



z/OS SECURITY TECHNICAL IMPLEMENTATION GUIDE (STIG) ADDENDUM

Version 6, Release 35

26 January 2018

Developed by DISA for the DoD

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1. INTRODUCTION

1.1 Executive Summary

A core mission for the Defense Information Systems Agency (DISA) 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.

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

The requirements set forth in this document will assist Information System Security Managers (ISSMs), Information System Security Officers (ISSOs), Network Security Officers (NSOs), 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 ISSO 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.

1.2 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 provides 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 DISA support for the STIG Checklists and Tools is only available to DoD Customers.

1.3 Vulnerability Severity Category Code Definitions

Severity Category Codes (referred to as CAT) are a measure of vulnerabilities used to assess a facility or system security posture. Each security policy specified in this document is assigned a Severity Category Code of CAT I, II, or III.

CAT I Any vulnerability, the exploitation of which will directly and immediately result in loss of Confidentiality, Availability, or Integrity.

CAT II Any vulnerability, the exploitation of which has a potential 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.

Table 1-1: Vulnerability Severity Category Code Definitions

1.4 STIG Distribution

Parties within the DoD and Federal Government's computing environments can obtain the applicable STIG from the Information Assurance Support Environment (IASE) website. This site contains the latest copies of any STIGs, SRGs, and other related security information. The address for the IASE site is http://iase.disa.mil/.

1.5 Document Revisions

Comments or proposed revisions to this document should be sent via email to the following address: disa.stig_spt@mail.mil. DISA will coordinate all change requests with the relevant DoD organizations before inclusion in this document. Approved changes will be made in accordance with the DISA maintenance release schedule.

1.6 Other Considerations

DISA accepts no liability for the consequences of applying specific configuration settings made on the basis of the SRGs/STIGs. It must be noted that the configurations settings specified should be evaluated in a local, representative test environment before implementation in a production environment, especially within large user populations. The extensive variety of environments makes it impossible to test these configuration settings for all potential software configurations.

For some production environments, failure to test before implementation may lead to a loss of required functionality. Evaluating the risks and benefits to a system's particular circumstances

and requirements is the system owner's responsibility. The evaluated risks resulting from not applying specified configuration settings must be approved by the responsible Authorizing Official. Furthermore, DISA implies no warranty that the application of all specified configurations will make a system 100 percent secure.

Security guidance is provided for the Department of Defense. While other agencies and organizations are free to use it, care must be given to ensure that all applicable security guidance is applied both at the device hardening level as well as the architectural level due to the fact that some of the settings may not be able to be configured in environments outside the DoD architecture.

1.7 Product Approval Disclaimer

The existence of a STIG does not equate to DoD approval for the procurement or use of a product.

STIGs provide configurable operational security guidance for products being used by the DoD. STIGs, along with vendor confidential documentation, also provide a basis for assessing compliance with Cybersecurity controls/control enhancements, which supports system Assessment and Authorization (A&A) under the DoD Risk Management Framework (RMF). DoD Authorizing Officials (AOs) may request available vendor confidential documentation for a product that has a STIG for product evaluation and RMF purposes from disa.stig_spt@mail.mil. This documentation is not published for general access to protect the vendor's proprietary information.

AOs have the purview to determine product use/approval IAW DoD policy and through RMF risk acceptance. Inputs into acquisition or pre-acquisition product selection include such processes as:

- National Information Assurance Partnership (NIAP) evaluation for National Security Systems (NSS) (http://www.niap-ccevs.org/) IAW CNSSP #11
- National Institute of Standards and Technology (NIST) Cryptographic Module Validation Program (CMVP) (http://csrc.nist.gov/groups/STM/cmvp/) IAW Federal/DoD mandated standards
- DoD Unified Capabilities (UC) Approved Products List (APL) (http://www.disa.mil/network-services/ucco) IAW DoDI 8100.04

2. INTRODUCTION TO Z/OS

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

Cross Ref Section:

• Use spreadsheet "Cross Ref of SRRAUDIT" 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 External Security Managers (ESMs). Previously these ESMs were known in the industry as Access Control Products (ACPs). In this document as well as the STIGs that are supported by this document the terms ESMs and ACPs will be referenced interchangeably.

ESMs currently in use throughout DoD are listed below:

- Access Control Facility 2 (ACF2) Computer Associates (CA)
- Resource Access Control Facility (RACF) IBM Corporation¹
- TOP SECRET (TSS) Computer Associates (CA)

To maintain the integrity of the site, the ESM 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 ESM to determine if authorization exists for the resource being tested.

¹ 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.

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 ESMs 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.

2.2 z/OS Dataset Types

z/OS operation data is held in many type of datasets that have a specific purpose in the system operation. Many of these dataset types require security protection to assure the confidentiality, integrity, and accessibility of the system. Major types are listed below:

Installation datasets primarily are system and product datasets that contain modules or data required to place a system/product into operation on the mainframe. The files are usually shipped with the operating system/product and for the most part are unmodified by the site. They are usually in one central location and are required for system/product maintenance. The datasets are generally the basis for the system/product.

Started Task (STC) datasets are read, controlled, created, and/or sustained by the STC. Since the system/application can require elevated access, it is important to protect these datasets from inappropriate use.

User datasets require some level of interaction with a user. Since there are differing levels of users in the z/OS arena, i.e., systems programmer users, production control users, end users, etc., security requirements should be defined according to those levels.

Program datasets are specific datasets necessary for application operation. These datasets can contain operation-sensitive information and should be appropriately protected.

2.3 z/OS Additional Access/Logging Restrictions

Data set and Resource access documented in the vulnerabilities establishes the basic access requirements. At the ISSO's discretion, additional control may be 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 specify 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 ESM. 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 ISSM.

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 ISSM 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. - DBAs 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.

Table 3-1: Authorized User Groups

and develop application programs for the customer base. APPSAUDT Application Production Support Team members. AUDTAUDT Auditors, whether they are System, Security, or other. This can be any user 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. INCONTROL Admins/Owners of CONTROL-D/M/O. Installers and system administrators for Control-D/M/O. INCONTROL Users of CONTROL-D/M/O. CHGOWNER INCONTROL Users of CONTROL-D/M/O. CICS Batch Programs. CICS AUDT CICS Batch Programs. CICS Developers. Users who create and maintain CICS programs and routines. CICSAUDT CICS Started Task. CICS CICS CICS CICS Utils (CONTROLO, Batilbs via CONTROLM, MAINVIEW). CONSOLES The System Console user ids. DABAAUDT Database Administrators. Users that maintain and administer the databases and the database product software on the system. These users also perform backup and recovery of the databases. DAEMAUDT 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. 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. 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. DPCSAUDT Decentralized Prod Cntl and Sched personnel. DPCSAUDT Decentralized Prod Cntl and Sched personnel. DIMPAUDT STCs/Batch ids that perform Dump processing. STC and/or Batch users that generate system-level dumps. EMERAUDT Emergency TSO logon ids. FTP only interactive users. IOABAUDT Special IOA user IDs, such as long-running started tasks, or specific system jobs.	User Group	Description	
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DPCSAUDT Decentralized Prod Cntl and Sched personnel. STCs/Batch ids that perform Dump processing. STC and/or Batch users that generate system-level dumps. EMERAUDT Emergency TSO logon ids. FTPUSERS FTP only interactive users. IOABAUDT Special IOA user IDs, such as long-running started tasks, or specific system jobs.		on the entire operating system. These users can perform a	
DUMPAUDT STCs/Batch ids that perform Dump processing. STC and/or Batch users that generate system-level dumps. EMERAUDT Emergency TSO logon ids. FTPUSERS FTP only interactive users. IOABAUDT Special IOA user IDs, such as long-running started tasks, or specific system jobs.		complete backup and recovery of the DASD farm.	
Batch users that generate system-level dumps. EMERAUDT Emergency TSO logon ids. FTPUSERS FTP only interactive users. IOABAUDT Special IOA user IDs, such as long-running started tasks, or specific system jobs.	DPCSAUDT	Decentralized Prod Cntl and Sched personnel.	
EMERAUDT Emergency TSO logon ids. FTPUSERS FTP only interactive users. IOABAUDT Special IOA user IDs, such as long-running started tasks, or specific system jobs.	DUMPAUDT	STCs/Batch ids that perform Dump processing. STC and/or	
FTPUSERS FTP only interactive users. IOABAUDT Special IOA user IDs, such as long-running started tasks, or specific system jobs.		Batch users that generate system-level dumps.	
IOABAUDT Special IOA user IDs, such as long-running started tasks, or specific system jobs.			
IOABAUDT Special IOA user IDs, such as long-running started tasks, or specific system jobs.			
specific system jobs.	IOABAUDT		
THE STREET	MICSADM	MICS Administrators.	
MICSUSER MICS End Users.	MICSUSER MICS End Users.		

User Group	Description
MQSAAUDT	MQ Series Administrators. Users that define and administer the WebSphere MQ environment on the system.
MQSDAUDT	Decentralized MQ Series Administrators. Users that define and administer the WebSphere MQ environment on the system at customer site.
MVREAD	Mainview users that require read only mode.
MVUPDT	Mainview users that require some update functions.
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 ISSO. 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.
ROSCAUTH	ROSCOE Master and Maintenance IDs.
SECAAUDT	Security Administrators. Domain Level I security administrators; these users have total control over the administration of the ESM.
SECBAUDT	Security batch, jobs that perform ESM 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.
SYSCAUDT	CICS Systems Programmers.
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.
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 4-1: 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	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. 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. The pthread_security_np (create/delete security environment) and the auth_check_resource_np (resource authorization checking) services are used. Also see the BPX.SRV.userid profile description.	

GENERAL FACILITY CLASS BPX RESOURCES		
RESOURCE NAME	DESCRIPTION/NOTES	
BPX.SMF or BPX.SMF.type.subtype	Allows permitted user access to write an SMF record or to test if an SMF type or subtype is being recorded. • The BPX.SMF profile grants the permitted user the authority to write or test for any SMF record that is being recorded. The program-controlled attribute is not required if BPX.SMF is used • For more granular access to writing SMF records BPX.SMF.type.subtype allows a permitted user the authority to write or test	
	only the SMF record of the specific type and subtype contained in the FACILITY class profile name. Note: BPX.SMF must not be permitted to regular interactive userids.	
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").	
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 4-2: UNIXPRIV Class Resources

Referenced by: ZUSS0023

RESOURCE NAME

CHOWN.UNRESTRICTED²

CHOWN on the system.

No access list is needed; the existence of the profile enables the function. Therefore the resource will not be defined.

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² The CHOWN.UNRESTRICTED profile defeats a basic file ownership protection, and must not be defined unless justified and documented to the ISSO.

UNIXPRIV CLASS RESOURCES		
RESOURCE NAME	DESCRIPTION/NOTES	
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.	
	Note : 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.	
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	
CLIDED LIGED BY EGY/G DECCEN	option.	
SUPERUSER.FILESYS.PFSCTL	READ: Allows the user to use the pfsctl()	
CLIDEDLIGED EN EGYG VIDE CYCTED	(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	
CLIDEDLIGED IDC DA 425	system (VFS) file server.	
SUPERUSER.IPC.RMID	READ: Allows the user to issue the ipcrm	
	command to release IPC (Interprocess	
	Communication) resources.	

UNIXPRIV CLASS RESOURCES			
RESOURCE NAME	DESCRIPTION/NOTES		
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.		
	Note: 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 4-3: MVS Data Sets with z/OS UNIX Components

Referenced by: ZUSS0032

MVS DATA SETS WITH z/OS UNIX COMPONENTS			
DATA SET NAME/MASK	MAINTENANCE TYPE	FUNCTION	
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.	
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 User Identity

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).

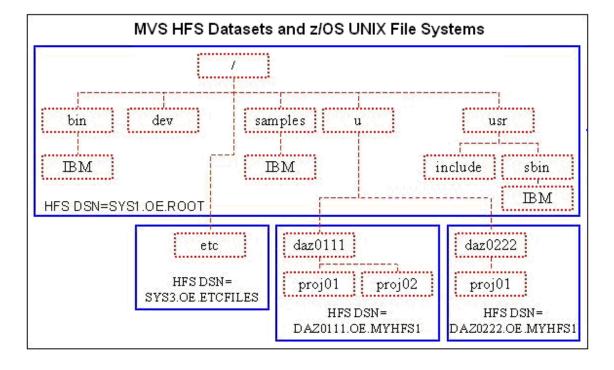


Figure 4-1: MVS HFS Datasets and Z/OS UNIX File Systems

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 whose UID matches the UID in the FSP

Group - A member of the group whose 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 4-4: Permission Bits

	PERMISSION BITS				
PERMISSION	SYMBOLIC	SYMBOLIC OCTAL MEANING FOR FILE			
TERMISSION	NOTATION	VALUE	OR DIRECTORY		
Read	r	4	Directory: Allows the user to read, but not search, contents. File: Allows the user to read or print contents.		
			Note : 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. Note: 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 4-5: Special Permission Bits

	SPECIAL PERMISSION BITS			
PERMISSION	SYMBOLIC	OCTAL	MEANING FOR FILE	
1 EKMISSION	NOTATION	VALUE	OR DIRECTORY	
set-user-ID	s/S	4	Used for an executable file, sets the effective	
set-group-ID		2	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 ESMs 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 ESM. 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 4-6: 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 ESM.	
Shared	s	Executable foreground program runs in the same MVS address space as the user's z/OS shell.	
		Note: 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 4-7: Audit Bits

AUDIT BITS			
AUDIT FLAG ALPHA NOTATION DESCRIPTION			
Read	s/f/a/-	Audit attempts for read access	
Write s/f/a/- Audit attempts for <i>write</i> access			
Execute	s/f/a/-	Audit attempts for execute 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 4-8: System Directory Security Settings

Note: Any Directory that uses AUTOMOUNT, does not require the specified settings.

Referenced by: ZUSS0016, ZUSS0034

SYSTEM DIRECTORY SECURITY SETTINGS			
DIRECTORY	PERMISSION BITS	USER AUDIT BITS	FUNCTION
/ [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. Note: /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 4-9: System File Security Settings

Referenced by: ZUSS0035, ZUSS0016

	SYSTEM FILE SECURITY SETTINGS				
FILE	PERMISSION BITS	USER AUDIT BITS	FUNCTION		
/bin/sh	1755	faf	z/OS UNIX shell		
			Note : /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		

SYSTEM FILE SECURITY SETTINGS				
FILE	PERMISSION BITS	USER AUDIT BITS	FUNCTION	
/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	
/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 4-10: Security Impact Shell Commands

SECURITY IMPACT SHELL COMMANDS			
COMMAND	DESCRIPTION	USER RESTRICTIONS	
at ³	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.	

³ 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			
automount	Configures the automount facility	Can only be used by a superuser.			
	that mounts file systems at time of	Started from /etc/rc.			
	access.				
batch	Allows a user to run a series of	Same as at command.			
	commands at a later time when				
	the system is not busy, under control of the cron daemon.				
chaudit	Changes the audit attributes of	Can only be used by the file owner or a			
Chaaan	files or directories.	superuser for non-auditor-requested			
	Audit attributes determine	audit attributes.			
	whether accesses to a file are				
	audited by SAF.				
chgrp	Changes the GID for the specified	By default, can be used only by the file			
	file or directory.	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	By default, can be used only by the file			
Cilillou	(permission bits) for the specified	owner or a superuser.			
	file or directory.	0 11 11 11 11 11 11 11 11 11 11 11 11 11			
chown	Changes the UID and optionally	By default, the UID can only be changed			
	the GID for the specified file or	by a superuser.			
	directory.	Changes to the GID follow the rules for			
1 .		the chgrp command.			
chroot	Changes the root directory to that	Can only be used by a superuser or a			
	specified in the command.	user with access to the BPX.SUPERUSER resource.			
crontab	Allows a user to schedule a series	Can be used by the superuser or users			
Cromao	of commands to be run on a	listed in the /usr/lib/cron/cron.allow file.			
	regular basis, under control of the				
	cron daemon.				
extattr	Sets, resets, and displays the	Can only be used by the file owner or a			
	extended attributes of executable	superuser.			
	files.	The APF attribute requires access to the			
	Extended attributes include APF	BPX.FILEATTR.APF resource.			
	authorization, program control, and shared address space use.	The program control attribute requires access to the			
	and shared address space use.	BPX.FILEATTR.PROGCTL resource.			
		DI 73.1 ILLIATI IX.1 ROUGETL ICSUMICC.			

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

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 ESM. 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 4-11: Security Impact Shell Variables

SECURITY IMPACT SHELL VARIABLES				
VARIABLE	DESCRIPTION	IMPLICATION		
HOME	The user's home directory set	The user's home directory contains		
	from values specified by the	that user's personal files and scripts		
	security system.	that establish any unique		
		environment settings.		
LOGNAME	The user's logon name, set	Child processes, by default, receive		
	from values specified by the	names based on LOGNAME.		
	security system.			
SHELL	The full pathname of the	An invalid shell program name		
	shell program set from values	would prevent system access. A		
	specified by the security	compromised program could reduce		
	system.	system security.		
PATH	The list of directories the	An improper sequence of directories		
	system searches to find	could cause the wrong version of a		
	executable commands.	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 = dsn1:dsn2:dsn3: Use the specified, cataloged, 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. Note: 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 ESM'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 4-12: Daemon Commands

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		

DAEMON COMMANDS				
COMMAND	DESCRIPTION	STARTUP		
lm	Starts the logon monitor daemon	At system initialization		
	that starts the logon process for			
	logons initiated by Outboard			
	Communications Server (OCS).			
rlogind	Validates remote logon (rlogin)	By inetd		
	requests.			
uucico	Processes uucp and uux file	By other processes including cron,		
	transfer requests.	uucpd, uucp, and uux		
uucpd	Invokes uucico for TCP/IP	By inetd		
	connections from remote uucp			
	systems.			
uuxqt	Runs commands from remote	By uucico or cron		
	systems.			

Unless justified and documented to the ISSO, 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.

There are daemons and servers that are specific to the zOS Communications Server. These daemon/servers require additional resource access to start and stop. Several of these are listed below with their functions:

ADNR - The automated domain name registration (ADNR) application is a function that dynamically updates name servers with information about sysplex resources in near real time. As resources in the sysplex become available, Domain Name System (DNS) resource records are added to one or more name servers. As those resources become unavailable, the corresponding DNS resource records are removed from the name server. Clients that connect to sysplex resources using DNS names have a greater likelihood of connecting to an available resource in the sysplex. ADNR also removes the administrative burden of manually configuring and updating a name server to represent sysplex resources.

DCAS - The Digital Certificate Access Server (DCAS) (opens new browser) is a TCP/IP server application that runs on OS/390 V2R10 and later (z/OS included). It interfaces with a Security Access Facility (SAF)-compliant server product to assist with express logon services such as Web Express Logon. In this scenario, this SAF-compliant server product is IBM Resource Access Control Facility (RACF) (opens new browser).

LBADV - The z/OS® Load Balancing Advisor communicates with external load balancers and one or more Load Balancing Agents. The main function of the Load Balancing Advisor is to provide external TCP/IP load balancing solutions, such as the Cisco Content Switching Module (CSM), with recommendations on which TCP/IP applications and target z/OS systems within a z/OS sysplex are best equipped to handle new TCP/IP workload requests.

LBAGENT - Load Balancing Agents gather data on its own z/OS system about the TCP/IP stacks and applications running on that system. The Agent is configured with the information it needs to contact the Load Balancing Advisor.

OMPROUTE - OMPROUTE is a z/OS® UNIX application, and it requires a z/OS UNIX file system to operate. It can be started from an MVSTM started procedure, from the z/OS shell, or from AUTOLOG (see step 2 for restrictions on using AUTOLOG to start OMPROUTE). OMPROUTE must be started by a RACF-authorized user ID, and it must be in an APF authorized library.

PAGENT - The Policy Agent (PAGENT) interacts with the sysplex distributor to assist with workload balancing. There will be one Policy Agent running on an LPAR regardless of how many stacks are configured. First, the Policy Agent can be configured to collect network performance statistics for applications being distributed on target stacks. These network performance statistics are then used to modify the overall WLM weight assigned to a target server.

RSVPD - Daemon to start and stop Resource ReSerVation Protocol (RSVP) is a protocol that provides a mechanism to reserve resources in support of Integrated Services.

Table 4-13: zOS Communications Server Daemons and Servers

Reference by ACP00282

DAEMON/Server	Resource Required to START/STOP	Authorization	Access
ADNR	MVS.SERVMGR.ADNR	DAEMAUDT	ALTER
		SERVAUDT	ALTER
		TSTCAUDT	ALTER
DCAS	MVS.SERVMGR.DCAS	DAEMAUDT	ALTER
		SERVAUDT	ALTER
		SYSPAUDT	ALTER
		TSTCAUDT	ALTER
LBADV	MVS.SERVMGR.LBADV	DAEMAUDT	ALTER
		SERVAUDT	ALTER
		SYSPAUDT	ALTER
		TSTCAUDT	ALTER
LBAGENT	MVS.SERVMGR.LBAGENT	DAEMAUDT	ALTER

DAEMON/Server	Resource Required to START/STOP	Authorization	Access
		SERVAUDT	ALTER
		SYSPAUDT	ALTER
		TSTCAUDT	ALTER
PAGENT	MVS.SERVMGR.PAGENT	DAEMAUDT	ALTER
		SERVAUDT	ALTER
		SYSPAUDT	ALTER
		TSTCAUDT	ALTER
RSVPD	MVS.SERVMGR.RSVPD	DAEMAUDT	ALTER
		SERVAUDT	ALTER
		SYSPAUDT	ALTER
		TSTCAUDT	ALTER
OMPROUTE	MVS.ROUTEMGR.OROUTED	AUTOAUDT	ALTER
		DAEMAUDT	ALTER
		SERVAUDT	ALTER
		SYSPAUDT	ALTER
		TSTCAUDT	ALTER

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 4-14: Restricted Network Services

Referenced by: ZUSS0014

RESTRICTED NETWORK SERVICES							
Service Port Service Port Service Port							
Chargen	19	logon	513	systat	11		
Daytime	13	nameserver	42	talk	517		
Discard	9	netstat	15	tftp	69		
Echo	7	qotd	17	time	37		

RESTRICTED NETWORK SERVICES						
Service Port Service Port Service Port						
Exec	512	shell	514	timed	525	
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 ESM 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 ESM 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 ESM:

CSVRTLS.LIBRARY.library.version for each logical RTLS library to enable security checking,

OR,

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

OR,

CSVRTLS.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 CSVRTLS profiles are not needed.

5. EXTERNAL SECURITY MANAGER IMPLEMENTATION

5.1 ESM General Considerations

The ESM is the primary mechanism that controls access to data and resources in z/OS systems. Each ESM 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 various ESMs 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 ESM should be standardized across all DoD processing environments. z/OS STIG Checklist recommended implementation criteria are specified in the individual ESM 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 Authorizing Official (AO).

To provide full compliance with the security support required by *DoD Directive 8500.1*, control all products within the operating system using the ESM. 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 ESM. Ensure that all COTS products being procured have, and utilize, the SAF interface to the ESM.
- (2) Secure Government-Off-The-Shelf (GOTS) products and newly developed applications, along with associated data sets, using the ESM. Whenever possible, develop applications using the SAF interface. Safeguards enforced by the ESM 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 ESM.
- (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 ESM 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 ISSO is to maintain the documentation and perform the administration of IPSCs where practical.

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

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

5.1.1 ESM Standard Global Options

Each ESM provides the capability for customization using global ESM configuration and processing options. These global options provide the flexibility to tailor the configuration and processing of the ESM 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 the 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 ESM 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 ESM 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. However any given individual may be assigned responsibility for multiple userids on a given system, depending on functional responsibilities, to ensure task segregation.

Table 5-1: 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.		
		Note: 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.	Will be defined for OpenEdition users.		
	Note : For sites running UNIX Systems Services, see Section 2.5.3.2, Defining Users and Groups, for GROUP(name) requirements.			
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		

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

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

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 ESMs 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 for each ESM. For CA-ACF2 they are contained in RESWORD in the GSO record. In CA-TSS use the RPW control option to view and modify the restricted password list. For RACF the list is loaded in IRRPWREX.

Each site can make additions to this list to reflect regional common words and prefixes.

APPL APR AUG ASDF 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

Table 5-2: Reserved Words and Prefixes

6. TRUSTED STARTED TASKS

Table 6-1: Trusted Started Tasks

Referenced by: RACF0660, TSS0810, ACF0640

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

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

*** = 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 ESM 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.

^{*=}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.

7. Z/OS SYSTEM AND JES2 COMMANDS

Table 7-1: 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	aost	Y		
CANCEL device	UPDATE	MVS.CANCEL.DEV.device	aost	Y		
CANCEL jobname	UPDATE	MVS.CANCEL.JOB.jobname	aost	Y		
(others)		J				
CANCEL jobname	UPDATE	MVS.CANCEL.JOB.jobname	*	Y		
(own jobs)		Č				
The previous command	ls are for jobs	that are not started tasks.				
CANCEL jobname.id	UPDATE	MVS.CANCEL.STC.mbrname.id	aost	Y		
CANCEL id	UPDATE	MVS.CANCEL.STC.mbrname.id	aost	Y		
The previous command	l is for a starte	d task for which an identifier is provi	ided.			
CANCEL jobname	UPDATE	MVS.CANCEL.STC.mbrname.jo	aost	Y		
		bname				
The previous command	l is for a starte	d task for which an identifier was no	t provided. m	brname		
is the name of the mem			-			
CANCEL jobname	UPDATE	MVS.CANCEL.ATX.jobname	aost\$	Y		
The previous command	l is for APPC	transaction programs.				
CANCEL U=userid	UPDATE	MVS.CANCEL.TSU.userid	aost\$	Y		
CHNGDUMP	UPDATE	MVS.CHNGDUMP	aost	Y		
CMDS DISPLAY	READ	MVS.CMDS.DISPLAY	*	Y		
CMDS SHOW	READ	MVS.CMDS.SHOW	*	Y		
CMDS REMOVE	CONTROL	MVS.CMDS.REMOVE	aost	Y		
CMDS ABEND	CONTROL	MVS.CMDS.ABEND	aost	Y		
CONFIG	CONTROL	MVS.CONFIG	aost	Y		
CONTROL	READ	MVS.CONTROL.A	*			
Note: The access author	rity for all CC	NTROL commands except CONTRO	OL M is norm	nally		
READ, but the $L=nam$	e (console nan	ne) operand can change the access lev	vel. When $L=$	name		
		pability and is not the issuing console				
is UPDATE. When $L=$	name specifies	s a console that is full-capability and	is not the issu	iing		
console, the access auth	nority is CON	TROL.		_		
CONTROL C	READ	MVS.CONTROL.C	*			
Note : See the note for t	the CONTROI	L A command for exceptions.				
CONTROL D	READ	MVS.CONTROL.D	*			
Note : See the note for t	the CONTROI	L A command for exceptions.				
CONTROL E	READ	MVS.CONTROL.E	*			
		L A command for exceptions.				
CONTROL M	CONTROL	MVS.CONTROL.M	acost			
CONTROL N	READ	MVS.CONTROL.N	*			
Note : See the note for t	the CONTROI	L A command for exceptions.				
CONTROL Q	READ	MVS.CONTROL.Q	*			

CONTROLS ON z/OS SYSTEM COMMANDS					
Command/Keyword	Access	Resource-Name	Auth	Log	
Note: See the note for	the CONTRO	L A command for exceptions.		, ,	
CONTROL S	READ	MVS.CONTROL.S	*		
Note : See the note for	the CONTRO	L A command for exceptions.		•	
CONTROL V	READ	MVS.CONTROL.V	*		
Note : See the note for	the CONTRO	L A command for exceptions.	<u> </u>		
DEVSERV	READ	MVS.DEVSERV	*		
DISPLAY A	READ	MVS.DISPLAY.JOB	*		
DISPLAY	READ	MVS.DISPLAY.ALLOC	*		
ALLOC,GRPLOCKS					
DISPLAY	READ	MVS.DISPLAY.ALLOC	*		
ALLOC,OPTIONS					
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 CF	READ	MVS.DISPLAY.CF	*		
DISPLAY CNGRP	READ	MVS.DISPLAY.CNGRP	*		
DISPLAY	READ	MVS.DISPLAY.CONSOLES	*		
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 GTZ	READ	MVS.DISPLAY.GTZ	*		
DISPLAY HIS	READ	MVS.DISPLAY.HIS	*		
DISPLAY HS	READ	MVS.DISPLAY.HS	*		
DISPLAY IEFOPZ	READ	MVS.DISPLAY.IEFOPZ	*		
DISPLAY IOS	READ	MVS.DISPLAY.IOS	*		
DISPLAY IPLINFO	READ	MVS.DISPLAY.IPLINFO	*		
DISPLAY IQP	READ	MVS.DISPLAY.IQP	*		
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 OMVS	READ	MVS.DISPLAY.OMVS	*		
DISPLAY OPDATA	READ	MV S.DISPLAY.OPDATA	*		

CONTROLS ON z/OS SYSTEM COMMANDS						
Command/Keyword	Access	Resource-Name	Auth	Log		
DISPLAY	READ	MVS.DISPLAY.PARMLIB	*			
PARMLIB						
DISPLAY PCIE	READ	MVS.DISPLAY.PCIE	*			
DISPLAY PFK	READ	MVS.DISPLAY.PFK	*			
DISPLAY PPT	READ	MVS.DISPLAY.PPT	*			
DISPLAY PROD	READ	MVS.DISPLAY.PROD	*			
DISPLAY PROG	READ	MVS.DISPLAY.PROG	*			
For DISPLAY PROG,	EXIT, if resou	rce CSVDYNEX.LIST exists in the	FACILITY of	lass,		
READ authorization to				,		
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 SMFLIM	READ	MVS.DISPLAY.SMFLIM	*			
DISPLAY SMS	READ	MVS.DISPLAY. SMS	*			
DISPLAY SSI	READ	MVS.DISPLAY.SSI	*			
DISPLAY	READ	MVS.DISPLAY.SYMBOLS	*			
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	*			
DISPLAY XCF	READ	MVS.DISPLAY.XCF	*			
DUMP	CONTROL	MVS.DUMP	aost	Y		
DUMPDS	UPDATE	MVS.DUMPDS	aost			
FORCE device	CONTROL	MVS.FORCE.DEV.device	aost	Y		
FORCE jobname	CONTROL	MVS.FORCE.JOB.jobname	aost	Y		
The previous command	l is for a job th	at is not a started task.		•		
FORCE jobname.id	CONTROL	MVS.FORCE.STC.mbrname.id	aost	Y		
FORCE id	CONTROL	MVS.FORCE.STC.mbrname.id	aost	Y		
The previous command	l is for a starte	d task for which an identifier was pro	ovided.			
FORCE jobname	CONTROL	MVS.FORCE.STC.mbrname.job	aost	Y		
		name				
The previous command	The previous command is for a started task for which an identifier was not provided. mbrname					
is the name of the mem						
FORCE U=userid	CONTROL	MVS.FORCE.TSU.userid	aost	Y		
FORCE device, ARM	CONTROL	MVS.FORCEARM.DEV.device	aost	Y		
FORCE	CONTROL	MVS.FORCEARM.JOB.jobname	aost	Y		
jobname,ARM						
The previous command	1 is for a job the	at is not a started task.				

CONTROLS ON z/OS SYSTEM COMMANDS						
Command/Keyword	Access	Resource-Name	Auth	Log		
FORCE [jobname.]	CONTROL	MVS.FORCEARM.STC.mbrnam	aost	Y		
identifier,ARM		e.id				
	The previous command is for a started task for which an identifier was provided.					
FORCE		MVS.FORCEARM.STC.mbrnam	aost	Y		
jobname,ARM		e.jobname				
The previous command	l is for a starte	d task for which an identifier was no	t provided. n	brname		
is the name of the mem			-			
FORCE		MVS.FORCEARM.TSU.userid	aost	Y		
U=userid,ARM						
FORCE	CONTROL	MVS.FORCETCB.DEV.device	aost	Y		
device,TCB=tcbaddr						
FORCE	CONTROL	MVS.FORCETCB.JOB.jobname	aost	Y		
jobname,TCB=tcbad						
dr						
The previous command						
FORCE	CONTROL	MVS.FORCETCB.STC.mbrname	aost	Y		
[jobname.]identifier.		.id				
TCB=tcbaddr						
		d task for which an identifier was pro	ovided.	.		
FORCE	CONTROL	MVS.FORCETCB.STC.mbrname	aost	Y		
jobname,TCB=tcbad		.jobname				
dr						
		d task for which an identifier was no	t provided. m	brname		
is the name of the mem			1	T		
FORCE	CONTROL	MVS.FORCETCB.TSU.userid	aost	Y		
U=userid.TCB=tcbad						
dr	*****	1000				
HALT EOD	UPDATE	MVS.HALT.EOD	aost	Y		
HALT NET	UPDATE	MVS.HALT.NET	aost	Y		
IOACTION	CONTROL	MVS.IOACTION	aost	Y		
LIBRARY	UPDATE	MVS.LIBRARY	aost	Y		
LOG	READ	MVS.LOG	*			
MODE	UPDATE	MVS.MODE	aost	Y		
MODIFY jobname	UPDATE	MVS.MODIFY.JOB.jobname	aost	Y		
The previous command			T	1		
MODIFY userid	UPDATE	MVS.MODIFY.JOB.userid	aost	Y		
MODIFY jobname	UPDATE	MVS.MODIFY.STC.mbrname.id	a o s t ⁴	Y		
MODIFY jobname.id	UPDATE	MVS.MODIFY.STC.mbrname.id	a o s t ⁴	Y		
MODIFY id	UPDATE	MVS.MODIFY.STC.mbrname.id	a o s t ⁴	Y		
The previous command	l is for a starte	d task for which an identifier was pro	ovided.			

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⁴ 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	
MODIFY jobname	UPDATE	MVS.MODIFY.STC.mbrname.jo	a o s t 4	Y	
		bname			

The previous command is for a started task for which an identifier was **not** provided. mbrname is the name of the member containing the JCL source. **Note:** 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. **Note**: The target of the MODIFY command may allow or require additional authorizations. Please be sure to examine all documentation regarding the target of the command to insure that the proper security is in place.

MONITOR	READ	MVS.MONITOR	*	
MOUNT	UPDATE	MVS.MOUNT	aost	
PAGEADD	UPDATE	MVS.PAGEADD	aost	Y
PAGEDEL	UPDATE	MVS.PAGEDEL	aost	Y
QUIESCE	CONTROL	MVS.QUIESCE	aost	Y
REPLY	READ	MVS.REPLY	* 4	Y
RESET	UPDATE	MVS.RESET	aost	Y
RESET CN	CONTROL	MVS.RESET.CN	aost	Y
ROUTE system	READ	MVS.ROUTE.CMD.system	*	
		4 4 4		2 4

Note: When a system name is specified on the ROUTE command, *system* is the name of the system that is the target of the command.

ROUTE *ALL	READ	MVS.ROUTE.CMD.ALLSYSTE MS	*	
ROUTE *OTHER	READ	MVS.ROUTE.CMD.OTHERSYS	*	
		TEMS		
ROUTE sysgrpname	READ	MVS.ROUTE.CMD.sysgrpname	*	
ROUTE	READ	MVS.ROUTE.CMD.sys1	*	
(sys1,,sysN)				
		MVS.ROUTE.CMD.sysN		
ROUTE	READ	MVS.ROUTE.CMD.group1	*	
(group1,,groupN)				
		MVS.ROUTE.CMD.groupN		
SEND	READ	MVS.SEND	*	
SET APPC	UPDATE	MVS.SET.APPC	aost	Y
SET ASCH	UPDATE	MVS.SET.ASCH	aost	Y
SET CEE	UPDATE	MVS.SET.CEE	aost	Y
SET CLOCK	UPDATE	MVS.SET.TIMEDATE	aost	Y
SET CNGRP	UPDATE	MVS.SET.CNGRP	aost	Y
SET CNIDTR	UPDATE	MVS.SET.CNIDTR	aost	Y
SET CON	UPDATE	MVS.SET.CON	aost	Y
SET DAE	UPDATE	MVS.SET.DAE	aost	Y
SET DATE	UPDATE	MVS.SET.TIMEDATE	aost	Y

CONTROLS ON z/OS SYSTEM COMMANDS				
Command/Keyword	Access	Resource-Name	Auth	Log
SET DEVSUP	UPDATE	MVS.SET.DEVSUP	aost	Y
SET GRSRNL	UPDATE	MVS.SET.GRSRNL	aost	Y
SET GTZ	UPDATE	MVS.SET.GTZ	aost	Y
SET IEFOPZ	UPDATE	MVS.SET.IEFOPZ	aost	Y
SET ICS	UPDATE	MVS.SET.ICS	aost	Y
SET IOS	UPDATE	MVS.SET.IOS	aost	Y
SET IQP	UPDATE	MVS.SET.IQP	aost	Y
SET IXGCNF	UPDATE	MVS.SET.IXGCNF	aost	Y
SET IPS	UPDATE	MVS.SET.IPS	aost	
SET MMS	UPDATE	MVS.SET.MMS	aost	Y
SET MPF	UPDATE	MVS.SET.MPF	aost	Y
SET MSGFLD	UPDATE	MVS.SET.MSGFLD	aost	Y
SET OPT	UPDATE	MVS.SET.OPT	aost	Y
SET PFK	UPDATE	MVS.SET.PFK	aost	Y
SET PROG	UPDATE	MVS.SET.PROG	aost	Y
SET RESET	UPDATE	MVS.SET.TIMEDATE	aost	
SET RTLS	UPDATE	MVS.SET.RTLS	aost	Y
SET SCH	UPDATE	MVS.SET.SCH	aost	Y
SET SLIP	UPDATE	MVS.SET.SLIP	aost	Y
SET SMF	UPDATE	MVS.SET.SMF	aost	Y
SET SMFLIM	UPDATE	MVS.SET.SMFLIM	aost	Y
SET SMS	UPDATE	MVS.SET.SMS	aost	Y
SET ALLOC	UPDATE	MVS.SETALLOC.ALLOC	dst	Y
SETAPPC	UPDATE	MVS.SETAPPC.APPC	aost	Y
SETAUTOR	UPDATE	MVS.SETAUTOR.AUTOR		
SETCEE	UPDATE	MVS.SETCEE.CEE	aost	Y
SETCON DELETE	UPDATE	MVS.SETCON.DELETE	aost	Y
SETCON MODE	CONTROL	MVS.SETCON.MODE	aost	Y
SETCON MONITOR (MN)	CONTROL	MVS.SETCON.MONITOR	a o s t	Y
SETCON	CONTROL	MVS.SETCON.TRACKING	aost	Y
TRACKING (TR)	CONTROL	WIVE.SETCON.TRACKING	aost	1
SETDMN	UPDATE	MVS.SETDMN.DMN	aost	Y
SETETR	UPDATE	MVS.SETETR.ETR	aost	Y
SETERS	UPDATE	MVS.SETERS.AUTHQLVL	aost	Y
SETGRS CNS	CONTROL	MVS.SETGRS.GRS	aost	Y
SETGRS CNS	UPDATE	MVS.SETGRS.TOLINT	aost	Y
MODE=STAR		MVS.SETGRS.RESMIL	aost	1
ENQMAXA		MVS.SETGRS.MODE.STAR		
ENQMAXU		MVS.SETGRS.SYNCHRES	aost	Y
CNS		MVS.SETGRS.GRSQ		1
MONITOR		MVS.SETGRS.ENQMAXA		
		MVS.SETGRS.ENQMAXU		

CONTROLS ON z/OS SYSTEM COMMANDS					
Command/Keyword	Access	Resource-Name	Auth	Log	
		MVS.SETGRS.CNS			
		MVS.SETGRS.MONITOR			
SETGTZ	UPDATE	MVS.SETGTZ.GTZ	aost	Y	
SETIOS	UPDATE	MVS.SETIOS.IOS	aost	Y	
SETHS	UPDATE	MVS.SETHS	aost	Y	
SETLOAD	UPDATE	MVS.SETLOAD.LOAD	aost	Y	
SETLOAD	UPDATE	MVS.SETLOAD.IEASYM	aost	Y	
xx,IEASYM					
SETLOAD	UPDATE	MVS.SETLOAD.LOAD	aost	Y	
xx,PARMLIB					
SETLOGR	UPDATE	MVS.SETLOGR.LOGR	aost	Y	
SETLOGRC	CONTROL	MVS.SETLOGRC.LOGRC	aost	Y	
SETMF	UPDATE	MVS.SETMF.MF	aost	Y	
SETPROG	UPDATE	MVS.SETPROG	s t	Y	
SETRRS	UPDATE	MVS.SETRRS.SHUTDOWN	aost	Y	
SHUTDOWN					
SETSMF	UPDATE	MVS.SETSMF.SMF	aost	Y	
SETSMS	UPDATE	MVS.SETSMS.SMS	aost	Y	
SETSSI ACTIVATE	CONTROL	MVS.SETSSI.ACTIVATE.subna	aost	Y	
		me			
SETSSI ADD	CONTROL	MVS.SETSSI.ADD.subname	aost	Y	
SETSSI	CONTROL	MVS.SETSSI.DEACTIVATE.sub	aost	Y	
DEACTIVATE		name			
SETSSI DELETE	CONTROL	MVS.SETSSI.DELETE.subname	aost	Y	

Note: The following rules apply to the subsystem name (subname) value in the SETSSI commands:

- Lower case characters in the subsystem name will be translated to upper case in the resource-name.
- The characters *, &, or % in the subsystem name will be translated to the _ character in the resource-name.
- Embedded blanks in the subsystem name will be translated to the _ character in the resource-name.
- Trailing blanks will not be translated.

No other characters are translated. IBM recommends defining generic profiles to match subsystem names with characters that cannot be specified using the RACF command interface.

SETUNI	UPDATE	MVS.SETUNI.UNI	aost	Y
SETXCF	UPDATE	MVS.SETXCF.XCF	aost	Y
SLIP	UPDATE	MVS.SLIP	aost	Y

Note: When the IEASLIP.REFRESH FACILITY class profile is defined, the SLIP command issuer must have UPDATE access to that profile to use the REFAFTER and REFBEFOR keywords.

START	UPDATE	MVS.START.STC.mbrname[.id]	aost	Y
mbrname[.identifier]				

(CONTROLS	ON z/OS SYSTEM COMMANDS		
Command/Keyword	Access	Resource-Name	Auth	Log
		d task for which an identifier was pro	ovided. mbrna	ame is
the name of the member	er containing t			
START	UPDATE	MVS.START.STC.mbrname.jobn	a o s t ⁵	Y
mbrname,JOBNAME		ame		
=jobname				
The previous command	l is for a starte	d task for which an identifier was no	t provided. n	ıbrname
is the name of the mem	ber containing	g the JCL source.		
START commands	UPDATE	The resource name substitutes	aost	Y
that use one or more		DDALERT for one or more of the		
of the following		keywords.		
keywords:		-		
		MVS.START.jobname.qualifier.		
DSN or DSNAME		DDALER		
DISP				
PROTECT				
An example of the prev	vious MVS ST	ART command is as follows:	•	•
		dsname.qualifier,DISP=SHR		
STOP jobname	UPDATE	MVS.STOP.JOB.jobname	a o s t ⁵	Y
The previous command		· · · · · · · · · · · · · · · · · · ·		
STOP userid	UPDATE	MVS.STOP.JOB.userid	aost	Y
STOP jobname	UPDATE	MVS.STOP.STC.mbrname.id	aost	Y
STOP jobname.id	012111			
STOP id				
	l is for a starte	d task for which an identifier was pro	ovided. mbrn:	ame is
the name of the member			, , <u>, , , , , , , , , , , , , , , , , </u>	
STOP jobname	UPDATE	MVS.STOP.STC.mbrname.jobna	aost	Y
or or journame	OI DITIE	me		-
The previous command	l is for a starte	d task for which an identifier was no	t provided m	hrname
is the name of the mem			• pro viaca. n	
		5 me vez souree.		
Note: STOP might actu	ıally affect mo	ore than one started task if more than	one unit of w	ork
_	•	ame time. If so, there is one call to RA		
authorization for each u		the time. If so, there is one can to re		iiiaiia
STOPMN	READ	MVS.STOPMN	*	
SWAP	UPDATE	MVS.SWAP	aost	Y
SWITCH SMF	UPDATE	MVS.SWITCH.SMF	aost	Y
TRACE CT	UPDATE	MVS.TRACE.CT	aost	Y
TRACE MT	CONTROL	MVS.TRACE.CT MVS.TRACE.MT		Y
	+		aost	+
TRACE STATUS	UPDATE	MVS.TRACE.ST	aost	Y
TRACE STATUS	UPDATE	MVS.TRACE.STATUS	aost	Y

⁵ The SDSF started task is authorized to Start and Stop the SDSF Aux server.

UPDATE

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Unknown MVS commands

a o s t 4

MVS.UNKNOWN

CONTROLS ON z/OS SYSTEM COMMANDS					
Command/Keyword	Access	Resource-Name	Auth	Log	
UNLOAD	UPDATE	MVS.UNLOAD	aost	Y	
VARY CN	UPDATE	MVS.VARY.CN	aost	Y	
VARY	READ	MVS.VARY.CN	*	Y	
CN,ACTIVATE					
Note : Issue VARY CN	, ACTIVATE	only from the system console.			
VARY CN,AUTH	UPDATE	MVS.VARY.CN	aost	Y	
	CONTROL	MVS.VARYAUTH.CN	aost	Y	
Note: VARY CN, AU7	ΓH requires bo	oth profiles.			
VARY	READ	MVS.VARY.CN	*	Y	
CN,DEACTIVATE	UPDATE		aost	Y	
		ATE command, READ applies only	y when that o	command	
		herwise, UPDATE applies.	T-		
VARY CN,LOGON	UPDATE	MVS.VARY.CN	aost	Y	
		MVS.VARYLOGON.CN	aost	Y	
Note: VARY CN, LOC			T-		
VARY CN,LU	UPDATE	MVS.VARY.CN	aost	Y	
	CONTROL	MVS.VARYLU.CN	aost	Y	
Note: VARY CN, LU 1			-		
VARY	CONTROL	MVS.VARYFORCE.CN	aost	Y	
CN,OFFLINE,FORC					
Е					
VARY	CONTROL	MVS.VARYSTANDBY.CN	a o s t	\mathbf{Y}	
CN(),STANDBY					
VARY CONSOLE	UPDATE	MVS.VARY.CONSOLE	aost	Y	
VARY	UPDATE	MVS.VARY.CONSOLE	aost	Y	
CONSOLE,AUTH	CONTROL	MVS.VARYAUTH.CONSOLE	aost	Y	
Note : VARY CONSOI	LE, AUTH req	uires both profiles.			
VARY GRS	CONTROL	MVS.VARY.GRS	aost	Y	
VARY HARDCPY	CONTROL	MVS.VARY.HARDCPY	aost	Y	
VARY NET	UPDATE	MVS.VARY.NET	aost	Y	
VARY OFFLINE	UPDATE	MVS.VARY.DEV	aost	Y	
Note: If VARY CN, O	FFLINE is spe	ecified, the rules for VARY CN app	ly (the syster	n checks	
for UPDATE access to	MVS.VARY.	CN, not MVS.VARY.DEV).			
VARY	CONTROL	MVS.VARYFORCE.DEV	aost	Y	
OFFLINE,FORCE					
VARY ONLINE	UPDATE	MVS.VARY.DEV	aost	Y	
I	-	cified, the rules for VARY CN apply	y (the system	checks	
for UPDATE access to	MVS.VARY.	CN, not MVS.VARY.DEV).			
VARY PATH	UPDATE	MVS.VARY.PATH	aost	Y	
VARY SMS	UPDATE	MVS.VARY.SMS	aost	Y	
VARY TCPIP	UPDATE	MVS.VARY.TCPIP	aost	Y	
VARY TCPIP cmd	CONTROL	MVS.VARY.TCPIP.*	aost	Y	

CONTROLS ON z/OS SYSTEM COMMANDS					
Command/Keyword Access Resource-Name Auth Log					
VARY XCF	CONTROL	MVS.VARY.XCF	aost	Y	
WRITELOG	READ	MVS.WRITELOG	*	Y	

Auth columnLoga - AUTOAUDT, Automated operations.Y

- 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: ALTER authority on RACF profiles: For discrete profiles, ALTER allows some RACF Administrative functions such as use of the RDELETE Command. However, this is not the preferred method for granting access for resource administration. Alter access for resource administration may be permitted but only to Security Administrators justified by the ISSO.

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.

When granted resource access utilize the highest level of granularity possible. Access at the MVS.** level must not be granted.

Table 7-2: Controls on JES2 System Commands

Referenced by: ZJES0052

CONTROLS ON JES2 SYSTEM COMMANDS					
JES2 command	Access	Resource-Name	Auth	Log	
\$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	

CONTROLS ON JES2 SYSTEM COMMANDS				
JES2 command	Access	Resource-Name	Auth	Log
\$ADD NETSRV	CONTROL	jesx.ADD.NETSRV	aost	Y
\$ADD PROCLIB	CONTROL	jesx.ADD.PROCLIB	aost	Y
\$ADD REDIRECT	CONTROL	jesx.ADD.REDIRECT	aost	Y
\$ADD RMT	CONTROL	jesx.ADD.RMT	aost	Y
\$ADD SOCKET	CONTROL	jesx.ADD.SOCKET	aost	Y
\$ADD SRVCLASS	CONTROL	jesx.ADD.SRVCLASS	aost	Y
\$B device	UPDATE	jesx.BACKSP.DEV	aost	Y
\$C A**	CONTROL	jesx.CANCEL.AUTOCMD	aost	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	aost	Y
\$C OFFn.JR	UPDATE	jesx.CANCEL.DEV	aost	Y
\$C OFFn.JT	UPDATE	jesx.CANCEL.DEV	aost	Y
\$C OFFn.SR	UPDATE	jesx.CANCEL.DEV	aost	Y
\$C OFFn.ST	UPDATE	jesx.CANCEL.DEV	aost	Y
\$C O JOBQ	UPDATE	jesx.CANCEL.JSTOUT	aost	Y
\$C S	UPDATE	jesx.CANCEL.STC	a o s t \$	Y
\$C O S	UPDATE	jesx.CANCEL.STCOUT	aost	Y
\$C T	UPDATE	jesx.CANCEL.TSU	*	
\$C O T	UPDATE	jesx.CANCEL.TSUOUT	*	
\$DEL CONNECT	CONTROL	jesx.DEL.CONNECT	aost	Y
\$DEL DESTID	CONTROL	jesx.DEL.DESTID	aost	Y
\$DEL LOADMOD	CONTROL	jesx.DEL.LOADMOD	aost	Y
\$DEL PROCLIB	CONTROL	jesx.DEL.PROCLIB	aost	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	*	
\$D PUNnn	READ	jesx.DISPLAY.DEV	*	
\$D RDRnn	READ	jesx.DISPLAY.DEV	*	
\$D U	READ	jesx.DISPLAY.DEV	*	
\$D Rnnnn.CON	READ	jesx.DISPLAY.DEV	*	
\$D Rnnnnn.PRm	READ	jesx.DISPLAY.DEV	*	

CONTROLS ON JES2 SYSTEM COMMANDS				
JES2 command	Access	Resource-Name	Auth	Log
\$D Rnnnnn.PUm	READ	jesx.DISPLAY.DEV	*	
\$D Rnnnnn.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	*	

CONTROLS ON JES2 SYSTEM COMMANDS				
JES2 command	Access	Resource-Name	Auth	Log
\$D O T	READ	jesx.DISPLAY.TSUOUT	*	
\$L T	READ	jesx.DISPLAY.TSUOUT	*	
\$F device	UPDATE	jesx.FORWARD.DEV	a o s t	Y
\$G C	UPDATE	jesx.GCANCEL.JOB	a o s t	Y
\$G D	READ	jesx.GDISPLAY.JOB	*	
\$G H	UPDATE	jesx.GMODIFYHOLD.JOB	aost	Y
\$G A	UPDATE	jesx.GMODIFYRELEASE.JOB	aost	Y
\$G R	UPDATE	jesx.GROUTE.JOBOUT	aost	Y
\$G R (for execution)	UPDATE	jesx.GROUTE.JOBOUT	aost	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	aost	Y
\$Z I	CONTROL	jesx.HALT.INITIATOR	a o s t	Y
\$Z SPOOL	CONTROL	jesx.HALT.SPOOL	aost	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	aost	Y
\$T CKPTDEF	CONTROL	jesx.MODIFY.CKPTDEF	aost	Y
\$T CONDEF	CONTROL	jesx.MODIFY.CONDEF	aost	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	aost	Y
\$T ESTLNCT	CONTROL	jesx.MODIFY.ESTLNCT	aost	Y
\$T ESTPAGE	CONTROL	jesx.MODIFY.ESTPAGE	aost	Y
\$T ESTPUN	CONTROL	jesx.MODIFY.ESTPUN	aost	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

	CONTROLS ON JES2 SYSTEM COMMANDS			
JES2 command	Access	Resource-Name	Auth	Log
\$T JOBPRTY	CONTROL	jesx.MODIFY.JOBPRTY	aost	Y
\$T JOBQ	UPDATE	jesx.MODIFY.JST	aost	Y
\$T O JOBQ	UPDATE	jesx.MODIFY.JSTOUT	aost	Y
\$T LINE	CONTROL	jesx.MODIFY.LINE	aost	Y
\$T LOADMOD	CONTROL	jesx.MODIFY.LOADMOD	aost	Y
\$T LOGON	CONTROL	jesx.MODIFY.LOGON	aost	Y
\$T MASDEF	CONTROL	jesx.MODIFY.MASDEF	aost	Y
\$T NETSRV	CONTROL	jesx.MODIFY.NETSRV	aost	Y
\$T NJEDEF	CONTROL	jesx.MODIFY.NJEDEF	aost	Y
\$T NODE	CONTROL	jesx.MODIFY.NODE	aost	Y
\$T NUM	CONTROL	jesx.MODIFY.NUM	aost	Y
\$T OFFx.yy	CONTROL	jesx.MODIFY.OFF	aost	Y
\$T OFFLOADx	CONTROL	jesx.MODIFY.OFFLOAD	a o s t	Y
\$T OUTCLASS	CONTROL	jesx.MODIFY.OUTCLASS	aost	Y
\$T OUTDEF	CONTROL	jesx.MODIFY.OUTDEF	a o s t	Y
\$T OUTPRTY	CONTROL	jesx.MODIFY.OUTPRTY	aost	Y
\$T PCE	CONTROL	jesx.MODIFY.PCE	aost	Y
\$T PRINTDEF	CONTROL	jesx.MODIFY.PRINTDEF	aost	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	aost	Y
\$T SOCKET	CONTROL	jesx.MODIFY.SOCKET	aost	Y
\$T SPOOL	CONTROL	jesx.MODIFY.SPOOL	aost	Y
\$T SPOOLDEF	CONTROL	jesx.MODIFY.SPOOLDEF	aost	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	aost\$	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	aost\$	Y
\$H J	UPDATE	jesx.MODIFYHOLD.BAT	aost\$	Y
\$H A	UPDATE	jesx.MODIFYHOLD.JOB	a o s t	Y
\$H JOBQ	UPDATE	jesx.MODIFYHOLD.JST	aost	Y
\$H S	UPDATE	jesx.MODIFYHOLD.STC	aost\$	Y
\$H T	UPDATE	jesx.MODIFYHOLD.TSU	a o s t \$	Y
\$A J	UPDATE	jesx.MODIFYRELEASE.BAT	a o s t \$	Y

CONTROLS ON JES2 SYSTEM COMMANDS				
JES2 command	Access	Resource-Name	Auth	Log
\$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	aost\$	Y
\$O T	UPDATE	jesx.RELEASE.TSUOUT	aost\$	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	aost	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	aost	Y
\$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	aost\$	Y
\$R PUN	UPDATE	jesx.ROUTE.JOBOUT	aost\$	Y
\$R XEQ	UPDATE	jesx.ROUTE.JOBOUT	aost\$	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	aost	Y
\$S device	UPDATE	jesx.START.DEV	aost	Y
\$S OFFLOADn	UPDATE	jesx.START.DEV	aost	Y
\$S OFFn.JR	UPDATE	jesx.START.DEV	aost	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	aost	Y
\$S I	CONTROL	jesx.START.INITIATOR	a o s t	Y
\$S LINE(x)	CONTROL	jesx.START.LINE	aost	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	aost	Y

CONTROLS ON JES2 SYSTEM COMMANDS				
JES2 command	Access	Resource-Name	Auth	Log
\$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
\$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 Log Y

- 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.

Note: 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 ISSO.

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 8-1: Sensitive Utility Controls

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

	SENSITIVE UTILITY CONTROLS			
PROGRAM	PRODUCT	FUNCTION	AUTH	
AHLGTF	z/OS	System Activity Tracing	STCGAUDT	
HHLGTF			(users can issue	
IHLGTF			started task	
			only)	
ICPIOCP	z/OS	System Configuration	SYSPAUDT	
IOPIOCP				
IXPIOCP				
IYPIOCP				
IZPIOCP				
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	
			Userid assigned	
			to DEVMAN	
			STC	
IDCSC01	z/OS	IDCAMS Set Cache Module	SYSPAUDT	
IEHINITT	z/OS	Tape Management	TAPEAUDT	
IFASMFDP	z/OS	SMF Data Dump Utility	AUDTAUDT	
			PCSPAUDT	
			SECAAUDT	
			SMFBAUDT	
			SYSPAUDT	
			MICSADM*	
IND\$FILE	z/OS	PC to Mainframe File Transfer		
		(Applicable only for classified systems)		
CSQJU003	IBM		MQSAAUDT	
CSQJU004	WebSphereMQ			
CSQUCVX				
CSQ1LOGP				

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

^{*} This access is allowed at the discretion of the site ISSM/ISSO.

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 9-1: SMS Program Resources

Referenced by: ZSMS0012

SMS PROGRAM Resources		
SMS Program	Authority	
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	
DFQFCND1	*	
DFQFHA01	*	
DFQFHB01	*	
DFQFHBD1	*	
DFQFHD01	*	
DFQFHM01	*	
DFQFHRC1	*	
DFQFHRL1	*	
DGTFACAT	dest	
DGTFADAD	dest	
DGTFAGAA	dest	
DGTFAGCD	*	
DGTFAGDA	dest	
DGTFAGDI	*	
DGTFAGLD	*	
DGTFAL01	*	
DGTFAL11	dest	
DGTFALD1	dest	
DGTFALG1	dest	
DGTFALH1	dest	
DGTFALL1	dest	
DGTFALM1	dest	
DGTFALP1	dest	
DGTFALR1	dest	
DGTFALS1	dest	
DGTFALY1	dest	
DGTFAU01	dest	
DGTFAU02	dest	

SMS Program	SMS PROGRAM Resources		
DGTFAULI dest DGTFAULI dest DGTFAZOI dest DGTFBROI * DGTFBROI dest DGTFEXOI dest DGTFEXOI dest DGTFEXOI dest DGTFCADI dest DGTFCADI dest DGTFCADI dest DGTFCAHI dest DGTFCAHI dest DGTFCAMI dest DGTFCANI dest DGTFCANI dest DGTFCASI dest DGTFCASI dest DGTFCASI dest DGTFCBOI dest DGTFCBOI dest DGTFCBOI dest DGTFCDOI * DGTFCOOI * DGTFCOOI dest DGTFCPDI dest DGTFCPDI dest DGTFCPDI dest DGTFCPDI dest DGTFCPDI dest DGTFCOI dest DGTFCOI dest DGTFCOI dest DGTFCCOI dest DGTFDCOI dest DGTFDIII dest			
DGTFAZ0		dest	
DGTFBR01	DGTFAUL1	dest	
DGTFBX01 DGTFCAD1 DGTFCAG1 DGTFCAG1 DGTFCAG1 DGTFCAG1 DGTFCAL1 DGTFCAL1 DGTFCAL1 DGTFCAM1 DGTFCM01 * DGTFCM01 * DGTFCM01 * DGTFCM01 * DGTFCM01 * DGTFCM01 BGTFCM01 BGTFDCM0 BGTFDCM0 BGTFDCM0 BGTFDCM0 BGTFDCM0 BGTFDCM0 BGTFDCM1 BGTFDCM1 BGTFDCM1 BGTFDCM1 BGTFDCM1 BGTFDCM1 BGTFDCM1 BGTFDCM1 BGTFDIM1 B	DGTFAZ01	dest	
DGTFCADI dest DGTFCAGI dest DGTFCALI dest DGTFCALI dest DGTFCALI dest DGTFCAMI dest DGTFCAMI dest DGTFCAPI dest DGTFCARI dest DGTFCASI dest DGTFCASI dest DGTFCASI dest DGTFCBOI dest DGTFCBOI * DGTFCMOI * DGTFCMOI * DGTFCMOI * DGTFCPOI * DGTFCPA dest DGTFCPD dest DGTFCPD dest DGTFCPD dest DGTFCPD dest DGTFCPD dest DGTFCPD dest DGTFCCOI * DGTFCPD dest DGTFCPD dest DGTFCPD dest DGTFCPD dest DGTFCCOI dest DGTFDCAA dest DGTFDCAA dest DGTFDCDA dest DGTFDCDA dest DGTFDCDI dest DGTFDIDII dest DGTFDIII dest DGTFDIIII dest DGTFDIIII dest DGTFDIIII dest DGTFDIIII dest	DGTFBR01	*	
DGTFCAGI dest DGTFCAHI dest DGTFCAHI dest DGTFCAMI dest DGTFCAMI dest DGTFCAPI dest DGTFCARI dest DGTFCARI dest DGTFCASI dest DGTFCASI dest DGTFCBDI dest DGTFCBOI dest DGTFCMI # DGTFCMI # DGTFCMI # DGTFCMI # DGTFCMI # DGTFCMI # DGTFCOI # DGTFCOI # DGTFCPOI dest DGTFCPDI dest DGTFCPDI dest DGTFCPDI dest DGTFCPDI dest DGTFCROI # DGTFCROI # DGTFCROI # DGTFCPDI dest DGTFCCOI # DGTFCCOI # DGTFCCOI # DGTFCCOI # DGTFCCOI dest DGTFCCOI # DGTFDCDA dest DGTFDCDA dest DGTFDCDA dest DGTFDCDD # DGTFDCDD # DGTFDCDD # DGTFDCDD # DGTFDCDD # DGTFDCDI # DGTFDCDI # DGTFDCDI # DGTFDIDI dest DGTFDIRI dest DGTFDIRI dest DGTFDIRI DGTFDIRI	DGTFBX01	dest	
DGTFCAHI dest DGTFCALI dest DGTFCALI dest DGTFCAPI dest DGTFCAPI dest DGTFCAPI dest DGTFCARI dest DGTFCASI dest DGTFCASI dest DGTFCASI dest DGTFCBOI dest DGTFCBOI dest DGTFCBOI # DGTFCNOI # DGTFCNOI # DGTFCNOI # DGTFCOOI # DGTFCPOI # DGTFCPOI # DGTFCPOI # DGTFCPOI dest DGTFCPDI dest DGTFCCOI dest DGTFCCOI dest DGTFCCOI dest DGTFCOI # DGTFDCDA dest DGTFDCDA dest DGTFDCDA dest DGTFDCDI # DGTFDCDI dest DGTFDIDI # DGTFDIDI # DGTFDIDI # DGTFDIDI dest DGTFDIDI DGTFDIDI dest	DGTFCAD1	dest	
DGTFCAMI DGTFCAMI DGTFCARI DGTFCARI DGTFCARI DGTFCASI DGTFCASI DGTFCASI DGTFCAYI DGTFCB0I DGTFCM0I DGTFCM0I DGTFCM0I DGTFCM0I DGTFCPOI DGTFCPOI DGTFCPDA DGTFCPDA DGTFCPDA DGTFCPDI DGTFCPDI DGTFCNOI DGTFCNOI DGTFCPDI DGTFCNOI DGTFCDOI DGTFCPDI DGTFCDDI DGTFDCDD * DGTFDCDA DGTFDCDD BGTFDCDD BGTFDCDD BGTFDCDD BCTFDCDDI DGTFDCDI DGTFDCDI DGTFDCDI DGTFDCDI DGTFDCDI DGTFDCDI DGTFDCDI DGTFDCDI DGTFDDII DGTFDIII DGTFDIII DGTFDIII	DGTFCAG1	dest	
DGTFCAMI DGTFCAPI DGTFCARI DGTFCARI DGTFCASI DGTFCASI DGTFCAYI DGTFCB0I DGTFCB0I DGTFCM0I DGTFCM0I DGTFCPDI DGTFCPDD DGTFCPDD DGTFCPDI DGTFCPLD DGTFCPLD DGTFCV0I DGTFCPDI DGTFCOOI DGTFCPDI DGTFCDOI DGTFCPDI DGTFCDOI DGTFCPDI DGTFCDOI DGTFCPDI DGTFCDOI DGTFCDOI DGTFCDOI DGTFCOI DGTFDCDI DGTFDCDI DGTFDCDI DGTFDCDI DGTFDCDI DGTFDCDI DGTFDCDI DGTFDCDI DGTFDCDI DGTFDCLD DGTFDCLD DGTFDCLD DGTFDCLD DGTFDCLD DGTFDILI DGTFDILI DGTFDILI DGTFDILI DGTFDILI DGTFDILI DGTFDINI	DGTFCAH1	dest	
DGTFCAPI DGTFCARI DGTFCASI DGTFCASI DGTFCAYI DGTFCB0I DGTFCB0I DGTFCN0I DGTFCN0I DGTFCPOI DGTFCPOI DGTFCPDA DGTFCPDA DGTFCPDD DGTFCPDI DGTFCPLD DGTFCROI DGTFCVOI DGTFCOOI DGTFCPDA DGTFCPDI DGTFCPDA DGTFCPDI DGTFCDOI DGTFCOOI DGTFDCAA DGTFDCAA DGTFDCAA DGTFDCAA DGTFDCAB DGTFDCDI DGTFDCDI DGTFDCDI DGTFDCDI DGTFDCDI DGTFDCLD DGTFDCLD DGTFDCLD DGTFDCLD DGTFDCLD DGTFDCLI DGTFDIII DGTFDIII DGTFDIII DGTFDIII DGTFDIII DGTFDIII	DGTFCAL1	dest	
DGTFCASI DGTFCASI DGTFCAYI DGTFCB0I DGTFCB0I DGTFCM0I DGTFCM0I DGTFCN0I DGTFCOI DGTFCPOI DGTFCPOI DGTFCPOI DGTFCPDI DGTFCPDD DGTFCPDD DGTFCPDI DGTFCROI DGTFCPDI DGTFCOI DGTFCPDI DGTFCPDI DGTFCPDI DGTFCPDI DGTFCPDI DGTFCDOI DGTFCOI DGTFCOI DGTFCOI DGTFCOI DGTFCOI DGTFCDOI DGTFCDOI DGTFCDOI DGTFCDOI DGTFCDOI DGTFCDOI DGTFCDOI DGTFDCDI DGTFDCLI DGTFDCLI DGTFDCLI DGTFDILI DGTFDILI DGTFDILI DGTFDILI DGTFDILI DGTFDINI * DGTFDINI DGTFDINI DGTFDINI DGTFDINI DGTFDINI DGTFDINI DGTFDINI	DGTFCAM1	dest	
DGTFCASI DGTFCAYI DGTFCB0I DGTFCB0I DGTFCL0I # DGTFCM0I # DGTFCN0I DGTFCNOI DGTFCOOI # DGTFCPOI # DGTFCPDI DGTFCPDA DGTFCPDA DGTFCPDA DGTFCPDI DGTFCPDI DGTFCROI # DGTFCPDI DGTFCPDI DGTFCPDI DGTFCPDI DGTFCPDI DGTFCPDI DGTFCOOI # DGTFCPDI DGTFCOOI # DGTFCOOI # DGTFCDOI DGTFCOOI # DGTFCDOI DGTFCOOI DGTFDCDI DGTFDCDI DGTFDCDI DGTFDCDI DGTFDCLD DGTFDCLD DGTFDCLD DGTFDCLD DGTFDCLD DGTFDILI DGTFDILI DGTFDILI DGTFDILI DGTFDINI # DGTFDINI	DGTFCAP1	dest	
DGTFCAY1 dest	DGTFCAR1	dest	
DGTFCB01	DGTFCAS1	dest	
DGTFCL01	DGTFCAY1	dest	
DGTFCN01	DGTFCB01	dest	
DGTFCN01 DGTFCP01 * DGTFCP01 * DGTFCPAA dest DGTFCPCD dest DGTFCPDA DGTFCPDA DGTFCPDI dest DGTFCPLD dest DGTFCR01 * DGTFCR01 * DGTFCS01 DGTFCT01 dest DGTFCT01 dest DGTFCV01 # DGTFCV01 # DGTFCV01 * DGTFCV01 * DGTFDCAA dest DGTFDCAA dest DGTFDCDD * DGTFDCDD * DGTFDCDD * DGTFDCDD * DGTFDCDD * DGTFDCDI * DGTFDCLD * DGTFDCLD * DGTFDCLD * DGTFDIII DGTFDIII dest	DGTFCL01	*	
DGTFCO01 DGTFCPO1 DGTFCPAA DGTFCPCD dest DGTFCPDA dest DGTFCPDI dest DGTFCPLD dest DGTFCR01 * DGTFCS01 dest DGTFCV01 dest DGTFCV01 dest DGTFCV01 dest DGTFCV01 dest DGTFCDAA dest DGTFDCDA dest DGTFDCDA dest DGTFDCDA dest DGTFDCDD * DGTFDCDD * DGTFDCDD # DGTFDCDI # DGTFDCLD DGTFDCLD # DGTFDCLD # DGTFDID1 dest DGTFDID1 dest DGTFDID1 # DGTFDID1 dest	DGTFCM01	*	
DGTFCP01 * DGTFCPAA dest DGTFCPCD dest DGTFCPDA dest DGTFCPDI dest DGTFCPDI dest DGTFCPLD dest DGTFCR01 * DGTFCS01 dest DGTFCV01 dest DGTFCV01 dest DGTFCV01 * DGTFCV01 * DGTFCY01 * DGTFDCAA dest DGTFDCDA dest DGTFDCDA dest DGTFDCDD * DGTFDCDI * DGTFDCDI * DGTFDCDI * DGTFDCDI * DGTFDCDI * DGTFDCDI * DGTFDCLD dest DGTFDCLD dest DGTFDTDII dest DGTFDTDII dest DGTFDIII dest DGTFDIII dest DGTFDIII dest DGTFDIII dest	DGTFCN01	dest	
DGTFCPAA DGTFCPCD DGTFCPDA DGTFCPDA DGTFCPDI DGTFCPDI DGTFCPLD DGTFCR01 * DGTFCS01 DGTFCT01 DGTFCV01 DGTFCV01 DGTFCV01 * DGTFCV01 * DGTFCDAA DGTFDCAA DGTFDCDA DGTFDCDA DGTFDCDA DGTFDCDI * DGTFDCDI * DGTFDCDI * DGTFDCLD DGTFDCLD DGTFDIDI # DGTFDIDI # DGTFDIDI # DGTFDIDI # DGTFDILI DGTFDILI DGTFDINI #	DGTFCO01	*	
DGTFCPCD DGTFCPDA dest DGTFCPDI dest DGTFCPLD dest DGTFCR01 * DGTFCS01 dest DGTFCT01 dest DGTFCV01 dest DGTFCY01 * DGTFCY01 * DGTFCY01 * DGTFDCAA dest DGTFDCDA dest DGTFDCDA dest DGTFDCDA dest DGTFDCDI * DGTFDCDI * DGTFDCDI * DGTFDCLD # DGTFDCLD # DGTFDCLD # DGTFDID1 # DG	DGTFCP01	*	
DGTFCPDA DGTFCPDI DGTFCPDD dest DGTFCR01 * DGTFCS01 dest DGTFCT01 dest DGTFCV01 DGTFCV01 dest DGTFCY01 * DGTFCY01 * DGTFDCAA DGTFDCAA dest DGTFDCDA dest DGTFDCDA dest DGTFDCDI * DGTFDCDI * DGTFDCI * DGTFDCLD * DGTFDCLD * DGTFDIII dest DGTFDIII # DGTFDIII dest DGTFDIII	DGTFCPAA	dest	
DGTFCPDI dest DGTFCR01 * DGTFCS01 dest DGTFCT01 dest DGTFCV01 dest DGTFCY01 * DGTFCY01 * DGTFDCAA dest DGTFDCCD * DGTFDCDA dest DGTFDCDI * DGTFDCLD * DGTFDF01 dest DGTFDID1 * DGTFDIH1 * DGTFDIM1 * DGTFDIP1 dest DGTFDIP1 dest DGTFDIR1 dest	DGTFCPCD	dest	
DGTFCPLD dest DGTFCR01 * DGTFCS01 dest DGTFCT01 dest DGTFCV01 * DGTFCY01 * DGTFDCAA dest DGTFDCCD * DGTFDCDA dest DGTFDCDI * DGTFDCLD * DGTFDF01 dest DGTFDID1 * DGTFDIH1 * DGTFDIM1 * DGTFDIP1 dest DGTFDIP1 dest DGTFDIR1 dest	DGTFCPDA	dest	
DGTFCR01 * DGTFCS01 dest DGTFCT01 dest DGTFCV01 * DGTFCY01 * DGTFDCAA dest DGTFDCCD * DGTFDCDA dest DGTFDCDI * DGTFDCLD * DGTFDF01 dest DGTFDID1 * DGTFDIH1 * DGTFDIM1 * DGTFDIP1 dest DGTFDIP1 dest DGTFDIR1 dest	DGTFCPDI	dest	
DGTFCS01 dest DGTFCT01 dest DGTFCV01 dest DGTFCY01 * DGTFDCAA dest DGTFDCCD * DGTFDCDA dest DGTFDCDI * DGTFDCLD * DGTFDF01 dest DGTFDID1 * DGTFDIH1 * DGTFDIM1 * DGTFDIP1 dest DGTFDIP1 dest DGTFDIR1 dest	DGTFCPLD	dest	
DGTFCT01 dest DGTFCV01 * DGTFDCAA dest DGTFDCCD * DGTFDCDA dest DGTFDCDI * DGTFDCLD * DGTFDF01 dest DGTFDID1 * DGTFDIH1 * DGTFDIM1 * DGTFDIM1 * DGTFDIP1 dest DGTFDIR1 dest	DGTFCR01	*	
DGTFCV01 dest DGTFDCAA dest DGTFDCCD * DGTFDCDA dest DGTFDCDI * DGTFDCLD * DGTFDF01 dest DGTFDID1 * DGTFDIH1 * DGTFDIL1 dest DGTFDIM1 * DGTFDIP1 dest DGTFDIR1 dest	DGTFCS01	dest	
DGTFCY01 * DGTFDCAA d e s t DGTFDCCD * DGTFDCDA d e s t DGTFDCDI * DGTFDCLD * DGTFDF01 d e s t DGTFDID1 * DGTFDIH1 * DGTFDIL1 d e s t DGTFDIM1 * DGTFDIP1 d e s t DGTFDIR1 d e s t	DGTFCT01	dest	
DGTFCY01 * DGTFDCAA d e s t DGTFDCCD * DGTFDCDA d e s t DGTFDCDI * DGTFDCLD * DGTFDF01 d e s t DGTFDID1 * DGTFDIH1 * DGTFDIL1 d e s t DGTFDIM1 * DGTFDIP1 d e s t DGTFDIR1 d e s t	DGTFCV01	dest	
DGTFDCCD * DGTFDCDA dest DGTFDCDI * DGTFDCLD * DGTFDF01 dest DGTFDID1 * DGTFDIH1 * DGTFDIL1 dest DGTFDIM1 * DGTFDIP1 dest DGTFDIR1 dest	DGTFCY01		
DGTFDCDA d e s t DGTFDCDI * DGTFDCLD * DGTFDF01 d e s t DGTFDID1 * DGTFDIH1 * DGTFDIL1 d e s t DGTFDIM1 * DGTFDIP1 d e s t DGTFDIR1 d e s t	DGTFDCAA	dest	
DGTFDCDI * DGTFDCLD * DGTFDF01 dest DGTFDID1 * DGTFDIH1 * DGTFDIL1 dest DGTFDIM1 * DGTFDIP1 dest DGTFDIR1 dest	DGTFDCCD	*	
DGTFDCLD * DGTFDF01 dest DGTFDID1 * DGTFDIH1 * DGTFDIL1 dest DGTFDIM1 * DGTFDIP1 dest DGTFDIR1 dest	DGTFDCDA	dest	
DGTFDF01 dest DGTFDID1 * DGTFDIH1 * DGTFDIL1 dest DGTFDIM1 * DGTFDIP1 dest DGTFDIR1 dest	DGTFDCDI	*	
DGTFDID1 * DGTFDIH1 * DGTFDIL1 dest DGTFDIM1 * DGTFDIP1 dest DGTFDIR1 dest	DGTFDCLD	*	
DGTFDID1 * DGTFDIH1 * DGTFDIL1 dest DGTFDIM1 * DGTFDIP1 dest DGTFDIR1 dest		dest	
DGTFDIH1 * DGTFDIL1 dest DGTFDIM1 * DGTFDIP1 dest DGTFDIR1 dest			
DGTFDIM1 * DGTFDIP1 dest DGTFDIR1 dest		*	
DGTFDIM1 * DGTFDIP1 dest DGTFDIR1 dest	DGTFDIL1	dest	
DGTFDIP1 dest DGTFDIR1 dest			
DGTFDIR1 dest		dest	

SMS PROGRAM Resources		
SMS Program	Authority	
DGTFDIY1	dest	
DGTFDL01	*	
DGTFDM01	dest	
DGTFDND1	dest	
DGTFDNG1	dest	
DGTFDNH1	dest	
DGTFDNL1	dest	
DGTFDNM1	*	
DGTFDNP1	dest	
DGTFDNR1	dest	
DGTFDNS1	dest	
DGTFDNY1	dest	
DGTFDO01	*	
DGTFDP01	*	
DGTFDS00	*	
DGTFDU01	*	
DGTFED01	*	
DGTFEF01	dest	
DGTFEJ01	dest	
DGTFEL01	dest	
DGTFER02	dest	
DGTFFI01	*	
DGTFFLAD	dest	
DGTFFN01	*	
DGTFFU01	*	
DGTFHI01	*	
DGTFIL01	dest	
DGTFIN01	dest	
DGTFIV01	dest	
DGTFJLCD	*	
DGTFLCAL	dest	
DGTFLCCD	dest	
DGTFLCDE	dest	
DGTFLCDI	dest	
DGTFLCLD	dest	
DGTFLE01	*	
DGTFLIC1	dest	
DGTFLL01	*	
DGTFLMAL	dest	
DGTFLMCD	dest	
DGTFLMDE	dest	
DGTFLMDI	dest	
DGTFLMLD	dest	

SMS PROGRAM Resources		
SMS Program	Authority	
DGTFLVC1	pdest	
DGTFLVL1	dest	
DGTFMCAA	dest	
DGTFMCCD	*	
DGTFMCDA	dest	
DGTFMCDI	*	
DGTFMCLD	*	
DGTFMD01	*	
DGTFMS00	*	
DGTFOVCD	dest	
DGTFPF00	*	
DGTFPF01	*	
DGTFPF02	*	
DGTFPF03	*	
DGTFPF04	*	
DGTFPF05	pdest	
DGTFPF20	dest	
DGTFPF21	*	
DGTFPF22	*	
DGTFPR01	*	
DGTFRA01	dest	
DGTFRB01	dest	
DGTFRC01	*	
DGTFRCAL	dest	
DGTFRCCD	dest	
DGTFRCDE	dest	
DGTFRCDI	dest	
DGTFRCLD	dest	
DGTFRE01	*	
DGTFRF01	dest	
DGTFRI01	*	
DGTFRL01	*	
DGTFRML1	dest	
DGTFRO01	dest	
DGTFRR00	*	
DGTFRT01	*	
DGTFRV01	dest	
DGTFRW01	*	
DGTFSACD	dest	
DGTFSCAA	dest	
DGTFSCCD	*	
DGTFSCDA	dest	
DGTFSCDI	*	

SMS PROGRAM Resources		
SMS Program	Authority	
DGTFSCLD	*	
DGTFSGAR	dest	
DGTFSGDR	p b d e s t	
DGTFSGFR	dest	
DGTFSGLD	p b d e s t	
DGTFSGVR	dest	
DGTFSLDS	*	
DGTFSO01	*	
DGTFSRD1	*	
DGTFTVCD	dest	
DGTFUP01	*	
DGTFUS01	*	
DGTFVA00	p d e s t	
DGTFVLVA	dest	
DGTFVW01	*	

- a AUDTAUDT
- b DASBAUDT
- d DASDAUDT
- e SECAAUDT
- s SYSPAUDT
- t TSTCAUDT
- p PCSPAUDT
- * 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 GDG data sets.**

SYSID = 'SYSID' of System Baseline is running on **ESM** = 'ESM' running on Baseline System ex. (ACF2, RACF, TSS)

SYSID ESM.BASELINE.FUNCTION.CS221C SYSID.ESM.BASELINE.FUNCTION.CS221C.G0001V00 SYSID ESM.BASELINE.FUNCTION.CS243C SYSID ESM.BASELINE.FUNCTION.CS243C.G0001V00

See Sample output below:

Report CS221C:

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ETRUST CA EXAMINE BASELINE ANALYSIS INFORMATION

BASELINE ANALYSIS DATA

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 OCCURRED, 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

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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
- 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	NC
+	+				
	LIBRARY NAMES SPECIFIED:	181		APF LIBRARIES SPECIFIED:	86
	DUPLICATE LIBRARY NAMES:	0		DUPLICATE LIBRARY NAMES:	0
	ACCESSIBLE LIBRARIES:	181		ACCESSIBLE LIBRARIES:	86
30,5	ACCESSED LIBRARY MEMBERS:	55,242		ACCESSED LIBRARY MEMBERS:	
 1,87	JOBSTEP APF AUTH MEMBERS:	4,320		JOBSTEP APF AUTH MEMBERS:	
	, ,				
1	CONSOLIDATED LIST INFORMA	ATION	+	LINK PACK AREA	
2,36	LIBRARY NAMES SPECIFIED:	267		NUMBER OF UNIQUE MODULES:	
	NET UNIQUE LIBRARY NAMES:	182		JOBSTEP APF AUTH MODULES:	327
 13.8	NET ACCESSIBLE LIBRARIES:	182		PERCENT AUTHORIZED:	
	ACCESSED LIBRARY MEMBERS:	55,388			
 	JOBSTEP APF AUTH MEMBERS:	4,320		MEMORY-BASED LPA IS AN	
	PERCENT AUTHORIZED:	7.80		SOURCE OF APF-AUTHORIZED	
 +	 +		+		

Report: CS243C:

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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: xxxxxx
- DSN: SYS2A.CICSTS.V320807.SDFHLINK VOL: xxxxxx
- DSN: SYS2A.CICSTS.V320807.SDFHLPA VOL: xxxxxx
- THE FOLLOWING APF LIBS WERE REMOVED:

- DSN: SYS2.CICSTS.V310601.CPSM.SEYUAUTH VOL: xxxxxx
- DSN: SYS2.CICSTS.V310601.SDFHAUTH VOL: xxxxxx
- DSN: SYS2.CICSTS.V310601.SDFJLPA VOL: xxxxxx
- DSN: SYS2.CICSTS.V310611.SDFJAUTH VOL: xxxxxx
- DSN: SYS2.MIMGR.V116.APFLOAD VOL: xxxxxx
- DSN: SYS2.QUICKREF.V680.QWILINK VOL: xxxxxx
- DSN: SYS2.SYMUPDTE.V01271.LOAD VOL: xxxxxx
- DSN: SYS2A.CICSTS.V310601.CPSM.SEYULINK VOL: xxxxxx
- DSN: SYS2A.CICSTS.V310601.SDFHEXCI VOL: xxxxxx
- DSN: SYS2A.CICSTS.V310601.SDFHLINK VOL: xxxxxx
- DSN: SYS2A.CICSTS.V310611.CPSM.SEYULPA VOL: xxxxxx
- DSN: SYS2A.CICSTS.V310611.SDFHLPA VOL: xxxxxx

****** 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 11-1: BMC IOA Resources

Referenced by: ZIOA0020

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

Resource Names	Logging	User Group	Access
\$\$DELCND	None	AUTOAUDT	Alter
		OPERAUDT	
		PCSPAUDT	
		PRODAUDT	
		SYSPAUDT	
\$\$DELCTL	Read	OPERAUDT	Alter
		PCSPAUDT	
		SYSPAUDT	
\$\$DELRES	Read	OPERAUDT	Alter
		PCSPAUDT	
		SYSPAUDT	
\$\$ERACND	Read	OPERAUDT	Alter
**======		PCSPAUDT	
		SYSPAUDT	
\$\$IOAAS	Read	OPERAUDT	Alter
441011111	12300	PCSPAUDT	12202
		SYSPAUDT	
\$\$IOACMD	Read	AUTOAUDT	Alter
ψ 1 0110111 2	read	OPERAUDT	7 11001
		PCSPAUDT	
		SYSPAUDT	
\$\$IOADEL	None	DPCSAUDT	Alter
ψΦΙΟ/IDEE	None	OPERAUDT	Alter
		PCSPAUDT	
		SYSPAUDT	
\$\$IOADIR	None	*	Alter
\$\$IOAEDM	None	*	Alter
\$\$IOAEDT	None	DPCSAUDT	Alter
ψΨ1011 E2 1	T (SIIC	OPERAUDT	
		PCSPAUDT	
		SYSPAUDT	
\$\$IOAGL	Read	OPERAUDT	Alter
ψ(10110 <u>1</u>	read	PCSPAUDT	7 11001
		SYSPAUDT	
\$\$IOAONLINE	None	OPERAUDT	Alter
φιστιστιτΕ	rone	PCSPAUDT	7 Hitel
		SYSPAUDT	
\$\$IOARES	Read	OPERAUDT	Alter
ψψισι ιιωσ	Read	PCSPAUDT	7 1101
		SYSPAUDT	
\$\$IOASAV	None	DPCSAUDT	Alter
φφισαρα ν	INOILE	OPERAUDT	Aitti
		PCSPAUDT	
		SYSPAUDT	
¢¢io a i iti	D J		A 1ton
\$\$IOAUTL	Read	AUTOAUDT	Alter

Resource Names	Logging	User Group	Access
		OPERAUDT	
		PCSPAUDT	
		SYSPAUDT	
\$\$IOAVIW	None	DPCSAUDT	Alter
		OPERAUDT	
		PCSPAUDT	
		SYSPAUDT	
		IOABAUDT	
\$\$NEWCND	None	OPERAUDT	Alter
		PCSPAUDT	
		SYSPAUDT	
\$\$SECIOA.qname	None	*	Alter

Table 11-2: BMC Control-D Resources

Referenced by: ZCTD0020

Resource Names	Logging	User Group	Access
\$\$ADDNOT	None	APPSAUDT	Alter
		OPERAUDT	
		PCSPAUDT	
		SYSPAUDT	
\$\$ADNASR	None	APPSAUDT	Alter
		OPERAUDT	
		PCSPAUDT	
		SYSPAUDT	
\$\$BKPORD	None	APPSAUDT	Alter
		BMC STCs	
		OPERAUDT	
		PCSPAUDT	
		SYSPAUDT	
\$\$CDDSEL	None	APPSAUDT	Alter
		SYSPAUDT	
\$\$CHKRCL	Read	APPSAUDT	Alter
		OPERAUDT	
		PCSPAUDT	
		SYSPAUDT	
\$\$CTDACT	Read	APPSAUDT	Alter
		OPERAUDT	
		PCSPAUDT	
		SYSPAUDT	
\$\$CTDASR	Read	APPSAUDT	Alter
		OPERAUDT	
		PCSPAUDT	
		SYSPAUDT	
\$\$CTDCDD	Read	APPSAUDT	Alter

Resource Names	Logging	User Group	Access
		OPERAUDT	
		PCSPAUDT	
		SYSPAUDT	
\$\$CTDEDM	None	APPSAUDT	Alter
		OPERAUDT	
		PCSPAUDT	
		SYSPAUDT	
\$\$CTDJOB	None	APPSAUDT	Alter
		OPERAUDT	
		PCSPAUDT	
		SYSPAUDT	
\$\$CTDOBJ	Read	APPSAUDT	Alter
**		OPERAUDT	
		PCSPAUDT	
		SYSPAUDT	
\$\$CTDPNLA	None	APPSAUDT	Alter
4401211.211		OPERAUDT	11101
		PCSPAUDT	
		SYSPAUDT	
\$\$CTDPNLF	Read	APPSAUDT	Alter
ψψC I DI I I LI	Redu	OPERAUDT	THICI
		PCSPAUDT	
		SYSPAUDT	
\$\$CTDPREFIX	None	APPSAUDT	Alter
***		OPERAUDT	
		PCSPAUDT	
		SYSPAUDT	
\$\$CTDPRF	None	APPSAUDT	Alter
44012111	1,0110	OPERAUDT	11101
		PCSPAUDT	
		SYSPAUDT	
\$\$CTDRRST	None	APPSAUDT	Alter
***		OPERAUDT	
		PCSPAUDT	
		SYSPAUDT	
\$\$DELNOT	None	APPSAUDT	Alter
ψΦΕΕΙ (OI	Tione	OPERAUDT	7 11101
		PCSPAUDT	
		SYSPAUDT	
\$\$DLNASR	None	APPSAUDT	Alter
ψψω ΔΙ 11 ΙΝΙ	Tione	OPERAUDT	7 11001
		PCSPAUDT	
		SYSPAUDT	
\$\$DPC1VIE	Read	APPSAUDT	Alter
ψψωι ΟΙ ΥΙΔ	Read	OPERAUDT	111101

Resource Names	Logging	User Group	Access
		PCSPAUDT	
		SYSPAUDT	
\$\$DPC2FRE	Read	APPSAUDT	Alter
		OPERAUDT	
		PCSPAUDT	
		SYSPAUDT	
\$\$DPC2HLD	None	APPSAUDT	Alter
		OPERAUDT	
		PCSPAUDT	
		SYSPAUDT	
\$\$DPC3DEL	Read	APPSAUDT	Alter
		OPERAUDT	
		PCSPAUDT	
		SYSPAUDT	
\$\$DPC3PRN	Read	APPSAUDT	Alter
, , , , , , , , , , , , , , , , , , , ,		OPERAUDT	
		PCSPAUDT	
		SYSPAUDT	
\$\$DPC4TRN	Read	APPSAUDT	Alter
	Teau	OPERAUDT	111001
		PCSPAUDT	
		SYSPAUDT	
\$\$EDITNO	None	APPSAUDT	Alter
\$\psi_2211\\0	T (SIIC	OPERAUDT	111001
		PCSPAUDT	
		SYSPAUDT	
\$\$EDNASR	None	APPSAUDT	Alter
	rone	OPERAUDT	7 11101
		PCSPAUDT	
		SYSPAUDT	
\$\$EXTENT	None	APPSAUDT	Alter
φψΕ2XTE1V1	rone	OPERAUDT	THICI
		PCSPAUDT	
		SYSPAUDT	
\$\$GIPASR	Read	APPSAUDT	Alter
φοπιτοκ	Keau	OPERAUDT	7 11101
		PCSPAUDT	
		SYSPAUDT	
\$\$GIVETO	Read	APPSAUDT	Alter
ψψΟΙΥΕΙΟ	Kcau	SYSPAUDT	Allei
\$\$IPRASR	Read	APPSAUDT	Alter
φφΠ ΚΑΟΚ	Keau	OPERAUDT	Allei
		PCSPAUDT	
¢¢N4121700	D 1	SYSPAUDT	A 14
\$\$MIS1ZOO	Read	APPSAUDT	Alter

Resource Names	Logging	User Group	Access
		OPERAUDT	
		PCSPAUDT	
		SYSPAUDT	
\$\$MIS1LOG	Read	APPSAUDT	Alter
		OPERAUDT	
		PCSPAUDT	
		SYSPAUDT	
\$\$MIS2FRE	None	APPSAUDT	Alter
		OPERAUDT	
		PCSPAUDT	
		SYSPAUDT	
\$\$MIS2HLD	None	APPSAUDT	Alter
ψΨΙ ΝΙΙ 21122	rene	OPERAUDT	7 11101
		PCSPAUDT	
		SYSPAUDT	
\$\$MIS2RRN	None	APPSAUDT	Alter
φφινιτοΣίαα ν	TVOILE	OPERAUDT	Aitei
		PCSPAUDT	
		SYSPAUDT	
\$\$MIS3CHA	Read	APPSAUDT	Alter
\$\$MISSCHA	Read	OPERAUDT	Aitei
		PCSPAUDT	
		SYSPAUDT	
¢¢MIC2DEI	D and		A 14 a.u.
\$\$MIS3DEL	Read	APPSAUDT	Alter
		OPERAUDT	
		PCSPAUDT	
ΦΦL (IC2DDI	D 1	SYSPAUDT	A 1.
\$\$MIS3PPL	Read	APPSAUDT	Alter
		OPERAUDT	
		PCSPAUDT	
		SYSPAUDT	
\$\$MIS3UPD	Read	APPSAUDT	Alter
		OPERAUDT	
		PCSPAUDT	
		SYSPAUDT	
\$\$PAGI	None	APPSAUDT	Alter
		OPERAUDT	
		PCSPAUDT	
		SYSPAUDT	
\$\$PAGII	None	APPSAUDT	Alter
		OPERAUDT	
		PCSPAUDT	
		SYSPAUDT	
\$\$PAGIII	None	APPSAUDT	Alter
		OPERAUDT	

Resource Names	Logging	User Group	Access
		PCSPAUDT	
		SYSPAUDT	
\$\$PGASRI	None	APPSAUDT	Alter
		OPERAUDT	
		PCSPAUDT	
		SYSPAUDT	
\$\$PGASRII	None	APPSAUDT	Alter
		OPERAUDT	
		PCSPAUDT	
		SYSPAUDT	
\$\$PGASRIII	None	APPSAUDT	Alter
		OPERAUDT	
		PCSPAUDT	
		SYSPAUDT	
\$\$PRTORD	Read	APPSAUDT	Alter
**		OPERAUDT	
		PCSPAUDT	
		SYSPAUDT	
\$\$RCPASR	Read	APPSAUDT	Alter
ΨΨ110111011	Teac	OPERAUDT	11101
		PCSPAUDT	
		SYSPAUDT	
\$\$RDLASR	Read	APPSAUDT	Alter
ψΨΩΕΙ ISIC	Read	OPERAUDT	THICI
		PCSPAUDT	
		SYSPAUDT	
\$\$RECALL	Read	APPSAUDT	Alter
ψιασιασι	Read	OPERAUDT	Titter
		PCSPAUDT	
		SYSPAUDT	
\$\$RECDEL	Read	APPSAUDT	Alter
\$\$RECDEL	Read	SYSPAUDT	Aitei
\$\$RECHEX	None	APPSAUDT	Alter
ψηκΕCIIEA	None	OPERAUDT	Aitei
		PCSPAUDT	
		SYSPAUDT	
¢¢DECINIC	Dood		A 1ton
\$\$RECINS	Read	APPSAUDT SYSPAUDT	Alter
¢¢DECIDD	N T		A 1+ a
\$\$RECIPR	None	APPSAUDT	Alter
		OPERAUDT	
		PCSPAUDT	
¢¢DECDDD	3.7	SYSPAUDT	A 14
\$\$RECRPR	None	APPSAUDT	Alter
		OPERAUDT	
		PCSPAUDT	

Resource Names	Logging	User Group	Access
		SYSPAUDT	
\$\$RECRST	None	APPSAUDT	Alter
		OPERAUDT	
		PCSPAUDT	
		SYSPAUDT	
\$\$RECUPD	None	APPSAUDT	Alter
		OPERAUDT	
		PCSPAUDT	
		SYSPAUDT	
\$\$REPLST	Read	APPSAUDT	Alter
		OPERAUDT	
		PCSPAUDT	
		SYSPAUDT	
\$\$REPORD	None	APPSAUDT	Alter
**		OPERAUDT	
		PCSPAUDT	
		SYSPAUDT	
\$\$RMVASR	Read	APPSAUDT	Alter
φμανί / 1 ω 1	Teac	OPERAUDT	111001
		PCSPAUDT	
		SYSPAUDT	
\$\$RPRASR	None	APPSAUDT	Alter
φια ιστοις	TVOILE	OPERAUDT	Aitei
		PCSPAUDT	
		SYSPAUDT	
\$\$RSTASR	Read	APPSAUDT	Alter
ΨΨΚΟΙΑ	Read	OPERAUDT	Aitei
		PCSPAUDT	
		SYSPAUDT	
\$\$RSTORD	None	APPSAUDT	Alter
φφK31OKD	None	BMC STCs	Aitti
		OPERAUDT	
		PCSPAUDT	
		SYSPAUDT	
\$\$RULONF	None	APPSAUDT	Alter
\$\$KULUNF	None	OPERAUDT	Alter
		PCSPAUDT SYSPAUDT	
\$\$RULSAV	None		Alter
φφινυμολί ν	none	APPSAUDT	Aner
		OPERAUDT	
		PCSPAUDT	
¢¢CECCTD	3.7	SYSPAUDT *	A 14
\$\$SECCTD.qname	None		Alter
\$\$SHNASR	None	APPSAUDT	Alter
		OPERAUDT	

Resource Names	Logging	User Group	Access
		PCSPAUDT	
		SYSPAUDT	
\$\$TREE	None	APPSAUDT	Alter
		OPERAUDT	
		PCSPAUDT	
		SYSPAUDT	
\$\$UNRSTR	Read	APPSAUDT	Alter
		OPERAUDT	
		PCSPAUDT	
		SYSPAUDT	
\$\$UPDASR	Read	APPSAUDT	Alter
		OPERAUDT	
		PCSPAUDT	
		SYSPAUDT	
\$\$UPDNOT	Read	APPSAUDT	Alter
		OPERAUDT	
		PCSPAUDT	
		SYSPAUDT	
\$\$UPNASR	Read	APPSAUDT	Alter
4401111211		OPERAUDT	1 11001
		PCSPAUDT	
		SYSPAUDT	
\$\$UPRASR	Read	APPSAUDT	Alter
44011111211		OPERAUDT	1 11001
		PCSPAUDT	
		SYSPAUDT	
\$\$VEWUPD	None	APPSAUDT	Alter
*** *** *** **** **** **** **** ****	1,0110	OPERAUDT	1 11001
		PCSPAUDT	
		SYSPAUDT	
\$\$VIEASR	None	APPSAUDT	Alter
*** • • • • • • • • • • • • • • • • • •	1,0110	OPERAUDT	1 11001
		PCSPAUDT	
		SYSPAUDT	
\$\$VIEWCO	None	APPSAUDT	Alter
++·		OPERAUDT	
		PCSPAUDT	
		SYSPAUDT	
\$\$VIEWNO	None	APPSAUDT	Alter
++·- 		OPERAUDT	
		PCSPAUDT	
		SYSPAUDT	
\$\$VWNASR	None	APPSAUDT	Alter
ψψ τ 111111011	Tione	OPERAUDT	7 11001
		PCSPAUDT	

Resource Names	Logging	User Group	Access
		SYSPAUDT	

Table 11-3: BMC Control-M Resources

Referenced by: ZCTM0020

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

Resource Names	Logging	User Group	Access
		SYSPAUDT	
\$\$JOB2FOK	None	OPERAUDT	Alter
		PCSPAUDT	
		PRODAUDT	
		SYSPAUDT	
\$\$JOB2FRE	None	OPERAUDT	Alter
		PCSPAUDT	
		PRODAUDT	
		SYSPAUDT	
\$\$JOB2HLD	None	OPERAUDT	Alter
		PCSPAUDT	
		PRODAUDT	
		SYSPAUDT	
\$\$JOB2RRN	None	OPERAUDT	Alter
		PCSPAUDT	
		PRODAUDT	
		SYSPAUDT	
\$\$JOB3CHA	None	OPERAUDT	Alter
		PCSPAUDT	
		PRODAUDT	
		SYSPAUDT	
\$\$JOB3DEL	None	OPERAUDT	Alter
		PCSPAUDT	
		PRODAUDT	
		SYSPAUDT	
\$\$JOB3EDI	None	OPERAUDT	Alter
		PCSPAUDT	
		PRODAUDT	
		SYSPAUDT	
\$\$JOB3KIL	None	OPERAUDT	Alter
		PCSPAUDT	
		PRODAUDT	
		SYSPAUDT	
\$\$JOB3PRI.	None	OPERAUDT	Alter
		PCSPAUDT	
		PRODAUDT	
		SYSPAUDT	
\$\$JOBORD	None	OPERAUDT	Alter
		PCSPAUDT	
		PRODAUDT	
		SYSPAUDT	
\$\$JOBORD.qname.userid	None	APPBAUDT	Read
\$\$REFALL	None	OPERAUDT	Alter
		PCSPAUDT	
		PRODAUDT	

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

Table 11-4: BMC Control-O Resources

Referenced by: ZCTO0020

Resource Names	Logging	User Group	Access
\$\$CTOAOP	Read	OPERAUDT	Alter
		PCSPAUDT	
		PRODAUDT	
		SYSPAUDT	
\$\$CTOASK	None	OPERAUDT	Alter
		PCSPAUDT	
		PRODAUDT	
		SYSPAUDT	
\$\$CTOCMD	Read	OPERAUDT	Alter
		PCSPAUDT	
		PRODAUDT	
		SYSPAUDT	
\$\$CTOCMO	None	OPERAUDT	Alter
		PCSPAUDT	

Resource Names	Logging	User Group	Access
		PRODAUDT	
		SYSPAUDT	
\$\$CTODOM	None	OPERAUDT	Alter
		PCSPAUDT	
		PRODAUDT	
		SYSPAUDT	
\$\$CTODRL	None	OPERAUDT	Alter
		PCSPAUDT	
		PRODAUDT	
		SYSPAUDT	
\$\$CTODSN	None	OPERAUDT	Alter
		PCSPAUDT	
		PRODAUDT	
		SYSPAUDT	
\$\$CTODSP	None	OPERAUDT	Alter
44010221	1 (811)	PCSPAUDT	
		PRODAUDT	
		SYSPAUDT	
\$\$CTOEDM	None	OPERAUDT	Alter
ψψeTelbivi	Ttolle	PCSPAUDT	7 11101
		PRODAUDT	
		SYSPAUDT	
\$\$CTOENV	None	OPERAUDT	Alter
ψCICLIV	TVOILE	PCSPAUDT	Titter
		PRODAUDT	
		SYSPAUDT	
\$\$CTOJAR	None	OPERAUDT	Alter
φψCTOJAK	None	PCSPAUDT	Aitti
		PRODAUDT	
		SYSPAUDT	
\$\$CTOJED	None	OPERAUDT	Alter
\$\$CIOJED	None	PCSPAUDT	Aitti
		PRODAUDT	
		SYSPAUDT	
\$\$CTOJSO	None	OPERAUDT	Alter
\$\$C10330	None	PCSPAUDT	Altel
		PRODAUDT	
		SYSPAUDT	
\$\$CTOJST	None	+	Alton
φφC1OJS1	none	OPERAUDT	Alter
		PCSPAUDT	
		PRODAUDT	
ффстоиси	3.7	SYSPAUDT	A 1.
\$\$CTOKSL	None	OPERAUDT	Alter
		PCSPAUDT	
		PRODAUDT	

Resource Names	Logging	User Group	Access
		SYSPAUDT	
\$\$CTOMSG	None	OPERAUDT	Alter
		PCSPAUDT	
		PRODAUDT	
		SYSPAUDT	
\$\$CTOONC	None	OPERAUDT	Alter
		PCSPAUDT	
		PRODAUDT	
		SYSPAUDT	
\$\$CTOONM	None	OPERAUDT	Alter
		PCSPAUDT	
		PRODAUDT	
		SYSPAUDT	
\$\$CTOONP	None	OPERAUDT	Alter
		PCSPAUDT	
		PRODAUDT	
		SYSPAUDT	
\$\$CTOORD	Read	OPERAUDT	Alter
		PCSPAUDT	
		PRODAUDT	
		SYSPAUDT	
\$\$CTOORL	None	OPERAUDT	Alter
		PCSPAUDT	
		PRODAUDT	
		SYSPAUDT	
\$\$CTOPCM	None	OPERAUDT	Alter
		PCSPAUDT	
		PRODAUDT	
		SYSPAUDT	
\$\$CTOPKS	None	OPERAUDT	Alter
		PCSPAUDT	
		PRODAUDT	
		SYSPAUDT	
\$\$CTOPNLOS	None	OPERAUDT	Alter
		PCSPAUDT	
		SYSPAUDT	
\$\$CTOPRC	Read	OPERAUDT	Alter
		PCSPAUDT	
		PRODAUDT	
		SYSPAUDT	
\$\$CTOPTS	Read	OPERAUDT	Alter
		PCSPAUDT	
		PRODAUDT	
		SYSPAUDT	
\$\$CTORES	None	OPERAUDT	Alter
ψψΟΙΟΙΝΙΙΙ	TVOIC	OLLIMODI	111101

Resource Names	Logging	User Group	Access
		PCSPAUDT	
		PRODAUDT	
		SYSPAUDT	
\$\$CTORTS	Read	OPERAUDT	Alter
		PCSPAUDT	
		PRODAUDT	
		SYSPAUDT	
\$\$CTORUL	None	OPERAUDT	Alter
		PCSPAUDT	
		PRODAUDT	
		SYSPAUDT	
\$\$CTOSET	None	OPERAUDT	Alter
ψΦ105Ε1	110116	PCSPAUDT	7 11101
		PRODAUDT	
		SYSPAUDT	
\$\$CTOSRL	None	OPERAUDT	Alter
φφe i OSKL	None	PCSPAUDT	Aitei
		PRODAUDT	
		SYSPAUDT	
\$\$CTOSRQ	None	OPERAUDT	Alter
\$\$CIOSKQ	None	PCSPAUDT	Aitei
		PRODAUDT	
		SYSPAUDT	
¢¢CTCCTD	Nana		A 14 a m
\$\$CTOSTP	None	OPERAUDT	Alter
		PCSPAUDT	
		PRODAUDT	
ффотосир	NT.	SYSPAUDT	A 1.
\$\$CTOSUP	None	OPERAUDT	Alter
		PCSPAUDT	
		PRODAUDT	
AA CITI O TITO O		SYSPAUDT	
\$\$CTOTSO	Read	OPERAUDT	Alter
		PCSPAUDT	
		PRODAUDT	
		SYSPAUDT	
\$\$CTOXAM	Read	OPERAUDT	Alter
		PCSPAUDT	
		PRODAUDT	
		SYSPAUDT	
\$\$CTOXAM.qname.TYPE1INI	Read	OPERAUDT	Alter
		PCSPAUDT	
		PRODAUDT	
		SYSPAUDT	
\$\$CTOXAM.qname.TYPE1RSL	Read	OPERAUDT	Alter
-		PCSPAUDT	

Resource Names	Logging	User Group	Access
		PRODAUDT	
		SYSPAUDT	
\$\$CTOXAM.qname.TYPE1TRM	Read	OPERAUDT	Alter
1		PCSPAUDT	
		PRODAUDT	
		SYSPAUDT	
\$\$CTOXAM.qname.TYPE2LOC	Read	OPERAUDT	Alter
1		PCSPAUDT	
		PRODAUDT	
		SYSPAUDT	
\$\$CTOXAM.qname.TYPE3GLB	Read	OPERAUDT	Alter
1 + + 1		PCSPAUDT	
		PRODAUDT	
		SYSPAUDT	
\$\$CTOXAM.qname.TYPE3RUL	Read	OPERAUDT	Alter
φφετοτα πνηφιαπιο. Τ ΤΙ ΕστεσΕ	read	PCSPAUDT	7 11101
		PRODAUDT	
		SYSPAUDT	
\$\$CTOXAMF	Read	OPERAUDT	Alter
φφC I O2X/AIVII	Read	PCSPAUDT	Aitei
		PRODAUDT	
		SYSPAUDT	
\$\$IOARES	None	OPERAUDT	Alter
\$\phi OAKLS	None	PCSPAUDT	Aitti
		PRODAUDT	
		SYSPAUDT	
\$\$RUL1LOG	None	OPERAUDT	Alter
\$\$KOL1LOG	None	PCSPAUDT	Alter
		PRODAUDT	
		SYSPAUDT	
\$\$RUL1ZOO	None	OPERAUDT	Alter
	None	PCSPAUDT	Alter
		PRODAUDT	
		SYSPAUDT	
¢¢DIII 2EDE	None		Alter
\$\$RUL2FRE	none	OPERAUDT	Alter
		PCSPAUDT	
		PRODAUDT	
¢¢DIII 2III D	None	SYSPAUDT	A lta:
\$\$RUL2HLD	None	OPERAUDT	Alter
		PCSPAUDT	
		PRODAUDT	
AADIH OLGO	27	SYSPAUDT	4.1.
\$\$RUL2MOD	None	OPERAUDT	Alter
		PCSPAUDT	
		PRODAUDT	

Resource Names	Logging	User Group	Access
		SYSPAUDT	
\$\$RUL2RES	None	OPERAUDT	Alter
		PCSPAUDT	
		PRODAUDT	
		SYSPAUDT	
\$\$RUL3CAN	Read	OPERAUDT	Alter
		PCSPAUDT	
		PRODAUDT	
		SYSPAUDT	
\$\$RUL3DEL	Read	OPERAUDT	Alter
		PCSPAUDT	
		PRODAUDT	
		SYSPAUDT	
\$\$SECCTO.qname	None	*	Alter

Table 11-5: BMC INCONTROL Resources Description

Resource Names	Description
\$\$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.

Resource Names	Description
\$\$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.
\$\$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.

Resource Names	Description
\$\$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.
\$\$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.

Resource Names	Description
\$\$IOADIR	Dir User Dataset.
\$\$IOAEDM	Extended Definition mode permits enhanced
ΨΨ1 0 1 122 111	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.
\$\$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.
\$\$JOBORD.qname.userid	Order a job for a specific Environment
\$\$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.

Resource Names	Description
\$\$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.
\$\$RECHEX	View the report in hexadecimal format.
\$\$RECINS	Insert a record.
\$\$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.
\$\$REPORD	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.

Resource Names	Description
\$\$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.
\$\$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 11-6: 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

CA 1 Command Resources			
RESOURCE NAME	LEGITIMATE USER	ACCESS LEVEL	LOG
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
LORETAIN	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; users requiring update authority for command processing and System Programmer	READ	N

Table 11-7: 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
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

CA 1 Function and Password Resources			
RESOURCE NAME	LEGITIMATE USER	ACCESS LEVEL	LOG
Password	Users requiring access to CA 1 on-line applications for tape data set processing	READ	N
	Note: Multiple passwords are available providing different levels of CA 1 functionality ranging from general user to tape librarian.		
REINIT	Operations staff and systems personnel responsible for supporting CA 1	READ	N
ВАТСН	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. The users for L0UPDTE may include off-siter personnel who require ability maintain applications.

11.3.1 ACF2 Tables

Table 11-8: 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
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 11-9: 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
CAT	password	CA 1 internal password used to access CA 1 on-line applications
		Note : A rule is written for each available password, including default passwords.
CAT	REINIT	TMSINIT re-initialization
CAT	ВАТСН	TMSINIT batch status
CAT	DEACT	TMSINIT deactivation

11.3.2 RACF Tables

Table 11-10: 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 11-11: 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	
RDEFINE CA@APE (YSVCUNCD) 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	

CA 1 Function and Password Resources for RACF		
RACF COMMAND	DESCRIPTION	
RDEFINE CA@APE (FORNORES) UACC(NONE)	Foreign tape undefined to CA 1	
RDEFINE CA@APE (password) UACC(NONE)	CA 1 internal password used to access CA 1 on-line applications	
	Note : 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 11-12: CA 1 Command Resources for TSS

Used by: ZCA10020

CA 1 Command Resources for TSS		
TOP SECRET COMMAND	DESCRIPTION	
TSS ADD(dept-acid) CACMD(L0CLEAN)	On-line command CLEAN	
TSS ADD(dept-acid) CACMD(L0EXTEND)	On-line command EXTEND	
TSS ADD(dept-acid) CACMD(L0EXPIRE)	On-line command EXPIRE	
TSS ADD(dept-acid) CACMD(L0RETAIN)	On-line command RETAIN	
TSS ADD(dept-acid) CACMD(L0DELETE)	On-line command DELETE	
TSS ADD(dept-acid) CACMD(L0ADD)	On-line command ADD	
TSS ADD(dept-acid) CACMD(L0CHECKI)	On-line command CHECKIN	
TSS ADD(dept-acid) CACMD(L0CHECKO)	On-line command CHECKOUT	
TSS ADD(dept-acid) CACMD(L0ERASE)	On-line command ERASE	
TSS ADD(dept-acid) CACMD(L0SCRATC)	On-line command SCRATCH	
TSS ADD(dept-acid) CACMD(L0UPDTE)	On-line command UPDATE	

Table 11-13: 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(dept-acid) CACMD(L0CLEAN)	On-line command CLEAN	
TSS ADD(dept-acid) CATAPE(YSVCCOND)	Y SVC conditional access	
TSS ADD(dept-acid) CATAPE(YSVCUNCD)	Y SVC unconditional access	
TSS ADD(dept-acid) CATAPE(NLRES)	Non-label tape defined to CA 1	
TSS ADD(dept-acid) CATAPE(NLNORES)	Non-label tape undefined to CA 1	
TSS ADD(dept-acid) CATAPE(NSLRES)	Non-standard label tape defined to CA 1	
TSS ADD(dept-acid) CATAPE(NSLNORES)	Non-standard label tape undefined to CA 1	
TSS ADD(dept-acid) CATAPE(BLPRES)	Bypass label processing for a tape defined to CA 1	
TSS ADD(dept-acid) CATAPE(BLPNORES)	Bypass label processing for a tape undefined to CA 1	
TSS ADD(dept-acid) CATAPE(FORRES)	Foreign tape defined to CA 1	
TSS ADD(dept-acid) CATAPE(FORNORES)	Foreign tape undefined to CA 1	
TSS ADD(dept-acid) CATAPE(password)	CA 1 internal password used to access CA 1 on-line applications	
	Note : A rule is written for each available password.	
TSS ADD(dept-acid) CATAPE(REINIT)	TMSINIT re-initialization	
TSS ADD(dept-acid) CATAPE(BATCH)	TMSINIT batch status	
TSS ADD(dept-acid) CATAPE(DEACT)	TMSINIT deactivation	

11.4 CATALOG SOLUTIONS Requirements

Table 11-14: 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.

READ Resource Names	Related Command/Keyword
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

READ Resource Names	Related Command/Keyword
hlq1.hlq2.READ.DIAGNOSE.CVC	DIAGNOSE/TEST=CVC or
	DIAGNOSE/TEST=CHECK-VVDS-
	CATALOGS
hlq1.hlq2.READ.DIAGNOSE.DDA	DIAGNOSE/TEST=DDA or
mqr.mqz.rezr.rs.rs.rsr.vs.zs.rs	DIAGNOSE/TEST=DELETE-DEAD-ALIAS
hlq1.hlq2.READ.DIAGNOSE.DS	DIAGNOSE/TEST=DS or
mq1.mq2.rch1b.b11101105E.b5	DIAGNOSE/TEST=DATA-STRUCTURE
hlq1.hlq2.READ.DIAGNOSE.GADB	DIAGNOSE/TEST=GADB or
mq1.mq2.READ.DIAGNOSE.GADB	DIAGNOSE/TEST=GENERATE-AMS-DIAG-
	BCS
hlq1.hlq2.READ.DIAGNOSE.GADV	DIAGNOSE/TEST=GADV or
mq1.mq2.READ.DIAGNOSE.GADV	DIAGNOSE/TEST=GENERATE-AMS-DIAG-
	VVDS
hlq1.hlq2.READ.DIAGNOSE.GDC	DIAGNOSE/TEST=GDC or
mq1.mq2.READ.DIAGNOSE.GDC	DIAGNOSE/TEST=GDC of DIAGNOSE/TEST=GENERATE-DELETE-
	CARD
hlq1.hlq2.READ.DIAGNOSE.GDIAG3C	DIAGNOSE/TEST=GDIAG3C or
iliq1.lilq2.READ.DIAGNOSE.GDIAGSC	DIAGNOSE/TEST=GDIAG3C 01 DIAGNOSE/TEST=GENERATE-DIAG3-
	CARD
hlq1.hlq2.READ.DIAGNOSE.GDLN	DIAGNOSE/TEST=GDLN or
mq1.mq2.READ.DIAGNOSE.GDEN	DIAGNOSE/TEST=GDEN 01 DIAGNOSE/TEST=GENERATE-DELETE-
	NONVSAM
hlq1.hlq2.READ.DIAGNOSE.GDN	DIAGNOSE/TEST=GDN or
IIIq1.IIIq2.READ.DIAGNOSE.GDN	DIAGNOSE/TEST=GENERATE-DEFINE-
	NONVSAM
hlq1.hlq2.READ.DIAGNOSE.GRC	DIAGNOSE/TEST=GRC or
mq1.mq2.READ.DIAGNOSE.GRC	DIAGNOSE/TEST=GREE of DIAGNOSE/TEST=GENERATE-
	RECATALOG-CARD
hlq1.hlq2.READ.DIAGNOSE.GUL	DIAGNOSE/TEST=GUL or
mq1.mq2.READ.DIAGNOSE.GCE	DIAGNOSE/TEST=GELOI DIAGNOSE/TEST=GENERATE-UNCAT-
	LIST
hlq1.hlq2.READ.DIAGNOSE.GVC	DIAGNOSE/TEST=GVC or
mq1.mq2.READ.DIAGNOSE.GVC	DIAGNOSE/TEST=GENERATE-VERIFY-
	CARD
hlq1.hlq2.READ.DIAGNOSE.IS	DIAGNOSE/TEST=IS or
mq1.mq2.NL/1D.DI/1ONOSL.1S	DIAGNOSE/TEST=IS 01 DIAGNOSE/TEST=INDEX-STRUCTURE
hlq1.hlq2.READ.DIAGNOSE.LA	DIAGNOSE/TEST=INDEX-STRUCTURE DIAGNOSE/TEST=LA or
mq1.mq2.NLAD.DIAONOSE.LA	DIAGNOSE/TEST=LA 01 DIAGNOSE/TEST=LIST-ASSOCIATIONS
hlq1.hlq2.READ.DIAGNOSE.VCE	DIAGNOSE/TEST=LIST-ASSOCIATIONS DIAGNOSE/TEST=VCE or
mq1.mq2.NLAD.DIAGNOSE. VCE	DIAGNOSE/TEST=VCE of DIAGNOSE/TEST=VERIFY-CATALOG-
	ENTRIES
hlq1.hlq2.READ.DIAGNOSE.VV	DIAGNOSE/TEST=VV or
mq1.mq2.NLAD.DIAGNOSE. V V	DIAGNOSE/TEST=VV of DIAGNOSE/TEST=VTOC-VVDS
hla1 hla2 READ DIAGNOSE VVC	
mq1.mq2.ttm.Dn101105b. v v C	
hlq1.hlq2.READ.DIAGNOSE.VVC	DIAGNOSE/TEST=VVC or DIAGNOSE/TEST=VVCM-VVCN-CHECK

READ Resource Names	Related Command/Keyword
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.

UPDATE Resource Names	Related Command/Keyword
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
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 11-15: Category 1 Transactions for CICS TS 4.1 - 5.3

This transaction must be restricted to CICS regions only.

Referenced	by: ZCIC0	020					
CATA	CATD	CDBD	CDBF	CDBO	CDBQ	CDTS	CEPD
CEPF	CEPM	CESC	CEX2	CFCL	CFCR	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
CPIR	CPIS	CPLT	CRLR	CRMD	CRMF	CRSQ	CRST
CPCT	CRSY	CRTP	CSFR	CSFU	CSHA	CSHQ	CSKP
CSNC	CSNE	CSOL	CSPQ	CSQC	CSSY	CSTE	CSTP
CSZI	CWBG	CWXN	CWXU	CXCU	CXRE		

Table 11-16: Category 2 Transactions for CICS TS 4.1 - 5.3

Referenced by: ZCIC0020

Transaction	User Group	Access	Logging
CADP	SYSPAUDT	Read	Y
	APPDAUDT		
CBAM	SYSPAUDT	Read	
	OPERAUDT		
CCRL	SYSPAUDT	Read	Y
CDBC	SYSPAUDT	Read	Y
	DABAAUDT		
CDBI	SYSPAUDT	Read	Y
	DABAAUDT		
CDBM	SYSPAUDT	Read	Y
	DABAAUDT		
	INQUIRE		
CDBT	SYSPAUDT	Read	Y
	APPDAUDT		
	DABAAUDT		
CDFS	SYSPAUDT	Read	
	INTERCOM		
CDST	SYSPAUDT	Read	Y
CEBR	SYSPAUDT	Read	Y
	APPDAUDT		
CEBT see Notes	SYSPAUDT	Read	Y
CECI	APPDAUDT	Read	Y
	SYSPAUDT		
CECS	SYSPAUDT	Read	Y
	APPDAUDT		
CEDA	SYSPAUDT	Read	Y
CEDB	SYSPAUDT	Read	Y
CEDC see Notes	SYSPAUDT	Read	
	INQUIRE		

Transaction	User Group	Access	Logging
	APPDAUDT		
CEDF	SYSPAUDT	Read	Y
	APPDAUDT		
CEDX	SYSPAUDT	Read	Y
	APPDAUDT		
СЕНР	SYSPAUDT	Read	
	INTERCOM		
CEHS	SYSPAUDT	Read	
	INTERCOM		
CEKL	SYSPAUDT	Read	Y
CEMN	SYSPAUDT	Read	Y
CEMT see Notes	SYSPAUDT	Read	Y
CEOT	SYSPAUDT	Read	
	OPERAUDT		
СЕРН	SYSPAUDT	Read	
	EVENTUSER		
CEPQ	SYSPAUDT	Read	
	EVENTUSER		
CEPS	SYSPAUDT	Read	
	EVENTUSER		
CEPT	SYSPAUDT	Read	
	EVENTUSER		
CESD	SYSPAUDT	Read	Y
CEST	SYSPAUDT	Read	
	OPERAUDT		
CETR	SYSPAUDT	Read	Y
	APPDAUDT		
CHLP (alias for	*	Read	
CMAC)			
CIDP	SYSPAUDT	Read	Y
	OPERAUDT		
CIND	SYSPAUDT	Read	Y
CIRP	IIOPUSER	Read	
CMAC	*	Read	
CJSA	WEBUSER	Read	
	CICSDEF		
CMSG	SYSPAUDT	Read	
	OPERAUDT		
CLDM	SYSPAUDT	Read	
	PIPEUSER		
CPIA	SYSPAUDT	Read	
	PIPEUSER		
CPIH	SYSPAUDT	Read	
	PIPEUSER		

Transaction	User Group	Access	Logging
CPIL	SYSPAUDT	Read	
	PIPEUSER		
CPIQ	SYSPAUDT	Read	
	PIPEUSER		
CPMI	SYSPAUDT	Read	
	INTERCOM		
CREA	SYSPAUDT	Read	
CREC	SYSPAUDT	Read	
	INQUIRE		
CRPA	SYSPAUDT	Read	
	RPCUSER		
CRPC	SYSPAUDT	Read	
	RPCUSER		
CRPM	SYSPAUDT	Read	
	RPCUSER		
CRTE	SYSPAUDT	Read	
	APPDAUDT		
	OPERAUDT		
CRTX	*	Read	
CSFE	SYSPAUDT	Read	
	OPERAUDT		
CSGM	*	Read	
CSHR	SYSPAUDT	Read	
	INTERCOM		
CSM1	SYSPAUDT	Read	
	INTERCOM		
CSM2	SYSPAUDT	Read	
	INTERCOM		
CSM3	SYSPAUDT	Read	
	INTERCOM		
CSM5	SYSPAUDT	Read	
	INTERCOM		
CSMI	SYSPAUDT	Read	
	INTERCOM		
CTIN	SYSPAUDT	Read	
	INTERCOM		
CVMI	SYSPAUDT	Read	
	INTERCOM		
CWBA	WEBUSER	Read	
	CICSDEF		
CWWU	WEBUSER	Read	
CW2A	WEBUSER	Read	
CWTO	SYSPAUDT	Read	
	OPERAUDT		

Transaction	User Group	Access	Logging
DSNC	SYSPAUDT	Read	
	OPERAUDT		
CK**	SYSPAUDT	Read	
	MQSAAUDT		

Note:

- 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 ISSO/ISSM

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 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:

- The terminal user running the application must be authorized to use the mirror transaction.
- The terminal user must also be authorized to use the data that the mirror transaction accesses.

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 11-17: Category 3 Transactions for CICS TS 4.1 - 5.3

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

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

Table 11-18: 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 ESM 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 allinclusive.)

TRANSACTION	DESCRIPTION
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 11-19: 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 (use only
	with test or development regions)

SHRPRF	Allows a copy of the profile to be shared by all users in the multiuser facility.
	ý .
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 Section 8.2.3.4, CICS User Controls) provides a
	more efficient method for managing idle time.
XTRAN=YES	Transaction checking is performed.

Table 11-20: ACF2/CICS Parameters

Referenced by: ZCICA023

PARAMETER	KEYWORD(S)	DESCRIPTION
CICSKEY*	OPTION=VALIDATE, TYPE=ttt,** RESOURCE=TRANS	The CICSKEY parameter establishes CA-ACF2 CICS control over a CICS resource.
DEFAULT	Terminal= < parameter > Nonterminal = < parameter >	Ensures that every CICS task has a valid user identified.
EXIT	MROIN MROOUT	In normal operations, you would not use these exits. However if either of these exits are used they must follow the same guidelines as MVSEXIT described in AAMV0450.
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

PARAMETER	KEYWORD(S)	DESCRIPTION
SIGNON	ENQSCOPE =NONE***	Multiple sign-on within the same CICS region (use only with test or development regions)
	ENQSCOPE=CICS***	
		Single sign-on within the same CICS region
	QUICK=NO	5. 11
		Disallows quick sign-on format, which enables the user to enter the password in clear text at the same time as the logonid is
	REQUIRE=YES	entered.
		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.
		Suspends users during resource validation if
	RULE=YES	the CA-ACF2 violation count reaches the
		established threshold.
VERIFY	IDLE=YES	Re-verify password after terminal idle time is
	IDLE=NO See Note	exceeded.
MRO	TRANSMIT=YES RECEIVE=YES	This assures that logonid inheritance is performed.
	KECEIVE-IES	periorineu.

^{*}At a minimum, enforce transaction-level protection.

Note: IDLE=NO can be specified if mixed case passwords are being used.

Table 11-21: 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	

^{**}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.

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.

|--|

JOB NAME	LOGONID/ACID USERID	REGION TYPE	CICS VERSION	OPERATIONAL FUNCTION

Table 11-22: CICS SPI Resources Table

Referenced by: ZCICA021, ZCICR021, ZCICT021

Resource/TSS Resource	Command	Access	Users
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
CFDTPOOL/CFDTPOOL	CFDTPOOL	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
			CICSAUDT
DB2CONN/DB2CONN	DB2CONN	Read	OPERAUDT
			CICUAUDT

Resource/TSS Resource	Command	Access	Users
			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	DELETSHIPPED	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
ENQMODEL/ENQMODEL	ENQMODEL	Read	CICUAUDT
		ALTER	SYSCAUDT
			CICSAUDT
EVENTBINDING/EVENTBIN	EVENTBINDING	READ	CICUAUDT
		UPDATE	SYSCAUDT

Resource/TSS Resource	Command	Access	Users
			CICSAUDT
EVENTPROCESS/ EVENTPRO	EVENTPROCESS	Read	CICUAUDT
		UPDATE	SYSCAUDT
			CICSAUDT
EXCI/EXCI	EXCI	READ	SYSCAUDT
			CICSAUDT
			CICUAUDT
EXITPROGRAM/EXITPROG	EXITPROGRAM	UPDATE	CICSAUDT
			CICUAUDT
			OPERAUDT
			SYSCAUDT
FECONNECTION/FEPIRESO	FECONECTION	READ	NONE
		UPDATE	SYSCAUDT
			CICSAUDT
			CICBAUDT
			OPERAUDT
			CICUAUDT
FENODE/FEPIRESO	FENODE	READ	NONE
		UPDATE	SYSCAUDT
			CICSAUDT
			CICBAUDT
			OPERAUDT
			CICUAUDT
FEPOOL/FEPIRESO	FEPOOL	READ	NONE
		UPDATE	SYSCAUDT
			CICSAUDT
			CICBAUDT
			OPERAUDT
			CICUAUDT
FEPROPSET/FEPIRESO	FEPROSET	READ	NONE
		UPDATE	SYSCAUDT
			CICSAUDT
			CICBAUDT
			OPERAUDT
			CICUAUDT
FETARGET/FEPIRESO	FETARGET	READ	NONE
		UPDATE	SYSCAUDT
			CICSAUDT
			CICBAUDT
			OPERAUDT
			CICUAUDT
FILE/FILE	FILE	READ	ALL
		UPDATE	CICBAUDT
			OPERAUDT
			CICUAUDT

Resource/TSS Resource	Command	Access	Users
			APPDAUDT*
		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/JOURNALM	JOURNALMODEL	READ	CICUAUDT
		ALTER	SYSCAUDT
			CICSAUDT
JOURNALNAME/JOURNALN	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	LIBRARY	READ	CICUAUDT
			CICDAUDT
		ALTER	SYSCAUDT
A CORPORATION OF THE CORPORATION	Y anno a i		CICSAUDT
LSRPOOL/LSRPOOL	LSRPOOL	ALTER	SYSCAUDT
	76175		CICSAUDT
MAPSET/MAPSET	MAPSET	ALTER	SYSCAUDT
			CICSAUDT
MODENAME/MODENAME	MODENAME	READ	CICUAUDT
		UPDATE	SYSCAUDT

Resource/TSS Resource	Command	Access	Users
			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/PROCESST	PROCESSTYPE	READ	CICUAUDT
		ALTER	SYSCAUDT
			CICSAUDT
PROFILE/PROFILE	PROFILE	READ	CICUAUDT
		ALTER	SYSCAUDT
			CICSAUDT
PROGRAM/PROGRAM	PROGRAM	READ	CICBAUDT
			CICDAUDT
		UPDATE	OPERAUDT
			CICUAUDT
			APPDAUDT*
		ALTER	SYSCAUDT

Resource/TSS Resource	Command	Access	Users
			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
	CT A TICTION	DEAD	CICUAUDT
STATISTICS/STATISTI	STATISTICS	READ	NONE
		UPDATE	SYSCAUDT
			CICSAUDT
STORAGE/STORAGE	STOD A CE	READ	CICUAUDT
STORAGE/STORAGE	STORAGE	KEAD	SYSCAUDT CICSAUDT
			CICSAUDT
STREAMNAME/STREAMNA	STREAMNAME	READ	SYSCAUDT
STREAMINAME/STREAMINA	STREAMNAME	KLAD	CICSAUDT
			CICUAUDT
SUBPOOL/SUBPOOL	SUBPOOL	READ	SYSCAUDT
SCBI CCE, SCBI CCE	SCBICCE	TCL/ TD	CICSAUDT
			CICUAUDT
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

Resource/TSS Resource	Command	Access	Users
			CICUAUDT
TCLASS/TCLASS	TRANCLASS	READ	CICUAUDT
		UPDATE	SYSCAUDT
			CICSAUDT
TCPIP/TCPIP	TCPIP	READ	CICUAUDT
			CICDAUDT
		UPDATE	SYSCAUDT
			CICSAUDT
TCPIPSERVICE/TCPIPSER	TCPIPSERVICE	READ	CICUAUDT
			CICDAUDT
		ALTER	SYSCAUDT
			CICSAUDT
TDQUEUE/TDQUEUE	TDQUEUE	READ	OPERAUDT
			CICUAUDT
			CICDAUDT
		UPDATE	SYSCAUDT
			CICSAUDT
TEMPSTORAGE	TEMPSTORAGE	READ	CICUAUDT
		UPDATE	CICSAUDT
			SYSCAUDT
TERMINAL/TERMINAL	TERMINAL	READ	CICDAUDT
		UPDATE	CICBAUDT
			OPERAUDT
			CICUAUDT
		ALTER	SYSCAUDT
			CICSAUDT
TRANDUMPCODE/TRANDUMP	TRANDUMPCODE	READ	CICUAUDT
			CICDAUDT
		UPDATE	SYSCAUDT
			CICSAUDT
TRANSACTION/TRANSACT	TRANSACTION	READ	CICDAUDT
		UPDATE	OPERAUDT
			CICUAUDT
			APPDAUDT*
		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

Resource/TSS Resource	Command	Access	Users
			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
			CICSAUDT
WEBSERVICE/WEBSERVI	WEBSERVICE	READ	NONE
		ALTER	SYSCAUDT
			CICSAUDT

Resource/TSS Resource	Command	Access	Users
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

APPDAUDT Application Development Programmers

Table 11-23: CICS SPI Resource Descriptions Table

Referenced by: ZCICA021, ZCICR021, ZCICT021

COMMAND	Description
ASSOCIATION	Association of information for a specified task
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.

COMMAND	Description
BUNDLE	A BUNDLE resource in the local CICS region
CAPTURESPEC	Information about a capture specification
CFDTPOOL	Information about a capture specification 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
DDATE AND	group of transactions when accessing DB2
DB2TRAN	A DB2TRAN associated with a DB2ENTRY
DELETSHIPPED	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
FECONECTION	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
H COLUL	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
JOURNALNAME	A journal name
JVM	JVMs in a CICS region
JVMPOOL	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
MODELMANIE	Sessions in an 1 i C Session group

COMMAND	Description
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
11121111	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
TEL QUESTINIO DE L	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 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

COMMAND	Description
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 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 11-24: WebSphere MQ Command Security Controls

Referenced by: ZWMQ0059

COMMAND	PROFILE	ACCESS LEVEL	AUTHORIZED USERS	LOG
ALTER xxxxx	ssid.ALTER.xxxxx	ALTER	MQ administrator	Y
			Systems programmers	
			Queue managers	

COMMAND	PROFILE	ACCESS LEVEL	AUTHORIZED USERS	LOG
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 xxxxx	ssid.DEFINE.xxxxx	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 xxxxx	ssid.DELETE.xxxxx	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
DISPLAY xxxxx	ssid.DISPLAY.xxxxx	READ	Auditors Application programmers MQ administrator Systems programmers Queue manager Operators Console automation software	N

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

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

11.7 Web Application Server Requirements

Table 11-25: WAS HFS Permission Bits

Referenced by:ZWAS0020

IHS VENDOR SERVER SOFTWARE HFS OBJECT SECURITY SETTINGS						
DIRECTORY or FILE	PERMISSION BITS	USER AUDIT BITS	OWNER	GROUP		
/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		

IHS LOCAL SERVER STANDARD HFS OBJECT SECURITY SETTINGS					
DIRECTORY or FILE	PERMISSION BITS	USER AUDIT BITS	OWNER	GROUP	
/websrv1_root/	555	fff	websrv1	webadmg1	
/websrv1_root/Admin	550	fff	websrv1	webadmg1	
/websrv1_root/admin-bin	550	fff	websrv1	webadmg1	
/websrv1_root/cgi-bin	551	fff	websrv1	webadmg1	
/websrv1_root/fcgi-bin	550	fff	websrv1	webadmg1	
/websrv1_root/pub	555	fff	websrv1	webadmg1	

IHS LOCAL SERVER CONFIGURATION HFS OBJECT SECURITY SETTINGS					
DIRECTORY or FILE	PERMISSION BITS	USER AUDIT BITS	OWNER	GROUP	
/etc/websrv1/httpd.conf	460	faf	websrv1	webadmg1	
/etc/websrv1/httpd.envvars	564	faf	websrv1	webadmg1	
/etc/websrv1/mvsds.conf	460	faf	websrv1	webadmg1	

IHS LOCAL SERVER LOG HFS OBJECT SECURITY SETTINGS					
DIRECTORY or FILE	PERMISSION BITS	USER AUDIT BITS	OWNER	GROUP	
/websrv1_root/logs	750	fff	websrv1	webadmg1	
/websrv1_root/logs/httpd-log	750	fff	websrv1	webadmg1	
/websrv1_root/logs/httpd-	750	fff	websrv1	webadmg1	
errors					
/websrv1_root/logs/cgi-error	750	fff	websrv1	webadmg1	

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

Table 11-26: SDSF SAF Resources

Referenced by: ZISF0020

Resource Name	User Group	Access	Logging
GROUP.**	*	NONE	
GROUP.group-name.server-name	Dependent	READ	
	on group		
ISF.CONNECT.sysname	OPERAUDT	READ	
	SYSPAUDT		
ISFAPF.datasetname	OPERAUDT	READ	
	SYSPAUDT		
ISFAPPL.device-name.jesx	*	READ	
	OPERAUDT	CONTROL	

^{* -} All Users

Resource Name	User Group	Access	Logging
	SYSPAUDT		
ISFATTR.**	*	NONE	
ISFATTR.CHECK.**	AUDTAUDT	UPDATE	
	OPERAUDT		
	SYSPAUDT		
ISFATTR.ENCLAVE.**	AUDTAUDT	UPDATE	
	OPERAUDT		
	SYSPAUDT		
ISFATTR.JOB.**	APPDAUDT	UPDATE	
	APPSAUDT		
	OPERAUDT		
	SYSPAUDT		
ISFATTR.JOB.PRTDEST	*	UPDATE	
ISFATTR.JOBCL.**	OPERAUDT	UPDATE	
	SYSPAUDT		
ISFATTR.LINE.**	OPERAUDT	UPDATE	
	SYSPAUDT		
ISFATTR.MEMBER.**	OPERAUDT	UPDATE	
	SYSPAUDT		
ISFATTR.MODIFY.**	OPERAUDT	UPDATE	
	SYSPAUDT		
ISFATTR.NODE.**	OPERAUDT	UPDATE	
	SYSPAUDT		
ISFATTR.OFFLOAD.**	OPERAUDT	UPDATE	
	SYSPAUDT		
ISFATTR.OUTDESC.**	*	UPDATE	
ISFATTR.OUTPUT.**	AUDTAUDT	UPDATE	
	APPDAUDT		
	APPSAUDT		
	OPERAUDT		
IGE A TOTAL OLIVERY IT DAVID OT	SYSPAUDT *	TIPD A TIP	
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	UPDATE	
	SYSPAUDT	 	
ISFATTR.RDR.**	OPERAUDT	UPDATE	
	SYSPAUDT		

Resource Name	User Group	Access	Logging
	-		Logging
ISFATTR.RESMON.**	OPERAUDT	UPDATE	
ICE A FEED DECOLUDED 44	SYSPAUDT	LIDD A TEL	
ISFATTR.RESOURCE.**	OPERAUDT	UPDATE	
ICE A FEED CELL DOT 44	SYSPAUDT	LIDD A TEL	
ISFATTR.SELECT.**	OPERAUDT	UPDATE	
ICE A TETT CDOOL **	SYSPAUDT	LIDDATE	
ISFATTR.SPOOL.**	OPERAUDT	UPDATE	
ICEATURE **	SYSPAUDT *	NONE	
ISFAUTH.**		NONE	
ISFAUTH.DEST.**	APPDAUDT	READ	
	APPSAUDT	ALTED	
	OPERAUDT	ALTER	
ICECEC	SYSPAUDT	DEAD	
ISFCFC	OPERAUDT	READ	
IGEOFG	SYSPAUDT	DEAD	
ISFCFS	OPERAUDT	READ	
ICECMD **	SYSPAUDT *	NONE	
ISFCMD.**	*	NONE	
ISFCMD.DSP.ACTIVE.jesx	*	READ	
ISFCMD.DSP.HELD.jesx	*	READ	
ISFCMD.DSP.INPUT.jesx	*	READ	
ISFCMD.DSP.JGROUP.jesx	*	READ	
ISFCMD.DSP.OUTPUT.jesx	*	READ	
ISFCMD.DSP.SCHENV.system	*	READ	
ISFCMD.DSP.STATUS.jesx		READ	
ISFCMD.DSP.SYMBOL.system	OPERAUDT	READ	
ICECAD EILTED ACTION	SYSPAUDT	DEAD	
ISFCMD.FILTER.ACTION	APPDAUDT	READ	
	APPSAUDT		
	OPERAUDT SYSPAUDT		
ISFCMD.FILTER.DEST	*	READ	
ISFCMD.FILTER.DEST ISFCMD.FILTER.FINDLIM	*	READ	+
ISFCMD.FILTER.INPUT	*	READ	
ISPCMD.FILTER.INPUT	SYSPAUDT	KEAD	
ISECMD EILTED OWNED	*	DEAD	+
ISFCMD.FILTER.OWNER	*	READ	
ISFCMD.FILTER.PREFIX		READ	
ISFCMD.FILTER.RSYS	APPDAUDT APPSAUDT	READ	
	OPERAUDT		
	SYSPAUDT		
ISFCMD.FILTER.SYSID	*	READ	
	*	+	
ISFCMD.FILTER.SYSNAME		READ	
ISFCMD.MAINT.ABEND	SYSPAUDT	READ	

Resource Name	User Group	Access	Logging
ISFCMD.MAINT.TRACE	APPDAUDT	READ	
	APPSAUDT		
	SYSPAUDT		
ISFCMD.ODSP.APF.system	APPDAUDT	READ	
•	APPSAUDT		
	OPERAUDT		
	SYSPAUDT		
ISFCMD.ODSP.AS	APPDAUDT	READ	
	APPSAUDT		
	OPERAUDT		
	SYSPAUDT		
ISFCMD.ODSP.CFSTRUCT.sysname	OPERAUDT	READ	
	SYSPAUDT		
ISFCMD.ODSP.COUPLE.sysname	OPERAUDT	READ	
	SYSPAUDT		
ISFCMD.ODSP.CSR.sysname	OPERAUDT	READ	
	SYSPAUDT		
ISFCMD.ODSP.DEVACT.sysname	OPERAUDT	READ	
	SYSPAUDT		
ISFCMD.ODSP.ENCLAVE	APPDAUDT	READ	
	APPSAUDT		
	OPERAUDT		
	SYSPAUDT		
ISFCMD.ODSP.ENQUEUE.system	APPDAUDT	READ	
	APPSAUDT		
	OPERAUDT		
	SYSPAUDT		
ISFCMD.ODSP.DYNX	APPDAUDT	READ	
	APPSAUDT		
	OPERAUDT		
	SYSPAUDT		
ISFCMD.ODSP.FILESYS.sysname	OPERAUDT	READ	
	SYSPAUDT		
ISFCMD.ODSP.HCHECKER.system	APPDAUDT	READ	
	APPSAUDT		
	OPERAUDT		
	SYSPAUDT		
ISFCMD.ODSP.INITIATOR.jesx	APPDAUDT	READ	
	APPSAUDT		
	OPERAUDT		
	SYSPAUDT		
ISFCMD.ODSP.JOB0.jesx	APPDAUDT	READ	
· y ·	APPSAUDT		
	OPERAUDT		

Resource Name	User Group	Access	Logging
	SYSPAUDT		
ISFCMD.ODSP.JOBCLASS.jesx	APPDAUDT	READ	
	APPSAUDT		
	OPERAUDT		
	SYSPAUDT		
ISFCMD.ODSP.LINE.jesx	APPDAUDT	READ	
	APPSAUDT		
	OPERAUDT		
	SYSPAUDT		
ISFCMD.ODSP.LNK.system	APPDAUDT	READ	
	APPSAUDT		
	OPERAUDT		
	SYSPAUDT		
ISFCMD.ODSP.LPA.system	APPDAUDT	READ	
	APPSAUDT		
	OPERAUDT		
	SYSPAUDT		
ISFCMD.ODSP.MAS.jesx	APPDAUDT	READ	
	APPSAUDT		
	OPERAUDT		
	SYSPAUDT		
ISFCMD.ODSP.NC.jesx	APPDAUDT	READ	
	APPSAUDT		
	OPERAUDT		
	SYSPAUDT		
ISFCMD.ODSP.NETACT.sysname	<u>OPERAUDT</u>	READ	
	SYSPAUDT		
ISFCMD.ODSP.NODE.jesx	APPDAUDT	READ	
	APPSAUDT		
	OPERAUDT		
	SYSPAUDT		
ISFCMD.ODSP.NS.jesx	APPDAUDT	READ	
	APPSAUDT		
	OPERAUDT		
	SYSPAUDT		
ISFCMD.ODSP.PAGE.system	APPDAUDT	READ	
	APPSAUDT		
	OPERAUDT		
	SYSPAUDT		
ISFCMD.ODSP.PARMLIB.system	APPDAUDT	READ	
	APPSAUDT		
	OPERAUDT		
	SYSPAUDT		
ISFCMD.ODSP.PRINTER.jesx	APPDAUDT	READ	

Resource Name	User Group	Access	Logging
	APPSAUDT		
	OPERAUDT		
	SYSPAUDT		
ISFCMD.ODSP.PROCESS	APPDAUDT	READ	
	APPSAUDT		
	OPERAUDT		
	SYSPAUDT		
ISFCMD.ODSP.PROCLIB.JES2	APPDAUDT	READ	
	APPSAUDT		
	OPERAUDT		
	SYSPAUDT		
ISFCMD.ODSP.PUNCH.jesx	APPDAUDT	READ	
j	APPSAUDT		
	OPERAUDT		
	SYSPAUDT		
ISFCMD.ODSP.READER.jesx	APPDAUDT	READ	
	APPSAUDT		
	OPERAUDT		
	SYSPAUDT		
ISFCMD.ODSP.RESMON.jesx	APPDAUDT	READ	
isi enibrebat indenitor njesit	APPSAUDT		
	OPERAUDT		
	SYSPAUDT		
ISFCMD.ODSP.RESOURCE.system	APPDAUDT	READ	
,	APPSAUDT		
	OPERAUDT		
	SYSPAUDT		
ISFCMD.ODSP.SO.jesx	APPDAUDT	READ	
3	APPSAUDT		
	OPERAUDT		
	SYSPAUDT		
ISFCMD.ODSP.SPOOL.jesx	APPDAUDT	READ	
J	APPSAUDT		
	OPERAUDT		
	SYSPAUDT		
SFCMD.ODSP.SMSVOL.sysname	OPERAUDT	READ	
	SYSPAUDT		
ISFCMD.ODSP.SR.system	APPDAUDT	READ	
,	APPSAUDT		
	OPERAUDT		
	SYSPAUDT		
ISFCMD.ODSP.STORGRP.sysname	OPERAUDT	READ	
	SYSPAUDT		
ISFCMD.ODSP.SUBSYS.sysname	OPERAUDT	READ	

Resource Name	User Group	Access	Logging
	SYSPAUDT		
ISFCMD.ODSP.SYSLOG.jesx	APPDAUDT	READ	
·	APPSAUDT		
	AUDTAUDT		
	OPERAUDT		
	SECAAUDT		
	SYSPAUDT		
ISFCMD.ODSP.SYSTEM.system	APPDAUDT	READ	
	APPSAUDT		
	OPERAUDT		
	SYSPAUDT		
ISFCMD.ODSP.TRACKER.sysname	OPERAUDT	READ	
IGEGLO OPGPLILOG	SYSPAUDT	DEAD	
ISFCMD.ODSP.ULOG.jesx	APPDAUDT	READ	
	APPSAUDT		
	AUDTAUDT OPERAUDT		
	SYSPAUDT		
ISFCMD.ODSP.VIRTSTOR.sysname	OPERAUDT	READ	
ISFCMD:ODSF: VIRTSTOR: Systiame	SYSPAUDT	KEAD	
ISFCMD.OPT.SERVER	SYSPAUDT	READ	
ISFDEV.	OPERAUDT	READ	
	SYSPAUDT		
ISFDISP.	*	READ	
	OPERAUDT		
	SYSPAUDT		
ISFDYNEX.	OPERAUDT	READ	
	SYSPAUDT		
ISFENC.subsystem-type.subsystem-	OPERAUDT	ALTER	
name	SYSPAUDT		
ISFENQ.majorname.sysname	OPERAUDT	READ	
tappa	SYSPAUDT	DE LE	
<mark>ISFFS.</mark>	OPERAUDT CNGP A LIPT	READ	
TOP OF	SYSPAUDT	DEAD	
ISFGT.	OPERAUDT GNGPALIDT	READ	
ICEINIT I	SYSPAUDT *	DEAD	
ISFINIT.Ixx.jesx	APPDAUDT	READ	
	APPSAUDT		
	OPERAUDT	CONTROL	
	SYSPAUDT	CONTROL	
ISFJDD.	*	READ	
TOTAL POPULATION OF THE POPULA	OPERAUDT	TCL/TL	
	SYSPAUDT		

Resource Name	User Group	Access	Logging
ISFJOBCL.class.jesx	*	READ	
, and the second	OPERAUDT	CONTROL	
	SYSPAUDT		
ISFLINE.device-name.jesx	*	READ	
J	APPDAUDT		
	APPSAUDT		
	OPERAUDT	ALTER	
	SYSPAUDT		
ISFLNK.datasetname	OPERAUDT	READ	
	SYSPAUDT		
ISFLPA.datasetname	OPERAUDT	READ	
	SYSPAUDT		
ISFMEMB.member-name.jesx	*	READ	
	OPERAUDT	ALTER	
	SYSPAUDT		
ISFNETACT.	OPERAUDT	READ	
	SYSPAUDT		
ISFNODE.node-name.jesx	*	READ	
151 110 DE. Hode hame. jesk	OPERAUDT	CONTROL	
	SYSPAUDT	CONTROL	
ISFNS.device-name.jesx	OPERAUDT	CONTROL	
151 1v5.device-name.jesx	SYSPAUDT	CONTROL	
ISFOPER.ANYDEST.jesx	*	READ	
151 Of ER.ANT DEST. Jess	APPDAUDT	KLAD	
	APPSAUDT		
	OPERAUDT		
	SYSPAUDT		
ISFOPER.DEST.jesx	APPDAUDT	READ	
151 Of ER.DEST.jesk	APPSAUDT	KLI	
	OPERAUDT		
	SYSPAUDT		
ISFOPER.SYSTEM	AUDTAUDT	READ	
ISI OI ER.S I STEWI	OPERAUDT	KLAD	
	SECAAUDT		
	SYSPAUDT		
ISFPAG.datasetname	OPERAUDT	READ	
1511 AG.aatasemame	SYSPAUDT	KLAD	
ISFPARM.datasetname	OPERAUDT	READ	
151 1 AIXII.aanasemunte	SYSPAUDT		
ISFPLIB.	OPERAUDT	READ	
IST LID.	SYSPAUDT	KLAD	
ISFPROC.owner.process	APPDAUDT	READ	
1511 ROC. OWIEL. PLOCESS	APPSAUDT	KLAD	
	OPERAUDT	ALTER	
	OFERAUDI	ALIEK	

Resource Name	User Group	Access	Logging
	SYSPAUDT		
ISFRES.resource.system	*	READ	
·	OPERAUDT	ALTER	
	SYSPAUDT		
ISFRM.resource.jesx	OPERAUDT	CONTROL	
	SYSPAUDT		
ISFSE.sched-env.system	OPERAUDT	READ	
	SYSPAUDT		
ISFSMFVOL.	OPERAUDT	READ	
	SYSPAUDT		
ISFSO.device-name.jesx	*	READ	
	OPERAUDT	ALTER	
	SYSPAUDT		
ISFSOCK.device-name.jesx	OPERAUDT	CONTROL	
	SYSPAUDT		
ISFSP.volser.jesx	APPDAUDT	READ	
	APPSAUDT		
	OPERAUDT	CONTROL	
	SYSPAUDT		
ISFSR.ACTION.org-system.jobname	OPERAUDT	READ	
	SYSPAUDT		
ISFSR.REPLY.org-system.jobname	OPERAUDT	READ	
	SYSPAUDT		
ISFSR.type.org-system.jobname	OPERAUDT	READ	
	SYSPAUDT		
<mark>ISFSTORGRP.</mark>	OPERAUDT	READ	
	SYSPAUDT		
ISFSUBSYS.	OPERAUDT	READ	
	SYSPAUDT		
ISFSYM.symbolname.sysname	OPERAUDT	READ	
	SYSPAUDT		
ISFSYS. sysplexname.sysname	OPERAUDT	READ	
	SYSPAUDT		
SERVER.NOPARM	SYSPAUDT	READ	READ

Table 11-27: 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

Resource Name	Description		
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		
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		

Resource Name	Description	
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	
	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	
VALUE OF THE PROPERTY OF	command.	
ISFCMD.FILTER.RSYS	Gives user authority to issue the RSYS	
IGEOLO EU TED GUGID	command.	
ISFCMD.FILTER.SYSID	Gives user authority to issue the SYSID command.	
ISFCMD.FILTER.SYSNAME	Gives user authority to issue the SYSNAME	
ISI CIVID.I ILTER.S I SIVAIVIL	command.	
ISFCMD.MAINT.ABEND	Cause SDSF to abend	
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	

Resource Name	Description	
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	
3	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	
·	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	
3	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	
3	and associated transmitters and receivers	
ISFSO.device-name.jesx	Cancel the job and output active on a	
3	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	
J	halt a spool volume	
ISFSR.ACTION.org-system.jobname	Remove action messages from the display	

Resource Name	Description
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 11-28: SDSF Server OPERCMDS Resources

Referenced by: ZISF0021

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

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 11-29: WebSphere MQ Queue Definition Authority SAF Resources

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

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 11-30: Required GLOBAL Common Profile Segment Options

Referenced by: ZCLS0040

Required GLOBAL Common Profile Segment Options					
OPTION DESCRIPTION REQUIRED VAL					
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			

Required GLOBAL Common Profile Segment Options						
OPTION	DESCRIPTION	REQUIRED VALUE				
Note : The above options may	Note : The above options may be set to Yes only for the Administrator(s).					
Resource validation	Resource name (APPLID and/or	A				
	Session Id) used when calling the					
	ESM for dynamic application lists					
Timeout interval	Interval after which the user's	00:15				
	session should be terminated for					
	inactivity					
Group profile name	Associated group profile	Will only be specified in a				
	_	user level profile				

Table 11-31: Required SuperSess 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	N		
	when logging off			
Add triggers to profile	Allows the user to create trigger definitions and add them to the	N		
Modify triggers in profile	trigger (hot-key string) profile	N		
Modify triggers in profile	Allows the user to modify existing trigger definitions in the trigger (hot-key string) profile	IN .		
Switch terminals	Allows switching an active CL/SUPERSESSION session to another VTAM terminal	Y		
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		

11.10 CA ROSCOE Requirements

Table 11-32: CA ROSCOE Resources

Referenced by: ZROS0020

Resource Names	Logging	User Groups	Access	Note
[rosid.]ROSCMD		*	NONE	

Resource Names	Logging	User Groups	Access	Note
		SYSPAUDT	ALTER	
[rosid.]ROSCMD.ETSO		*	READ	
[rosid.]ROSCMD.MONITOR		SYSPAUDT	ALTER	
[rosid.]ROSCMD.MONITOR.AM		*	READ	
S		SYSPAUDT	ALTER	
[rosid.]ROSCMD.MONITOR.AW S		SYSPAUDT	ALTER	
[rosid.]ROSCMD.MONITOR.CA1		*	READ	
		SYSPAUDT	ALTER	
[rosid.]ROSCMD.MONITOR.COB		*	READ	
		SYSPAUDT	ALTER	
[rosid.]ROSCMD.MONITOR.CO N		OPERAUDT	UPDAT E	
		SYSPAUDT	UPDAT E	
[rosid.]ROSCMD.MONITOR.DIS		*	READ	
[rosia:]RoseMD:MornitoR:Dis		SYSPAUDT	ALTER	
[rosid.]ROSCMD.MONITOR.DM		*	READ	
S		SYSPAUDT	ALTER	
[rosid.]ROSCMD.MONITOR.DO		*	READ	
C		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.MO N		SYSPAUDT	ALTER	
[rosid.]ROSCMD.MONITOR.PUR	READ	*	READ	
	112112	SYSPAUDT	ALTER	
[rosid.]ROSCMD.MONITOR.ROS		*	READ	
L J		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	51.LI
		SYSPAUDT	ALTER	
[rosid.]ROSCMD.MONITOR.TIQ		*	READ	
		·	KEAD	1

Resource Names	Logging	User Groups	Access	Note
		SYSPAUDT	ALTER	
[rosid.]ROSCMD.MONITOR.TSS		AUDTAUDT	READ	TSS
				ONLY
		SECAAUDT	READ	TSS
				ONLY
		SECDAUDT	READ	TSS
				ONLY
		Security	READ	TSS
		administrators		ONLY
				Other
				than
				those
				specifie
5 '11P 000' (P) (0) HTOP 7 (P	DEAD	GLIGD A LIDE	A A PER	d above.
[rosid.]ROSCMD.MONITOR.ZAP	READ	SYSPAUDT	ALTER	
[rosid.]ROSCMD.PRIV	READ	SYSPAUDT	ALTER	
[rosid.]ROSCMD.PRIV.ROSLIB	READ	ROSCAUTH	UPDAT	
			E	
		SECAAUDT	UPDAT	
			E	
		SECDAUDT	UPDAT	
		CALLED A AND E	E	
		SYSPAUDT	ALTER	
[rosid.]ROSCMD.PRIV.ROSUPS	READ	ROSCAUTH	UPDAT	
			Е	
		SECAAUDT	UPDAT	
		GEGD ALEST	E	
		SECDAUDT	UPDAT	
		GMGD A MD T	E	
		SYSPAUDT	ALTER	
[rosid.]ROSCMD.RPF		*	READ	

^{* -} All Users

ROSCAUTH - ROSCOE Master and Maintenance IDs

11.11 Vanguard Security Solutions Requirements

Table 11-33: Vanguard Security Solutions Resources

Referenced by: ZVSS0020

Resource Names	Logging	User Group	Access
IRR.PASSWORD.RESET		*	None
VIP\$.NOEDIT.COMMANDS		*	None
VRA\$.		*	None

Resource Names	Logging	User Group	Access
VRA\$.ACSTASK	Read	AUDTAUDT	Read
		SECAAUDT	
VRA\$.DIGTCERT.EDIT.COMMAND		AUDTAUDT	Read
		SECAAUDT	
VRA\$.LIVE.USER		AUDTAUDT	Read
		SECAAUDT	
		SYSPAUDT	
VRA\$.PASSWORD	Read	AUDTAUDT	Read
·		SECAAUDT	
		SECDAUDT	
VRA\$.REFRESH.		AUDTAUDT	Read
, 10 14/12/22 112/21/		SECAAUDT	
		SECDAUDT	
VRA\$.REFRESH.GENERIC		AUDTAUDT	Read
VICIO, ICEI ICEIII. CEI VEICE		SECAAUDT	Teac
		SECDAUDT	
VRA\$.REFRESH.GLOBAL		AUDTAUDT	Read
VICTORIAL RESILUEDA		SECAAUDT	Read
		SECDAUDT	
VRA\$.REFRESH.RACLIST		AUDTAUDT	Read
VIVIQ.ICLI ICLIII.IU ICLIII		SECAAUDT	Read
		SECDAUDT	
VRA\$.REFRESH.WHENPROGRAM		AUDTAUDT	Read
VICE RESIL WILLIAM ROCKANI		SECAAUDT	Read
		SECDAUDT	
VRA\$.SCOPE		*	None
VIGIÇ.SCOLE		AUDTAUDT	Read
		SECAAUDT	Read
		SECDAUDT	
		SYSPAUDT	
VRA\$.VRAACCA	Read	AUDTAUDT	Read
VICTO	Read	SECAAUDT	Read
		SECDAUDT	
		SYSPAUDT	
VRA\$.VRAADUPA	Read	AUDTAUDT	Read
VKADOI A	Read	SECAAUDT	Read
		SECAAUDT	
VRA\$.VRABRPT	Read	AUDTAUDT	Read
ν ΙΛΑΦ. V ΙΛΑΒΙΚΕ Ι	Keau	SECAAUDT	Keau
		SECAAUDT	
		SYSPAUDT	
VD A C VD A CMND	D d	+	Dag J
VRA\$.VRACMND	Read	AUDTAUDT	Read
		SECAAUDT	
		SECDAUDT	

Resource Names	Logging	User Group	Access
VRA\$.VRADSNA	Read	AUDTAUDT	Read
		SECAAUDT	
		SECDAUDT	
		SYSPAUDT	
VRA\$.VRAEXTR	Read	AUDTAUDT	Read
		SECAAUDT	
		SECDAUDT	
		SYSPAUDT	
VRA\$.VRAGRPT	Read	AUDTAUDT	Read
		SECAAUDT	
		SECDAUDT	
		SYSPAUDT	
VRA\$.VRAOCMD		AUDTAUDT	Read
		SECAAUDT	
		SECDAUDT	
VRA\$.VRAORPT	Read	AUDTAUDT	Read
		SECAAUDT	
		SECDAUDT	
		SYSPAUDT	
VRA\$.VRASRPT	Read	AUDTAUDT	Read
		SECAAUDT	
		SECDAUDT	
VRA\$.VRAVTOC	Read	AUDTAUDT	Read
		SECAAUDT	
		SECDAUDT	
		SYSPAUDT	
VRA\$.VRTRAA	Read	AUDTAUDT	Read
		SECAAUDT	
		SECDAUDT	
		SYSPAUDT	
VRAADM\$.VARIABLES	Read	SECAAUDT	Read
		SECDAUDT	
VRAIDM\$.	Read	SECAAUDT	Update
VRAIDM\$.classname.profile	Read	SECAAUDT	Update
		SECDAUDT	
VRAPW\$.*.**	Read	*	None
VRAPW\$.ALL	Read	SECAAUDT	Read
VRAPW\$.ALLOW.HREVOKE	Read	SECAAUDT	Read
		SECDAUDT	
VRAPW\$.groupid	Read	SECAAUDT	Read
		SECDAUDT	
VRAPW\$.NOHISTCHK	Read	*	None
VRAPW\$.NONE.AUDITOR	Read	SECDAUDT	Read

Resource Names	Logging	User Group	Access
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	Read
		SECDAUDT	
VRAPWHR\$.groupid	Read	SECAAUDT	Read
		SECDAUDT	
VRAPWHR\$.userid	Read	SECAAUDT	Read
		SECDAUDT	
VRAUD\$.classname	Read	SECAAUDT	Update
VRAUD\$.classname.fieldname	Read	SECAAUDT	Update
VRAUD\$.classname.fieldname.1stnode	Read	SECAAUDT	Update
		SECDAUDT	
VSA\$.VSA	Read	SECAAUDT	Read
		SECDAUDT	
VSR\$.**		*	None
VSR\$.VSR	Read	SECAAUDT	Read
		SECDAUDT	

^{* -} All Users

Table 11-34: 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,
	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

Resource Names	Description
	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 Vanguard Administrator Technical Reference
	Guide.
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
LID A & DEEDEGIL GLODAL	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
VD A & DEEDEGII D A CLICT	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
	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

Resource Names	Description
	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
	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

Resource Names	Description
	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. groupid
	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\$.groupid profile. If the user has READ
	access to this optional profile, the group name
	specified in the VRAPW\$.groupid 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
	with at least READ access, you prevent the user or
	group from administering passwords for any user
	with the RACF System Auditor attribute, regardless
AND A DIVID MONTE OPER A TRONG	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
VD ADWE NONE CRECIAT	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

Resource Names	Description
	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-	By permitting user or group access to this profile
group	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
VKAT W \$.useriu	profile name should be the same as the user ID
	specified in the command.
VRAPWHR\$.groupid	groupid is the ID of the default group of the user
VKAI WIIKD.groupid	specified in the command. An optional profile,
	VRAPWCON.CONGRP, can be defined in the
	RACF FACILITY class to change the meaning of
	the VRAPWHR\$.groupid profile. If the user has
	read access to this optional profile, the Group ID in
	the VRAPWHR\$.groupid profile changes to mean
	any group a user is connected to, not just their
	default group.
VRAPWHR\$.userid	userid 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.

Resource Names	Description
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 Isnode of PAYROLL. Note: In order to use
	the Enhanced Authority Checking, the
	UDM_ENHANCED_SECURITY keyword must be
	set to Y in the VRAOPT00, member of the
	VIPOPTS DDNAME.
VSA\$.VSA	Grants access to Analyzer online and batch reports
VSR\$.VSR	Grants access to Advisor online and batch reports

11.12 Compuware Abend-AID Requirements

Table 11-35: Compuware Abend-AID Resources

Referenced by: ZAID0020

Function	Resource Names	User Group
LOGON.FD	prefix.SERVER.LOGON.FD.servername	APPDAUDT
		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_	APPDAUDT
	of_entry_in_directory	APPSAUDT
		SYSPAUDT
DDIRBx.	prefix.DDIRBx.servername.jobname_of_address_space_in_	APPDAUDT
	report	APPSAUDT
		SYSPAUDT
DDIRSx	prefix.DDIRSx.servername.jobname_of_address_space_in_	APPDAUDT
	dump	APPSAUDT

Function	Resource Names	User Group
		SYSPAUDT
IMPORT	prefix.SERVER.IMPORT.servername	APPDAUDT
		APPSAUDT
		SYSPAUDT
IPCS	prefix.SERVER.IPCSCMD.servername	APPDAUDT
		APPSAUDT
		SYSPAUDT
SHUTDOWN	prefix.SERVER.CONTROL.servername	OPERAUDT
		SYSPAUDT
LOGSPOOL	prefix.SERVER.CONTROL.servername	OPERAUDT
		SYSPAUDT
REXX	prefix.SERVER.REXXAPI.servername	APPDAUDT
		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.

11.13 BMC MAINVIEW Requirements

Table 11-36: BMC MAINVIEW Resources

Referenced by: ZMVZ0020

Resource	User Group
BBM.ssid.CN	AUTOAUDT
	DASDAUDT
	MQSAAUDT
	MV STCs
	MVREAD
	MVUPDT
	PCSPAUDT
	SYSPAUDT
BBM.COMMON.ASU.PA	NONE
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
	MVUPDT
	PCSPAUDT
	SYSPAUDT

Resource	User Group
BBM.systemid.MVCSMON.targetid.TC	MV STCs
BBM.systemid.MVMVS.targetid.TA	AUTOAUDT
_	DASDAUDT
	MQSAAUDT
	MV STCs
	MVUPDT
	PCSPAUDT
	SYSPAUDT
BBM.systemid.MVMVS.targetid.TC	MV STCs
BBM.systemid.MVSPS.targetid.TA	AUTOAUDT
	DASDAUDT
	MQSAAUDT
	MVREAD
	MVUPDT
	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
	MVUPDT
	PCSPAUDT
	SYSPAUDT
BBM.systemid.MVUSS.targetid.TC	MV STCs
BBM.systemid.PLEXMGR.targetid.TA	AUTOAUDT
	DASDAUDT
	MQSAAUDT
	MV STCs
	MVREAD
	MVUPDT
	PCSPAUDT
	SYSPAUDT
BBM. MVCICS.targetid.AA	AUTOAUDT
	DASDAUDT
	MQSAAUDT
	CICDAUDT
	PCSPAUDT
DDM MUCIOS 4 (1100010 *	SYSPAUDT
BBM.MVCICS.targetid.QQ210.*	SYSPAUDT
BBM.MVCICS.targetid.SET*.*	SYSPAUDT
BBM.MVCSMON.targetid.AA	AUTOAUDT
	DASDAUDT
	MQSAAUDT

Resource	User Group
	MVUPDT
	PCSPAUDT
	SYSPAUDT
BBM.MVCSMON.targetid.COMMON.AA	SYSPAUDT
BBM.MVCSMON.targetid.CSMON.PA	AUTOAUDT
8	DASDAUDT
	MQSAAUDT
	MVUPDT
	PCSPAUDT
	SYSPAUDT
BBM.MVCSMON.targetid.MYA20.	SYSPAUDT
BBM.MVCSMON.targetid.MYA30.OD	SYSPAUDT
BBM.MVDB2.targetid.AA	SYSPAUDT
DDIVI.IVI V DD2.tai getid./ I/ I	AUTOAUDT
	DASDAUDT
	DABAAUDT
	MV STCs
	MVREAD
	PCSPAUDT
BBM. MVCICS.targetid.*.AO	SYSPAUDT
BBM.MVDB2.targetid.*.AO	SYSPAUDT
BBM. MVCICS.targetid.*.OD	AUTOAUDT
_	DASDAUDT
	DABAAUDT
	MV STCs
	CICDSAUDT
	PCSPAUDT
	SYSPAUDT
BBM.MVDB2.targetid.*.OD	AUTOAUDT
	DASDAUDT
	DABAAUDT
	MV STCs
	MVREAD
	PCSPAUDT
	SYSPAUDT
BBM. MVCICS.targetid.*.*.OA	AUTOAUDT
DDIN III CICOIMIGOIGI . 1011	DASDAUDT
	DABAAUDT
	CICDSAUDT
	PCSPAUDT
	SYSPAUDT
BBM.MVDB2.targetid.*.*.OA	AUTOAUDT
DDIVI.IVI V DDZ.IAI gCIIII	DASDAUDT
	DASDAUDT
	MVREAD
	PCSPAUDT

Resource	User Group
	SYSPAUDT
BBM.MVMVS.targetid.AA	AUTOAUDT
	DASDAUDT
	MQSAAUDT
	MVUPDT
	PCSPAUDT
	SYSPAUDT
BBM.MVMVS.targetid.COMMON.AA	SYSPAUDT
BBM.MVMVS.targetid.D*.OD	AUTOAUDT
	DASDAUDT
	MQSAAUDT
	MV STCs
	MVUPDT
	PCSPAUDT
	SYSPAUDT
BBM.MVMVS.targetid.DC101.CLCMD.OA	AUTOAUDT
DDIVI.IVI V IVI V S.targetta.De 101. elevib. on	DASDAUDT
	MVUPDT
	PCSPAUDT
	SYSPAUDT
BBM.MVMVS.targetid.MVSCOPE.PA	SYSPAUDT
BBM.MVMVS.targetid.MYA20.	SYSPAUDT
BBM.MVMVS.targetid.MYA30.OD	SYSPAUDT
	AUTOAUDT
BBM.MVSPS.targetid.*.OD	
	DASDAUDT
	MQSAAUDT MVREAD
	MVUPDT
	PCSPAUDT
DDI () () () () () () ()	SYSPAUDT
BBM.MVSPS.targetid.AA	AUTOAUDT
	DASDAUDT
	MQSAAUDT
	MVREAD
	MVUPDT
	PCSPAUDT
DDI (1 diana	SYSPAUDT
BBM.MVSPS.targetid.COMMON.AA	SYSPAUDT
BBM.MVSPS.targetid.MYA20.	SYSPAUDT
BBM.MVSPS.targetid.MYA30.OD	SYSPAUDT
BBM.MVSPS.targetid.SYSPROG.PA	MVREAD
	MVUPDT
	SYSPAUDT
BBM.MVUSS.targetid.*.OD	DASDAUDT
	MQSAAUDT

Resource	User Group
	MV STCs
	MVUPDT
	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
	MVREAD
	MVUPDT
	PCSPAUDT
	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
	MVREAD
	MVUPDT
	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
<i>6</i>	DASDAUDT
	MQSAAUDT
	MVREAD
	MVUPDT
	PCSPAUDT

Resource	User Group
	SYSPAUDT
BBM.PLEXMGR.targetid.COMMON.AA	SYSPAUDT
BBM.PLEXMGR.targetid.CYA10.	SYSPAUDT
BBM.PLEXMGR.targetid.CYA10.OD	AUTOAUDT
Č	DASDAUDT
	MQSAAUDT
	MVREAD
	MVUPDT
	PCSPAUDT
	SYSPAUDT
BBM.PLEXMGR.targetid.CYA50.	SYSPAUDT
BBM.PLEXMGR.targetid.CYA50.OD	AUTOAUDT
-	DASDAUDT
	MQSAAUDT
	MVREAD
	MVUPDT
	PCSPAUDT
	SYSPAUDT
BBM.PLEXMGR.targetid.CYA60.OD	AUTOAUDT
	DASDAUDT
	MQSAAUDT
	MVREAD
	MVUPDT
	PCSPAUDT
	SYSPAUDT
BBM.PLEXMGR.targetid.CYA70.OD	SYSPAUDT
BBM.PLEXMGR.targetid.CYA80.	SYSPAUDT
BBM.PLEXMGR.targetid.CYA90.	SYSPAUDT
BBM.PLEXMGR.targetid.CYAA0.OD	SYSPAUDT
BBM.PLEXMGR.targetid.CYAB0.	SYSPAUDT
BBM.PLEXMGR.targetid.CYAC0.OD	AUTOAUDT
	DASDAUDT
	MQSAAUDT
	MVREAD
	MVUPDT
	PCSPAUDT
	SYSPAUDT
BBM.PLEXMGR.targetid.CYAD0.OD	SYSPAUDT
BBM.PLEXMGR.targetid.CYAE0.OD	SYSPAUDT
BBM.PLEXMGR.targetid.CZZ01.OD	SYSPAUDT
BBM.PLEXMGR.targetid.CZZ02.OD	SYSPAUDT
BBM.PLEXMGR.targetid.MYA20.	SYSPAUDT
BBM.PLEXMGR.targetid.MYA20.OD	AUTOAUDT
- C	DASDAUDT
	MQSAAUDT

Resource	User Group
	MVUPDT
	PCSPAUDT
	SYSPAUDT
BBM.PLEXMGR.targetid.MYA30.OD	AUTOAUDT
-	DASDAUDT
	MQSAAUDT
	MVUPDT
	PCSPAUDT
	SYSPAUDT
BBM.PLEXMGR.targetid.MYA40.	SYSPAUDT
BBM.PLEXMGR.targetid.MYB30.OD	MV STCs
_	SYSPAUDT
BBM.PLEXMGR.targetid.MYD00.OD	MV STCs
	SYSPAUDT

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.

11.14 CA MIM Requirements

Table 11-37: CA MIM Resource Sharing Resources

Referenced by: ZMIM0020

Command	Resource	User Group	Access
ACTIVATE	safprefix.ACTIVATE	SYSPAUDT	UPDATE
ADDQNAME	safprefix.ADDQNAME	SYSPAUDT	UPDATE
ALLOCATE	safprefix.ALLOCATE	SYSPAUDT	UPDATE
ALTER	safprefix.ALTER	SYSPAUDT	UPDATE
AUTHCHK	safprefix.AUTHCHK	OPERAUDT	UPDATE
		SYSPAUDT	
COLLECT	safprefix.COLLECT	SYSPAUDT	UPDATE
CP	safprefix.CP	SYSPAUDT	UPDATE
CTC	safprefix.CTC	DASDAUDT	UPDATE
		SYSPAUDT	
DEALLOCATE	safprefix.DEALLOCATE	SYSPAUDT	UPDATE
DEFALIAS	safprefix.DEFALIAS	SYSPAUDT	UPDATE
DELQNAME	safprefix.DELQNAME	SYSPAUDT	UPDATE
DEQJOB	safprefix.DEQJOB	PCSPAUDT	UPDATE

Command	Resource	User Group	Access
		SYSPAUDT	
DIAGNOSE	safprefix.DIAGNOSE	OPERAUDT	UPDATE
		SYSPAUDT	
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	UPDATE
	1	SYSPAUDT	
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	UPDATE
		SYSPAUDT	
EXEMPT	safprefix.EXEMPT	OPERAUDT	UPDATE
		SYSPAUDT	
FREE	safprefix.FREE	AUTOAUDT	UPDATE
	_	SYSPAUDT	
FREECONS	safprefix.FREECONS	OPERAUDT	UPDATE
		SYSPAUDT	
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	UPDATE
		SYSPAUDT	
REMOVE	safprefix.REMOVE	SYSPAUDT	UPDATE
RESTART	safprefix.RESTART	OPERAUDT	UPDATE
		SYSPAUDT	
RESYNCH	safprefix.RESYNCH	DASDAUDT	UPDATE
		SYSPAUDT	
SETOPTION ECMF	safprefix.SETOPTION	SYSPAUDT	UPDATE
SETOPTION EDIF	safprefix.SETOPTION	SYSPAUDT	UPDATE
SETOPTION GCMF	safprefix.SETOPTION	SYSPAUDT	UPDATE

Command	Resource	User Group	Access
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	UPDATE
		OPERAUDT	
		SYSPAUDT	
SYSDUMP	safprefix.SYSDUMP	SYSPAUDT	UPDATE
USERDATA	safprefix.USERDATA	SYSPAUDT	UPDATE
VARY	safprefix.VARY	DASDAUDT	UPDATE
		SYSPAUDT	
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.

11.15 NetView Requirements

Table 11-38: NetView Resources

Referenced by: ZNET0020

Resource	Group	Access
netid	*	NONE
netid.luname.ADDCMD	SYSPAUDT	READ
netid.luname.AFTER	AUTOAUDT	READ
	SYSPAUDT	
netid.luname.ALLOCATE.CATALOG	AUTOAUDT	READ
	SYSPAUDT	
netid.luname.ALLOCATE.DELETE	SYSPAUDT	READ
netid.luname.ALLOCATE.NEW	AUTOAUDT	READ
	SYSPAUDT	
netid.luname.ALLOCATE.UNCATALO	SYSPAUDT	READ
netid.luname.AT	AUTOAUDT	READ
	SYSPAUDT	
netid.luname.ATTACH	*	READ
netid.luname.ATTACH.DUMP	*	READ
netid.luname.AUTOTASK	AUTOAUDT	READ
	SYSPAUDT	

Resource	Group	Access
netid.luname.AUTOTBL	AUTOAUDT	READ
	SYSPAUDT	
netid.luname.AUTOTBL.STATUS	*	READ
netid.luname.AUTOTEST	AUTOAUDT	READ
	SYSPAUDT	
netid.luname.CHNGFP	SYSPAUDT	READ
netid.luname.CHRON	AUTOAUDT	READ
	SYSPAUDT	
netid.luname.CLOSE	SYSPAUDT	READ
netid.luname.CLRSTATS	SYSPAUDT	READ
netid.luname.CNME0001	AUTOAUDT	READ
	SYSPAUDT	
netid.luname.CNME0002	AUTOAUDT	READ
	SYSPAUDT	
netid.luname.CNME0006	SYSPAUDT	READ
netid.luname.CNME0013	SYSPAUDT	READ
netid.luname.CNME0015	AUTOAUDT	READ
	SYSPAUDT	
netid.luname.CNME0017	AUTOAUDT	READ
	SYSPAUDT	
netid.luname.CNME0018	AUTOAUDT	READ
	SYSPAUDT	
netid.luname.CNME0019	SYSPAUDT	READ
netid.luname.CNME0025	SYSPAUDT	READ
netid.luname.CNME0030	AUTOAUDT	READ
	SYSPAUDT	
netid.luname.CNME0032	AUTOAUDT	READ
	SYSPAUDT	
netid.luname.CNME1016	AUTOAUDT	READ
	SYSPAUDT	
netid.luname.CNME1055	SYSPAUDT	READ
netid.luname.CNME1057	AUTOAUDT	READ
	SYSPAUDT	
netid.luname.CNME1089	AUTOAUDT	READ
	SYSPAUDT	
netid.luname.CNME1098	AUTOAUDT	READ
	SYSPAUDT	
netid.luname.CNME2002	AUTOAUDT	READ
	SYSPAUDT	
netid.luname.CNME2007	AUTOAUDT	READ
	SYSPAUDT	
netid.luname.CNME2008	AUTOAUDT	READ
	SYSPAUDT	

Resource	Group	Access
netid.luname.CNME3006	AUTOAUDT	READ
	SYSPAUDT	
netid.luname.CNME7009	SYSPAUDT	READ
netid.luname.CNME7201	AUTOAUDT	READ
	SYSPAUDT	
netid.luname.CNME7204.LISTCONN	AUTOAUDT	READ
	SYSPAUDT	
netid.luname.CNME7204.LISTOPID	AUTOAUDT	READ
	SYSPAUDT	
netid.luname.CNME7204.START	AUTOAUDT	READ
	SYSPAUDT	
netid.luname.CNME7204.STOP	AUTOAUDT	READ
	SYSPAUDT	
netid.luname.CNME8004	AUTOAUDT	READ
	SYSPAUDT	
netid.luname.CNME8200	AUTOAUDT	READ
	SYSPAUDT	
netid.luname.CNME8205	AUTOAUDT	READ
	SYSPAUDT	
netid.luname.CNME8206	AUTOAUDT	READ
	SYSPAUDT	
netid.luname.CNME8206.LISTINFO	AUTOAUDT	READ
	SYSPAUDT	
netid.luname.CNME8206.LSTSRVRS	AUTOAUDT	READ
	SYSPAUDT	
netid.luname.CNME8206.START	AUTOAUDT	READ
	SYSPAUDT	
netid.luname.CNME8206.STOP	AUTOAUDT	READ
	SYSPAUDT	
netid.luname.CNME8221	AUTOAUDT	READ
	SYSPAUDT	
netid.luname.CNME8225	AUTOAUDT	READ
111	SYSPAUDT	22.2
netid.luname.CNME8250.START	AUTOAUDT	READ
111	SYSPAUDT	55.5
netid.luname.CNME8250.STOP	AUTOAUDT	READ
(11 CND #E0040	SYSPAUDT	DEAD
netid.luname.CNME8260	AUTOAUDT	READ
(*11 CND 4F0001	SYSPAUDT	DEAD
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

Resource	Group	Access
netid.luname.CNMESNMP	AUTOAUDT	READ
	SYSPAUDT	
netid.luname.CNMEXCON	AUTOAUDT	READ
	SYSPAUDT	
netid.luname.CNMEXPRC	AUTOAUDT	READ
	SYSPAUDT	
netid.luname.CNMSBWLK	AUTOAUDT	READ
	SYSPAUDT	
netid.luname.CNMSGET	AUTOAUDT	READ
	SYSPAUDT	
netid.luname.CNMSGETB	AUTOAUDT	READ
	SYSPAUDT	
netid.luname.CNMSGETN	AUTOAUDT	READ
	SYSPAUDT	
netid.luname.CNMSSET	AUTOAUDT	READ
	SYSPAUDT	
netid.luname.CNMSTRAP	AUTOAUDT	READ
	SYSPAUDT	
netid.luname.CNMSWALK	AUTOAUDT	READ
	SYSPAUDT	
netid.luname.DEFAULTS	AUTOAUDT	READ
	SYSPAUDT	
netid.luname.DELCMD	SYSPAUDT	READ
netid.luname.DSIMCAP	SYSPAUDT	READ
netid.luname.DSIPIINS.COMMON	SYSPAUDT	READ
netid.luname.DSIPITSO.TSOSERV	AUTOAUDT	READ
	SYSPAUDT	
netid.luname.DSIPITSO.TSOSERV.CNMPROC/CNMSJTSO	*	READ
netid.luname.DSIPITSO.VERB	AUTOAUDT	READ
	SYSPAUDT	
netid.luname.DSIPITSO.VERB.HOMETEST	*	READ
netid.luname.DSIPITSO.VERB.NETSTAT	*	READ
netid.luname.DSIPITSO.VERB.NSLOOKUP	*	READ
netid.luname.DSIPIXCF	AUTOAUDT	READ
	SYSPAUDT	
netid.luname.DSIPIXTB	AUTOAUDT	READ
	SYSPAUDT	
netid.luname.DSISAUTH	AUTOAUDT	READ
	SYSPAUDT	
netid.luname.DSISRVR	AUTOAUDT	READ
	SYSPAUDT	
netid.luname.DSIUSNDM	AUTOAUDT	READ
	SYSPAUDT	
netid.luname.DSIZKNYJ	SYSPAUDT	READ

Resource	Group	Access
netid.luname.EKGVREXX	AUTOAUDT	READ
	SYSPAUDT	
netid.luname.EVERY	AUTOAUDT	READ
	SYSPAUDT	
netid.luname.EXCMD	AUTOAUDT	READ
	SYSPAUDT	
netid.luname.EZLE600A	AUTOAUDT	READ
	SYSPAUDT	
netid.luname.EZLE840A	SYSPAUDT	READ
netid.luname.EZLEAMAN	AUTOAUDT	READ
	SYSPAUDT	
netid.luname.EZLEF002	AUTOAUDT	READ
	SYSPAUDT	
netid.luname.EZLEPOLY	AUTOAUDT	READ
	SYSPAUDT	
netid.luname.FOCALPT	SYSPAUDT	READ
netid.luname.FREE.DELETE	SYSPAUDT	READ
netid.luname.FREE.UNCATALO	SYSPAUDT	READ
netid.luname.IDCAMS	AUTOAUDT	READ
	SYSPAUDT	
netid.luname.MODIFY	AUTOAUDT	READ
	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	READ
	SYSPAUDT	
netid.luname.NLDM.PURGE	AUTOAUDT	READ
	SYSPAUDT	
netid.luname.NLDM.TRACE	AUTOAUDT	READ
	SYSPAUDT	
netid.luname.NPDA.PURGE	AUTOAUDT	READ
	SYSPAUDT	
netid.luname.OVERRIDE.DSIARPT	SYSPAUDT	READ
netid.luname.OVERRIDE.DSIASRC	SYSPAUDT	READ
netid.luname.OVERRIDE.DSICLD	SYSPAUDT	READ

Resource	Group	Access
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	READ
	SYSPAUDT	
netid.luname.PLEXCTL	AUTOAUDT	READ
	SYSPAUDT	
netid.luname.PURGE.TIMER	AUTOAUDT	READ
	SYSPAUDT	
netid.luname.REACC	SYSPAUDT	READ
netid.luname.READSEC	AUTOAUDT	READ
	SYSPAUDT	
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
netid.luname.REFRESH.RMTSEC	SYSPAUDT	READ
netid.luname.RELCONID	SYSPAUDT	READ
netid.luname.RESETDB	AUTOAUDT	READ
	SYSPAUDT	
netid.luname.RESTORE	AUTOAUDT	READ
	SYSPAUDT	
netid.luname.RESTYLE	AUTOAUDT	READ
	SYSPAUDT	
netid.luname.REVISE	SYSPAUDT	READ
netid.luname.REVISMSG	SYSPAUDT	READ
netid.luname.REVISRPT	SYSPAUDT	READ
netid.luname.RID	SYSPAUDT	READ
netid.luname.SETBQL	AUTOAUDT	READ
	SYSPAUDT	
netid.luname.START.MOD	AUTOAUDT	READ
	SYSPAUDT	
netid.luname.START.TASK	AUTOAUDT	READ
	SYSPAUDT	
netid.luname.START.TASK.CNMTAMEL	*	READ
netid.luname.START.TSOSERV	AUTOAUDT	READ
	SYSPAUDT	
netid.luname.START.UNIXSERV	SYSPAUDT	READ
netid.luname.START.XCFGROUP	SYSPAUDT	READ

Resource	Group	Access
netid.luname.SUBMIT	AUTOAUDT	READ
	SYSPAUDT	
netid.luname.SUBMIT.BATCHTSO	*	READ
netid.luname.SUBMIT.SMTPJCL	*	READ
netid.luname.SWITCH	AUTOAUDT	READ
	SYSPAUDT	
netid.luname.TE	SYSPAUDT	READ
netid.luname.TRACE	AUTOAUDT	READ
	SYSPAUDT	
netid.luname.TS	SYSPAUDT	READ
netid.luname.VARY	AUTOAUDT	READ
	SYSPAUDT	
netid.luname.WRITESEC	AUTOAUDT	READ
	SYSPAUDT	

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() REXXTM functions.

Note: Additional resources are defined in the current release of the IBM Tivoli NetView for

z/OS Security Reference.

11.16 RACF Password Exit Settings

Table 11-39: Parameters for RACF IRRPWREX

Referenced by RACF0462

REXX Parameter	Setting
STIG_Compliant	'yes'
Pwd_minlen	8
numbers	'0123456789'
Lower_letters	'abcdefghijklmnopqrstuvwxyz'
Upper_letters	'ABCDEFGHIJKLMNOPQRSTUVWXYZ'
special	'\$@#.<+ &!*-%_>?:'

REXX Parameter	Setting
Pwd allowed chars	numbers Upper_letters special
Pwd_req_types	4
Pwd name allowed	'no'
Pwd name minlen	8
Pwd name chars	4
Pwd_min_unique	3
Pwd_min_unique_upper	'yes'
Pwd_max_unchanged	3
Pwd_max_unchanged_upper	'yes'
Pwd_max_unchanged_consecutive	'yes'
Pwd_all_unique	'no'
Pwd_no_consecutive	'no'
Pwd_no_consecutive_upper	'yes'
Pwd_min_new	4
Pwd_userID_allowed	'no'
Pwd_userID_chars	4
Pwd_repeat_chars	0
Pwd_repeat_upper	'yes'
Pwd_dict.0	8 /* Change this as words are added and deleted */
Pwd_dict.1	'IBM'
Pwd_dict.2	'RACF'
Pwd_dict.3	'PASSWORD'
Pwd_dict.4	'PHRASE'
Pwd_dict.5	'SECRET'
Pwd_dict.6	'IBMUSER'
Pwd_dict.7	'SYS1'
Pwd_dict.8	'12345678'
Pwd_dict.9	'9999999'
Pwd_prefix.0	33 /* Change this as values are added and deleted
Pwd_prefix.1	'APPL'
Pwd_prefix.2	'APR'
Pwd_prefix.3	'AUG'
Pwd_prefix.4	'ASDF'
Pwd_prefix.5	'BASIC'
Pwd_prefix.6	'CADAM'
Pwd_prefix.7	'DEC'
Pwd_prefix.8	'DEMO'
Pwd_prefix.9	'FEB'
Pwd_prefix.10	'FOCUS'
Pwd_prefix.11	'GAME'

REXX Parameter	Setting	
Pwd prefix.12	'IBM'	
Pwd prefix.13	'JAN'	
Pwd prefix.14	'JUL'	
Pwd prefix.15	'JUN'	
Pwd_prefix.16	'LOG'	
Pwd prefix.17	'MAR'	
	'MAY'	
Pwd_prefix.18		
Pwd_prefix.19	'NET'	
Pwd_prefix.20	'NEW'	
Pwd_prefix.21	'NOV'	
Pwd_prefix.22	'OCT'	
Pwd_prefix.23	'PASS'	
Pwd prefix.24	'ROS'	
Pwd_prefix.25	'SEP'	
Pwd_prefix.26	'SIGN'	
Pwd_prefix.27	'SYS'	
Pwd_prefix.28	'TEST'	
Pwd_prefix.29	'TSO'	
Pwd_prefix.30	'VALID'	
Pwd_prefix.31	'VTAM'	
Pwd_prefix.32	'XXX'	
Pwd_prefix.33	'1234'	