERAUDT	Alter

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Resource Names	Logging	User Group	Access
		PCSPAUDT PRODAUDT SYSPAUDT	
\$\$CTOPKS	None	OPERAUDT PCSPAUDT PRODAUDT SYSPAUDT	Alter
\$\$CTOPNLOS	None	OPERAUDT PCSPAUDT SYSPAUDT	Alter
\$\$CTOPRC	Read	OPERAUDT PCSPAUDT PRODAUDT SYSPAUDT	Alter
\$\$CTOPTS	Read	OPERAUDT PCSPAUDT PRODAUDT SYSPAUDT	Alter
\$\$CTORES	None	OPERAUDT PCSPAUDT PRODAUDT SYSPAUDT	Alter
\$\$CTORTS	Read	OPERAUDT PCSPAUDT PRODAUDT SYSPAUDT	Alter
\$\$CTORUL	None	OPERAUDT PCSPAUDT PRODAUDT SYSPAUDT	Alter
\$\$CTOSET	None	OPERAUDT PCSPAUDT PRODAUDT SYSPAUDT	Alter
\$\$CTOSRL	None	OPERAUDT PCSPAUDT PRODAUDT SYSPAUDT	Alter
\$\$CTOSRQ	None	OPERAUDT PCSPAUDT PRODAUDT SYSPAUDT	Alter
\$\$CTOSTP	None	OPERAUDT PCSPAUDT	Alter

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Resource Names	Logging	User Group	Access
		PRODAUDT SYSPAUDT	
\$\$CTOSUP	None	OPERAUDT PCSPAUDT PRODAUDT SYSPAUDT	Alter
\$\$CTOTSO	Read	OPERAUDT PCSPAUDT PRODAUDT SYSPAUDT	Alter
\$\$CTOXAM	Read	OPERAUDT PCSPAUDT PRODAUDT SYSPAUDT	Alter
\$\$CTOXAM.qname.TYPE1INI	Read	OPERAUDT PCSPAUDT PRODAUDT SYSPAUDT	Alter
\$\$CTOXAM.qname.TYPE1RSL	Read	OPERAUDT PCSPAUDT PRODAUDT SYSPAUDT	Alter
\$\$CTOXAM.qname.TYPE1TRM	Read	OPERAUDT PCSPAUDT PRODAUDT SYSPAUDT	Alter
\$\$CTOXAM.qname.TYPE2LOC	Read	OPERAUDT PCSPAUDT PRODAUDT SYSPAUDT	Alter
\$\$CTOXAM.qname.TYPE3GLB	Read	OPERAUDT PCSPAUDT PRODAUDT SYSPAUDT	Alter
\$\$CTOXAM.qname.TYPE3RUL	Read	OPERAUDT PCSPAUDT PRODAUDT SYSPAUDT	Alter
\$\$CTOXAMF	Read	OPERAUDT PCSPAUDT PRODAUDT SYSPAUDT	Alter
\$\$IOARES	None	OPERAUDT PCSPAUDT	Alter

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<b>Resource Names</b>	<b>Logging</b>	<b>User Group</b>	<b>Access</b>
		PRODAUDT SYSPAUDT	
\$\$RUL1LOG	None	OPERAUDT PCSPAUDT PRODAUDT SYSPAUDT	Alter
\$\$RUL1ZOO	None	OPERAUDT PCSPAUDT PRODAUDT SYSPAUDT	Alter
\$\$RUL2FRE	None	OPERAUDT PCSPAUDT PRODAUDT SYSPAUDT	Alter
\$\$RUL2HLD	None	OPERAUDT PCSPAUDT PRODAUDT SYSPAUDT	Alter
\$\$RUL2MOD	None	OPERAUDT PCSPAUDT PRODAUDT SYSPAUDT	Alter
\$\$RUL2RES	None	OPERAUDT PCSPAUDT PRODAUDT SYSPAUDT	Alter
\$\$RUL3CAN	Read	OPERAUDT PCSPAUDT PRODAUDT SYSPAUDT	Alter
\$\$RUL3DEL	Read	OPERAUDT PCSPAUDT PRODAUDT SYSPAUDT	Alter
\$\$SECCTO.qname	None	*	Alter



**Table 23 - BMC INCONTROL Resources Description**

<b>Resource Names</b>	<b>Description</b>
\$\$ADDCND	Add a condition name.
\$\$ADDCTL	Add a Control Resource.
\$\$ADDNOT	Add NOTES to a report.
\$\$ADDRES	Add a Quantitative resource name.
\$\$ADNASR	Add a note.
\$\$BKPORD	Order a Backup Mission.
\$\$CDDSEL	Select a record.
\$\$CHARES	Change a Quantitative resource name.
\$\$CHKCND	Check a condition name.
\$\$CHKCTL	Check a Control Resource.
\$\$CHKRCL	Perform a recall of a migrated CDAM file.
\$\$CHKRES	Check a Quantitative resource name.
\$\$CTDACT	Controlling Access to Reports.
\$\$CTDASR	Controlling Access to Reports by CONTROL-D.
\$\$CTDCDD	Controlling CONTROL-D Delivery functions.
\$\$CTDEDM	Extended Definition mode permits enhanced functionality.
\$\$CTDJOB	Controlling Access to Sysouts.
\$\$CTDOBJ	Entering to screen DO option 1 Report Clique. Entering to screen DO option 2 Resource Set. Saving a new or a modified report clique name. Deleting a report clique name or a resource set name.
\$\$CTDPNLA	Access to the Active Mission Status screen.
\$\$CTDPNLF	Access the Active Transfer screen.
\$\$CTDPREFIX	Controlling Access to PREFIX Parameter.
\$\$CTDPRF	Controlling Access to PREFIX Parameter.
\$\$CTDRRST	Access to the Active Mission Status screen.
\$\$CTMEDM	Extended Definition mode permits enhanced functionality.
\$\$CTMPNL3	Access to the Active Environment Screen
\$\$CTMSTC	Order a started task.
\$\$CTOAOP	Access or Use of Automated Options.
\$\$CTOASK	DO ASKOPER if a WTOR is issued. DO ASKOPER before a WTOR is issued.
\$\$CTOCMD	DO COMMAND.
\$\$CTOCMO	DO FORCEJOB.
\$\$CTODOM	DO DOM (delete operator message).
\$\$CTODRL	DO RULE.
\$\$CTODSN	ON DSNEVENT.
\$\$CTODSP	DO DISPLAY with SUPPRESS set to NO.
\$\$CTOEDM	Extended Definition mode permits enhanced functionality when defining automation rules.

Resource Names	Description
\$\$CTOENV	ON EVENT.
\$\$CTOJAR	ON JOBARRIV.
\$\$CTOJED	ON JOBEND.
\$\$CTOJSO	Jobname on Message
\$\$CTOJST	DO STOPJOB.
\$\$CTOKSL	DO KSL.
\$\$CTOMSG	DO DISPLAY.
\$\$CTOOMG	Exception Code on JOBSYSOUT
\$\$CTOONC	Beginning of COMMAND TEXT
\$\$CTOONM	ON MESSAGE.
\$\$CTOONP	ON CTOPCMSG
\$\$CTOORD	Controlling Rule Ordering.
\$\$CTOORL	ON RULE.
\$\$CTOPCM	DO CTOPCMSG.
\$\$CTOPKS	DO KLS.
\$\$CTOPNLOS	Initial access to Rule Status Screen.
\$\$CTOPRC	DO TSO or KLS.
\$\$CTOPTS	DO TSO.
\$\$CTORES	DO COND or DO RESOURCE.
\$\$CTORTS	Runtime security checking resource. Used to determine whether runtime security checks are performed, depending on the value set for the RUNTDFT global parameter (NONE, OWNER, or TRIGGER) in the CTOPARM member during CONTROL-O installation.
\$\$CTORUL	DO RULE and ON RULE
\$\$CTOSET	DO SET for an IOA AutoEdit variable.
\$\$CTOSRL	Check if user is authorized to trigger a rule.
\$\$CTOSRQ	DO SYSREQ.
\$\$CTOSTP	ON STEP.
\$\$CTOSUP	DO DISPLAY with SUPPRESS set to YES.
\$\$CTOTSO	DO TSO.
\$\$CTOXAM	Controlling Access to Services Provided using the XAM (Extended Automation Mechanism). Security checking for XAM is more granular than the CTOXAMF basic automation mechanism mode of operation.
\$\$CTOXAM.qname. TYPE1INI	INIT action
\$\$CTOXAM.qname. TYPE1RSL	RESOLVE action
\$\$CTOXAM.qname. TYPE1TRM	TERM action
\$\$CTOXAM.qname. TYPE2LOC	SETOLOC action

Resource Names	Description
\$\$CTOXAM.qname. TYPE3GLB	SETOGLB action
\$\$CTOXAM.qname. TYPE3RUL	DORULE action
\$\$CTOXAMF	Performs a security check for authorization in basic automation mode. Security checking for XAM is less granular.
\$\$CTVINX	Use CONTROL-V Indexing features
\$\$CTVQAC	Use CONTROL-V Quick Access features
\$\$DELCND	Delete a condition name.
\$\$DELCTL	Delete a Control Resource.
\$\$DELNOT	Add NOTES.
\$\$DELRES	Delete a Quantitative resource name.
\$\$DLNASR	Delete a note.
\$\$DPC1VIE	Read the File Transfer facility.
\$\$DPC2FRE	Free the File Transfer facility.
\$\$DPC2HLD	Hold the File Transfer facility.
\$\$DPC3DEL	Delete the File Transfer facility.
\$\$DPC3PRN	Print the File Transfer facility.
\$\$DPC4TRN	Retransmit or Modify the File Transfer facility.
\$\$EDITNO	Add/Alter NOTES of a report.
\$\$EDNASR	Edit a note.
\$\$ERACND	Erase a manual condition name.
\$\$EXTENT	Define a Ruler.
\$\$GIPASR	Accessing the Global Index Path that is included in the list of paths in the CONTROL-D/WebAccess Index box or specified in the CONTROL-D/WebAccess filter manually by the user.
\$\$GIVETO	Copy a record.
\$\$IOAAS	Used by Control-D to interface with the IOAGATE address space.
\$\$IOACMD	Enter Operator Command.
\$\$IOADEL	Delete User Dataset.
\$\$IOADIR	Dir User Dataset.
\$\$IOAEDM	Extended Definition mode permits enhanced functionality.
\$\$IOAEDT	Edit User Dataset.
\$\$IOAGL	Accessing the Global Variable.
\$\$IOAONLINE	Access to the IOA Online facility.
\$\$IOARES	IOA Condition. CONTROL-M Quantitative Resource. CONTROL-M Control Resource. IOA Manual Condition. CONTROL-O DO COND or DO RESOURCE.
\$\$IOASAV	Save User Dataset
\$\$IOAUTL	Access to Running Batch Utilities.
\$\$IOAVIW	View User Dataset.

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Resource Names	Description
\$\$IPRASR	Immediate printing of a report.
\$\$JOB1ACT	React in the Active Environment.
\$\$JOB1AES	AutoEdit simulation in the Active Environment.
\$\$JOB1LOG	Log in the Active Environment.
\$\$JOB1STA	View statistics in the Active Environment.
\$\$JOB1SYS	View Sysout in the Active Environment.
\$\$JOB1ZOO	Zoom in the Active Environment.
\$\$JOB2CHA	Change in the Active Environment Screen.
\$\$JOB2CNF	Confirm in the Active Environment.
\$\$JOB2FOK	Force OK in the Active Environment.
\$\$JOB2FRE	Free in the Active Environment.
\$\$JOB2HLD	Hold in the Active Environment.
\$\$JOB2RRN	Rerun or Restore in the Active Environment.
\$\$JOB3CHA	Change in the Active Environment.
\$\$JOB3DEL	Delete or Undelete in the Active Environment.
\$\$JOB3EDI	Edit JCL in the Active Environment.
\$\$JOB3KIL	Kill an executing job in the Active Environment.
\$\$JOB3PRI.	Change priority in the Active Environment.
\$\$JOBORD	Order a job.
\$\$MIS1LOG	Log an Active Mission.
\$\$MIS1ZOO	Zoom an Active Mission.
\$\$MIS2FRE	Free an Active Mission.
\$\$MIS2HLD	Hold an Active Mission.
\$\$MIS2RRN	Rerun an Active Mission.
\$\$MIS3CHA	Change Active Mission.
\$\$MIS3DEL	Delete an Active Mission.
\$\$MIS3PPL	Print an Active Mission.
\$\$MIS3UPD	Alter an Active Mission.
\$\$NEWCND	Define a manual condition name.
\$\$PAGI	Printing a report of more than MAX number of pages.
\$\$PAGII	Printing a report within MIN-MAX number of pages.
\$\$PAGIII	Printing a report within MIN-MID number of pages.
\$\$PGASRI	Printing a report of more than MAX number of pages.
\$\$PGASRII	Printing a report within MIN-MAX number of pages.
\$\$PGASRIII	Printing a report within MIN-MID number of pages.
\$\$PRTORD	Order a Print mission.
\$\$RCPASR	Request to Copy a Report to another Recipient.
\$\$RDLASR	Delete a report record
\$\$RECALL	Submit a job to perform recall of a migrated CDAM file.
\$\$RECDEL	Delete a record.
\$\$RECHX	View the report in hexadecimal format.
\$\$RECINS	Insert a record.

Resource Names	Description
\$\$RECIPR	Immediate print for a report.
\$\$RECRPR	Reprint a report.
\$\$RECRST	Restore a report.
\$\$RECUPD	Alter a record.
\$\$REFALL	REFRESH ALL. Activates the processes described above (NET, DEADLINE and PROPAGATE) simultaneously in the CONTROL-M monitor.
\$\$REFDEAD	REFRESH DEADLINE. Adjust DUE OUT times, if necessary, for all job orders in the Active Jobs file that are not Held.
\$\$REFNET	REFRESH NET. Update the list of dependent jobs in the Job Dependency Network screen.
\$\$REFPROP	REFRESH PROPAGATE. Check and adjust the priority of predecessor jobs.
\$\$REGSTR	JOBDSN security check.
\$\$REPLST	Permit report access without Recipient Tree.
\$\$REPORTD	Decollating mission.
\$\$RMVASR	Request to Move a Report to another Recipient.
\$\$RPRASR	Request for a Deferred Print.
\$\$RSTASR	Restore a report or record.
\$\$RSTORD	Order a Restore Mission.
\$\$RUL1LOG	Log on rule definition.
\$\$RUL1ZOO	Zoom on rule definition.
\$\$RUL2FRE	Free on rule definition.
\$\$RUL2HLD	Hold on rule definition.
\$\$RUL2MOD	Mode on rule definition.
\$\$RUL2RES	Resume on rule definition.
\$\$RUL3CAN	Cancel on rule definition.
\$\$RUL3DEL	Delete on rule definition.
\$\$RULONF	Suppress or activate a ruler or use Global ruler. A ruler is a set of screen-editing rules that make a report look different when displayed or printed.
\$\$RULSAV	Save a ruler definition.
\$\$SECCTD	Security activate for CONTROL-D.
\$\$SECCTM	Security activate for CONTROL-M.
\$\$SECCTO	Security activate for CONTROL-O.
\$\$SECIOA	Security activate for IOA.
\$\$SHNASR	Show notes of a report.
\$\$STCORD	Order a started task.
\$\$STRSTC	Starting a started task.
\$\$TREE	Use of Recipient Tree Definitions by Online Users.
\$\$UNRSTR	Cancel Restore for History Report.
\$\$UPDASR	Alter report View Indicator.

Resource Names	Description
\$\$UPDNOT	Alter NOTES to a report.
\$\$UPNASR	Alter a note.
\$\$UPRASR	Alter a Report Record.
\$\$VEWUPD	Alter Report View Indicator.
\$\$VIEASR	View Reports in Browse Mode.
\$\$VIEWCO	View (browse) a report.
\$\$VIEWNO	Browse NOTES of a report.
\$\$VWNASR	View a note.

### 11.3 CA 1 Requirements

The following table entries are guidelines regarding access authorizations to CA 1 resources:

**Table 24 - CA 1 Command Resources**

Referenced by: ZCA10020

CA 1 Command Resources			
RESOURCE NAME	LEGITIMATE USER	ACCESS LEVEL	LOG
L0ADD	Tape librarian	READ	N
L0CLEAN	Tape librarian	READ	N
L0CHECKI	Tape librarian	READ	N
L0CHECKO	Tape librarian	READ	N
L0DELETE	Tape librarian	READ	N
L0ERASE	Tape librarian	READ	N
L0EXTEND	Tape librarian and users requiring the functionality of extending retention dates for tape data sets	READ	N
L0EXPIRE	Tape librarian	READ	N
L0PTRS	Tape librarian and System Programmer	READ	N
L0RETAIN	Tape librarian and users requiring the functionality of extending retention dates for tape data sets	READ	N
L0SCRATC	Tape librarian	READ	N
L0UPDTE	Tape librarian and System Programmer	READ	N

**Table 25 - CA 1 Function and Password Resources**

Referenced by: ZCA10021

CA 1 Function and Password Resources			
RESOURCE NAME	LEGITIMATE USER	ACCESS LEVEL	LOG
NLRES	Tape librarian and technical support personnel	READ, UPDATE	N
NLNORES	Tape librarian and technical support personnel	READ, UPDATE	Y
NSLRES	Tape librarian and technical support personnel	READ, UPDATE	N

CA 1 Function and Password Resources			
RESOURCE NAME	LEGITIMATE USER	ACCESS LEVEL	LOG
NSLNORES	Tape librarian and System Programmer	READ, UPDATE	Y
BLPRES	Tape librarian and System Programmer	READ, UPDATE	Y
BLPNORES	Tape librarian and technical System Programmer	READ, UPDATE	Y
FORRES	Tape librarian	READ, UPDATE	Y
FORNORES	Tape librarian and System Programmer	READ	Y
YSVCCOND	Users requiring tape data set processing	READ, UPDATE	N
YSVCUNCD	Tape librarian	READ, UPDATE	N
YSVCUNCD	System Programmer	READ	N
<i>Password</i>	Users requiring access to CA 1 on-line applications for tape data set processing  <b>NOTE:</b> Multiple passwords are available providing different levels of CA 1 functionality ranging from general user to tape librarian.	READ	N
REINIT	Operations staff and systems personnel responsible for supporting CA 1	READ	N
BATCH	Operations staff and systems personnel responsible for supporting CA 1	READ	N
DEACT	Operations staff and systems personnel responsible for supporting CA 1	READ	N

**NOTE:** Tape librarian includes tape personnel, as well as STCs and Batch Users that perform CA 1 maintenance.

### 11.3.1 ACF2 Tables

**Table 26 - CA 1 Command Resources for ACF2**

Used by: ZCA10020

CA 1 Command Resources for ACF2		
RESOURCE TYPE	RESOURCE NAME	DESCRIPTION
CAC	L0ADD	On-line command ADD



CA 1 Command Resources for ACF2		
RESOURCE TYPE	RESOURCE NAME	DESCRIPTION
CAC	L0CHECKI	On-line command CHECKIN
CAC	L0CHECKO	On-line command CHECKOUT
CAC	L0CLEAN	On-line command CLEAN
CAC	L0DELETE	On-line command DELETE
CAC	L0ERASE	On-line command ERASE
CAC	L0EXPIRE	On-line command EXPIRE
CAC	L0EXTEND	On-line command EXTEND
CAC	L0RETAIN	On-line command RETAIN
CAC	L0SCRATC	On-line command SCRATCH
CAC	L0UPDTE	On-line command UPDATE

**Table 27 - CA 1 Function and Password Resources for ACF2**

Used by: ZCA10021

CA 1 Function and Password Resources for ACF2		
RESOURCE TYPE	RESOURCE NAME	DESCRIPTION
CAT	BLPNORES	Bypass label processing for a tape undefined to CA 1
CAT	BLPRES	Bypass label processing for a tape defined to CA 1
CAT	FORNORES	Foreign tape undefined to CA 1
CAT	FORRES	Foreign tape defined to CA 1
CAT	NLNORES	Non-label tape undefined to CA 1
CAT	NLRES	Non-label tape defined to CA 1
CAT	NSLNORES	Non-standard label tape undefined to CA 1
CAT	NSLRES	Non-standard label tape defined to CA 1
CAT	YSVCCOND	Y SVC conditional access
CAT	YSVCUNCD	Y SVC unconditional access

CA 1 Function and Password Resources for ACF2		
RESOURCE TYPE	RESOURCE NAME	DESCRIPTION
CAT	<i>password</i>	CA 1 internal password used to access CA 1 on-line applications  <b>NOTE:</b> A rule is written for each available password, including default passwords.
CAT	REINIT	TMSINIT re-initialization
CAT	BATCH	TMSINIT batch status
CAT	DEACT	TMSINIT deactivation

### 11.3.2 RACF Tables

**Table 28 - CA 1 Command Resources for RACF**

Referenced by: ZCA10020

CA 1 Command Resources for RACF	
RACF COMMAND	DESCRIPTION
RDEFINE CA@MD (L0CLEAN) UACC(NONE)	On-line command CLEAN
RDEFINE CA@MD (L0EXTEND) UACC(NONE)	On-line command EXTEND
RDEFINE CA@MD (L0EXPIRE) UACC(NONE)	On-line command EXPIRE
RDEFINE CA@MD (L0RETAIN) UACC(NONE)	On-line command RETAIN
RDEFINE CA@MD (L0DELETE) UACC(NONE)	On-line command DELETE
RDEFINE CA@MD (L0ADD) UACC(NONE)	On-line command ADD
RDEFINE CA@MD (L0CHECKI) UACC(NONE)	On-line command CHECKIN
RDEFINE CA@MD (L0CHECKO) UACC(NONE)	On-line command CHECKOUT
RDEFINE CA@MD (L0ERASE) UACC(NONE)	On-line command ERASE
RDEFINE CA@MD (L0SCRATC) UACC(NONE)	On-line command SCRATCH
RDEFINE CA@MD (L0UPDTE) UACC(NONE)	On-line command UPDATE

**Table 29 - CA 1 Function and Password Resources for RACF**

Referenced by: ZCA10021

CA 1 Function and Password Resources for RACF	
RACF COMMAND	DESCRIPTION
RDEFINE CA@APE (YSVCCOND) UACC(NONE)	Y SVC conditional

CA 1 Function and Password Resources for RACF	
RACF COMMAND	DESCRIPTION
RDEFINE CA@APE (YSVCUNCN) UACC(NONE)	Y SVC unconditional
RDEFINE CA@APE (NLRES) UACC(NONE)	Non-label tape defined to CA 1
RDEFINE CA@APE (NLNORES) UACC(NONE)	Non-label tape undefined to CA 1
RDEFINE CA@APE (NSLRES) UACC(NONE)	Non-standard label tape defined to CA 1
RDEFINE CA@APE (NSLNORES) UACC(NONE)	Non-standard label tape undefined to CA 1
RDEFINE CA@APE (BLPRES) UACC(NONE)	Bypass label processing for a tape defined to CA 1
RDEFINE CA@APE (BLPNORES) UACC(NONE)	Bypass label processing for a tape undefined to CA 1
RDEFINE CA@APE (FORRES) UACC(NONE)	Foreign tape defined to CA 1
RDEFINE CA@APE (FORNORES) UACC(NONE)	Foreign tape undefined to CA 1
RDEFINE CA@APE ( <i>password</i> ) UACC(NONE)	CA 1 internal password used to access CA 1 on-line applications  <b>NOTE:</b> A rule is written for each available password, including default passwords.
RDEFINE CA@APE (REINIT) UACC(NONE)	TMSINIT re-initialization
RDEFINE CA@APE (BATCH) UACC(NONE)	TMSINIT batch status
RDEFINE CA@APE (DEACT) UACC(NONE)	TMSINIT deactivation

### 11.3.3 TSS Tables

**Table 30 - CA 1 Command Resources for TSS**

Used by: ZCA10020

CA 1 Command Resources for TSS	
TOP SECRET COMMAND	DESCRIPTION
TSS ADD( <i>dept-acid</i> ) CACMD(L0CLEAN)	On-line command CLEAN
TSS ADD( <i>dept-acid</i> ) CACMD(L0EXTEND)	On-line command EXTEND
TSS ADD( <i>dept-acid</i> ) CACMD(L0EXPIRE)	On-line command EXPIRE
TSS ADD( <i>dept-acid</i> ) CACMD(L0RETAIN)	On-line command RETAIN
TSS ADD( <i>dept-acid</i> ) CACMD(L0DELETE)	On-line command DELETE

CA 1 Command Resources for TSS	
TOP SECRET COMMAND	DESCRIPTION
TSS ADD( <i>dept-acid</i> ) CACMD(L0ADD)	On-line command ADD
TSS ADD( <i>dept-acid</i> ) CACMD(L0CHECKI)	On-line command CHECKIN
TSS ADD( <i>dept-acid</i> ) CACMD(L0CHECKO)	On-line command CHECKOUT
TSS ADD( <i>dept-acid</i> ) CACMD(L0ERASE)	On-line command ERASE
TSS ADD( <i>dept-acid</i> ) CACMD(L0SCRATC)	On-line command SCRATCH
TSS ADD( <i>dept-acid</i> ) CACMD(L0UPDTE)	On-line command UPDATE

**Table 31 - CA 1 Function and Password Resources for TSS**

Used by: ZCA10021

CA 1 Function and Password Resources for TSS	
TOP SECRET COMMAND	DESCRIPTION
TSS ADD( <i>dept-acid</i> ) CACMD(L0CLEAN)	On-line command CLEAN
TSS ADD( <i>dept-acid</i> ) CATAPE(YSVCCOND)	Y SVC conditional access
TSS ADD( <i>dept-acid</i> ) CATAPE(YSVCUNCD)	Y SVC unconditional access
TSS ADD( <i>dept-acid</i> ) CATAPE(NLRES)	Non-label tape defined to CA 1
TSS ADD( <i>dept-acid</i> ) CATAPE(NLNORES)	Non-label tape undefined to CA 1
TSS ADD( <i>dept-acid</i> ) CATAPE(NSLRES)	Non-standard label tape defined to CA 1
TSS ADD( <i>dept-acid</i> ) CATAPE(NSLNORES)	Non-standard label tape undefined to CA 1
TSS ADD( <i>dept-acid</i> ) CATAPE(BLPRES)	Bypass label processing for a tape defined to CA 1
TSS ADD( <i>dept-acid</i> ) CATAPE(BLPNORES)	Bypass label processing for a tape undefined to CA 1
TSS ADD( <i>dept-acid</i> ) CATAPE(FORRES)	Foreign tape defined to CA 1
TSS ADD( <i>dept-acid</i> ) CATAPE(FORNORES)	Foreign tape undefined to CA 1
TSS ADD( <i>dept-acid</i> ) CATAPE( <i>password</i> )	CA 1 internal password used to access CA 1 on-line applications  <b>NOTE:</b> A rule is written for each available password.
TSS ADD( <i>dept-acid</i> ) CATAPE(REINIT)	TMSINIT re-initialization
TSS ADD( <i>dept-acid</i> ) CATAPE(BATCH)	TMSINIT batch status
TSS ADD( <i>dept-acid</i> ) CATAPE(DEACT)	TMSINIT deactivation



## 11.4 CATALOG SOLUTIONS Requirements

**Table 32 - CATALOG SOLUTIONS Resource list**

Referenced by: ZCSL0020

You can enable data set and catalog security verification by adding a FACILITY class profile with the resource name hlq1.hlq2.GLOBAL.DATASET. If the named FACILITY class resource has been defined to the security software, then Catalog Solution will determine if the current user is authorized to bypass data set security verification according to the following conditions:

- If the user has READ authorization for the named FACILITY class resource, data set security will be bypassed. This will allow for the existence of one or more “super users” that will not be subjected to data set and catalog security verification.
- If the current user is not authorized for the named FACILITY class resource, Catalog Solution will not bypass data set and catalog security verification. The security software currently executing in the user environment should cause OPEN processing to fail if the user is not authorized for the attempted access.

If the named FACILITY class resource has not been defined to the security software, Catalog Solution will bypass data security.

Resource Names	Logging	User Groups	Access
hlq1		*	NONE
hlq1.hlq2.GLOBAL.DATASET	READ	*	NONE
		DASDAUDT	READ
		DASBAUDT	READ
		SYSPAUDT	READ
hlq1.hlq2.READ.CATLIST		*	READ
hlq1.hlq2.READ.LIST		*	READ
hlq1.hlq2.READ.SCAN		*	READ
hlq1.hlq2.READ.PRINT		*	READ
hlq1.hlq2.READ.ALIASCHK		*	READ
hlq1.hlq2.READ.DIAGNOSE		*	READ
hlq1.hlq2.READ		DASDAUDT	READ
		DASBAUDT	READ
		SYSPAUDT	READ
hlq1.hlq2.UPDATE		DASDAUDT	READ
		DASBAUDT	READ
		SYSPAUDT	READ

\* - All Users

hlq1 – The high level qualifier for the resource. EMC for software version 9.00 and below and ROCKET for software version 9.10 and above.

hlq2 – The high level qualifier for the resource. CSL for software version 9.00 and below and RCS for software version 9.10 and above.

<b>READ Resource Names</b>	<b>Related Command/Keyword</b>
hlq1.hlq2.READ.ALIASCHK	ALIASCHECK
hlq1.hlq2.READ.CATLIST	CATLIST
hlq1.hlq2.READ.DIAGNOSE.CSR	DIAGNOSE/TEST=CSR or DIAGNOSE/TEST=CHECK-SPANNED-RECS
hlq1.hlq2.READ.DIAGNOSE.CVB	DIAGNOSE/TEST=CVB or DIAGNOSE/TEST=CHECK-VVDS-BACKUP
hlq1.hlq2.READ.DIAGNOSE.CVC	DIAGNOSE/TEST=CVC or DIAGNOSE/TEST=CHECK-VVDS-CATALOGS
hlq1.hlq2.READ.DIAGNOSE.DDA	DIAGNOSE/TEST=DDA or DIAGNOSE/TEST=DELETE-DEAD-ALIAS
hlq1.hlq2.READ.DIAGNOSE.DS	DIAGNOSE/TEST=DS or DIAGNOSE/TEST=DATA-STRUCTURE
hlq1.hlq2.READ.DIAGNOSE.GADB	DIAGNOSE/TEST=GADB or DIAGNOSE/TEST=GENERATE-AMS-DIAG-BCS
hlq1.hlq2.READ.DIAGNOSE.GADV	DIAGNOSE/TEST=GADV or DIAGNOSE/TEST=GENERATE-AMS-DIAG-VVDS
hlq1.hlq2.READ.DIAGNOSE.GDC	DIAGNOSE/TEST=GDC or DIAGNOSE/TEST=GENERATE-DELETE-CARD
hlq1.hlq2.READ.DIAGNOSE.GDIAG3C	DIAGNOSE/TEST=GDIAG3C or DIAGNOSE/TEST=GENERATE-DIAG3-CARD
hlq1.hlq2.READ.DIAGNOSE.GDLN	DIAGNOSE/TEST=GDLN or DIAGNOSE/TEST=GENERATE-DELETE-NONVSAM
hlq1.hlq2.READ.DIAGNOSE.GDN	DIAGNOSE/TEST=GDN or DIAGNOSE/TEST=GENERATE-DEFINE-NONVSAM
hlq1.hlq2.READ.DIAGNOSE.GRC	DIAGNOSE/TEST=GRC or DIAGNOSE/TEST=GENERATE-RECATALOG-CARD
hlq1.hlq2.READ.DIAGNOSE.GUL	DIAGNOSE/TEST=GUL or DIAGNOSE/TEST=GENERATE-UNCAT-LIST
hlq1.hlq2.READ.DIAGNOSE.GVC	DIAGNOSE/TEST=GVC or

<b>READ Resource Names</b>	<b>Related Command/Keyword</b>
	DIAGNOSE/TEST=GENERATE-VERIFY-CARD
hlq1.hlq2.READ.DIAGNOSE.IS	DIAGNOSE/TEST=IS or DIAGNOSE/TEST=INDEX-STRUCTURE
hlq1.hlq2.READ.DIAGNOSE.LA	DIAGNOSE/TEST=LA or DIAGNOSE/TEST=LIST-ASSOCIATIONS
hlq1.hlq2.READ.DIAGNOSE.VCE	DIAGNOSE/TEST=VCE or DIAGNOSE/TEST=VERIFY-CATALOG-ENTRIES
hlq1.hlq2.READ.DIAGNOSE.VV	DIAGNOSE/TEST=VV or DIAGNOSE/TEST=VTOC-VVDS
hlq1.hlq2.READ.DIAGNOSE.VVC	DIAGNOSE/TEST=VVC or DIAGNOSE/TEST=VVCM-VVCN-CHECK
hlq1.hlq2.READ.DISPLAY	DISPLAY
hlq1.hlq2.READ.DUMP	DUMP
hlq1.hlq2.READ.LIST	LIST
hlq1.hlq2.READ.OELIST	OELIST
hlq1.hlq2.READ.PRINT	PRINT
hlq1.hlq2.READ.QUERY	QUERY
hlq1.hlq2.READ.SCAN	SCAN
hlq1.hlq2.READ.SCAVENGE	SCAVENGE
hlq1.hlq2.READ.SMFLIST	SMFLIST
hlq1.hlq2.READ.SYSCHECK	SYSTEMCHECK

hlq1 – The high level qualifier for the resource. EMC for software version 9.00 and below and ROCKET for software version 9.10 and above.

hlq2 – The high level qualifier for the resource. CSL for software version 9.00 and below and RCS for software version 9.10 and above.

<b>UPDATE Resource Names</b>	<b>Related Command / Keyword</b>
hlq1.hlq2.UPDATE.ALIASCHK.	RESYNCH ALIASCHECK/RESYNCH
hlq1.hlq2.UPDATE.ALTER	ALTER
hlq1.hlq2.UPDATE.BCSRCVR	BCSRECOVER
hlq1.hlq2.UPDATE.DELETE	DELETE
hlq1.hlq2.UPDATE.DIAGNOSE.	RVC DIAGNOSE/TEST=RVC or DIAGNOSE/TEST=REMOVE-VVDS-CATALOGS
hlq1.hlq2.UPDATE.EXTRACT	EXTRACT
hlq1.hlq2.UPDATE.LIST.VERREP	LIST/VER & REP
hlq1.hlq2.UPDATE.MODIFY	MODIFY
hlq1.hlq2.UPDATE.PURGE	PURGE
hlq1.hlq2.UPDATE.REBUILD	REBUILD
hlq1.hlq2.UPDATE.RECOVER	RECOVER



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hlq1.hlq2.UPDATE.REPROMC	REPROMC
hlq1.hlq2.UPDATE.RESET	RESET
hlq1.hlq2.UPDATE.SCRATCH	SCRATCH

hlq1 – The high level qualifier for the resource. EMC for software version 9.00 and below and ROCKET for software version 9.10 and above.

hlq2 – The high level qualifier for the resource. CSL for software version 9.00 and below and RCS for software version 9.10 and above.

## 11.5 CICS Requirements

**Table 33a - Category 1 Transactions for CICS TS 3.1 - 5.1**

This transaction must be restricted to CICS regions only.

Referenced by: ZCIC0020

CATA	CATD	CDBD	CDBF	CDBO	CDBQ	CDTS	CEPD
CEPF	CEPM	CESC	CEX2	CFCL	CFOR	CFQR	CFQS
CFTL	CFTS	CGRP	CIS1	CIS4	CISB	CISC	CISD
CISE	CISM	CISP	CISQ	CISR	CISS	CIST	CISU
CISX	CITS	CJSL	CJSR	CJTR	CMTS	COVR	CPCT
CPIR	CPIS	CPLT	CRLR	CRMD	CRMF	CRSQ	CRST
CRSY	CRTP	CSFR	CSFU	CSHA	CSHQ	CSKP	CSNC
CSNE	CSOL	CSPQ	CSQC	CSSY	CSTE	CSTP	CSZI
CWBG	CWXN	CWXU	CXCU	CXRE			

**Table 34b - Category 2 Transactions for CICS TS 3.1 - 5.1**

Referenced by: ZCIC0020

Transaction	User Group	Access	Logging
CADP	SYSPAUDT APPDAUDT	Read	Y
CBAM	SYSPAUDT OPERAUDT	Read	
CCRL	SYSPAUDT	Read	Y
CDBC	SYSPAUDT DABAAUDT	Read	Y
CDBI	SYSPAUDT DABAAUDT	Read	Y
CDBM	SYSPAUDT DABAAUDT INQUIRE	Read	Y
CDBN	SYSPAUDT DABAAUDT INQUIRE	Read	Y
CDBT	SYSPAUDT APPDAUDT DABAAUDT	Read	Y
CDFS	SYSPAUDT INTERCOM	Read	
CDST	SYSPAUDT	Read	Y
CEBR	SYSPAUDT APPDAUDT	Read	Y

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<b>Transaction</b>	<b>User Group</b>	<b>Access</b>	<b>Logging</b>
<b>CEBT see Notes</b>	SYSPAUDT	Read	Y
CECI	APPDAUDT SYSPAUDT	Read	Y
CECS	SYSPAUDT APPDAUDT	Read	Y
CEDA	SYSPAUDT	Read	Y
CEDB	SYSPAUDT	Read	Y
<b>CEDC see Notes</b>	SYSPAUDT INQUIRE APPDAUDT	Read	
CEDF	SYSPAUDT APPDAUDT	Read	Y
CEDX	SYSPAUDT APPDAUDT	Read	Y
CEHP	SYSPAUDT INTERCOM	Read	
CEHS	SYSPAUDT INTERCOM	Read	
CEKL	SYSPAUDT	Read	Y
CEMN	SYSPAUDT	Read	Y
<b>CEMT see Notes</b>	SYSPAUDT	Read	Y
CEOT	SYSPAUDT OPERAUDT	Read	
CEPH	SYSPAUDT EVENTUSER	Read	
CEPQ	SYSPAUDT EVENTUSER	Read	
CEPS	SYSPAUDT EVENTUSER	Read	
CEPT	SYSPAUDT EVENTUSER	Read	
CESD	SYSPAUDT	Read	Y
CEST	SYSPAUDT OPERAUDT	Read	
CETR	SYSPAUDT APPDAUDT	Read	Y
CHLP (alias for CMAC)	*	Read	
CIDP	SYSPAUDT OPERAUDT	Read	Y
CIND	SYSPAUDT	Read	Y
CIRP	IIOPUSER	Read	
CMAC	*	Read	

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<b>Transaction</b>	<b>User Group</b>	<b>Access</b>	<b>Logging</b>
CJSA	WEBUSER CICSDEF	Read	
CMSG	SYSPAUDT OPERAUDT	Read	
CLDM	SYSPAUDT PIPEUSER	Read	
CPIA	SYSPAUDT PIPEUSER	Read	
CPIH	SYSPAUDT PIPEUSER	Read	
CPIL	SYSPAUDT PIPEUSER	Read	
CPIQ	SYSPAUDT PIPEUSER	Read	
CPMI	SYSPAUDT INTERCOM	Read	
CREA	SYSPAUDT	Read	
CREC	SYSPAUDT INQUIRE	Read	
CRPA	SYSPAUDT RPCUSER	Read	
CRPC	SYSPAUDT RPCUSER	Read	
CRPM	SYSPAUDT RPCUSER	Read	
CRTE	SYSPAUDT APPDAUDT OPERAUDT	Read	
CRTX	*	Read	
CSFE	SYSPAUDT OPERAUDT	Read	
CSGM	*	Read	
CSHR	SYSPAUDT INTERCOM	Read	
CSM1	SYSPAUDT INTERCOM	Read	
CSM2	SYSPAUDT INTERCOM	Read	
CSM3	SYSPAUDT INTERCOM	Read	
CSM5	SYSPAUDT INTERCOM	Read	
CSMI	SYSPAUDT INTERCOM	Read	

Transaction	User Group	Access	Logging
CTIN	SYSPAUDT INTERCOM	Read	
CVMI	SYSPAUDT INTERCOM	Read	
CWBA	WEBUSER CICSDEF	Read	
CWWU	WEBUSER	Read	
CW2A	WEBUSER	Read	
CWTO	SYSPAUDT OPERAUDT	Read	
DSNC	SYSPAUDT OPERAUDT	Read	
CK**	SYSPAUDT MQSAAUDT	Read	

**Notes:**

- The CEMT and CEBT (Master for Alternate CICS) transactions can be secured at the command level allowing for a more inclusive authorization through the use of SPI and the user base can be expanded.
- These are IBM recommended users for these category 2 transactions, outside of SYSPAUDT, use of other transactions can be justified with the approval of the CICS Systems Programmer and the IAO/IAM

**CICS Users identified in the above table, detailed descriptions can be found in Section 3 z/OS Privileged Users.**

CICSDEF	The CICS regions default user ids, as specified in the DFLTUSER parameter.
PIPEUSER	These transactions are used when a CICS application is in the role of a Web service provider or requester.
IIOPUSER	These transactions use Java server applications that communicate with a client application using the IIOP protocol
INTERCOM	<p>These transactions are used in function shipping. The mirror transactions must be available to remote users in a function shipping environment. When a database or file resides on another CICS region, CICS function ships the request to access the data, and this request runs under one of the CICS-supplied mirror transactions. This means</p> <ul style="list-style-type: none"> <li>• The terminal user running the application must be authorized to use the mirror transaction.</li> <li>• The terminal user must also be authorized to use the data that the mirror transaction accesses.</li> </ul>

RPCUSER      These transactions are used with remote procedure calls.

INQUIRE      These transactions are available to inquire into CICS to obtain information.

EVENTUSER      These transactions are default EP adapter transaction IDs.

**Table 35c - Category 3 Transactions for CICS TS 3.1 - 5.1**

The following transactions are eligible for exemption from security checking.  
Referenced by: ZCICA024

CATR	CCIN	CEGN	CESF	CESL	CESN	CIEP	CLQ2
CLR1	CLR2	CLS1	CLS2	CLS3	CLS4	CMPX	CPCT
CPSS	CQPI	CQPO	CQRY	CRSR	CSAC	CSCY	CSPG
CSPK	CSPP	CSPS	CSRK	CSRS	CSSF	CWBC	CXRT
CSIR	CRDR	CDBN	CEKL	CSXM			

**Table 36 - CICS Category 4 COTS-Supplied Sensitive Transactions**

(COTS-supplied transactions are used to support and administer vendor products. Some of these transactions may offer the ability to bypass ACP controls for resources managed under CICS. These transactions are considered sensitive and are identified as Category 4 transactions. Category 4 transactions are restricted to systems programming personnel. The list is not all-inclusive.)

<i><b>TRANSACTION</b></i>	<i><b>DESCRIPTION</b></i>
ACFM	CA-ACF2 Master Transaction
ACFA	CA-ACF2
ACFT	CA-ACF2
ACUL	CA-ACF2
DBOC	CA-DATACOM
LOOK	CA-LOOK
TMSU	CA 1
TSEU	CA-TOP SECRET
TSSC	CA-TOP-SECRET

**Table 37 - TSS FACILITY Initialization Parameters for CICS Region**

Referenced by: ZCIC0030, ZCICT050

DEFACID(*NONE*)	No default ACID
NOABEND	For multi-user address space

RES	Allows storage of access authorizations for all resources within the online user region.
MODE(FAIL)	All unauthorized facility or resource access is denied unconditionally.

Ensure that users cannot sign on more than once within the scope of a single CICS production region.

SIGN(S)	Single sign-on within the same CICS facility
SIGN(M)	Multiple sign-on within the same CICS facility ( <i>use only with test or development regions</i> )
SHRPRF	Allows a copy of the profile to be shared by all users in the multiuser facility.
XDEF	Sets protection in place by default for all commands and transactions controlled by the facility.
PCTEXTSEC=OVERRIDE	CA-TOP SECRET does not honor the PCT EXTSEC= and RSLC= parameters and forces a security call.
EXTSEC=YES	CA-TOP SECRET security is invoked for this region
FACMATRX=YES	Controls for CICS security are specified in Facility Matrix.
LOCKTIME=0	This parameter is set to zero since the OPTIME parameter (refer to <i>Section 8.2.3.4, CICS User Controls</i> ) provides a more efficient method for managing idle time.
XTRAN=YES	Transaction checking is performed.

**Table 38 - ACF2/CICS Parameters**

Referenced by: ZCICA023

PARAMETER	KEYWORD(S)	DESCRIPTION
CICSKEY*	OPTION=VALIDATE, TYPE= <i>ttt</i> ,** RESOURCE=TRANS	The CICSKEY parameter establishes CA-ACF2 CICS control over a CICS resource.
DEFAULT	Terminal= <i>unique-id</i> Nonterminal= <i>unique-id</i>	Ensures that every CICS task has a valid user identified.
EXIT	MROIN MROOUT	Any MROIN or MROOUT exits are validated and approved by DISA FSO.

PARAMETER	KEYWORD(S)	DESCRIPTION
OPTION	CONSOLE=VALIDATE	Security controls are in effect for transactions being processed at the console.
	DISCONNECT=YES	When the violation limit is reached, disconnects the terminal from CICS and returns it to VTAM.
	MAXVIO=3	Maximum number of security violations allowed.
	MODE=ABORT	Aborts the transaction if access is denied.
	TIMEOUT=5	Number of minutes between each scan for inactive terminals
INHERIT	TDJOB=YES	Batch jobs submitted to an internal reader through extra-partition transient data queues inherit the logonid of the submitting task
SIGNON	ENQSCOPE =NONE***	Multiple sign-on within the same CICS region ( <i>use only with test or development regions</i> )
	ENQSCOPE=CICS***	Single sign-on within the same CICS region
	QUICK=NO	Disallows quick sign-on format, which enables the user to enter the password in clear text at the same time as the logonid is entered.
	REQUIRE=YES	Specifies that a user must sign-on before executing transactions.
SUSPEND	PASSWORD=YES	Suspends user during sign-on if the password violation count reaches the established threshold.
	RULE=YES	Suspends users during resource validation if the CA-ACF2 violation count reaches the established threshold.
VERIFY	IDLE=YES IDLE=NO See Note	Re-verify password after terminal idle time is exceeded.
MRO	TRANSMIT=YES RECEIVE=YES	This assures that logonid inheritance is performed.

*\*At a minimum, enforce transaction-level protection.*

*\*\*The default ACF2/CICS type for transactions is CKC, but is unique for each region, as specified above. An exception would be the situation where regions are grouped together in an MRO environment that may share a common transaction type with that unique MRO environment.*

**Notes:**



- IDLE=NO can be specified if mixed case passwords are being used

**Table 39 - CICS Systems Programmer's Worksheet**

Referenced by: ZCIC0010, ZCIC0020, ZCIC0030, ZCIC0040, ZCIC0041, ZCIC0042, ZCICA011, ZCICA022, ZCICA023, ZCICA024, ZCICA025, ZCICR021, ZCICR041, ZCICR042, ZCICT041, ZCICT050

**1. CICS TABLES / RDO DEFINITIONS**

- a. Provide information for all SITs:

CICS JOBNAME	Data Set Name

**Note:** Add additional lines if required

- b. Provide a list of all defined CICS transactions for product, test/development, and training regions.

CICS JOBNAME	Data Set Name

**Note:** Add additional lines if required

## 2. CICS REGIONS

Complete the following with the JOB NAME, LOGONID/USERID/ACID, CICS REGION TYPE (TOR, AOR, other), CICS version, and the operational function of the region, i.e. Production, Test, Development or Training.

DSN= \_\_\_\_\_

<i><b>JOB NAME</b></i>	<i><b>LOGONID/ACID USERID</b></i>	<i><b>REGION TYPE</b></i>	<i><b>CICS VERSION</b></i>	<i><b>OPERATIONAL FUNCTION</b></i>

**Table 40 - CICS SPI Resources Table**

Referenced by: ZCICA021, ZCICR021, ZCICT021

<b>Resource/TSS Resource</b>	<b>Command</b>	<b>Access</b>	<b>Users</b>
ASSOCIATION/ ASSOCIAT	ASSOCIATION	READ	SYSCAUDT CICSAUDT CICUAUDT
ATOMSERVICE/ ATOMSERV	ATOMSERVICE	READ	CICUAUDT
		ALTER	SYSCAUDT CICSAUDT
AUTINSTMODEL/ AUTINSTM	AUTINSTM	READ	CICUAUDT
		UPDATE	SYSCAUDT CICSAUDT
AUTOINSTALL/ AUTOINST	AUTOINST	READ	NONE
		UPDATE	SYSCAUDT CICSAUDT
BEAN/ BEAN	BEAN	READ	SYSCAUDT CICSAUDT CICUAUDT
BRFACILITY/ BRFACILIT	BRFACILITY	READ	CICUAUDT
		UPDATE	SYSCAUDT CICSAUDT
BUNDLE/ BUNDLE	BUNDLE	READ	CICUAUDT
		ALTER	SYSCAUDT CICSAUDT
CAPTURESPEC/ CAPTURES	CAPTURESPEC	READ	SYSCAUDT CICSAUDT CICUAUDT
CFDTPPOOL/ CFDTPPOOL	CFDTPPOOL	READ	SYSCAUDT CICSAUDT CICUAUDT
CLASSCACHE/ CLASSCAC	CLASSCACHE	READ	CICUAUDT
		UPDATE	SYSCAUDT CICSAUDT
CONNECTION/ CONNECTI	CONNECTION	READ	CICBAUDT CICDAUDT
		UPDATE	OPERAUDT CICUAUDT
		ALTER	SYSCAUDT CICSAUDT
CORBASERVER/ CORBASER	CORBASERVER	READ	CICUAUDT
		UPDATE	NONE
		ALTER	SYSCAUDT

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Resource/TSS Resource	Command	Access	Users
			CICSAUDT
DB2CONN/ DB2CONN	DB2CONN	Read	OPERAUDT CICUAUDT CICDAUDT
		ALTER	SYSCAUDT CICSAUDT
DB2ENTRY/ DB2ENTRY	DB2ENTRY	READ	OPERAUDT CICUAUDT CICDAUDT
		ALTER	SYSCAUDT CICSAUDT
DB2TRAN/ DB2TRAN	DB2TRAN	READ	OPERAUDT CICUAUDT CICDAUDT
		ALTER	SYSCAUDT CICSAUDT
DELETESHIPPED/ DELETESH	DELETESHIPPED	READ	OPERAUDT CICUAUDT CICDAUDT
		UPDATE	SYSCAUDT CICSAUDT
DISPATCHER/ DISPATCH	DISPATCHER	READ	CICUAUDT
		UPDATE	SYSCAUDT CICSAUDT
DJAR/ DJAR	DJAR	READ	CICUAUDT
		ALTER	SYSCAUDT CICSAUDT
DOCTEMPLATE/ DOCTEMPL	DOCTEMPLATE	READ	CICUAUDT CICDAUDT
		ALTER	SYSCAUDT CICSAUDT
DSNAME/ DSNAME	DSNAME	READ	OPERAUDT CICDAUDT
		UPDATE	SYSCAUDT CICSAUDT CICUAUDT
DUMP/ DUMP	DUMP	UPDATE	SYSCAUDT CICSAUDT CICUAUDT
DUMPDS/ DUMPDS	DUMPDS	READ	CICDAUDT
		UPDATE	SYSCAUDT CICSAUDT CICUAUDT

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Resource/TSS Resource	Command	Access	Users
ENQMODEL/ ENQMODEL	ENQMODEL	Read	CICUAUDT
		ALTER	SYSAUDT CICSAUDT
EVENTBINDING/ EVENTBIN	EVENTBINDING	READ	CICUAUDT
		UPDATE	SYSAUDT CICSAUDT
EVENTPROCESS/ EVENTPRO	EVENTPROCESS	Read	CICUAUDT
		UPDATE	SYSAUDT CICSAUDT
EXCI/ EXCI	EXCI	READ	SYSAUDT CICSAUDT CICUAUDT
EXITPROGRAM/ EXITPROG	EXITPROGRAM	UPDATE	CICSAUDT CICUAUDT OPERAUDT SYSAUDT
FECONNECTION/ FEPIRESO	FECONNECTION	READ	NONE
		UPDATE	SYSAUDT CICSAUDT CICBAUDT OPERAUDT CICUAUDT
FENODE/ FEPIRESO	FENODE	READ	NONE
		UPDATE	SYSAUDT CICSAUDT CICBAUDT OPERAUDT CICUAUDT
FEPOOL/ FEPIRESO	FEPOOL	READ	NONE
		UPDATE	SYSAUDT CICSAUDT CICBAUDT OPERAUDT CICUAUDT
FEPROPSET/ FEPIRESO	FEPROSET	READ	NONE
		UPDATE	SYSAUDT CICSAUDT CICBAUDT OPERAUDT CICUAUDT
FETARGET/ FEPIRESO	FETARGET	READ	NONE
		UPDATE	SYSAUDT CICSAUDT

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Resource/TSS Resource	Command	Access	Users
			CICBAUDT OPERAUDT CICUAUDT
FILE/ FILE	FILE	READ	ALL
		UPDATE	CICBAUDT OPERAUDT CICUAUDT <b>APPDAUDT*</b>
		ALTER	SYSCAUDT CICSAUDT
HOST/ HOST	HOST	READ	CICUAUDT
		UPDATE	SYSCAUDT CICSAUDT
IPCONN/ IPCONN	IPCONN	READ	OPERAUDT CICUAUDT CICDAUDT
		ALTER	SYSCAUDT CICSAUDT
IRC/ IRC	IRC	READ	OPERAUDT CICDAUDT
		UPDATE	SYSCAUDT CICSAUDT CICUAUDT
JOURNALMODEL/ JOURNAL	JOURNALMODEL	READ	CICUAUDT
		ALTER	SYSCAUDT CICSAUDT
JOURNALNAME/ JOURNAL	JOURNALNAME	READ	NONE
		UPDATE	SYSCAUDT CICSAUDT CICUAUDT
JVM/ JVM	JVM	READ	SYSCAUDT CICSAUDT CICUAUDT
JVMPOOL/ JVMPOOL	JVMPOOL	READ	CICUAUDT
		UPDATE	SYSCAUDT CICSAUDT
JVMPROFILE/ JVMPROFI	JVMPROFILE	READ	SYSCAUDT CICSAUDT CICUAUDT
JVMSERVER/ JVMSERVER	JVMSERVER	READ	NONE
		ALTER	SYSCAUDT CICSAUDT
LIBRARY/	LIBRARY	READ	CICUAUDT

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Resource/TSS Resource	Command	Access	Users
LIBRARY			CICDAUDT
		ALTER	SYSCAUDT CICSAUDT
LSRPOOL/ LSRPOOL	LSRPOOL	ALTER	SYSCAUDT CICSAUDT
MAPSET/ MAPSET	MAPSET	ALTER	SYSCAUDT CICSAUDT
MODENAME/ MODENAME	MODENAME	READ	CICUAUDT
		UPDATE	SYSCAUDT CICSAUDT
MONITOR/ MONITOR	MONITOR	READ	CICDAUDT
		UPDATE	SYSCAUDT CICSAUDT CICUAUDT
MQCONN/ MQCONN	MQCONN	READ	OPERAUDT CICUAUDT CICDAUDT
		ALTER	SYSCAUDT CICSAUDT
MQINI/ MQINI	MQINI	READ	SYSCAUDT CICSAUDT OPERAUDT CICDAUDT
MVSTCB/ MVSTCB	MVSTCB	READ	SYSCAUDT CICSAUDT CICUAUDT
NETNAME/ TERMINAL	NETNAME	READ	CICDAUDT
		UPDATE	SYSCAUDT CICSAUDT CICBAUDT OPERAUDT CICUAUDT
PARTITIONSET/ PARTITIO	PARTITIONSET	READ	CICUAUDT
		ALTER	SYSCAUDT CICSAUDT
PARTNER/ PARTNER	PARTNER	READ	CICUAUDT
		ALTER	SYSCAUDT CICSAUDT
PIPELINE/ PIPELINE	PIPELINE	READ	CICUAUDT CICDAUDT
		ALTER	SYSCAUDT CICSAUDT
PROCESSTYPE/	PROCESSTYPE	READ	CICUAUDT



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<b>Resource/TSS Resource</b>	<b>Command</b>	<b>Access</b>	<b>Users</b>
PROCESST		ALTER	SYSCAUDT CICSAUDT
PROFILE/ PROFILE	PROFILE	READ	CICUAUDT
		ALTER	SYSCAUDT CICSAUDT
PROGRAM/ PROGRAM	PROGRAM	READ	CICBAUDT CICDAUDT
		UPDATE	OPERAUDT CICUAUDT <b>APPDAUDT*</b>
		ALTER	SYSCAUDT CICSAUDT
REQID/ REQID	REQID	READ	SYSCAUDT CICSAUDT
REQUESTMODEL/ REQUESTM	REQUESTMODEL	READ	CICUAUDT
		ALTER	SYSCAUDT CICSAUDT
RESETTIME	RESETTIME	UPDATE	SYSCAUDT CICSAUDT
RRMS/ RRMS	RRMS	READ	SYSCAUDT CICSAUDT CICUAUDT
SECURITY/ SECURITY	SECURITY	UPDATE	SYSCAUDT CICSAUDT
SESSIONS/ SESSIONS	SESSIONS	ALTER	SYSCAUDT CICSAUDT
SHUTDOWN/ SHUTDOWN	SHUTDOWN	UPDATE	SYSCAUDT CICSAUDT OPERAUDT CICUAUDT
STATISTICS/ STATISTI	STATISTICS	READ	NONE
		UPDATE	SYSCAUDT CICSAUDT CICUAUDT
STORAGE/ STORAGE	STORAGE	READ	SYSCAUDT CICSAUDT CICUAUDT
STREAMNAME/ STREAMNA	STREAMNAME	READ	SYSCAUDT CICSAUDT CICUAUDT
SUBPOOL/ SUBPOOL	SUBPOOL	READ	SYSCAUDT CICSAUDT CICUAUDT

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Resource/TSS Resource	Command	Access	Users
SYSDUMPCODE/ SYSDUMPC	SYSDUMPCODE	READ	CICUAUDT
		UPDATE	SYSCAUDT CICSAUDT
SYSTEM/ SYSTEM	SYSTEM	READ	CICBAUDT OPERAUDT CICUAUDT
		UPDATE	SYSCAUDT CICSAUDT
TASK/ TASK	TASK	READ	CICBAUDT OPERAUDT CICDAUDT
		UPDATE	SYSCAUDT CICSAUDT CICUAUDT
TCLASS/ TCLASS	TRANCLASS	READ	CICUAUDT
		UPDATE	SYSCAUDT CICSAUDT
TCPIP/ TCPIP	TCPIP	READ	CICUAUDT CICDAUDT
		UPDATE	SYSCAUDT CICSAUDT
TCPIPSERVICE/ TCPIPSE	TCPIPSERVICE	READ	CICUAUDT CICDAUDT
		ALTER	SYSCAUDT CICSAUDT
TDQUEUE/ TDQUEUE	TDQUEUE	READ	OPERAUDT CICUAUDT CICDAUDT
		UPDATE	SYSCAUDT CICSAUDT
TERMINAL/ TERMINAL	TERMINAL	READ	CICDAUDT
		UPDATE	CICBAUDT OPERAUDT CICUAUDT
		ALTER	SYSCAUDT CICSAUDT
TRANDUMPCODE/ TRANDUMP	TRANDUMPCODE	READ	CICUAUDT CICDAUDT
		UPDATE	SYSCAUDT CICSAUDT
TRANSACTION/ TRANSACTION	TRANSACTION	READ	CICDAUDT
		UPDATE	OPERAUDT CICUAUDT

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Resource/TSS Resource	Command	Access	Users
			<b>APPDAUDT*</b>
		ALTER	SYSCAUDT CICSAUDT
TSMODEL/ TSMODEL	TSMODEL	READ	CICUAUDT
		ALTER	SYSCAUDT CICSAUDT
TSPOOL/ TSPOOL	TSPOOL	READ	SYSCAUDT CICSAUDT CICUAUDT
TSQNAME/ TSQNAME	TSQNAME	READ	CICUAUDT
		UPDATE	SYSCAUDT CICSAUDT
TSQUEUE/ TSQUEUE	TSQUEUE	READ	CICUAUDT CICDAUDT
		UPDATE	SYSCAUDT CICSAUDT
TYPETERM/ TYPETERM	TYPETERM	ALTER	SYSCAUDT CICSAUDT
UOW/ UOW	UOW	READ	CICUAUDT
		UPDATE	SYSCAUDT CICSAUDT
UOWDSNFAIL/ UOWDSNFA	UOWDSNFAIL	READ	SYSCAUDT CICSAUDT CICUAUDT
UOWENQ/ UOWENQ	UOWENQ	READ	SYSCAUDT CICSAUDT CICUAUDT
UOWLINK/ UOWLINK	UOWLINK	READ	CICUAUDT
		UPDATE	SYSCAUDT CICSAUDT
URIMAP/ URIMAP	URIMAP	READ	CICUAUDT CICDAUDT
		ALTER	SYSCAUDT CICSAUDT
VOLUME/ VOLUME	VOLUME	UPDATE	SYSCAUDT CICSAUDT
VTAM/ VTAM	VTAM	READ	CICDAUDT
		UPDATE	SYSCAUDT CICSAUDT OPERAUDT CICUAUDT
WEB/ WEB	WEB	READ	CICUAUDT
		UPDATE	SYSCAUDT

Resource/TSS Resource	Command	Access	Users
			CICSAUDT
WEBSERVICE/ WEBSERVI	WEBSERVICE	READ	NONE
		ALTER	SYSCAUDT CICSAUDT
WORKREQUEST/ WORKREQU	WORKREQUEST	READ	SYSCAUDT CICSAUDT CICUAUDT
XMLTRANSFORM/ XMLTRANS	XMLTRANSFORM	READ	CICUAUDT
		UPDATE	SYSCAUDT CICSAUDT

\* Application Development Programmers can be granted this access ONLY on a CICS region that resides on a Development/Test Asset. This does not include any 'test' CICS region on a Production asset. That CICS region must be treated as production.

Each Command can take any combination of the following actions:

INQUIRE      Retrieve information about  
 SET            To Change or Modify  
 DISCARD      To Remove  
 CREATE        To Define  
 PERFORM      Perform an action against (Initialize, Terminate, Delete, Request, Start, Reset, Refresh, Initiate)

ACCESS	PERMISSIONS
READ permits	INQUIRE
UPDATE permits	PERFORM, SET and DISCARD
ALTER permits	Create

### SRRAUDIT GROUPS

SYSCAUDT	CICS Systems Programmers
CICSAUDT	CICS Started Task
CICBAUDT	CICS Batch Programs
CICUAUDT	CICS Utilities (Control O, Batch IDs submitted by Control M, MAINVIEW)
CICDAUDT	CICS Developers
OPERAUDT	OST CICS commands
<b>APPDAUDT</b>	<b>Application Development Programmers.</b>

**Table 41 - CICS SPI Resource Descriptions Table**

Referenced by: ZCICA021, ZCICR021, ZCICT021

COMMAND	Description
ASSOCIATION	Association of information for a specified task

<b>COMMAND</b>	<b>Description</b>
ATOMSERVICE	ATOMSERVICE resource definition
AUTINSTM	Terminal autoinstall model
AUTOINST	Terminal autoinstall values
BEAN	Information about an installed enterprise bean.
BRFACILITY	A virtual terminal (bridge facility) used by the 3270 bridge mechanism.
BUNDLE	A BUNDLE resource in the local CICS region
CAPTURESPEC	Information about a capture specification
CFDTPOOL	Information about a coupling facility data table pool
CLASSCACHE	A shared class cache in the CICS® region
CONNECTION	A CICS Connection
CORBASERVER	A CorbaServer
DB2CONN	A CICS DB2 connection
DB2ENTRY	Used to define resources to be used by a specific transaction or by a group of transactions when accessing DB2
DB2TRAN	A DB2TRAN associated with a DB2ENTRY
DELETSHPED	System settings that control automatic deletion of shipped terminal definitions
DISPATCHER	CICS dispatcher system information
DJAR	A definition of a specified deployed JAR file
DOCTEMPLATE	A document template
DSNAME	An external data set
DUMP	System dump of CICS
DUMPDS	CICS transaction dump data sets
ENQMODEL	An ENQMODEL definition
EVENTBINDING	A specified event binding
EVENTPROCESS	Event processing
EXCI	External CICS interface
EXITPROGRAM	A user exit
FECONNECTION	Information about the state of FEPI connections
FENODE	FEPI nodes
FEPOOL	FEPI pools of connections
FEPROPSET	FEPI property set
FETARGET	FEPI target
FILE	A FILE definition
HOST	A virtual host
IPCONN	An IPCONN resource is a Transport Control Protocol/Internet Protocol (TCP/IP) communication link from your local CICS® region to another CICS region or another system
IRC	An interregion communication
JOURNALMODEL	A journal model definition

<b>COMMAND</b>	<b>Description</b>
JOURNALNAME	A journal name
JVM	JVMs in a CICS region
JVMPPOOL	Pool of JVMs in the CICS address space
JVMPROFILE	JVM profiles that have been used in a CICS region
JVMSERVER	JVM server runtime environment in the CICS region
LIBRARY	LIBRARY resource in the local CICS region
LSRPOOL	Local shared resources (LSR) pool
MAPSET	The definition of a particular program, map set, or partition set
MODENAME	Sessions in an APPC session group
MONITOR	MONITOR command to find out whether CICS monitoring is active, which types of data are being recorded, and other recording options.
MQCONN	The connection between CICS and WebSphere® MQ
MQINI	Initiation queue to be used for the connection between CICS and WebSphere MQ
MVSTCB	Addresses and storage usage information for MVS TCBs
NETNAME	Terminal or session
PARTITIONSET	Command installs a PARTITIONSET definition with the attribute specified on the command
PARTNER	The name assigned in its PARTNER resource definition
PIPELINE	PIPELINE in the local CICS region
PROCESSTYPE	A PROCESSTYPE in the local CICS region
PROFILE	A PROFILE definition
PROGRAM	A PROGRAM definition
REQUESTMODEL	A REQUESTMODEL resource definition maps an inbound request that is formatted using the Internet Inter-ORB PROTOCOL (IIOP) to a CICS transaction that is to be started to process the request
RESETTIME	Reset date and time.
RRMS	Indicates whether inbound transactional EXCI work is currently being accepted
SECURITY	A request for CICS security information to be refreshed from its external security manager (ESM) source, so that it reflects any updates made since the information was last retrieved
SESSIONS	A SESSIONS definition
SHUTDOWN	Shuts down the CICS system
STATISTICS	Retrieve the current statistics for a single resource, or global statistics for a class of resources
STORAGE	You can use it to get a list of the task storage areas associated with a particular task (using the NUMELEMENTS option), or you can use it to find the

<b>COMMAND</b>	<b>Description</b>
	length and starting address of a particular area of storage (using the ADDRESS option)
STREAMNAME	Retrieve information about a currently connected MVS log stream
SUBPOOL	Command returns information about a particular storage subpool
SYSDUMPCODE	System dump code table entry
SYSTEM	Returns information about the CICS system under which the task issuing the command is executing
TASK	Returns information about a specific user task. User tasks are those associated with user-defined transactions or with CICS-supplied transactions that are normally invoked by an operator
TCLASS	Transaction Class
TCPIP	CICS internal sockets support
TCPIPSERVICE	TCPIP ports on which CICS internal TCPIP support is currently
TDQUEUE	A transient data queue in the local CICS region
TERMINAL	Terminal Command
TRANDUMPCODE	A transaction dump code
TRANSACTION	A transaction installed in your CICS system
TSMODEL	A temporary Storage Table in the local CICS region
TSPOOL	A shared temporary storage pool
TSQNAME	A queue with a name up to 16 characters long
TYPETERM	A terminal type in the local CICS region
UOW	Information about a unit of work (UOW)
UOWDSNFAIL	The UOWDSNFAIL command returns UOWs that are shunted and also UOWs that are in the process of being retried. In the latter case, the only data sets returned are those that have not yet been processed as part of the retry
UOWENQ	Retrieves information about enqueues. Enqueues are used by CICS to lock recoverable resources, such as file records or queues, to the UOW that is updating them. User enqueues obtained by the EXEC CICS ENQ command are also returned
UOWLINK	Retrieves information about a connection involved in a unit of work. The connection can be to a remote system, to a task-related user exit, or to a CFDT server.
URIMAP	A URIMAP resource definition
VTAM	The connection between CICS and VTAM
WEB	CICS Web support
WEBSERVICE	A WEBSERVICE in the local CICS region
WORKREQUEST	Tasks that are started as a result of action by a request

---

COMMAND	Description
	receiver
XMLTRANSFORM	Information about an installed XMLTRANSFORM resource. This information can include the state of the XMLTRANSFORM resource and details about the conditions under which the XMLTRANSFORM resource was installed, such as which mapping level was used



## 11.6 WebSphere MQ Requirements

**Table 42 - WebSphere MQ Command Security Controls**

Referenced by: ZWMQ0059

COMMAND	PROFILE	ACCESS LEVEL	AUTHORIZED USERS	LOG
ALTER <i>xxxxx</i>	ssid.ALTER. <i>xxxxx</i>	ALTER	MQ administrator Systems programmers Queue managers	Y
ALTER queue	Ssid.ALTER.queue  Except ssid.SYSTEM.queue	ALTER	MQ administrator Decentralized MQ admin Systems Programmers Queue managers	Y
ARCHIVE LOG	ssid.ARCHIVE.LOG	CONTROL	MQ administrator Systems programmers Queue managers Operators Console automation software	Y
CLEAR QLOCAL	ssid.CLEAR.QLOCAL	ALTER	MQ administrator Systems programmers Queue managers	Y
DEFINE <i>xxxxx</i>	ssid.DEFINE. <i>xxxxx</i>	ALTER	MQ administrator Systems programmers Queue managers	Y
DEFINE QUEUE	Ssid.DEFINE.QUEUE  Except ssid.SYSTEM.queue	ALTER	MQ administrator Decentralized MQ admin Systems programmers Queue managers	Y
DELETE <i>xxxxx</i>	ssid.DELETE. <i>xxxxx</i>	ALTER	MQ administrator Systems programmers Queue managers	Y
DELETE queue	Ssid.DELETE.queue  Except ssid.SYSTEM.queue	ALTER	MQ administrator Decentralized MQ admin Systems Programmers Queue managers	Y

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COMMAND	PROFILE	ACCESS LEVEL	AUTHORIZED USERS	LOG
DISPLAY <i>xxxxx</i>	<i>ssid.DISPLAY.xxxxx</i>	READ	Auditors Application programmers MQ administrator Systems programmers Queue manager Operators Console automation software	N
PING <i>xxxxx</i>	<i>ssid.PING.xxxxx</i>	CONTROL	Application programmers MQ administrator Systems programmers Queue managers Operators Console automation software	N
RECOVER BSDS	<i>ssid.RECOVER.BSDS</i>	CONTROL	MQ administrator Systems programmers Queue managers	Y
REFRESH <i>xxxxx</i>	<i>ssid.REFRESH.xxxxx</i>	ALTER	Security staff MQ administrator Systems programmers Queue managers	Y
RESET <i>xxxxx</i>	<i>ssid.RESET.xxxxx</i>	CONTROL	MQ administrator Systems programmers Queue managers	Y
RESOLVE <i>xxxxx</i>	<i>ssid.RESOLVE.xxxxx</i>	CONTROL	MQ administrator Systems programmers Queue managers Operators Console automation software	Y
RESUME QMGR	<i>ssid.RESUME.QMGR</i>	CONTROL	MQ administrator Systems programmers Queue managers Operators Console automation software	Y
RVERIFY SECURITY	<i>ssid.RVERIFY.SECURITY</i>	ALTER	Security staff MQ administrator	Y

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COMMAND	PROFILE	ACCESS LEVEL	AUTHORIZED USERS	LOG
START <i>xxxxx</i>	<i>ssid.START.xxxxx</i>	CONTROL	MQ administrator Systems programmers Queue managers Operators Console automation software	Y
STOP <i>xxxxx</i>	<i>ssid.STOP.CHINIT</i>	CONTROL	MQ administrator Systems programmers Queue managers Operators Console automation software	Y
SUSPEND QMGR	<i>ssid.SUSPEND.QMGR</i>	CONTROL	MQ administrator Systems programmers Queue managers Operators Console automation software	Y

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## 11.7 Web Application Server Requirements

**Table 43 - WAS HFS Permission Bits**

Referenced by: ZWAS0020

<b><i>IHS VENDOR SERVER SOFTWARE HFS OBJECT SECURITY SETTINGS</i></b>				
<b><i>DIRECTORY or FILE</i></b>	<b><i>PERMISSION BITS</i></b>	<b><i>USER AUDIT BITS</i></b>	<b><i>OWNER</i></b>	<b><i>GROUP</i></b>
/usr/lpp/internet	755	fff	UID(0) user	IMWEB
/usr/lpp/internet/bin	755	fff	UID(0) user	IMWEB
/usr/lpp/internet/sbin	750	fff	UID(0) user	IMWEB

<b><i>IHS LOCAL SERVER STANDARD HFS OBJECT SECURITY SETTINGS</i></b>				
<b><i>DIRECTORY or FILE</i></b>	<b><i>PERMISSION BITS</i></b>	<b><i>USER AUDIT BITS</i></b>	<b><i>OWNER</i></b>	<b><i>GROUP</i></b>
.../websrv1_root/	555	fff	websrv1	webadmgl
.../websrv1_root/Admin	550	fff	websrv1	webadmgl
.../websrv1_root/admin-bin	550	fff	websrv1	webadmgl
.../websrv1_root/cgi-bin	551	fff	websrv1	webadmgl
.../websrv1_root/fcgi-bin	550	fff	websrv1	webadmgl
.../websrv1_root/pub	555	fff	websrv1	webadmgl

<b><i>IHS LOCAL SERVER CONFIGURATION HFS OBJECT SECURITY SETTINGS</i></b>				
<b><i>DIRECTORY or FILE</i></b>	<b><i>PERMISSION BITS</i></b>	<b><i>USER AUDIT BITS</i></b>	<b><i>OWNER</i></b>	<b><i>GROUP</i></b>
/etc/websrv1/httpd.conf	460	faf	websrv1	webadmgl
/etc/websrv1/httpd.envvars	564	faf	websrv1	webadmgl
/etc/websrv1/mvsds.conf	460	faf	websrv1	webadmgl

<b><i>IHS LOCAL SERVER LOG HFS OBJECT SECURITY SETTINGS</i></b>				
<b><i>DIRECTORY or FILE</i></b>	<b><i>PERMISSION BITS</i></b>	<b><i>USER AUDIT BITS</i></b>	<b><i>OWNER</i></b>	<b><i>GROUP</i></b>
.../websrv1_root/logs	750	fff	websrv1	webadmgl
.../websrv1_root/logs/httpd-log	750	fff	websrv1	webadmgl
.../websrv1_root/logs/httpd-errors	750	fff	websrv1	webadmgl
.../websrv1_root/logs/cgi-error	750	fff	websrv1	webadmgl

## 11.8 SDSF Requirements

The following describes the definitions of the entries in the User Group column for all of the tables in the SDSF Requirements:

### User Group

APPDAUDT - Application Development Programmers

APPSAUDT - Application Support Programmers

AUDTAUDT - Auditors

OPERAUDT - Operations Personnel

SYSPAUDT - Systems Programming staff

\* - All Users

**Table 44 - SDSF SAF Resources**

Referenced by: ZISF0020

Resource Name	User Group	Access	Logging
GROUP.**	*	NONE	
GROUP.group-name.server-name	Dependant on group	READ	
GROUP.group-name.server-name with group-name containing AUPDT greater than 0.	OPERAUDT SYSPAUDT	READ	
ISFATTR.**	*	NONE	
ISFATTR.CHECK.**	AUDTAUDT OPERAUDT SYSPAUDT	UPDATE	
ISFATTR.ENCLAVE.**	AUDTAUDT OPERAUDT SYSPAUDT	UPDATE	
ISFATTR.JOB.**	APPDAUDT APPSAUDT OPERAUDT SYSPAUDT	UPDATE	
ISFATTR.JOB.PRTDEST	*	UPDATE	
ISFATTR.JOBCL.**	OPERAUDT SYSPAUDT	UPDATE	
ISFATTR.LINE.**	OPERAUDT SYSPAUDT	UPDATE	
ISFATTR.MEMBER.**	OPERAUDT SYSPAUDT	UPDATE	
ISFATTR.MODIFY.**	OPERAUDT SYSPAUDT	UPDATE	
ISFATTR.NODE.**	OPERAUDT SYSPAUDT	UPDATE	

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Resource Name	User Group	Access	Logging
ISFATTR.OFFLOAD.**	OPERAUDT SYSPAUDT	UPDATE	
ISFATTR.OUTDESC.**	*	UPDATE	
ISFATTR.OUTPUT.**	AUDTAUDT APPDAUDT APPSAUDT OPERAUDT SYSPAUDT	UPDATE	
ISFATTR.OUTPUT.BURST	*	UPDATE	
ISFATTR.OUTPUT.CLASS	*	UPDATE	
ISFATTR.OUTPUT.DEST	*	UPDATE	
ISFATTR.OUTPUT.FCB	*	UPDATE	
ISFATTR.OUTPUT.FLASH	*	UPDATE	
ISFATTR.OUTPUT.FORMS	*	UPDATE	
ISFATTR.OUTPUT.PRMODE	*	UPDATE	
ISFATTR.OUTPUT.UCS	*	UPDATE	
ISFATTR.OUTPUT.WRITER	*	UPDATE	
ISFATTR.PROPTS.**	OPERAUDT SYSPAUDT	UPDATE	
ISFATTR.RDR.**	OPERAUDT SYSPAUDT	UPDATE	
ISFATTR.RESMON.**	OPERAUDT SYSPAUDT	UPDATE	
ISFATTR.RESOURCE.**	OPERAUDT SYSPAUDT	UPDATE	
ISFATTR.SELECT.**	OPERAUDT SYSPAUDT	UPDATE	
ISFATTR.SPOOL.**	OPERAUDT SYSPAUDT	UPDATE	
ISFAUTH.**	*	NONE	
ISFAUTH.DEST.**	APPDAUDT APPSAUDT	READ	
	OPERAUDT SYSPAUDT	ALTER	
ISFCMD.**	*	NONE	
ISFCMD.DSP.ACTIVE.jesx	*	READ	
ISFCMD.DSP.HELD.jesx	*	READ	
ISFCMD.DSP.INPUT.jesx	*	READ	
ISFCMD.DSP.OUTPUT.jesx	*	READ	
ISFCMD.DSP.SCHENV.system	*	READ	
ISFCMD.DSP.STATUS.jesx	*	READ	
ISFCMD.FILTER.ACTION	APPDAUDT APPSAUDT	READ	

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Resource Name	User Group	Access	Logging
	OPERAUDT SYSPAUDT		
ISFCMD.FILTER.DEST	*	READ	
ISFCMD.FILTER.FINDLIM	*	READ	
ISFCMD.FILTER.INPUT	* SYSPAUDT	READ	
ISFCMD.FILTER.OWNER	*	READ	
ISFCMD.FILTER.PREFIX	*	READ	
ISFCMD.FILTER.RSYS	APPDAUDT APPSAUDT OPERAUDT SYSPAUDT	READ	
ISFCMD.FILTER.SYSID	*	READ	
ISFCMD.FILTER.SYSNAME	*	READ	
ISFCMD.MAINT.ABEND	SYSPAUDT	READ	
ISFCMD.MAINT.TRACE	APPDAUDT APPSAUDT SYSPAUDT	READ	
ISFCMD.ODSP.ENCLAVE	APPDAUDT APPSAUDT OPERAUDT SYSPAUDT	READ	
ISFCMD.ODSP.INITIATOR.jesx	APPDAUDT APPSAUDT OPERAUDT SYSPAUDT	READ	
ISFCMD.ODSP.JOBCLASS.jesx	APPDAUDT APPSAUDT OPERAUDT SYSPAUDT	READ	
ISFCMD.ODSP.LINE.jesx	APPDAUDT APPSAUDT OPERAUDT SYSPAUDT	READ	
ISFCMD.ODSP.MAS.jesx	APPDAUDT APPSAUDT OPERAUDT SYSPAUDT	READ	
ISFCMD.ODSP.NODE.jesx	APPDAUDT APPSAUDT OPERAUDT SYSPAUDT	READ	
ISFCMD.ODSP.PRINTER.jesx	APPDAUDT	READ	

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Resource Name	User Group	Access	Logging
	APPSAUDT OPERAUDT SYSPAUDT		
ISFCMD.ODSP.PROCESS	APPDAUDT APPSAUDT OPERAUDT SYSPAUDT	READ	
ISFCMD.ODSP.PUNCH.jesx	APPDAUDT APPSAUDT OPERAUDT SYSPAUDT	READ	
ISFCMD.ODSP.READER.jesx	APPDAUDT APPSAUDT OPERAUDT SYSPAUDT	READ	
ISFCMD.ODSP.RESOURCE.system	APPDAUDT APPSAUDT OPERAUDT SYSPAUDT	READ	
ISFCMD.ODSP.SO.jesx	APPDAUDT APPSAUDT OPERAUDT SYSPAUDT	READ	
ISFCMD.ODSP.SPOOL.jesx	APPDAUDT APPSAUDT OPERAUDT SYSPAUDT	READ	
ISFCMD.ODSP.SR.system	APPDAUDT APPSAUDT OPERAUDT SYSPAUDT	READ	
ISFCMD.ODSP.SYSLOG.jesx	APPDAUDT APPSAUDT AUDTAUDT OPERAUDT SECAAUDT SYSPAUDT	READ	
ISFCMD.ODSP.ULOG.jesx	APPDAUDT APPSAUDT AUDTAUDT OPERAUDT SYSPAUDT	READ	
ISFCMD.OPT.SERVER	SYSPAUDT	READ	



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Resource Name	User Group	Access	Logging
ISFENC.subsystem-type.subsystem-name	OPERAUDT SYSPAUDT	ALTER	
ISFINIT.Ixx.jesx	* APPDAUDT APPSAUDT	READ	
	OPERAUDT SYSPAUDT	CONTROL	
ISFJOBCL.class.jesx	*	READ	
	OPERAUDT SYSPAUDT	CONTROL	
ISFLINE.device-name.jesx	* APPDAUDT APPSAUDT	READ	
	OPERAUDT SYSPAUDT	ALTER	
ISFMEMB.member-name.jesx	*	READ	
	OPERAUDT SYSPAUDT	ALTER	
ISFNODE.node-name.jesx	*	READ	
	OPERAUDT SYSPAUDT	CONTROL	
ISFNS.device-name.jesx	OPERAUDT SYSPAUDT	CONTROL	
ISFOPER.ANYDEST.jesx	* APPDAUDT APPSAUDT OPERAUDT SYSPAUDT	READ	
ISFOPER.DEST.jesx	APPDAUDT APPSAUDT OPERAUDT SYSPAUDT	READ	
ISFOPER.SYSTEM	AUDTAUDT OPERAUDT SECAAUDT SYSPAUDT	READ	
ISFPROC.owner.process	APPDAUDT APPSAUDT	READ	
	OPERAUDT SYSPAUDT	ALTER	
ISFRES.resource.system	*	READ	
	OPERAUDT SYSPAUDT	ALTER	

Resource Name	User Group	Access	Logging
ISFRM.resource.jesx	OPERAUDT SYSPAUDT	CONTROL	
ISFSE.sched-env.system	OPERAUDT SYSPAUDT	READ	
ISFSO.device-name.jesx	*	READ	
	OPERAUDT SYSPAUDT	ALTER	
ISFSOCK.device-name.jesx	OPERAUDT SYSPAUDT	CONTROL	
ISFSP.volser.jesx	APPDAUDT APPSAUDT	READ	
	OPERAUDT SYSPAUDT	CONTROL	
ISFSR.ACTION.org-system.jobname	OPERAUDT SYSPAUDT	READ	
ISFSR.REPLY.org-system.jobname	OPERAUDT SYSPAUDT	READ	
ISFSR.type.org-system.jobname	OPERAUDT SYSPAUDT	READ	
SERVER.NOPARM	SYSPAUDT	READ	READ

Table 45 - SDSF SAF Resource Descriptions

Resource Name	Description
GROUP.group-name.server-name	Membership in group
ISFACCR.ENCLAVE.**	Modify fields on the Enclaves (ENC) panel
ISFATTR.CHECK.**	Modify fields on the Health checker (CK) panel
ISFATTR.JOB.**	Modify job fields on the Display Active (DA), Input (I), and Status (ST) panels
ISFATTR.JOB.PRTDEST	Modify JES2 print destination name on ST and I panels
ISFATTR.JOBCL.**	Modify Job Class panel fields
ISFATTR.LINE.**	Modify Line panel fields
ISFATTR.MEMBER.**	Modify Multi-Access Spool panel fields
ISFATTR.MODIFY.**	Modify Spool Offload panel fields
ISFATTR.NODE.**	Modify Node panel fields
ISFATTR.OFFLOAD.**	Modify Spool Offload panel fields
ISFATTR.OUTDESC.**	Modify output descriptor fields on the Job Data Set (JDS) and Output Descriptor (OD) panels

Resource Name	Description
ISFATTR.OUTPUT.**	Modify output group fields on the Held Output (H) and Output Queue (O) panels
ISFATTR.OUTPUT.BURST	Modify burst indication field on H and O panels
ISFATTR.OUTPUT.CLASS	Modify JES2 output class on H and O panels
ISFATTR.OUTPUT.DEST	Modify JES2 print destination name on H and O panels
ISFATTR.OUTPUT.FCB	Modify output FCB ID on H and O panels
ISFATTR.OUTPUT.FLASH	Modify output flash ID on H and O panels
ISFATTR.OUTPUT.FORMS	Modify output form number on H and O panels
ISFATTR.OUTPUT.PRMODE	Modify printer process mode on H and O panels
ISFATTR.OUTPUT.UCS	Modify output UCS ID on H and O panels
ISFATTR.OUTPUT.WRITER	Modify output external writer name on H and O panels
ISFATTR.PROPTS.**	Modify Printer panel fields, lines and transmitter fields on the Lines panel, and Punch panel fields
ISFATTR.RDR.**	Modify fields on the Readers (RDR) panel
ISFATTR.RESMON.**	Modify fields on the Resource monitor (RM) panel
ISFATTR.RESOURCE.**	Modify WLM Resource panel fields
ISFATTR.SELECT.**	Modify selection criteria fields on the Initiator, Line, Printer, Punch, and Spool Offload panels
ISFATTR.SPOOL.**	Modify fields on the Spool volumes (SP) panel
ISFAUTH.DEST.destname	Specific destination name
ISFAUTH.DEST.destname	Display and list jobs
ISFAUTH.DEST.destname	All other functions such as cancel, purge, and release jobs
ISFCMD.DSP.ACTIVE.jesx	Display Active users (DA) panel command
ISFCMD.DSP.HELD.jesx	Held Output (H) panel command
ISFCMD.DSP.INPUT.jesx	Input Queue (I) panel command
ISFCMD.DSP.OUTPUT.jesx	Output Queue (O) panel command
ISFCMD.DSP.SCHENV.system	Scheduling Environment (SE) panel command
ISFCMD.DSP.STATUS.jesx	Status (ST) panel command
ISFCMD.FILTER.ACTION	Gives user authority to issue the ACTION command.
ISFCMD.FILTER.DEST	Gives user authority to issue the DEST command.
ISFCMD.FILTER.FINDLIM	Gives user authority to issue the FINDLIM

Resource Name	Description
	command.
ISFCMD.FILTER.INPUT	Gives user authority to issue the INPUT command.
ISFCMD.FILTER.OWNER	Gives user authority to issue the OWNER command.
ISFCMD.FILTER.PREFIX	Gives user authority to issue the PREFIX command.
ISFCMD.FILTER.RSYS	Gives user authority to issue the RSYS command.
ISFCMD.FILTER.SYSID	Gives user authority to issue the SYSID command.
ISFCMD.FILTER.SYSNAME	Gives user authority to issue the SYSNAME command.
ISFCMD.MAINT.ABEND	Cause SDSF toabend
ISFCMD.MAINT.TRACE	Create trace records with SDSF data
ISFCMD.ODSP.ENCLAVE	Enclave (ENC) panel command
ISFCMD.ODSP.INITIATOR.jesx	Initiator (INIT) panel command
ISFCMD.ODSP.JOBCLASS.jesx	Job Class (JC) panel command
ISFCMD.ODSP.LINE.jesx	Line (LI) panel command
ISFCMD.ODSP.MAS.jesx	Multi-Access Spool (MAS) panel command
ISFCMD.ODSP.NODE.jesx	Node (NO) panel command
ISFCMD.ODSP.PRINTER.jesx	Printer (PR) panel command
ISFCMD.ODSP.PROCESS	Process (PS) panel command
ISFCMD.ODSP.PUNCH.jesx	Punch (PUN) panel command
ISFCMD.ODSP.READER.jesx	Reader (RDR) panel command
ISFCMD.ODSP.RESOURCE.system	Resource (RES) panel command
ISFCMD.ODSP.SO.jesx	Spool Offload (SO) panel command
ISFCMD.ODSP.SPOOL.jesx	Spool (SP) volume panel command
ISFCMD.ODSP.SR.system	System Request (SR) panel command
ISFCMD.ODSP.SYSLOG.jesx	Syslog and Operlog (LOG) panel command
ISFCMD.ODSP.ULOG.jesx	User Log (ULOG) panel command
ISFCMD.OPT.SERVER	Use of the SERVER parameter on the SDSF command
ISFENC.subsystem-type.subsystem-name	Resume and quiesce an enclave
ISFINIT.Ixx.jesx	Display information about an initiator
ISFINIT.Ixx.jesx	All other functions such as start, stop, and drain an initiator
ISFJOBCL.class.jesx	Display information about a job class
ISFJOBCL.class.jesx	Modify job class characteristics
ISFLINE.device-name.jesx	Display information about a line and associated transmitters and receivers
ISFLINE.device-name.jesx	Cancel data being transmitted and received
ISFLINE.device-name.jesx	All other functions such as start, stop, and

Resource Name	Description
	disconnect a line
ISFMEMB.member-name.jesx	Display information about a MAS member
ISFMEMB.member-name.jesx	Stop and restart a member in a MAS
ISFMEMB.member-name.jesx	All other functions such as stop (abend) and stop (ignore activity) a MAS member
ISFNODE.node-name.jesx	Display information about a node
ISFNODE.node-name.jesx	All other functions such as start node communication
ISFNS.device-name.jesx	Network servers
ISFOPER.ANYDEST.jesx	Any destination name
ISFOPER.DEST.jesx	Browse and print Standard SYSIN/SYSOUT data sets
ISFOPER.SYSTEM	Command line commands (/)
ISFPROC.owner.process	Display information about a process
ISFPROC.owner.process	Cancel a process
ISFRES.resource.system	Display information about a WLM resource
ISFRES.resource.system	Modify the state of a WLM resource
ISFRM.resource.jesx	JES resources
ISFSE.sched-env.system	Display information about a scheduling environment
ISFSO.device-name.jesx	Display information about a spool offloader and associated transmitters and receivers
ISFSO.device-name.jesx	Cancel the job and output active on a transmitter and receiver
ISFSO.device-name.jesx	All other functions such as start and drain an offloader
ISFSOCK.device-name.jesx	Network connections
ISFSP.volser.jesx	Display information about a spool volume
ISFSP.volser.jesx	All other commands such as drain, start, and halt a spool volume
ISFSR.ACTION.org-system.jobname	Remove action messages from the display
ISFSR.REPLY.org-system.jobname	Reply to a system message
ISFSR.type.org-system.jobname	Display information about system request messages
SERVER.NOPARM	Reverting to ISFPARMS in assembler macro format

- jesx is the name of the JES2 subsystem
- destname is destination name of the job
- xx is the number of the JES2 initiator
- device-name is the name of the line, offloader, transmitter, or receiver
- node-name is the name of the JES2 node
- member-name is the name of the member defined in the MAS configuration

- class is the job class
- sched-env is the name of the scheduling environment
- system is the name of the MVS system (sysplex support)
- resource is the name of the WLM resource
- type is the message type (ACTION or REPLY)
- org-system is the name of the originating system
- jobname is the name of the job issuing the message
- subsystem-type is the type of subsystem such as MQ or DB2
- subsystem-name is the name of the subsystem
- owner is the owner of the z/OS UNIX process
- process is the name of the z/OS UNIX process
- volser is the serial number of the spool volume

**Table 46 - SDSF Server OPERCMDS Resources**

Referenced by: ZISF0021

Resource Name	Description	Logging	User Group	Access
<i>server</i> .MODIFY.DISPLAY	Use of the DISPLAY parameter on the MVS MODIFY command (F) for the SDSF server		AUDTAUDT OPERAUDT SYSPAUDT	READ
<i>server</i> .MODIFY. <i>mod-parm</i>	Use of various parameters on the MVS MODIFY command for the SDSF server	UPDATE	SYSPAUDT	CONTROL

In the table:

- *server* is the name of the SDSF server specified either by the ISFPMAC macro or SDSF command.
- *mod-parm* is one of the following parameters specified on the MVS MODIFY command: DEBUG, FOLDMSG, LOGCLASS, LOGTYPE, REFRESH, START, STOP, TRACE, and TRCLASS.
- The server START and STOP commands are protected by MVS. The resources are MVS.START.STC.*server* and MVS.STOP.STC.*server* respectively. They are defined to the OPERCMDS resource class and require update authority.

**Table 47 - WebSphere MQ Queue Definition Authority SAF Resources**

Resource Class	Resource Name	Description	Req'd Access	
			Server	Client
MQCMDS	<i>ssid</i> .DEFINE.QMODEL	Define queues	ALTER	NONE
MQCMDS	<i>ssid</i> .DEFINE.QALIAS	Define a queue alias	ALTER	NONE
MQADMIN	<i>ssid</i> .QUEUE. <i>prefix</i> .MODEL.QUEUE	Define queues	ALTER	NONE
MQQUEUE	<i>ssid</i> .SYSTEM.COMMAND.REPLY.MODEL.	Model queue (used to create the temporary ReplyTo queue)	ALTER	NONE
MQQUEUE	<i>ssid</i> .SYSTEM.COMMAND.INPUT	Command input queue (used to submit DEFINE commands)	ALTER	NONE

In the table:

- *ssid* is the MQ subsystem ID. This is the queue manager name specified on the COMM statement of ISFPARMS.
- *prefix* is a string that identifies the queue name. It is defined by the QPREFIX parameter of the COMM statement in ISFPARMS.



## 11.9 CL/SuperSession Requirements

**Table 48 - Required GLOBAL Common Profile Segment Options**

Referenced by: ZCLS0040

Required GLOBAL Common Profile Segment Options		
OPTION	DESCRIPTION	REQUIRED VALUE
Administrator authority	Grants Administrator authority	N
Maintain customized menu	Allows the user to customize the application menu	Y
Add sessions to the menu	Allows the user to add VTAM sessions to the application menu	N
<b>NOTE:</b> The above options may be set to <b>Yes</b> only for the Administrator(s).		
Resource validation	Resource name ( <u>A</u> PPPLID and/or <u>S</u> ession Id) used when calling the ACP for dynamic application lists	A
Timeout interval	Interval after which the user's session should be terminated for inactivity	00:15
Group profile name	Associated group profile	Will only be specified in a user level profile

**Table 49 - Required SupSess GLOBAL Profile Segment Options**

Referenced by: ZCLS0040

Required SupSess GLOBAL Profile Segment Options		
OPTION	DESCRIPTION	REQUIRED VALUE
Maintain trigger profile	Allows the user to save changes to the trigger ( <i>hot-key</i> string) profile when logging off	N
Add triggers to profile	Allows the user to create trigger definitions and add them to the trigger ( <i>hot-key</i> string) profile	N
Modify triggers in profile	Allows the user to modify existing trigger definitions in the trigger ( <i>hot-key</i> string) profile	N
Switch terminals	Allows switching an active CL/SUPERSESSION session to another VTAM terminal	Y

Required SupSess GLOBAL Profile Segment Options		
OPTION	DESCRIPTION	REQUIRED VALUE
Preserve sessions upon exit	Allows VTAM application sessions to remain active (until they time out) if the CL/SUPERSESSION session is terminated for some reason (e.g., switching to another CL/SUPERSESSION at another site or host)	N



## 11.11 CA ROSCOE Requirements

**Table 51 - CA ROSCOE Resources**

Referenced by: ZROS0020

Resource Names	Logging	User Groups	Access	Note
[rosid.]ROSCMD		*	NONE	
		SYSPAUDT	ALTER	
[rosid.]ROSCMD.ETSO		*	READ	
[rosid.]ROSCMD.MONITOR		SYSPAUDT	ALTER	
[rosid.]ROSCMD.MONITOR.AMS		*	READ	
		SYSPAUDT	ALTER	
[rosid.]ROSCMD.MONITOR.AWS		SYSPAUDT	ALTER	
[rosid.]ROSCMD.MONITOR.CA1		*	READ	
		SYSPAUDT	ALTER	
[rosid.]ROSCMD.MONITOR.COB		*	READ	
		SYSPAUDT	ALTER	
[rosid.]ROSCMD.MONITOR.CON		OPERAUDT	UPDATE	
		SYSPAUDT	UPDATE	
[rosid.]ROSCMD.MONITOR.DIS		*	READ	
		SYSPAUDT	ALTER	
[rosid.]ROSCMD.MONITOR.DMS		*	READ	
		SYSPAUDT	ALTER	
[rosid.]ROSCMD.MONITOR.DOC		*	READ	
		SYSPAUDT	ALTER	
[rosid.]ROSCMD.MONITOR.EXP		*	READ	
		SYSPAUDT	ALTER	
[rosid.]ROSCMD.MONITOR.IMP		*	READ	
		SYSPAUDT	ALTER	
[rosid.]ROSCMD.MONITOR.JCK		*	READ	
		SYSPAUDT	ALTER	
[rosid.]ROSCMD.MONITOR.MON		SYSPAUDT	ALTER	
[rosid.]ROSCMD.MONITOR.PUR	READ	*	READ	
		SYSPAUDT	ALTER	
[rosid.]ROSCMD.MONITOR.ROS		*	READ	
		SYSPAUDT	ALTER	
[rosid.]ROSCMD.MONITOR.RTF		SYSPAUDT	READ	
[rosid.]ROSCMD.MONITOR.SIM		AUDTAUDT	READ	TSS ONLY
		SECAAUDT	READ	TSS ONLY
		SECDAUDT	READ	TSS ONLY
[rosid.]ROSCMD.MONITOR.SOR		*	READ	
		SYSPAUDT	ALTER	
[rosid.]ROSCMD.MONITOR.TIQ		*	READ	
		SYSPAUDT	ALTER	
[rosid.]ROSCMD.MONITOR.TSS		AUDTAUDT	READ	TSS ONLY

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Resource Names	Logging	User Groups	Access	Note
		SECAAUDT	READ	TSS ONLY
		SECDAUDT	READ	TSS ONLY
		Security administrators	READ	TSS ONLY Other than those specified above.
[rosid.]ROSCMD.MONITOR.ZAP	READ	SYSPAUDT	ALTER	
[rosid.]ROSCMD.PRIV	READ	SYSPAUDT	ALTER	
[rosid.]ROSCMD.PRIV.ROSLIB	READ	ROSCAUTH	UPDATE	
		SECAAUDT	UPDATE	
		SECDAUDT	UPDATE	
		SYSPAUDT	ALTER	
[rosid.]ROSCMD.PRIV.ROSUPS	READ	ROSCAUTH	UPDATE	
		SECAAUDT	UPDATE	
		SECDAUDT	UPDATE	
		SYSPAUDT	ALTER	
[rosid.]ROSCMD.RPF		*	READ	

\* - All Users

ROSCAUTH – ROSCOE Master and Maintenance IDs

**11.12 Vanguard Security Solutions Requirements****Table 52 - Vanguard Security Solutions Resources**

Referenced by: ZVSS0020

<b>Resource Names</b>	<b>Logging</b>	<b>User Group</b>	<b>Access</b>
IRR.PASSWORD.RESET		*	None
VIP\$.NOEDIT.COMMANDS		*	None
VRA\$.		*	None
VRA\$.ACSTASK	Read	AUDTAUDT SECAAUDT	Read
VRA\$.DIGTCERT.EDIT.COMMAND		AUDTAUDT SECAAUDT	Read
VRA\$.LIVE.USER		AUDTAUDT SECAAUDT SYSPAUDT	Read
VRA\$.PASSWORD	Read	AUDTAUDT SECAAUDT SECDAUDT	Read
VRA\$.REFRESH.		AUDTAUDT SECAAUDT SECDAUDT	Read
VRA\$.REFRESH.GENERIC		AUDTAUDT SECAAUDT SECDAUDT	Read
VRA\$.REFRESH.GLOBAL		AUDTAUDT SECAAUDT SECDAUDT	Read
VRA\$.REFRESH.RACLIST		AUDTAUDT SECAAUDT SECDAUDT	Read
VRA\$.REFRESH.WHENPROGRAM		AUDTAUDT SECAAUDT SECDAUDT	Read
VRA\$.SCOPE		*	None
		AUDTAUDT SECAAUDT SECDAUDT SYSPAUDT	Read
VRA\$.VRAACCA	Read	AUDTAUDT SECAAUDT SECDAUDT SYSPAUDT	Read
VRA\$.VRAADUPA	Read	AUDTAUDT SECAAUDT	Read

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Resource Names	Logging	User Group	Access
		SECDAUDT	
VRA\$.VRABRPT	Read	AUDTAUDT SECAAUDT SECDAUDT SYSPAUDT	Read
VRA\$.VRACMND	Read	AUDTAUDT SECAAUDT SECDAUDT	Read
VRA\$.VRADSNA	Read	AUDTAUDT SECAAUDT SECDAUDT SYSPAUDT	Read
VRA\$.VRAEXTR	Read	AUDTAUDT SECAAUDT SECDAUDT SYSPAUDT	Read
VRA\$.VRAGRPT	Read	AUDTAUDT SECAAUDT SECDAUDT SYSPAUDT	Read
VRA\$.VRAOCMD		AUDTAUDT SECAAUDT SECDAUDT	Read
VRA\$.VRAORPT	Read	AUDTAUDT SECAAUDT SECDAUDT SYSPAUDT	Read
VRA\$.VRASRPT	Read	AUDTAUDT SECAAUDT SECDAUDT	Read
VRA\$.VRAVTOC	Read	AUDTAUDT SECAAUDT SECDAUDT SYSPAUDT	Read
VRA\$.VRTRAA	Read	AUDTAUDT SECAAUDT SECDAUDT SYSPAUDT	Read
VRAADM\$.VARIABLES	Read	SECAAUDT SECDAUDT	Read
VRAIDM\$.	Read	SECAAUDT	Update
VRAIDM\$.classname.profile	Read	SECAAUDT SECDAUDT	Update
VRAPW\$.*.**	Read	*	None

Resource Names	Logging	User Group	Access
VRAPW\$.ALL	Read	SECAAUDT	Read
VRAPW\$.ALLOW.HREVOKE	Read	SECAAUDT SECDAUDT	Read
VRAPW\$.groupid	Read	SECAAUDT SECDAUDT	Read
VRAPW\$.NOHISTCHK	Read	*	None
VRAPW\$.NONE.AUDITOR	Read	SECDAUDT	Read
VRAPW\$.NONE.OPERATIONS	Read	SECDAUDT	Read
VRAPW\$.NONE.SPECIAL	Read	SECDAUDT	Read
VRAPW\$.NONE.target-userid	Read	*	None
VRAPW\$.NONE.target-userid-default-group	Read	*	None
VRAPW\$.userid	Read	SECAAUDT SECDAUDT	Read
VRAPWHR\$.groupid	Read	SECAAUDT SECDAUDT	Read
VRAPWHR\$.userid	Read	SECAAUDT SECDAUDT	Read
VRAUD\$.classname	Read	SECAAUDT	Update
VRAUD\$.classname.fieldname	Read	SECAAUDT	Update
VRAUD\$.classname.fieldname.1stnode	Read	SECAAUDT SECDAUDT	Update
VSA\$.VSA	Read	SECAAUDT SECDAUDT	Read
VSR\$.VSR	Read	SECAAUDT SECDAUDT	Read

\* - All Users

**Table 53 - Vanguard Security Solutions Resources Description**

Resource Names	Description
IRR.PASSWORD.RESET	This profile allows users to use NOEXPIRE. To use NOEXPIRE, you must allow the user UPDATE access to the RACF FACILITY class profile.
VIP\$.NOEDIT.COMMANDS	Controls the Security Server Command component. If READ access or greater is allowed, the user will not be presented with an ISPF edit session and the generated commands will be executed immediately. It is recommended that this profile be defined with a UACC of NONE.
VRA\$.ACSTASK	Specifies user(s) who are permitted to execute Administrator Automated Command Scheduler,



Resource Names	Description
	VRAAJACS. A user with READ access or greater has authority to execute the Automated Command Scheduler. It is recommended that this profile be defined with a UACC of NONE. This profile is required for the Automated Command Scheduler.
VRA\$.DIGTCERT.EDIT.COMMAND	Controls RACDCERT command editing. If READ access or greater is allowed, the user will be presented with an ISPF edit session to allow review or modification of the RACDCERT command.
VRA\$.LIVE.USER	Controls the use of Live RACF database access in Administrator. If READ access or greater is allowed, Administrator user may access the live RACF database where available. It is recommended that this profile be defined with a UACC of NONE. It must have the APPLDATA field populated with a string userid/groupid. Userid is a RACF defined user who has READ access to the RACF database. Groupid is a RACF defined group, that userid is connected to. This userid/groupid combination is used to gain access to the live RACF database.
VRA\$.PASSWORD	Identity Manager - The RACFCMDS member also includes the commands to define profiles and permit access to Identity Manager functions. For information about these profile definitions, refer to the <i>Vanguard Administrator Technical Reference Guide</i> .
VRA\$.REFRESH.*	This profile is the High Level Control of SETROPTS REFRESH Command Generation.
VRA\$.REFRESH.GENERIC	This profile pertains to in-storage generic profiles. By permitting a user or group access to this profile with at least READ access, you enable the automatic generation of SETROPTS REFRESH commands for in-storage generic profiles within the specified general resource class that has had a change within one of its profiles.
VRA\$.REFRESH.GLOBAL	This profile controls frequently accessed profiles for public resources. By permitting user or group access to this profile with at least READ access, you enable the automatic generation of SETROPTS REFRESH commands for this class of resources when a profile within this class had been changed.
VRA\$.REFRESH.RACLIST	This profile controls general resource class profiles. By permitting user or group access to this profile

Resource Names	Description
	with at least READ access, you enable the automatic generation of SETROPTS REFRESH commands for the particular general resource class which has had any of its profiles changed.
VRA\$.REFRESH.WHENPROGRAM	This profile has to do with activating program control. By permitting a user or group access to this profile with at least READ access, you enable the automatic generation of SETROPTS REFRESH commands for activating program control that provides both access control to load modules and program access to data sets.
VRA\$.SCOPE	When this profile is defined with a UACC of NONE, GROUP SPECIAL administrators are only allowed to see those profiles within their RACF scope of authority. To allow a user or group to override scoping support, PERMIT the user/group READ access to this profile.
VRA\$.VRAACCA	Batch Access Analyzer
VRA\$.VRAADUPA	Access List Anomaly Analysis
VRA\$.VRABRPT	Batch RACF Reports
VRA\$.VRACMND	Batch Commands
VRA\$.VRADSNA	Data Set Access Analysis
VRA\$.VRAEXTR	Extract Process
VRA\$.VRAGRPT	Batch Group Tree Analysis
VRA\$.VRAOCMD	Online Commands
VRA\$.VRAORPT	Online RACF Reports
VRA\$.VRASRPT	VRA Scope of Authority Analysis
VRA\$.VRAVTOC	VTOC Data Set Reports
VRA\$.VRTRAA	On-line Access and Authorization
VRAADM\$.VARIABLES	Initialization Variable Maintenance
VRAIDM\$.*.*	VRA Inst Data High Level
VRAIDM\$.classname.profile	Controls access to the installation data field in RACF profiles when using the Administrator Installation Data Management function. It is recommended that these profiles be defined with a UACC of NONE, specifically permitting users READ or UPDATE access. The classname can be any valid RACF general resource class name, GROUP, USER, or DATASET. The profile can be a specific profile name, or a generic, to limit the profiles that can be administered. For example, if you define the profile VRAIDM\$.USER.* with a UACC of NONE, and PERMIT user FREDV to the

Resource Names	Description
	profile with access of UPDATE, FREDV would be allowed to view and alter the installation data fields of any RACF user profiles. - NOTE: Asterisks (*) or percent signs (%) encountered in a Dataset or General Resource profile are replaced by a lowercase x. If an ampersand (&), which indicates the presence of a &RACFVARS symbolic is encountered, the return and reason codes will be set to produce the USER NOT AUTHORIZED message on the panel. Therefore, profiles that contain these symbolics will not have their Installation Data updated via this method.
VRAPW\$.*.*	This profile prevents unauthorized access to Identity Manager. Define it with a UACC of NONE, and do not permit any users or groups. - - Important: If you define this profile with a UACC greater than NONE or permit access to this profile, unpredictable results are likely to occur as a result of access to profiles, such as those listed in Table 7. Profiles Disallowing Identity Management.
VRAPW\$.ALL	Allows access to ALL users.
VRAPW\$.ALLOW.HREVOKE	Any non-System SPECIAL user that requires Hard Revoke authority must have READ access to this profile. In addition, the user needs READ access to an appropriate VRAPWHR\$ profile.
VRAPW\$.groupid	This profile allows access by group name. <i>groupid</i> in the profile name should be the same as the default group name of the user ID specified in the command. An optional profile, VRAPWCON.CONGRP, can be defined in the RACF FACILITY class to change the meaning of the VRAPW\$. <i>groupid</i> profile. If the user has READ access to this optional profile, the group name specified in the VRAPW\$. <i>groupid</i> profile changes to mean any group a user is connected to, not just the user's default group.
VRAPW\$.NOHISTCHK	By permitting user or group access to this profile with at least READ access, passwords changed by that user or group are not compared to the current password or the password history. If you want this to be the default action for all users that administer passwords, create the profile with a UACC of READ.
VRAPW\$.NONE.AUDITOR	By permitting user or group access to this profile

Resource Names	Description
	with at least READ access, you prevent the user or group from administering passwords for any user with the RACF System Auditor attribute, regardless of other granted authority.
VRAPW\$.NONE.OPERATIONS	By permitting user or group access to this profile with at least READ access, you prevent the user or group from administering passwords for any user with the RACF Operations attribute, regardless of other granted authority.
VRAPW\$.NONE.SPECIAL	By permitting user or group access to this profile with at least READ access, you prevent the user or group from administering passwords for any user with the RACF System SPECIAL attribute, regardless of other granted authority.
VRAPW\$.NONE.target-userid	By permitting user or group access to this profile with at least READ access, you prevent the user or group from administering passwords for this target User ID, regardless of other granted authority. You can therefore, prevent a user with READ access to the VRAPW\$.ALL profile from administering the password of a specific user, while allowing them to administer all other user passwords.
VRAPW\$.NONE.target-userid-default-group	By permitting user or group access to this profile with at least READ access, you prevent the user or group from administering passwords for a target Userid that has this group as a default group, regardless of other authority granted. You can, therefore prevent a user with READ access to the VRAPW\$.ALL profile from administering the password for all users with a specific default group, while allowing them to administer all other users' passwords.
VRAPW\$.userid	This profile allows access by user ID. <i>userid</i> in the profile name should be the same as the user ID specified in the command.
VRAPWHR\$.groupid	<i>groupid</i> is the ID of the default group of the user specified in the command. An optional profile, VRAPWCON.CONGRP, can be defined in the RACF FACILITY class to change the meaning of the VRAPWHR\$. <i>groupid</i> profile. If the user has read access to this optional profile, the Group ID in the VRAPWHR\$. <i>groupid</i> profile changes to mean any group a user is connected to, not just their default group.

Resource Names	Description
VRAPWHR\$.userid	<i>userid</i> is the user ID specified in the command.
VRAUD\$.classname	Controls access to the User Data fields in the base segment of RACF profiles, when using the Administrator User Data Management function. It is recommended that these profiles be defined with a UACC of NONE. You must then define specific access to permit users READ or UPDATE access. The classname can be any valid RACF general resource class name, GROUP, USER, or DATASET. These profiles allow initial access to the User Data of each class.
VRAUD\$.classname.fieldname	Standard Authority Checking: Controls access to a specific User Data field in a given class. E.G., if you define the profile VRAUD\$.USER.FIRSTNME with a UACC of NONE, and PERMIT user FREDV to the profile with access of UPDATE, FREDV would be allowed to view and alter the User Data field named FIRSTNME of any RACF user profile. - Note: Standard Authority Checking is the default.
VRAUD\$.classname.fieldname.1stnode	Enhanced Authority Checking; Controls access to a specific User Data field in a specific profile in a given class. E.g., if you define the profile VRAUD\$.DATASET.CHKKEY.PAYROLL with a UACC of NONE, and PERMIT user FREDV to the profile with access of UPDATE, FREDV would be allowed to view and alter the Dataset User Data field named CHKKEY in all of the Dataset profiles with a lsnod of PAYROLL. - Note: In order to use the Enhanced Authority Checking, the UDM_ENHANCED_SECURITY keyword must be set to Y in the VRAOPT00 ,ember of the VIPOPTS DDNAME.
VSA\$.VSA	Grants access to Analyzer online and batch - reports
VSR\$.VSR	Grants access to Advisor online and batch reports

## 11.13 Compuware Abend-AID Requirements

**Table 54 – Compuware Abend-AID Resources**

Referenced by: Z Aid0020

Function	Resource Names	User Group
LOGON.FD	prefix.SERVER.LOGON.FD.servername	APPSAUDT OPERAUDT SYSPAUDT
LOGON.IC	prefix.SERVER.LOGON.IC.servername	SYSPAUDT
LOGON.TC	prefix.SERVER.LOGON.TC.servername	OPERAUDT SYSPAUDT
DDIRTx	prefix.DDIRTx.servername.applid_of_CICS_region.tranid_of_entry_in_directory	APPSAUDT SYSPAUDT
DDIRBx.	prefix.DDIRBx.servername.jobname_of_address_space_in_report	APPSAUDT SYSPAUDT
DDIRSx	prefix.DDIRSx.servername.jobname_of_address_space_in_dump	APPSAUDT SYSPAUDT
IMPORT	prefix.SERVER.IMPORT.servername	APPSAUDT SYSPAUDT
IPCS	prefix.SERVER.IPCSCMD.servername	APPSAUDT SYSPAUDT
SHUTDOWN	prefix.SERVER.CONTROL.servername	OPERAUDT SYSPAUDT
LOGSPOOL	prefix.SERVER.CONTROL.servername	OPERAUDT SYSPAUDT
REXX	prefix.SERVER.REXXAPI.servername	APPSAUDT SYSPAUDT

**prefix** - The value specified for the EXTERNAL\_SECURITY\_PREFIX of the Abend-AID Viewer server configuration parameter.

**servername** - The name of the viewing server specified as a parameter on the execute statement of the Abend-AID Viewer server JCL.

**11.14 BMC MAINVIEW Requirements****Table 55 – BMC MAINVIEW Resources**

Referenced by: ZMVZ0020

<b>Resource</b>	<b>User Group</b>
BBM.ssid.CN	AUTOAUDT DASDAUDT MQSAAUDT MV STCs MVZREAD MVZUPDT PCSPAUDT SYSPAUDT
BBM.systemid.MVALARM.targetid.TC	MV STCs
BBM.systemid.MVALERT.targetid.TC	MV STCs
BBM.systemid. MVAO.targetid.TC	MV STCs
BBM.systemid.MVCSMON.targetid.TA	AUTOAUDT DASDAUDT MQSAAUDT MVZUPDT PCSPAUDT SYSPAUDT
BBM.systemid.MVCSMON.targetid.TC	MV STCs
BBM.systemid.MVMVS.targetid.TA	AUTOAUDT DASDAUDT MQSAAUDT MV STCs MVZUPDT PCSPAUDT SYSPAUDT
BBM.systemid.MVMVS.targetid.TC	MV STCs
BBM.systemid.MVSPS.targetid.TA	AUTOAUDT DASDAUDT MQSAAUDT MVZREAD MVZUPDT PCSPAUDT SYSPAUDT
BBM.systemid.MVSPS.targetid.TC	MV STCs
BBM.systemid.MVSRM.targetid.TC	MV STCs
BBM.systemid.MVUSS.targetid.TA	AUTOAUDT DASDAUDT MQSAAUDT MV STCs

Resource	User Group
	MVZUPDT PCSPAUDT SYSPAUDT
BBM.systemid.MVUSS.targetid.TC	MV STCs
BBM.systemid.PLEXMGR.targetid.TA	AUTOAUDT DASDAUDT MQSAAUDT MV STCs MVZREAD MVZUPDT PCSPAUDT SYSPAUDT
BBM.MVCSMON.targetid.AA	AUTOAUDT DASDAUDT MQSAAUDT MVZUPDT PCSPAUDT SYSPAUDT
BBM.MVCSMON.targetid.COMMON.AA	SYSPAUDT
BBM.MVCSMON.targetid.CSMON.PA	AUTOAUDT DASDAUDT MQSAAUDT MVZUPDT PCSPAUDT SYSPAUDT
BBM.MVCSMON.targetid.MYA20.	SYSPAUDT
BBM.MVCSMON.targetid.MYA30.OD	SYSPAUDT
BBM.MVMVS.targetid.AA	AUTOAUDT DASDAUDT MQSAAUDT MVZUPDT PCSPAUDT SYSPAUDT
BBM.MVMVS.targetid.COMMON.AA	SYSPAUDT
BBM.MVMVS.targetid.D*.OD	AUTOAUDT DASDAUDT MQSAAUDT MV STCs MVZUPDT PCSPAUDT SYSPAUDT
BBM.MVMVS.targetid.DC101.CLCMD.OA	AUTOAUDT DASDAUDT MVZUPDT



Resource	User Group
	PCSPAUDT SYSPAUDT
BBM.MVMVS.targetid.MVSCOPE.PA	SYSPAUDT
BBM.MVMVS.targetid.MYA20.	SYSPAUDT
BBM.MVMVS.targetid.MYA30.OD	SYSPAUDT
BBM.MVSPS.targetid.*.OD	AUTOAUDT DASDAUDT MQSAAUDT MVZREAD MVZUPDT PCSPAUDT SYSPAUDT
BBM.MVSPS.targetid.AA	AUTOAUDT DASDAUDT MQSAAUDT MVZREAD MVZUPDT PCSPAUDT SYSPAUDT
BBM.MVSPS.targetid.COMMON.AA	SYSPAUDT
BBM.MVSPS.targetid.MYA20.	SYSPAUDT
BBM.MVSPS.targetid.MYA30.OD	SYSPAUDT
BBM.MVSPS.targetid.SYSPROG.PA	MVREAD MVZUPDT SYSPAUDT
BBM.MVUSS.targetid.*.OD	DASDAUDT MQSAAUDT MV STCs MVZUPDT SYSPAUDT
BBM.MVUSS.targetid.AA	MVUPDT SYSPAUDT
BBM.MVUSS.targetid.COMMON.AA	SYSPAUDT
BBM.MVUSS.targetid.MYA20.	SYSPAUDT
BBM.MVUSS.targetid.MYA30.OD	SYSPAUDT
BBM.MVUSS.targetid.UCE48.OD	SYSPAUDT
BBM.MVUSS.targetid.UCEC0.OD	SYSPAUDT
BBM.MVUSS.targetid.UCEC2.OD	SYSPAUDT
BBM.MVUSS.targetid.UCEC3.OD	SYSPAUDT
BBM.MVUSS.targetid.UCEC4.OD	AUTOAUDT MQSAAUDT MVZREAD MVZUPDT PCSPAUDT

Resource	User Group
	SYSPAUDT
BBM.MVUSS.targetid.UCECC.OD	SYSPAUDT
BBM.MVUSS.targetid.UCECE.OD	SYSPAUDT
BBM.MVUSS.targetid.UCED0.OD	SYSPAUDT
BBM.MVUSS.targetid.UCED1.OD	SYSPAUDT
BBM.MVUSS.targetid.UCED6.OD	MV STCs SYSPAUDT
BBM.MVUSS.targetid.UEC3A.AO	SYSPAUDT
BBM.MVUSS.targetid.UEC3A.BPXLIMIT.OA	SYSPAUDT
BBM.MVUSS.targetid.UEC3A.OD	AUTOAUDT MQSAAUDT MVZREAD MVZUPDT PCSPAUDT SYSPAUDT
BBM.MVUSS.targetid.UUSSD.ACTIVATE.OA	SYSPAUDT
BBM.MVUSS.targetid.UUSSD.AO	SYSPAUDT
BBM.MVUSS.targetid.UUSSD.DEACT.OA	SYSPAUDT
BBM.MVUSS.targetid.UUSSD.OD	SYSPAUDT
BBM.PLEXMGR.targetid.	SYSPAUDT
BBM.PLEXMGR.targetid.AA	SYSPAUDT
BBM.PLEXMGR.targetid.CCE92.OD	AUTOAUDT DASDAUDT MQSAAUDT MVZREAD MVZUPDT PCSPAUDT SYSPAUDT
BBM.PLEXMGR.targetid.COMMON.AA	SYSPAUDT
BBM.PLEXMGR.targetid.CYA10.	SYSPAUDT
BBM.PLEXMGR.targetid.CYA10.OD	AUTOAUDT DASDAUDT MQSAAUDT MVZREAD MVZUPDT PCSPAUDT SYSPAUDT
BBM.PLEXMGR.targetid.CYA50.	SYSPAUDT
BBM.PLEXMGR.targetid.CYA50.OD	AUTOAUDT DASDAUDT MQSAAUDT MVZREAD MVZUPDT PCSPAUDT

Resource	User Group
	SYSAUDT
BBM.PLEXMGR.targetid.CYA60.OD	AUTOAUDT DASDAUDT MQSAAUDT MVZREAD MVZUPDT PCSPAUDT SYSAUDT
BBM.PLEXMGR.targetid.CYA70.OD	SYSAUDT
BBM.PLEXMGR.targetid.CYA80.	SYSAUDT
BBM.PLEXMGR.targetid.CYA90.	SYSAUDT
BBM.PLEXMGR.targetid.CYAA0.OD	SYSAUDT
BBM.PLEXMGR.targetid.CYAB0.	SYSAUDT
BBM.PLEXMGR.targetid.CYAC0.OD	AUTOAUDT DASDAUDT MQSAAUDT MVZREAD MVZUPDT PCSPAUDT SYSAUDT
BBM.PLEXMGR.targetid.CYAD0.OD	SYSAUDT
BBM.PLEXMGR.targetid.CYAE0.OD	SYSAUDT
BBM.PLEXMGR.targetid.CZZ01.OD	SYSAUDT
BBM.PLEXMGR.targetid.CZZ02.OD	SYSAUDT
BBM.PLEXMGR.targetid.MYA20.	SYSAUDT
BBM.PLEXMGR.targetid.MYA20.OD	AUTOAUDT DASDAUDT MQSAAUDT MVZUPDT PCSPAUDT SYSAUDT
BBM.PLEXMGR.targetid.MYA30.OD	AUTOAUDT DASDAUDT MQSAAUDT MVZUPDT PCSPAUDT SYSAUDT
BBM.PLEXMGR.targetid.MYA40.	SYSAUDT

**ssid** - The subsystem id specified in the Mainview CAS and PAS procedures.

**systemid** - The SYSNAME specified in the IEASYSxx member of the SYS1.PARMLIB concatenation.

**targetid** - The SYSNAME specified in the IEASYSxx member of the SYS1.PARMLIB concatenation.

**MV STCs** - Mainview STCs.

**11.15 CA MIM Requirements****Table 56 – CA MIM Resource Sharing Resources**

Referenced by: ZMIM0020

<b>Command</b>	<b>Resource</b>	<b>User Group</b>	<b>Access</b>
ACTIVATE	safprefix.ACTIVATE	SYSPAUDT	UPDATE
ADDQNAME	safprefix.ADDQNAME	SYSPAUDT	UPDATE
ALLOCATE	safprefix.ALLOCATE	SYSPAUDT	UPDATE
ALTER	safprefix.ALTER	SYSPAUDT	UPDATE
AUTHCHK	safprefix.AUTHCHK	OPERAUDT SYSPAUDT	UPDATE
COLLECT	safprefix.COLLECT	SYSPAUDT	UPDATE
CP	safprefix.CP	SYSPAUDT	UPDATE
CTC	safprefix.CTC	DASDAUDT SYSPAUDT	UPDATE
DEALLOCATE	safprefix.DEALLOCATE	SYSPAUDT	UPDATE
DEFALIAS	safprefix.DEFALIAS	SYSPAUDT	UPDATE
DELQNAME	safprefix.DELQNAME	SYSPAUDT	UPDATE
DEQJOB	safprefix.DEQJOB	PCSPAUDT SYSPAUDT	UPDATE
DIAGNOSE	safprefix.DIAGNOSE	OPERAUDT SYSPAUDT	UPDATE
DISPLAY ECMF	safprefix.DISPLAY	*	READ
DISPLAY EDIF	safprefix.DISPLAY	*	READ
DISPLAY GCMF	safprefix.DISPLAY	*	READ
DISPLAY GDIF	safprefix.DISPLAY	*	READ
DISPLAY GTAF	safprefix.DISPLAY	*	READ
DISPLAY ICMF	safprefix.DISPLAY	*	READ
DISPLAY MIM	safprefix.DISPLAY	*	READ
DISPLAY TPCF	safprefix.DISPLAY	*	READ
DOM	safprefix.DOM	OPERAUDT SYSPAUDT	UPDATE
DROPSYS	safprefix.DROPSYS	SYSPAUDT	UPDATE
DUMP GCMF	safprefix.DUMP	*	NONE
DUMP GDIF	safprefix.DUMP	*	NONE
DUMP GTAF	safprefix.DUMP	*	NONE
DUMP ICMF	safprefix.DUMP	*	NONE
DUMP MIM	safprefix.DUMP	*	NONE
DUMP TPCF	safprefix.DUMP	*	NONE
EDITEST	safprefix.EDITEST	OPERAUDT SYSPAUDT	UPDATE
EXEMPT	safprefix.EXEMPT	OPERAUDT SYSPAUDT	UPDATE

Command	Resource	User Group	Access
FREE	safprefix.FREE	SYSPAUDT	UPDATE
FREECONS	safprefix.FREECONS	OPERAUDT SYSPAUDT	UPDATE
GLOBALVALUE	safprefix.GLOBALVALUE	SYSPAUDT	UPDATE
ICMF	safprefix.ICMF	SYSPAUDT	UPDATE
IDEFSYS	safprefix.IDEFSYS	SYSPAUDT	UPDATE
LINK	safprefix.LINK	SYSPAUDT	UPDATE
MIGRATE	safprefix.MIGRATE	SYSPAUDT	UPDATE
MSGTABLE	safprefix.MSGTABLE	SYSPAUDT	UPDATE
QUIESCE	safprefix.QUIESCE	OPERAUDT SYSPAUDT	UPDATE
REMOVE	safprefix.REMOVE	SYSPAUDT	UPDATE
RESTART	safprefix.RESTART	OPERAUDT SYSPAUDT	UPDATE
RESYNCH	safprefix.RESYNCH	DASDAUDT SYSPAUDT	UPDATE
SETOPTION ECMF	safprefix.SETOPTION	SYSPAUDT	UPDATE
SETOPTION EDIF	safprefix.SETOPTION	SYSPAUDT	UPDATE
SETOPTION GCMF	safprefix.SETOPTION	SYSPAUDT	UPDATE
SETOPTION GDIF	safprefix.SETOPTION	SYSPAUDT	UPDATE
SETOPTION ICMF	safprefix.SETOPTION	SYSPAUDT	UPDATE
SETOPTION MIM	safprefix.SETOPTION	SYSPAUDT	UPDATE
SETOPTION TPCF	safprefix.SETOPTION	SYSPAUDT	UPDATE
SHUTDOWN	safprefix.SHUTDOWN	AUTOAUDT OPERAUDT SYSPAUDT	UPDATE
SYSDUMP	safprefix.SYSDUMP	SYSPAUDT	UPDATE
USERDATA	safprefix.USERDATA	SYSPAUDT	UPDATE
VARY	safprefix.VARY	DASDAUDT SYSPAUDT	UPDATE
VCF	safprefix.VCF	SYSPAUDT	UPDATE

\* - All Users

safprefix - Obtained from the value set in the MIMINIT SAFPREFIX option, the default value is MIMGR.

**Note:** The **safprefix.DUMP** resources will only be given to SYSPAUDT with access of UPDATE only when CA Technical Support directs that the **DUMP** command be issued. Upon completion of the command execution request, the access to this resource will be removed.

## 11.16 NetView Requirements

**Table 57 - NetView Resources**

Referenced by: ZNET0020

<b>Resource</b>	<b>Group</b>	<b>Access</b>
Netid	*	NONE
netid.luname.ADDCMD	SYSPAUDT	READ
netid.luname.AFTER	AUTOAUDT SYSPAUDT	READ
netid.luname.ALLOCATE.CATALOG	AUTOAUDT SYSPAUDT	READ
netid.luname.ALLOCATE.DELETE	SYSPAUDT	READ
netid.luname.ALLOCATE.NEW	AUTOAUDT SYSPAUDT	READ
netid.luname.ALLOCATE.UNCATALO	SYSPAUDT	READ
netid.luname.AT	AUTOAUDT SYSPAUDT	READ
netid.luname.ATTACH	*	READ
netid.luname.ATTACH.DUMP	*	READ
netid.luname.AUTOTASK	AUTOAUDT SYSPAUDT	READ
netid.luname.AUTOTBL	AUTOAUDT SYSPAUDT	READ
netid.luname.AUTOTBL.STATUS	*	READ
netid.luname.AUTOTEST	AUTOAUDT SYSPAUDT	READ
netid.luname.CHNGFP	SYSPAUDT	READ
netid.luname.CHRON	AUTOAUDT SYSPAUDT	READ
netid.luname.CLOSE	SYSPAUDT	READ
netid.luname.CLRSTATS	SYSPAUDT	READ
netid.luname.CNME0001	AUTOAUDT SYSPAUDT	READ
netid.luname.CNME0002	AUTOAUDT SYSPAUDT	READ
netid.luname.CNME0006	SYSPAUDT	READ
netid.luname.CNME0013	SYSPAUDT	READ
netid.luname.CNME0015	AUTOAUDT SYSPAUDT	READ
netid.luname.CNME0017	AUTOAUDT SYSPAUDT	READ
netid.luname.CNME0018	AUTOAUDT SYSPAUDT	READ
netid.luname.CNME0019	SYSPAUDT	READ

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Resource	Group	Access
netid.luname.CNME0025	SYSPAUDT	READ
netid.luname.CNME0030	AUTOAUDT SYSPAUDT	READ
netid.luname.CNME0032	AUTOAUDT SYSPAUDT	READ
netid.luname.CNME1016	AUTOAUDT SYSPAUDT	READ
netid.luname.CNME1055	SYSPAUDT	READ
netid.luname.CNME1057	AUTOAUDT SYSPAUDT	READ
netid.luname.CNME1089	AUTOAUDT SYSPAUDT	READ
netid.luname.CNME1098	AUTOAUDT SYSPAUDT	READ
netid.luname.CNME2002	AUTOAUDT SYSPAUDT	READ
netid.luname.CNME2007	AUTOAUDT SYSPAUDT	READ
netid.luname.CNME2008	AUTOAUDT SYSPAUDT	READ
netid.luname.CNME3006	AUTOAUDT SYSPAUDT	READ
netid.luname.CNME7009	SYSPAUDT	READ
netid.luname.CNME7201	AUTOAUDT SYSPAUDT	READ
netid.luname.CNME7204.LISTCONN	AUTOAUDT SYSPAUDT	READ
netid.luname.CNME7204.LISTOPID	AUTOAUDT SYSPAUDT	READ
netid.luname.CNME7204.START	AUTOAUDT SYSPAUDT	READ
netid.luname.CNME7204.STOP	AUTOAUDT SYSPAUDT	READ
netid.luname.CNME8004	AUTOAUDT SYSPAUDT	READ
netid.luname.CNME8200	AUTOAUDT SYSPAUDT	READ
netid.luname.CNME8205	AUTOAUDT SYSPAUDT	READ
netid.luname.CNME8206	AUTOAUDT SYSPAUDT	READ
netid.luname.CNME8206.LISTINFO	AUTOAUDT SYSPAUDT	READ
netid.luname.CNME8206.LSTSRVRS	AUTOAUDT	READ

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Resource	Group	Access
	SYSPAUDT	
netid.luname.CNME8206.START	AUTOAUDT SYSPAUDT	READ
netid.luname.CNME8206.STOP	AUTOAUDT SYSPAUDT	READ
netid.luname.CNME8221	AUTOAUDT SYSPAUDT	READ
netid.luname.CNME8225	AUTOAUDT SYSPAUDT	READ
netid.luname.CNME8250.START	AUTOAUDT SYSPAUDT	READ
netid.luname.CNME8250.STOP	AUTOAUDT SYSPAUDT	READ
netid.luname.CNME8260	AUTOAUDT SYSPAUDT	READ
netid.luname.CNME9001	SYSPAUDT	READ
netid.luname.CNME9002	SYSPAUDT	READ
netid.luname.CNMEAUTB	SYSPAUDT	READ
netid.luname.CNMEMCXX	SYSPAUDT	READ
netid.luname.CNMEMCXY	SYSPAUDT	READ
netid.luname.CNMESNMP	AUTOAUDT SYSPAUDT	READ
netid.luname.CNMEXCON	AUTOAUDT SYSPAUDT	READ
netid.luname.CNMEXPRC	AUTOAUDT SYSPAUDT	READ
netid.luname.CNMSBWLK	AUTOAUDT SYSPAUDT	READ
netid.luname.CNMSGET	AUTOAUDT SYSPAUDT	READ
netid.luname.CNMSGETB	AUTOAUDT SYSPAUDT	READ
netid.luname.CNMSGETN	AUTOAUDT SYSPAUDT	READ
netid.luname.CNMSSET	AUTOAUDT SYSPAUDT	READ
netid.luname.CNMSTRAP	AUTOAUDT SYSPAUDT	READ
netid.luname.CNMSWALK	AUTOAUDT SYSPAUDT	READ
netid.luname.DEFAULTS	AUTOAUDT SYSPAUDT	READ
netid.luname.DELCMD	SYSPAUDT	READ



Resource	Group	Access
netid.luname.DSIMCAP	SYSPAUDT	READ
netid.luname.DSIPIINS.COMMON	SYSPAUDT	READ
netid.luname.DSIPITSO.TSOSERV	AUTOAUDT SYSPAUDT	READ
netid.luname.DSIPITSO.TSOSERV.CNMPROC/CNMSJT SO	*	READ
netid.luname.DSIPITSO.VERB	AUTOAUDT SYSPAUDT	READ
netid.luname.DSIPITSO.VERB.HOMETEST	*	READ
netid.luname.DSIPITSO.VERB.NETSTAT	*	READ
netid.luname.DSIPITSO.VERB.NSLOOKUP	*	READ
netid.luname.DSIPIXCF	AUTOAUDT SYSPAUDT	READ
netid.luname.DSIPIXTB	AUTOAUDT SYSPAUDT	READ
netid.luname.DSISAUTH	AUTOAUDT SYSPAUDT	READ
netid.luname.DSISRVR	AUTOAUDT SYSPAUDT	READ
netid.luname.DSIUSNDM	AUTOAUDT SYSPAUDT	READ
netid.luname.DSIZKNYJ	SYSPAUDT	READ
netid.luname.EKGVREXX	AUTOAUDT SYSPAUDT	READ
netid.luname.EVERY	AUTOAUDT SYSPAUDT	READ
netid.luname.EXCMD	AUTOAUDT SYSPAUDT	READ
netid.luname.EZLE600A	AUTOAUDT SYSPAUDT	READ
netid.luname.EZLE840A	SYSPAUDT	READ
netid.luname.EZLEAMAN	AUTOAUDT SYSPAUDT	READ
netid.luname.EZLEF002	AUTOAUDT SYSPAUDT	READ
netid.luname.EZLEPOLY	AUTOAUDT SYSPAUDT	READ
netid.luname.FOCALPT	SYSPAUDT	READ
netid.luname.FREE.DELETE	SYSPAUDT	READ
netid.luname.FREE.UNCATALO	SYSPAUDT	READ
netid.luname.IDCAMS	AUTOAUDT SYSPAUDT	READ
netid.luname.MODIFY	AUTOAUDT	READ

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Resource	Group	Access
	SYSPAUDT	
netid.luname.MONIT	SYSPAUDT	READ
netid.luname.MVS	SYSPAUDT	READ
netid.luname.MVS.\$D	*	READ
netid.luname.MVS.D	*	READ
netid.luname.MVS.D.MPF	SYSPAUDT	READ
netid.luname.MVS.D.NET	SYSPAUDT	READ
netid.luname.MVS.D.VTAM	SYSPAUDT	READ
netid.luname.MVS.DISPLAY	*	READ
netid.luname.MVS.DISPLAY.MPF	SYSPAUDT	READ
netid.luname.MVS.DISPLAY.NET	SYSPAUDT	READ
netid.luname.MVS.DISPLAY.VTAM	SYSPAUDT	READ
netid.luname.NLDM.DISABLE	AUTOAUDT SYSPAUDT	READ
netid.luname.NLDM.PURGE	AUTOAUDT SYSPAUDT	READ
netid.luname.NLDM.TRACE	AUTOAUDT SYSPAUDT	READ
netid.luname.NPDA.PURGE	AUTOAUDT SYSPAUDT	READ
netid.luname.OVERRIDE.DSIARPT	SYSPAUDT	READ
netid.luname.OVERRIDE.DSIASRC	SYSPAUDT	READ
netid.luname.OVERRIDE.DSICLD	SYSPAUDT	READ
netid.luname.OVERRIDE.DSILIST	SYSPAUDT	READ
netid.luname.OVERRIDE.DSIMSG	SYSPAUDT	READ
netid.luname.OVERRIDE.DSIOPEN	SYSPAUDT	READ
netid.luname.OVERRIDE.DSIPARM	SYSPAUDT	READ
netid.luname.OVERRIDE.DSIPRF	SYSPAUDT	READ
netid.luname.OVERRIDE.DSIVTAM	SYSPAUDT	READ
netid.luname.OVERRIDE.SLOGCMDR	AUTOAUDT SYSPAUDT	READ
netid.luname.PLEXCTL	AUTOAUDT SYSPAUDT	READ
netid.luname.PURGE.TIMER	AUTOAUDT SYSPAUDT	READ
netid.luname.REACC	SYSPAUDT	READ
netid.luname.READSEC	AUTOAUDT SYSPAUDT	READ
netid.luname.REFRESH	SYSPAUDT	READ
netid.luname.REFRESH.AUTHCHK	SYSPAUDT	READ
netid.luname.REFRESH.CMDAUTH	SYSPAUDT	READ
netid.luname.REFRESH.OPERs	SYSPAUDT	READ
netid.luname.REFRESH.OPERSEC	SYSPAUDT	READ

Resource	Group	Access
netid.luname.REFRESH.RMTSEC	SYSPAUDT	READ
netid.luname.RELCONID	SYSPAUDT	READ
netid.luname.RESETDB	AUTOAUDT SYSPAUDT	READ
netid.luname.RESTORE	AUTOAUDT SYSPAUDT	READ
netid.luname.RESTYLE	AUTOAUDT SYSPAUDT	READ
netid.luname.REVISE	SYSPAUDT	READ
netid.luname.REVISMMSG	SYSPAUDT	READ
netid.luname.REVISRPT	SYSPAUDT	READ
netid.luname.RID	SYSPAUDT	READ
netid.luname.SETBQL	AUTOAUDT SYSPAUDT	READ
netid.luname.START.MOD	AUTOAUDT SYSPAUDT	READ
netid.luname.START.TASK	AUTOAUDT SYSPAUDT	READ
netid.luname.START.TASK.CNMTAMEL	*	READ
netid.luname.START.TSOSERV	AUTOAUDT SYSPAUDT	READ
netid.luname.START.UNIXSERV	SYSPAUDT	READ
netid.luname.START.XCFGROUP	SYSPAUDT	READ
netid.luname.SUBMIT	AUTOAUDT SYSPAUDT	READ
netid.luname.SUBMIT.BATCHTSO	*	READ
netid.luname.SUBMIT.SMTPJCL	*	READ
netid.luname.SWITCH	AUTOAUDT SYSPAUDT	READ
netid.luname.TE	SYSPAUDT	READ
netid.luname.TRACE	AUTOAUDT SYSPAUDT	READ
netid.luname.TS	SYSPAUDT	READ
netid.luname.VARY	AUTOAUDT SYSPAUDT	READ
netid.luname.WRITESEC	AUTOAUDT SYSPAUDT	READ

SYSPAUDT – System programming personnel

AUTOAUDT – Automated operations users

\* – All users authorized to access Netview

- netid            Obtained from the value specified for the NetID variable in the CxxSTYLE member.
- luname          Obtained from the value specified for the DOMAIN variable specified in the CNMPROC JCL. If the DOMAIN variable is null the DOMAIN statement in the CxxSTYLE member can be used.
- Note:           The values specified for NetID and DOMAIN are also returned by the netid() and domain() REXX™ functions.
- Note:           Additional resources are defined in the current release of the IBM Tivoli NetView for z/OS Security Reference.

## 11.17 Supported Software

**Table 58 - Supported Software Version and Release**

Referenced by: AAMV0012, AAMV0014

<b>Current Minimum Versions and Releases of software</b>	
<b>Software</b>	<b>Version Release</b>
Abend-AID	11.2
Abend-AID for CICS	11.2,1
ACC/SRS	5.1.4
ACF/SSP	4.8.1
ACF2 (Access Control Facility 2)	14.0 SP00
ASG – KeyPlus	4.0.1
AutoTrans	2.3
BARTRANS	3.0.2
Business Continuity Manager	6
CA 1	12.6 (0000)
CA Cleanup for ACF2	12.0 SP00
CA Cleanup for RACF	12.0 SP00
CA Cleanup for Top Secret	12.0 SP00
CA Common Services	12.0
CA Copycat Utility	12.0 (0000)
CA DADS Plus for CICS	4.0.0310
CA Datacom DB	12.0 (SP00)
CA Datacom DB Option for CICS Services	11
CA Deliver	11.6 (SP00)
CA Dispatch	11.6 SP00
CA Endeavor Software Change Manager	15.0 (BASE)
CA Ideal	11.0 (SP00)
CA InterTest Batch	8.5 SP00
CA JCLCheck	11.0 (SP00)
CA Librarian	4.2
CA MICS Resource Management	12.5 (1004)
CA MICS Resource Management Accounting and Chargeback Option	12.5 (1004)
CA MICS Resource Management Analyzer Option for CA-IDMS	12.5 (1004)
CA MICS Resource Management Analyzer Option for CICS	12.5 (1004)
CA MICS Resource Management Analyzer Option for DB2	12.5 (1004)
CA MICS Resource Management Analyzer Option for IMS	12.5 (1004)
CA MICS Resource Management Analyzer Option for VM/CMS	12.5 (1004)
CA MICS Resource Management Space Analyzer	12.5 (1004)
CA MICS Resource Management Space Collector	12.5 (1004)
CA MIM	11.7 (SP00)
CA Panvalet	14.5 SP00
CA Panvalet ISPF Option	14.5 SP00

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CA PDSMAN	7.7
CA Roscoe	6.0 (SP00)
CA Spool	11.6 (SP00)
CA SYSVIEW Performance Management	12.7 (SP00)
CA Top Secret	14.0 (SP00)
CA View	11.6 (SP00)
CA Vtape Virtual Tape System	12.6 (0000)
CA-Auditor for z/OS	12.0 (SP00)
CA-DADS/Plus	4.0 (0208)
CA-DRAS	11.5 SP00
CAIIPC	11 (SP00)
Catalog Solution	8.9.0
CICS TS (Transaction Server)	3.2 0709
CICS/CEMT from Batch	5.4
CICS/Message	5.1
CICS/Morning News	3.1
CL/Supersession	147
CONTROL-D for OS/390 and z/OS	6.3.05
CONTROL-M for OS/390 and z/OS	6.3.05
CONTROL-M/Restart for OS/390 and z/OS	6.3.05
CONTROL-O for OS/390 and z/OS	6.3.05
CPF (CICS Print Facility)	3.4.8 (9)
Data Integrator (DI)	4.4
Datacom Datadictionary	12.0 (SP00)
DB2	9.1.00901
DB2 Administration Tool	10.1.0
DB2 Log Analysis Tool	3.3.0
DB2 Query Monitor	3.1.0
DB2 SQL Performance Analyzer	4.1.0
DB2 Table Editor	4.3.0
DB2 Table Editor (DB2 v7.1)	4.3
Delta IMS Virtual Terminal	6.5.02
DIF	5.1.5
DITTO	1.3.0
EARL	6.1 SP02
ECC	2.1
EXHPDM	6.2.0
EXLM	6.2.0
FASTLIST	12
FATS	4.9.01
FATS/FATAR	4.9.01
FDR	5.4.51
FOCCALC	7.6.5
FOCUS Cobol-to-FOCUS Master Translator	7.6.2

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FOCUS DBMS Server	7.6.4
FOCUS Extended Matrix Reporting	7.6.5
FOCUS Graph Subsystem	7.6.5
FOCUS Host Language Interface	7.6.4
FOCUS IDMS R Read Interface	7.6.5
FOCUS IMS/DB Interface	7.6.2
FOCUS M204 INTERFACE	7.6.2
FOCUS Multiple Session Option	7.6.5
FOCUS Statistical Analysis Package	7.6.5
FOCUS Talk Technologies	7.6.5
FOCUS Vsam Read/Write Interface	7.6.5
HourGlass	6.1
IBM Debug Tool	8.1
IMAGE FOCUS	6.0.10
INCONTROL for OS/390 and z/OS	6.3.05
Innovation Access Method (IAM)	8.1.17
JCLPREP	6.8.0
JOBSCAN	7.4.0
Life Cycle Manager	6
M204 ACF2 Interface	6.1
MAINVIEW AutoOPERATOR	6.3.01
MAINVIEW FOR Z/OS	2.8.01
Model 204	7.1
Model 204 Dictionary	6.1
Model 204 TSO Interface	7.1
Model 204 UserLanguage	6.1
Model 204 VTAM Interface	6.1
Model 204 Workshop	6.1
MXG	28.01
MXG TAPE MOUNT MONITOR	ML47
NC-PASS	204
NCS HSC	6.0.0
Tivoli Netview for z/OS	5.3.0
Netview FTP	2.2.1
OPTIMIZER II	7.0 0510 (SP01)
Oracle	9i
PKZIP	8.2.0
PM4DATA	8.1.8.4
PREALERT	4.5.0
Predict	4.5.2
PSF	4.01.0
SAS (Full Package)	9.1.3
Sim3278 VTAM	6.3
SIMULATE 2000	4.1.0

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SQL & Q Replication for DB2	9.1
SQL Replication for DB2	9.1
SRRAUDIT	6.11
SSOPAC Alternate Library for REXX (1.40A)	V1R12 (PUT1103)
SSOPAC BCP (Base Control Program)	V1R12 (PUT1103)
SSOPAC Communications Server - IP Services	V1R12 (PUT1103)
SSOPAC Communications Server Security Level 3	V1R12 (PUT1103)
SSOPAC Cryptographic Services	V1R12 (PUT1103)
SSOPAC DCE (Distributed Computing Environment)	V1R12 (PUT1103)
SSOPAC DFS (Distributed File Service)	V1R12 (PUT1103)
SSOPAC DFSMSdftp (Data Facility Product)	V1R12 (PUT1103)
SSOPAC DFSMSdss (Data Set Services)	V1R12 (PUT1103)
SSOPAC DFSMSHsm (Hierarchical Storage Manager)	V1R12 (PUT1103)
SSOPAC DFSORT	V1R12 (PUT1103)
SSOPAC FFST (First Failure Support Technology) (1.2.0)	V1R12 (PUT1103)
SSOPAC GDDM (Graphical Data Display Manager) (3.2)	V1R12 (PUT1103)
SSOPAC HTTP Server	V1R12 (PUT1103)
SSOPAC ICKDSF (Device Support Facilities)	V1R12 (PUT1103)
SSOPAC LE (Language Environment)	V1R12 (PUT1103)
SSOPAC NFS (Network File System)	V1R12 (PUT1103)
SSOPAC RMF (Resource Management Facility)	V1R12 (PUT1103)
SSOPAC SDSF (System Display and Search Facility)	V1R12 (PUT1103)
SSOPAC Security Level 3	V1R12 (PUT1103)
SSOPAC Security Server - RACF	V1R12 (PUT1103)
STROBE	3.4
SUPRA PDM BUFFER CACHE	2.7.00
SUPRA PDM DIRECT TOTAL	2.6.10
SUPRA PDM DYNAMIC INDEXING	2.7.00
SUPRA PDM RELATIONAL DATA MANAGER	2.7.00
SUPRA PHYSICAL DATA MANAGER	2.3.16
SUPRA RDM CICS/XA SUPPORT	2.7.0
SUPRA RDM STATISTICS	2.7.0
SYMUPDTE	1271
SyncSort for z/OS	1.2.1
SYSTEM 2000	2.0.0
Tivoli Information Management	7.1
Tivoli License Compliance Manager for z/OS	4.2
Trim	8.1.3
UNICENTER NEUMICS Resource Management	12.0 0704
UNICENTER NEUMICS Resource Management Accounting and Chargeback Option	12.0 0704
UNICENTER NEUMICS Resource Management Analyzer Option for CA-IDMS	12.0 0704
UNICENTER NEUMICS Resource Management Analyzer Option for	12.0 0704



CICS	
UNICENTER NEUMICS Resource Management Analyzer Option for DB2	12.0 0704
UNICENTER NEUMICS Resource Management Analyzer Option for IMS	12.0 0704
UNICENTER NEUMICS Resource Management Analyzer Option for VM/CMS	12.0 0704
UNICENTER NEUMICS Resource Management Space Analyzer	12.0 0704
UNICENTER NEUMICS Resource Management Space Collector	12.0 0704
Unicenter Solve: CPT	6.1
Vanguard Advisor Reporter (VSR)	8.1
Vanguard RACF Administrator (VRA)	8.1
ViewDirect	6.4.2 LX1634
VMCF/TSO	2.1.0 (014)
VMCF/TSO (MI0084)	2.1.0 (019)
VMCF/TSO (PA0088)	2.1.0 (019)
VMCF/TSO (UT0016)	2.1.0 (019)
VPS (MI0084)	2.1.0 (061)
VPS (PA0088)	2.1.0 (079)
VPS (UT0016)	2.1.0 (061)
WebSphere Application Server for z/OS	6.1
WebSphere MQ	6.0 0612
ZEBC	3.0.0
ZEKE	5.5.0

**Table 59 - Software no longer supported by Vendor**

Software	Version Release
Protect MQ	All Versions
CA TCPaccess Communications Server	6.0