



# z/OS SECURITY TECHNICAL IMPLEMENTATION GUIDE (STIG) INSTRUCTION

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**Developed by DISA for the DOD** 

**UNCLASSIFIED** 

# TABLE OF CONTENTS

Data Collection	1
z/OS Data Collection Setup	1
z/OS Data Collection	17
ACF2 Data Collection	25
RACF Data Collection	28
TSS Data Collection	32
Data Set and Resource Data Collection	39
ACF2 Data Set and Resource Data Collection	41
RACF Data Set and Resource Data Collection	43
TSS Data Set and Resource Data Collection	45
XMLDATA Data Collection	46

# **Summary of Changes**

Revision Number	Document Revised	Description of Change	Release Date
V6R49	V6R48 (22 January 2021)	Removed CICS collection instructions	23 April 2021
V6R33	V6R32 (28 July 2017)	Added SMTSTC entries for DSNLIST	27 October 2017
V6R32	V6R31 (28 April 2017)	Added CASECAUT resource for TSS for resources Auditors may require. Updated list of Authorized User Groups.	28 July 2017
V6R30	V6R29 (28 Oct 2016)	Removed unnecessary product instructions. Added CA1STC to DSNLIST instructions.	27 January 2017
V6R29	V6R28 (22 July 2016)	Added RACFREXX and SYSREXX entries to the Dataset Group table.	28 October 2016

#### **Data Collection**

#### z/OS Data Collection Setup

The following instructions will be used to collect information and data that will be used in the collection process in conducting the Security Readiness Review (SRR).

**Note**: This document contains several references to the character strings "xxxx" and "mmmyyyy". Throughout this document, replace all occurrences of:

- 1) "xxxx" with the SYSNAME specified in the IEASYSxx member in the logical parmlib concatenation
- 2) "mmmyyyy" with the month and year of the review, e.g., MAR1997

Note: This document contains several references to the character strings "VxRxx" and "Vvrr":

- "VxRxx" refers to Version and Release of the z/OS STIG Instruction (e.g., V5R12).
- "Vvrr" refers to Version and Release of the z/OS STIG Instruction (e.g., V512).

The data gathered will be saved in the following partitioned data sets:

- 1) SYS3.FSO.xxxx.mmmyyyy.CNTL Script, JCL, and Tables
- 2) The data set that contains the information collected in the z/OS SRRAUDIT Dialog Management Procedures.

These permanent data sets must be located on a domain accessible to the reviewing personnel and will be required for follow-up SRR data analysis. The data sets should be backed up and retained by the site for future reference.

A copy of the z/OS STIG Instruction should be provided to the site prior to the start of the SRR process.

1. Process to be run for Sites running SRRAUDIT  ***** If not running SRRAUDIT, skip this step and go on to Step 2. *****  a) Edit SYS2.SRRAUDIT.CNTL(CACJAUFU).			
	<u> </u>		
		 a)	Edit SYS2.SRRAUDIT.CNTL(CACJAUFU).
			Replace the JOB card with a valid JOB card.
			Change xxxx and mmmyyyy in the SRRHLQ variable as follows
			parmlib concatenation.
		 b)	members from the SRRAUDIT libraries to SYS3.FSO libraries. This job prepares the information for a full review to be performed after completing the
		 c)	Skip to Step 5.

2.	Upload	the files located in U_zOS_VxRxx_SRR.zip to the host.
	a)	Allocate two partitioned data sets on the host.
		Using ISPF/PDF data set utilities or an equivalent program, allocate the following data sets with the indicated characteristics:
		SYS3.FSO.Vvrr.JCL – Batch restore JCL data set
		Organization:PO Record format:FB Record length:80 Block size:6160 (suggested) Primary tracks:1 Secondary tracks:1 Directory blocks:1
		SYS3.FSO.xxxx.mmmyyyy.PARMLIB – Copies of system parmlib members
		Organization:PO Record format:FB Record length:80 Block size:6160 (suggested) Primary tracks:2 Secondary tracks:1 Directory blocks:5
	b)	Using any 3270 Terminal Host Emulation or File Transfer Protocol software, establish a host connection:
		1) Perform a <b>Text</b> transfer of <b>RESTJCL.txt</b> to <b>SYS3.FSO.V</b> <i>vrr.</i> <b>JCL</b> ( <b>RESTJCL</b> ). Ensure that Transfer Options are set to <b>ASCII CRLF</b> .
		2) Perform a <b>Binary</b> transfer of <b>V</b> <i>x</i> <b>R</b> <i>xx</i> <b>.DUMP.xmi</b> to create <b>SYS3.FSO.V</b> <i>vrr</i> <b>.DUMP.XMI.</b> Ensure that Transfer Options are set to the following:

RECFM(F) BLKSIZE(6160) LRECL(80) SPACE(75 15) TRACKS

3.	Subi	mit	RESTJCL to receive and restore data sets.
		a)	Edit SYS3.FSO.Vvrr.JCL(RESTJCL) and perform the following:
			<ol> <li>Replace the JOB card with a valid JOB card.</li> <li>Make changes specified in the JCL comments.</li> <li>Make changes to the UNIT and VOLUME entries for the RECEIVE in STEP1.</li> </ol>
		b)	Submit <b>RESTJCL</b> for execution. This JOB will receive and restore data sets used in the Data Collection Process. Review the job for error messages to ensure successful execution, particularly the following:
			1) The ISPLOG and SYSTSPRT files of each report step
			2) The JOBLOG or JESLOG files
			The <b>RESTJCL</b> job will create the following data sets:
			SYS3.FSO.Vvrr.DUMP SYS3.FSO.xxxx.mmmyyyy.CNTL SYS3.FSO.xxxx.mmmyyyy.EXAM.SCRIPT SYS3.FSO.xxxx.mmmyyyy.LOADLIB
		c)	Upon successful completion and creation of the above data sets, the following data set may be deleted:
			SYS3.FSO.Vvrr.DUMP SYS3.FSO.Vvrr.DUMP.XMI SYS3.FSO.Vvrr.JCL

### 4. Customize CA Auditor report options.

Invoke the CA Auditor (formally known as CA Examine) application from within ISPF/PDF. This is typically done by executing **%EXAMINE** from ISPF/PDF option 6.

From the CA Auditor primary menu, enter **0.3** from the command line to display the **SELECT REPORT OPTIONS** menu. Enter the following values:

Page header: SRR - site name - xxxx

Maximum lines per page: 55 (suggested)

Report destination: LOCAL

Sysout class: X (must be a JES held output class)

Upper case: YES (suggested)

Allocated hold: YES

After all the information is entered, press the **ENTER** key to save the values and return to the CA Auditor primary menu.

**Note:** If the **PF3** key or the **END** command is issued, the report option values will not be saved.

## \_\_\_\_ 5. Verify that Dialog Dataset is populated.

**Note**: Review the instructions in the z/OS SRRAUDIT Dialog Management Procedures.

\_\_\_\_ a) Verify the Authorized User Groups are complete.

Note: For sites to determine if the SRRAUDIT process is installed, review data sets that have the high-level qualifiers of SYS2.SRRAUDIT and SYS3.SRRAUDIT. The symbolic SRRAUL will be data set SYS3.SRRAUDIT.DATA. The members in this data set should be evaluated to verify that the contents are correct. This data set should contain the following members:

APPBAUDT	APPDAUDT	APPSAUDT	AUDTAUDT	AUTOAUDT
BMCADMIN	BMCUSER	CHGOWNER	CICBAUDT	CICDAUDT
CICSAUDT	CICSDEF	CICUAUDT	CONSOLES	DABAAUDT
DAEMAUDT	DASBAUDT	DASDAUDT	DPCSAUDT	DUMPAUDT
EMERAUDT	FTPUSERS	IOABAUDT	MICSADM	MICSUSER
MQSAAUDT	MQSDAUDT	MVREAD	MVUPDT	OMVSAUDT
OPERAUDT	PARMSTC	PCSPAUDT	PRODAUDT	ROSCAUTH
SECAAUDT	SECBAUDT	SECDAUDT	SERVAUDT	SMFBAUDT
STCGAUDT	SUPRAUDT	SYSCAUDT	SYSPAUDT	TAPDAUDT
TAPEAUDT	TSTCAUDT	WEBAAUDT		

b) Ensure that all Products are identified.
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\_\_\_ c) Ensure that all Vulnerability Questions are answered.

\_\_\_\_ d) Ensure that the Asset Definition Process is completed to provide the scripts with the Classification of the system being reviewed.

# \_\_\_ 6. Resources that may be required for Auditor.

\_\_ a) Review the following table for possible resources that the Auditor may require. This table includes resources for specific products.

Product	Resource	Resource	Access	Logging
	Class			
General	DATASET	System-level data sets	READ	As
				Required
General	DATASET	Data sets created by the jobs in this	ALTER	No
		document		
General	TSOAUTH	CONSOLE	READ	No
General	TSOAUTH	PARMLIB	READ	No
General	OPERCMDS	MVS.DISPLAY	READ	No
General	OPERCMDS	MVS.MCSOPER.*	READ	No
General	OPERCMDS	JES2.DISPLAY	READ	No
General	SERVAUTH	EZB.STACKACCESS	READ	No
General	FACILITY	IRR.DIGTCERT.LIST	CONTROL	No
RACF	OPERCMDS	MVS.MODIFY.STC.AXR.*	UPDATE	Yes
RACF	OPERCMDS	MVS.SYSREXX.EXECUTE.*	READ	No
SDSF	OPERCMDS	MVS.MODIFY.STC.SDSF	UPDATE	Yes
SDSF	OPERCMDS	SDSF.MODIFY.DISPLAY	READ	No
SDSF	SDSF	ISFOPER.SYSTEM	READ	No
SDSF	SDSF	ISFCMD.ODSP.ULOG	READ	No
TSS	CASECAUT	TSSCMD.ADMIN.MODIFY	USE	No
WebSphere	PROGRAM	CSQUTIL	EXECUTE	No
MQ				
WebSphere	MQCONN	ssid.BATCH	READ	No
MQ				
WebSphere	MQCMDS	ssid.DISPLAY.	READ	No
MQ				
WebSphere	MQQUEUE	ssid.SYSTEM.COMMAND.INPUT	UPDATE	No
MQ				
WebSphere	MQQUEUE	ssid.SYSTEM.COMMAND.REPLY	UPDATE	No
MQ				
WebSphere	MQQUEUE	ssid.SYSTEM.CSQUTIL	UPDATE	No
MQ				
Unix System	UNIXPRIV	SUPERUSER.FILESYS	READ	No
Services				
Unix System	FACILITY	BPX.SUPERUSER	READ	No
Services				
CA Auditor	FACILITY	CSVDYNEX.LIST	READ	No
CA Auditor	PROGRAM	LTDMMAIN	EXECUTE	No

CA DFHSTART CICS

CA CICST1 CICS CA CICSP1 CICS

7. Modify	members in SYS3.FSO.xxxx.mi	mmyyyy.CNTL.		
a)	Customize JCL member JOBC	ARD.		
	<ol> <li>Change JOB card statement</li> <li>Change XXXX to reflect the IEASYSxx member.</li> <li>Change MMMYYYYY to reflect the IEASYSxx member.</li> <li>Optional approach, change X qualifiers for the data sets created.</li> </ol>	current SYSNAME cet the current month <i>XXXX.MMMYYYYY</i> t	specified in and year. o any identif	the
b)	Review the JCL, edit, and make <b>EXAMRPTS</b> . Change the varia <b>SYS3.FSO.</b> <i>xxxx.mmmyyyy</i> . <b>CN</b> The following are the current de	bles to reflect the cu <b>TL</b> and the data set u	rrent	
	CNTL=SYS2.SRRAUDIT.CNT CAILIB=SYS2A.EXAMINE.C. CAICLIB=SYS2.EXAMINE.C. CAIISPP=SYS2.EXAMINE.C. CAIISPM=SYS2.EXAMINE.C. CAIISPT=SYS2.EXAMINE.C. CAIDBS1=SYS3.EXAMINE.C. CAIDBS2=SYS2.EXAMINE.C.	AILIB AICLIB AISPP AIISPM AIISPT AIDBS1		
	Change any of the above entries	to reflect the correct	t data sets.	
c)	Customize member STCILIST. STC/Job name list. Review all S the system to determine if the ST that queued to the STC/Job. The that falls into the identifier type CICS regions:	TCs and Jobs that an ΓCs or Jobs can be u identifier can be rep	re currently r sed to collect peated for each	unning on t data sets ch STC/Job
CA CIO	CSJ1 CICS	ZCICR010	ZCICT010	ZCICA010

ZCICR010 ZCICT010 ZCICA010

ZCICR010 ZCICT010 ZCICA010 ZCICR010 ZCICT010 ZCICA010

## 8. Modify the list of data set entries for the DSNLIST member.

a) The **DSNLIST** member is used as input into the Sensitive Reporting Subsystem. Before the Sensitive Reports are produced, duplicate elimination is performed to ensure that data sets are only referred once within the **SENSITVE.RPT** PDS report members. The duplicate elimination process occurs after **all** input is processed, which includes this **DSNLIST** member and automatic extracts from numerous CA Auditor (formally known as CA Examine) and ACP reports.

Edit SYS3.FSO.xxxx.mmmyyyy.CNTL(DSNLIST) to create a list of system and product data set entries using the following guidelines and table. The suggestions following the table will help determine the proper data set names to use.

- 1) Use a two-character identifier to indicate the type of data set entry.
- 2) The same identifier can be repeated as often as necessary.
- 3) Data set entries must be a fully qualified data set name.
- 4) All identifiers must begin in Column 1.
- 5) All data set entries must begin in Column 4.
- 6) Do not use quotes with the data set entry.

This table includes a list of valid data set identifiers, the type of data set entry associated with each identifier, and the member name of the report saved in the **SENSITVE.RPT** PDS.

**Note**: The identifier codes followed by a footnote are **optional** input into the **DSNLIST**. The Sensitive Reporting process generates these entry types automatically. Unless you have a special circumstance, you do not need to code these entries in the **DSNLIST**.

Identifier	Dataset Group	Report Name	Note
Code			
AA	SYS1.PARMLIB (Logical Parmlib data sets)	PARMRPT	1
AB	SYS1.LINKLIB	LINKRPT	2
AC	SYS1.SVCLIB	SVCRPT	2
AD	SYS1.IMAGELIB	IMAGERPT	2
AE	SYS1.LPALIB	LPARPT	2
AF	SYS1.NUCLEUS	NUCLRPT	2
AG	SYS1.UADS	UADSRPT	3
AH	SYS1.DUMP	DUMPRPT	3 4
AI	SYS1.TRACE	TRACERPT	2 4
AJ	RACF REXX Exit Datasets	RACFREXX	5
AK	System REXX Datasets	SYSREXX	5
BA	APF-authorized	APFXRPT	6
BB	LINKLIST	LNKXRPT	6
BC	LPA	LPAXRPT	6
BD	Libraries containing PPT modules	PPTXRPT	6
BE	Libraries containing system exits	MVSXRPT	6
BF	TSO APF-authorized	APFTRPT	6
BG	SMF collection (i.e., SYS1.MAN)	SMFXRPT	3 6
BH	JES2 procedures	PROCRPT	3 7
BI	Master System catalog	CATMRPT	3
BJ	System User catalogs	CATURPT	3 6
BK	SMP/E installation (i.e., CSIs)	SMPERPT	6
BL	System PAGE	PGXXRPT	3
BM	JES2 System data sets	JES2RPT	6
BN	SMF dump/backup	SMFBKRPT	4 8
ВО	System DASD backup	BKUPRPT	4 8
BP	ACP and security-related	ACPRPT	3 9
BQ	System-level product installation	PRODRPT	
BR	FDR Installation Datasets	FDRRPT	8
BS	IBM Health Checker STC Data Sets	HCKSTC	8
C0	Compuware Abend-Aid User Data Sets	AIDUSER	8
C1	CA VTAPE Installation Data Sets	VTAPERPT	8
C2	BMC MAINVIEW for z/OS STC Data Sets	MVZSTC	8
C3	BMC MAINVIEW for z/OS Installation Data Sets	MVZRPT	8

<sup>&</sup>lt;sup>1</sup> SYS1.PARMLIB and/or Logical Parmlib obtained from System Control Blocks that are set during an IPL.

<sup>&</sup>lt;sup>2</sup> Datasets are hard coded within the script.

<sup>&</sup>lt;sup>3</sup> Datasets obtained from commands and/or System Control Blocks available to the system.

<sup>&</sup>lt;sup>4</sup> Additional data sets can be obtained from detailed instructions.

<sup>&</sup>lt;sup>5</sup> Data sets enqueued to ARX Started Tasks.

<sup>&</sup>lt;sup>6</sup> The data sets for this group are obtained from SYS3.FSO.xxxx.mmmyyyy.EXAM.RPT data set.

<sup>&</sup>lt;sup>7</sup> The data sets for this group are obtained from the STC's JCL.

<sup>&</sup>lt;sup>8</sup> Data sets obtained from information requested in the Dialog Process.

<sup>&</sup>lt;sup>9</sup> Data sets obtained from Product reports and/or within data sets.

Identifier Code	Dataset Group	Report Name	Note
C4	Compuware Abend-Aid STC Data Sets	AIDSTC	8
C5	Compuware Abend-Aid Installation Data Sets	AIDRPT	8
C6	CA MIM STC Data Sets	MIMSTC	8
C7	CA MIM Installation Data Sets	MIMRPT	8
C8	CA MICS User Data Sets	MICSUSER	8
C9	CA MICS Installation Data Sets	MICSRPT	8
CA	CICS STC Data Sets	CICSSTC	4 8
СВ	FEP/NCP	NCPRPT	4 8
CC	VTAM	VTAMRPT	8
CD	NC-PASS STC Data Sets	NCPASSTC	8
CE	UNIX HFS Files	HFSRPT	3
CF	UNIX System Services	USSRPT	4
CG	UNIX STEPLIBLIST	STLLRPT	3
СН	CL/SuperSession STC Data Sets	KLSSTC	8
CI	DFSMS	SMSRPT	4 9
CJ	CA 1 (TMC, AUDIT, and optional RDS and VPD data sets)	CA1RPT	9
CK	CA 1 Started Task data sets	CA1STC	8
CL	WebSphere MQ	MQSRPT	4
CM	TCPIP	TCPRPT	4
CN	CA Auditor (CA Examine) User Data Sets	ADTUSER	8
CO	CA Auditor (CA Examine) Installation Data Sets	ADTRPT	8
СР	HTTP	HTTPRPT	4
CQ	CICS Installation Data Sets	CICSRPT	4 8
CR	FTP	FTPRPT	4 9
CS	WebSphere Application Service	WASRPT	4
CT	SDSF	ISFRPT	8
CU	HASPINDX	SDSFRPT	3
CV	NETVIEW STC Data Sets	NETVSTC	8
CW	NETVIEW Installation Data Sets	NETVRPT	8
CX	TADz STC Data Sets	TADZSTC	8
CY	TADz Installation Data Sets	TADZRPT	8
CZ	CA VTAPE STC Data Sets	VTAPESTC	8
D0	CONTROL-M/Restart Installation/Operations Data Sets	CTRRPT	8
D1	CONTROL-O User Data Sets	CTOSTC	8
D2	CONTROL-O Install/Operations Data Sets	CTORPT	8
DA	CA 1 Installation Data Sets	CA1PROD	8
DB	Catalog Solution Installation Data Sets	CSLPROD	8
DC	CL/SuperSession Installation Data Sets	KLSRPT	8
DD	NC-PASS Installation Data Sets	NCPASRPT	8
DE	SRRAUDIT User Data Sets	SRRUSER	8
DF	SRRAUDIT Installation Data Sets	SRRPROD	8

Identifier Code	Dataset Group	Report Name	Note
DG	ROSCOE STC Data Sets	ROSCSTC	8
DH	ROSCOE Installation Data Sets	ROSCRPT	8
DI	TDMF Installation Data Sets	TDMFRPT	8
DJ	VSS User Data Sets	VSSUSER	8
DK	VSS Installation Data Sets	VSSRPT	8
DL	HCD User Data Sets	HCDUSER	8
DM	HCD Installation Data Sets	HCDRPT	8
DN	ICSF STC Data Sets	ICSFSTC	8
DO	ICSF Installation Data Sets	ICSFRPT	8
DP	INCONTROL (IOA) User Data Sets	IOAUSER	8
DQ	INCONTROL (IOA) STC Data Sets	IOASTC	8
DR	INCONTROL (IOA) Installation Data Sets	IOARPT	8
DS	CONTROL-D User Data Sets	CTDUSER	8
DT	CONTROL-D STC Data Sets	CTDSTC	8
DU	CONTROL-D Installation Data Sets	CTDRPT	8
DV	CONTROL-M User/Application JCL Data Sets	CTMJCL	8
DW	CONTROL-M User Data Sets	CTMUSER	8
DX	CONTROL-M STC Data Sets	CTMSTC	8
DY	CONTROL-M Installation Data Sets	CTMRPT	8
DZ	CONTROL-M/Restart User Data Sets	CTRUSER	8
EA	CA Common Services Installation Data Sets	CCSRPT	8
EB	CSSMTP STC Datasets	SMTSTC	7

**Note**: All references for data set masks are used to collect data sets that may be

associated with the Dataset Group. The list of data sets should be reviewed to

ensure that the data sets collected are associated to the Dataset Group.

Example: The data set mask of \*\*.\*SMF\* will collect all data sets that have a second,

third, fourth, etc. qualifier that contains SMF. Ensure that all data sets

collected are associated to the SMF dump/backup data set type.

Example: Additional data set masks (such as \*.\*BPX\*, \*\*BPA\*, \*\*CMX\*, \*\*OMVS\*,

\*.\*FOM\*.) are used to collect data sets associated with the Dataset Group. The list of data sets should be reviewed to ensure that the data sets collected are associated to the Executive software being reviewed and not data sets

associated with a respective application.

→ SYS1.DUMP – The SYS1.DUMPxx data set are automatically collected. Addition Dump data sets can be identified by reviewing the logical parmlib concatenation data sets for the current COMMNDxx member. Find the COM= which specifies the DUMPDS NAME (DD NAME=name-pattern) entry, the name-pattern is used to identify additional Dump data sets. Another option to obtain the name-pattern is to issue the **D D,ST** MVS command

under SDSF.

- → SYS1.TRACE The SYS1.TRACE data set is collected in this process. Additional Trace data sets can be obtained by a search of the JES2 proclibs for the member that executes program AHLGTF, HHLGTF, and IHLGTF. Obtain the data set specified in the IEFRDER DD statement.
- → SMF dump/backup Determine the names of the automated procedures used to dump the SMF data sets by reviewing SYSLOG messages. Review these procedures in the JES2 proclibs for the data sets created. Use ISPF/PDF option 3.4 data set name list to enter \*\*.\*SMF\*, or replace SMF with the actual domain SMF ID (DAILY, WEEKLY, etc.).
- → System DASD backup If DFHSM is used, review the **DFHSM** procedure and note the **CMD=xx** parameter on the EXEC statement. Browse the **ARCCMDxx** member of the data set allocated by the **HSMPARM** DD statement for the entries **BACKUPPREFIX**(*prefix*) and **MIGRATEPREFIX**(*prefix1*). The system backup data set names will be *prefix*.**BACKTAPE.DATASET** and *prefix1*.**HMIGTAPE.DATASET**.

If FDR is used, use **FDRABR.** for the data set prefix.

→ System-level product installation – SMP/E target and distribution data sets, and non-SMP/E installation data sets.

**Note**: SMP/E CSI data sets are automatically included in the **SMPERPT** report.

- → CICS STC Datasets Review **EXAM.RPT(CICSPROC)**. CICS system data set names are identified by DD names beginning with **DFH**. These data sets are maintained by the CICS STC and/or batch job and the system programming personnel. Use ISPF/PDF option 3.4 data set name list (e.g., \*\*\*.\*CICS\*) to obtain a comprehensive list of CICS STC data sets. These data sets are referenced in proclib members or the CICS batch JCL.
- → FEP/NCP Search the JES2 proclibs for the member that executes program ISTINM01. These data sets are used for the FEP at the site. If the domain does not have a FEP the collection of these data sets can be bypassed. Review the VTAM procedure for load and dump data sets for the FEP. Use ISPF/PDF option 3.4 data set name list to enter \*\*.\*NCP\*. This can be used to obtain the NCP system, NCP source definition, NCP load modules, NCP host dump, and NCP utility programs data sets.
- → UNIX System Services Product Data Sets Use ISPF/PDF option 3.4 data set name list to enter \*.\*BPX\*, \*\*.BPA\*, \*\*.CMX\*, \*\*.OMVS\*, and \*.\*FOM\*.

- → DFSMS Review **IGDSMSxx** members in **SYS1.PARMLIB** to obtain the ACDS and COMMDS data set names. Use the prefixes of these data sets to obtain the SCDS, ACS routine, and any backup data set names. Use ISPF/PDF option 3.4 data set name list to enter \*\*.**DFSMS**\*.
- → WebSphere MQ Search the JES2 proclibs for members that execute programs with the prefix of CSQ. Review proclib members for *ssidMSTR* and *ssidCHIN*. Additional data sets can be found by reviewing the *ssidMSTR* JESMSGLG. Find CSQJ001I messages to obtain the LOGCOPY data sets. Find the CSQY122I message to obtain the ARCPRFX1 and ARCPRFX2 data set high-level qualifiers. Use ISPF/PDF option 3.4 data set name list to enter \*\*.MQ\*.
- → TCPIP Review the **TCPIP** procedures and search the JES2 proclibs for members that execute programs with prefixes of **MVP** and **EZA**. Use ISPF/PDF option 3.4 data set name list to enter \*\*.\*TCP\*and SYS1.TCPIP.SEZ\*. The prefixes of the product data sets begin with SYS1.TCPIP.AEZA, and SYS1.TCPIP.SEZA.
- → HTTP Review the **HTTP** procedures and search the JES2 proclibs for members that execute program **IMWHTTPD**. Use ISPF/PDF option 3.4 data set name list to enter **SYS1.IMW**.
- → CICS Installation Datasets Review **EXAM.RPT(CICSPROC)**. CICS system data sets are maintained by the system programming personnel. These data sets include the CICS SIT allocated by the **SYSIN** DD statement. Use ISPF/PDF option 3.4 data set name list (e.g., \*\*.\*CICS\*) to obtain a comprehensive list of CICS Installation data sets, including installation data sets not referenced in proclib members.

**Note**: The libraries allocated by the **STEPLIB** DD statement are APF-authorized and are automatically included in the **APFXRPT** report.

- → FTP Review the FTPD procedure and search the JES2 proclibs for members that execute programs with prefix of FTP. Review the data set allocated to the SYSFTPD DD statement in the FTPD procedure for the BANNER entry that is identified to a data set.
- → WebSphere Application Service Use ISPF/PDF option 3.4 data set name list to enter SYS2.WAS\*, SYS2.OE, SYS2.EJS, SYS1.JAVA, SYS1.DB2, and SYS1.GLD and data sets SYS1.CSSLIB, SYS1.LE.SCEELKED, SYS1.LE.SCEELKEX, and SYS1.LE.SCEEOBJ.

### 9. For sites that have ACF2 as the Security Product:

a) Review, edit, and make changes where necessary to SYS3.FSO.xxxx.mmmyyyy.CNTL(CAAT0001). It is recommended that the member CAAT0001 be reviewed and modified to ensure that all resources have been identified. The format for this member is an eight-character Resource Class name, starting in column 1, and a three-character Type Code, starting in column 9, used by ACF2.

This information is verified in this process using the internal and external CLASMAP definitions. The Resource Classes and Type Codes that are identified in CAAT0001 may or may not be defined in the CLASMAP definitions. A Resource Class can be repeated with different Type Codes within CAAT0001. An example:

C + 1 C123456789012 TRANS CKC TRANS CKA

If a Resource Class is identified in both internal and external CLASMAP definitions, the process will use the Type Code that is in the external CLASMAP definition. If a Resource Class is not in the external CLASMAP definition, the process will use the *first* occurrence of the Resource Class in the internal CLASMAP definition.

If the Resource Class does not appear in the CLASMAP or the Type Code for the Resource Class is not appropriate, enter the Resource Class and Type Code into CAAT0001 to be used by the process. An example where Resource Class PROGRAM is not defined in the external CLASMAP definition, enter the following into CAAT0001:

#### PROGRAM PGM

The process will possibly use the following:

#### PROGRAM CPC

The INFODIR entries may identify Type Codes that are not defined in the CLASMAP definition. If a Type Code can be identified to a Resource Class to be collected, enter the information into **CAAT0001**.

*Note for CICS:*Review CICS STCs for ACF2PARM DD statement. Within each ACF2PARM data set, find CICSKEY for RESOURCE=TRANS and enter the TYPE= entry in CAAT0001. An example follows:

## CICSKEY OPTION=VALIDATE, TYPE=KTS, RESOURCE=TRANS

Enter the following in CAAT0001:

TRANS KTS

#### z/OS Data Collection

CA Auditor (formally known as CA Examine) will be used as the primary vehicle to collect the z/OS data necessary to conduct the Security Readiness Review (SRR). Almost all CA Auditor data collection will be accomplished in batch. However, some online interaction using ISPF/PDF and CA Auditor will be necessary.

The data gathered will be saved in the following partitioned data sets:

- 1) SYS3.FSO.xxxx.mmmyyyy.EXAM.RPT CA Auditor reports
- 2) SYS3.FSO.xxxx.mmmyyyy.PARMLIB Copies of various system parmlib members
- 3) SYS3.FSO.xxxx.mmmyyyy.PARMLIB.ACCESS Inaccessible data sets referred to in SYS1.PARMLIB
- 4) **SYS3.FSO.**xxxx.mmmyyyy.**PDI** Finding Analysis Detail reports

These permanent data sets must be located on a domain accessible to the reviewing personnel and will be required for follow-up SRR data analysis. The data sets should be backed up and retained by the site for future reference.

1. Submit	JCL to execute the batch CA Auditor job.
a)	Review the JCL, edit, and make changes where necessary to SYS3.FSO.xxxx.mmmyyyy.CNTL(EXAMJOB).
b)	Copy <b>SYS3.FSO.</b> <i>xxxx.mmmyyyy</i> <b>.CNTL(JOBCARD)</b> to the beginning of member and make any changes needed to the JOB statement.
c)	Submit <b>EXAMJOB</b> for execution. CA Auditor (formally known as CA Examine) report steps may end with a condition code of <b>0</b> although errors occurred. Review the job for error messages to ensure successful execution, particularly the following:
	1) The ISPLOG and SYSTSPRT files of each report step
	2) The JOBLOG or JESLOG files
	Note: The CA Auditor job accesses numerous system-level data sets. Access authorization problems may not be obvious at first because the CA Auditor reports will still be produced. However, the information in these reports may not be complete. It is imperative that the job is thoroughly examined for error messages, especially from the ACP.
	The <b>EXAMJOB</b> job will create the PDS

SYS3.FSO.xxxx.mmmyyyy.EXAM.RPT and save each report in individual members. These members will be referenced in the z/OS STIG under the

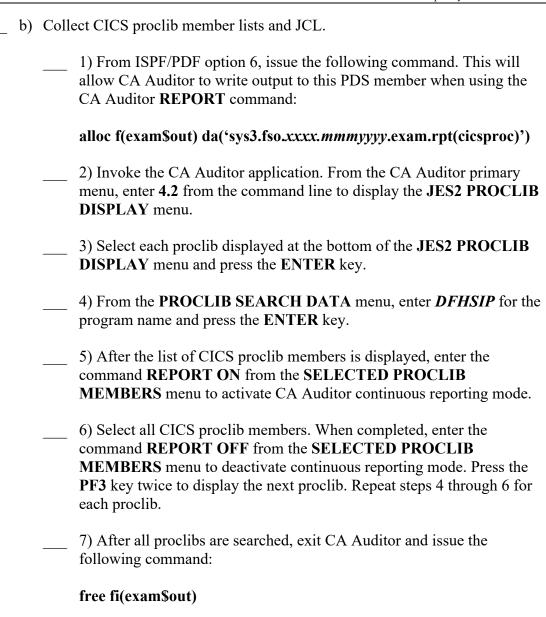
Vulnerability Checks for subsequent analysis.

# 2. Collect data using the online CA Auditor ISPF application.

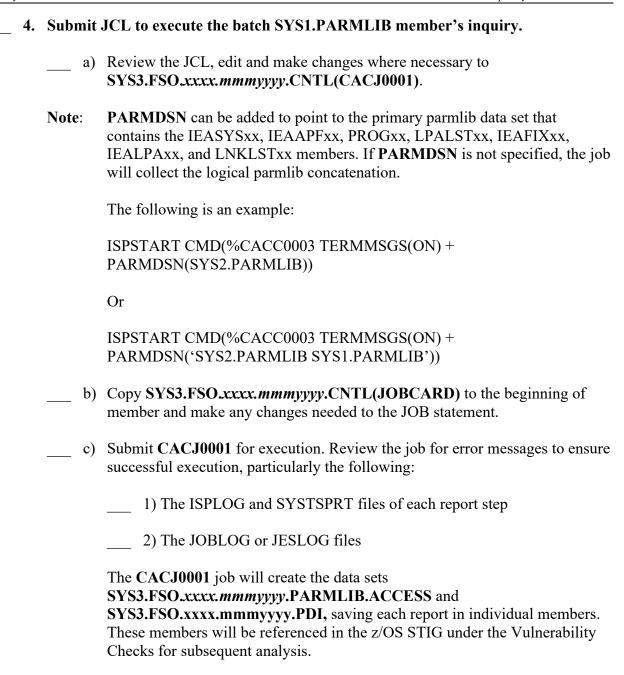
Some functions under CA Auditor (formally known as CA Examine) are not supported in batch. Therefore, certain CA Auditor reports must be executed online.

Note:	If JES2 contains dynamic proclibs, there may be a problem with CA Auditor reporting these proclib data sets. If the system proclibs, data sets containing started task and TSO procedures, are dynamically allocated to JES2, this step will have to be bypassed.		
a)	Collect JES2 proclib member lists.		
	1) From ISPF/PDF option 6, issue the following command. This will allow CA Auditor to write output to this PDS member when using the CA Auditor <b>REPORT</b> command:		
	alloc f(exam\$out) da('sys3.fso.xxxx.mmmyyyy.exam.rpt(proclibs)')		
	2) Invoke the CA Auditor application. From the CA Auditor primary menu, enter <b>4.2</b> from the command line to display the <b>JES2 PROCLIB DISPLAY</b> menu.		
	3) Enter the command <b>REPORT ON</b> from the command line to activate CA Auditor continuous reporting mode.		
	4) Select each proclib that contains started task procedures and TSO procedures. They are displayed at the bottom of the JES2 PROCLIB DISPLAY menu and press the ENTER key.		
	5) From the <b>PROCLIB SEARCH DATA</b> menu, enter a <i>hyphen</i> (-) for program mask and press the <b>ENTER</b> key. After the list of proclib members is displayed, press the <b>PF3</b> key twice to display the next proclib. Repeat this same program mask search for each proclib.		
	6) After all proclibs are searched, enter the command <b>REPORT OFF</b> from the command line to deactivate CA Auditor continuous reporting mode and exit the CA Auditor application.		
	7) Exit CA Auditor and issue the following command:		

free fi(exam\$out)



3.	Other	required information that is not obtained from CA Auditor.
		leans and tools used to gather the following information is discretionary, but this nation must be recorded.
	*	Save a copy of the JES2 initialization parameter member(s) in <b>SYS3.FSO.</b> xxxx.mmmyyyy. <b>PARMLIB</b> using the same JES2 member name(s). This parameter list is referenced by the <b>HASPPARM DD</b> statement in the JES2 system procedure.
	1	Save a copy of each of the following Logical Parmlib data sets or SYS1.PARMLIB members (where xx is any two-character suffix) in SYS3.FSO.xxxx.mmmyyyy.PARMLIB using the same member name:
		IKJTSOxx IEAAPPxx
		BPXPRMxx



# 5. Submit JCL to execute SRRAUDIT Product Analysis

**Note**: If WebSphere MQ is identified in the Products, ensure that the individual submitting the **CACJ0005** job has the following resource access authorizations (where *ssid* is the subsystem name for each WebSphere MQ):

<b>Resource Class</b>	Entity	Access
PROGRAM	CSQUTIL	EXECUTE
MQCONN	ssid.BATCH	READ
MQCMDS	ssid.DISPLAY.	READ
MQQUEUE	ssid.SYSTEM.COMMAND.INPUT	UPDATE
MQQUEUE	ssid.SYSTEM.COMMAND.REPLY	UPDATE
MQQUEUE	ssid.SYSTEM.CSQUTIL	UPDATE

Ensure that each WebSphere MQ STCs are active on the system before job submission.

Note:		this job, dependent on the products used on the system.				
	a)	Review the JCL, edit, and make changes where necessary to SYS3.FSO.xxxx.mmmyyyy.CNTL(CACJ0005).				
	b)	Copy <b>SYS3.FSO.</b> xxxx.mmmyyyy. <b>CNTL(JOBCARD)</b> to the beginning of member and make any changes needed to the JOB statement.				
	c)	If WebSphere MQ is installed on the system, ensure the data sets allocated by the STEPLIB DD statement in MQS20 contain modules CSQUTIL and CSQCMTXT (SCSQAUTH and SCSQANLE data sets).				
	d)	Submit <b>CACJ0005</b> for execution. Review the job for error messages to ensure successful execution, particularly the following:				
		1) The ISPLOG and SYSTSPRT files of each report step				
		2) The JOBLOG or JESLOG files				
		The CACJ0005 job will modify/add members to data set SYS3.FSO.xxxx.mmmyyyy.PDI, saving each report in individual members. These members will be referenced in the z/OS STIG under the Vulnerability Checks for subsequent analysis.				

The CACJ0005 job will create and/or modify/add members to data sets: SYS3.FSO.xxxx.mmmyyyy.TABLE, table information on Products. This data set will be used during subsequent data collection jobs.

The following data sets will be created depending on the Products used on the system:

SYS3.FSO.xxxx.mmmyyyy.CA1RPT – CA 1 utility reports
SYS3.FSO.xxxx.mmmyyyy.CONSOLE – CA Examine Console report
SYS3.FSO.xxxx.mmmyyyy.MQSRPT – WebSphere MQ utility reports
SYS3.FSO.xxxx.mmmyyyy.IOA.RPT – IOA product configuration data
SYS3.FSO.xxxx.mmmyyyy.SMFOPTS – CA Examine SMF Options report
SYS3.FSO.xxxx.mmmyyyy.TABLE – SRRAUDIT CNTL table entries

Note: If STEP0020 produces a condition code of 4, review the SYSTSPRT output and correct the Dialog data set as specified using the SRRAUDIT Dialog Management document. Other steps will run only if STEP0020 receives a return code of 0. Return codes from other steps will be checked to mark vulnerabilities from unused products as N/A and in future releases to automatically bypass collection steps and steps that will be run to validate vulnerabilities.

**Note**: For this release, all Product STEPS to be bypassed based on a RC=4 will be specified with a flower box that states the following.

#### **ACF2 Data Collection**

These instructions will use batch processing to collect the ACF2 and z/OS data necessary to conduct the Security Readiness Review (SRR).

The data gathered will be saved in the following partitioned data sets:

- 1) SYS3.FSO.xxxx.mmmyyyy.ACF2CMDS.RPT ACF2 command reports
- 2) SYS3.FSO.xxxx.mmmyyyy.PDI Finding Analysis Detail reports

These permanent data sets must be located on a domain accessible to the reviewing personnel and will be required for follow-up SRR data analysis. The data sets should be backed up and retained by the site for future reference.

_ 1.	Pro	duce	e the ACF2CMDS report.
		a)	Review the JCL, edit, and make changes where necessary to SYS3.FSO.xxxx.mmmyyyy.CNTL(ACF2CMDS).
		b)	Copy <b>SYS3.FSO.</b> xxxx.mmmyyyy. <b>CNTL(JOBCARD)</b> to the beginning of member and make any changes needed to the JOB statement.
		c)	Submit <b>ACF2CMDS</b> for execution. Review the job for error messages to ensure successful execution, particularly the following:
			1) The SYSPRINT files of each report step
			2) The JOBLOG or JESLOG files
			The <b>ACF2CMDS</b> job will create the PDS <b>SYS3.FSO.</b> <i>xxxx.mmmyyyy</i> . <b>ACF2CMDS.RPT</b> , saving each report in individual members. These members will be referenced in the z/OS STIG under the Vulnerability Checks for subsequent analysis.

_	2.	Eva	luat	e ACF2 Configuration.
			a)	Review the JCL, edit, and make changes where necessary to SYS3.FSO.xxxx.mmmyyyy.CNTL(CAAJ0003).
			b)	Copy SYS3.FSO.xxxx.mmmyyyy.CNTL(JOBCARD) to the beginning of member and make any changes needed to the JOB statement.
			c)	Submit <b>CAAJ0003</b> for execution. Review the job for error messages to ensure successful execution, particularly the following:
				1) The ISPLOG and SYSTSPRT output files of each step
				2) The JOBLOG or JESLOG files
				The CAAJ0003 job will create members in the following data set:
				SYS3.FSO.xxxx.mmmyyyy.PDI – Finding Analysis Detail reports.

#### **RACF Data Collection**

These instructions will use batch processing to collect the RACF and z/OS data necessary to conduct the Security Readiness Review (SRR).

The data gathered will be saved in the following partitioned data sets:

- 1) **SYS3.FSO.***xxxx.mmmyyyy***.DSMON.RPT** RACF DSMON reports
- 2) SYS3.FSO.xxxx.mmmyyyy.RACFCMDS.RPT RACF command reports
- 3) **SYS3.FSO.***xxxx.mmmyyyy***.PDI** Finding Analysis Detail reports

These permanent data sets must be located on a domain accessible to the reviewing personnel and will be required for follow-up SRR data analysis. The data sets should be backed up and retained by the site for future reference.

_ 1.	Pro	duce	e the RACF command reports.
		a)	Review the JCL, edit, and make changes where necessary to SYS3.FSO.xxxx.mmmyyyy.CNTL(RACFCMD1).
		b)	Copy <b>SYS3.FSO.</b> <i>xxxx.mmmyyyy</i> <b>.CNTL(JOBCARD)</b> to the beginning of member and make any changes needed to the JOB statement.
		c)	Submit <b>RACFCMD1</b> for execution. After the job has ended, review the following for error messages to ensure successful execution:
			1) The <b>RACFCMD1</b> batch job.
			<b>Note</b> : A job step condition code of 4 typically indicates that no information was available.
			2) All PDS members in <b>SYS3.FSO</b> .xxxx.mmmyyyy.RACFCMDS.RPT.
			<b>Note</b> : RACF command error messages will be located in these PDS members used to hold command output.
		Th	e RACFCMD1 job will create the PDS

The **RACFCMD1** job will create the PDS **SYS3.FSO.***xxxx.mmmyyyy*.**RACFCMDS.RPT**, saving each report in individual members. These members will be referenced in the z/OS STIG under the Vulnerability Checks for subsequent analysis.

2.	2. Produce the DSMON report.		
		a)	Review the JCL, edit, and make changes where necessary to SYS3.FSO.xxxx.mmmyyyy.CNTL(RACFCMD2).
		b)	Copy <b>SYS3.FSO.</b> <i>xxxx.mmmyyyy</i> <b>.CNTL(JOBCARD)</b> to the beginning of member and make any changes needed to the JOB statement.
		c)	Submit <b>RACFCMD2</b> for execution. Review the job for error messages to ensure successful execution, particularly the following:
			1) The SYSPRINT files of each report step
			2) The JOBLOG or JESLOG files
			The RACFCMD2 job will create the following data set:
			<b>SYS3.FSO.</b> <i>xxxx.mmmyyyy</i> <b>.DSMON.RPT</b> – RACF-specific information such as exits, resource classes, etc.
			This information will be referenced in the z/OS STIG under the Vulnerability

Checks for subsequent analysis.

_ 3.	Eva	luat	e RACF Configuration.
		a)	Review the JCL, edit, and make changes where necessary to SYS3.FSO.xxxx.mmmyyyy.CNTL(CARJ0003).
		b)	Copy <b>SYS3.FSO.</b> <i>xxxx.mmmyyyy</i> <b>.CNTL(JOBCARD)</b> to the beginning of member and make any changes needed to the JOB statement.
		c)	Submit <b>CARJ0003</b> for execution. Review the job for error messages to ensure successful execution, particularly the following:
			1) The ISPLOG and SYSTSPRT output files of each step
			2) The JOBLOG or JESLOG files
			The CARJ0003 job will create members in the following data set:
			SYS3.FSO.xxxx.mmmyyyy.PDI – Finding Analysis Detail reports

#### **TSS Data Collection**

These instructions will use batch processing to collect the TOP SECRET SECURITY (TSS) and z/OS data necessary to conduct the Security Readiness Review (SRR).

The data gathered will be saved in the following partitioned data sets:

- 1) **SYS3.FSO.***xxxx.mmmyyyy*.**TSSCMDS.RPT** TSS command reports
- 2) SYS3.FSO.xxxx.mmmyyyy.TSSDUMP.RPT IDCAMS report
- 3) SYS3.FSO.xxxx.mmmyyyy.TSSPRIV.RPT TSS privileges (short) report
- 4) SYS3.FSO.xxxx.mmmyyyy.TSSCHNGS.RPT TSS changes report
- 5) SYS3.FSO.xxxx.mmmyyyy.PDI Finding Analysis Detail reports

These permanent data sets must be located on a domain accessible to the reviewing personnel and will be required for follow-up SRR data analysis. They should be backed up and retained by the site for future reference.

1.	Produce the TSSCMDS report.				
		a)	Review the JCL, edit, and make changes where necessary to SYS3.FSO.xxxx.mmmyyyy.CNTL(TSSCMDS). Change the SET JCL statement for TSSINSTX to specify the data set that contains the TSSINSTX load module. Refer to comments in the JCL on determining the data set that contains the TSSINSTX load module.		
		b)	Copy SYS3.FSO.xxxx.mmmyyyy.CNTL(JOBCARD) to the beginning of member and make any changes needed to the JOB statement.		
		c)	Submit <b>TSSCMDS</b> for execution. After the job has ended, review the job for error messages to ensure successful execution, particularly the following:		
			<b>Note</b> : Submitting this job using the MSCA's ACID will help in identifying which ACIDs have NOPW specified as a password.		
			1) The SYSPRINT files of each report step		
			2) The JOBLOG or JESLOG files		
			The TSSCMDS job will create the PDSs SYS3.FSO.xxxx.mmmyyyy.TSSCMDS.RPT, SYS3.FSO.xxxx.mmmyyyy.TSSDUMP.RPT, and SYS3.FSO.xxxx.mmmyyyy.TSSACIDS, saving each report in individual members.		
			These data sets and members will be referenced in the z/OS STIG under the Vulnerability Checks for subsequent analysis.		

2.	Pro	duce	e the TSSAUDIT reports.
		a)	Review the JCL, edit, and make changes where necessary to SYS3.FSO.xxxx.mmmyyyy.CNTL(TSSAUDIT).
		b)	Copy <b>SYS3.FSO</b> .xxxx.mmmyyyy. <b>CNTL(JOBCARD)</b> to the beginning of member and make any changes needed to the JOB statement.
		c)	Submit <b>TSSAUDIT</b> for execution. Review the job for error messages to ensure successful execution.
			The <b>TSSAUDIT</b> job will create the data sets: <b>SYS3.FSO.</b> <i>xxxx.mmmyyyy</i> . <b>TSSPRIV.RPT</b> , saving a report on special privileges. <b>SYS3.FSO.</b> <i>xxxx.mmmyyyy</i> . <b>TSSCHNGS.RPT</b> , saving a report of security changes.
			This information will be referenced in the z/OS STIG under the Vulnerability Checks for subsequent analysis.

3.	Cop	y of	TSS parameter file.
		a)	Review the system proclibs to locate the production TSS procedure. Select the production TSS procedure and identify the TSS parmlib member to be copied for review.
		b)	Save a copy of the TSS parameter file in SYS3.FSO.xxxx.mmmyyyy.TSSCMDS.RPT(TSSPRMFL).

4. Collect TSS facility and mode information. Note: Due to the TSS authorizations required to collect facility and mode information, site security personnel must submit the TSSCMD2 and TSSCMD3 jobs. a) Review the JCL, edit, and make changes where necessary to SYS3.FSO.xxxx.mmmyyyy.CNTL(TSSCMD2), following the instructions within the comment block at the beginning of the JCL. b) Copy SYS3.FSO.xxxx.mmmyyyy.CNTL(JOBCARD) to the beginning of member and make any changes needed to the JOB statement. c) Review SYS3.FSO.xxxx.mmmyyyy.TSSCMDS.RPT for member STATUS, WHOOMODE, and WHOHMODE. If the members are found with the appropriate results, delete the step that creates the report. STEP2, STEP3, and STEP4 respectively. d) TSSCMD2 should be submitted by the site security personnel (e.g., ISSO). After the job has ended, review error messages to ensure successful execution. The TSSCMD2 job will create one to four new members in SYS3.FSO.xxxx.mmmyyyy.TSSCMDS.RPT. These members are FACALL, STATUS, WHOOMODE, and WHOHMODE. e) Upon successful completion of **TSSCMD2**, review the JCL, edit, and make changes where necessary to SYS3.FSO.xxxx.mmmyyyy.CNTL(TSSCMD3) using the following instructions by reviewing: 1) SYS3.FSO.xxxx.mmmyyyy.TSSCMDS.RPT(FACALL) and add the following **MODIFY** statement to **TSSCMD3** for each facility listed. For example:

36

TSS MODIFY(FAC(facility name))

2) SYS3.FSO.xxxx.mmmyyyy.TSSCMDS.RPT(TSSPRMFL) and add the following MODIFY statement to TSSCMD3 for each CICS facility defined. CICS facilities are identified by the control option 'INITPGM=DFH'. For example:

#### TSS MODIFY(FAC(CICS facility name=BYPLIST))

	<b>Note</b> : CICS facilities require both <b>MODIFY</b> statements to collect the required data.
f)	Copy SYS3.FSO.xxxx.mmmyyyy.CNTL(JOBCARD) to the beginning of member and make any changes needed to the JOB statement.
g	Have the site security personnel (e.g., ISSO) submit <b>TSSCMD3</b> . After the job has ended, review error messages to ensure successful execution.
	The <b>TSSCMD3</b> job will create a member in <b>SYS3.FSO.</b> <i>xxxx.mmmyyyy</i> . <b>TSSCMDS.RPT</b> . This member is named <b>FACLIST</b> . This information will be referenced in the z/OS STIG under the Vulnerability Checks for subsequent analysis.
	ving steps are an alternative process for collecting the TSS Facility information. does not have to be submitted by the site's security personnel.
a)	Review the JCL, edit, and make changes where necessary to SYS3.FSO.xxxx.mmmyyyy.CNTL(TSSCMD4), following the instructions within the comment block at the beginning of the JCL.
b	Copy <b>SYS3.FSO.</b> <i>xxxx.mmmyyyy</i> <b>.CNTL(JOBCARD)</b> to the beginning of member and make any changes needed to the JOB statement.
c	Submit <b>TSSCMD4</b> for execution. Review the job for error messages to ensure successful execution.
	The TSSCMD4 job will create the following data set member: SYS3.FSO.xxxx.mmmyyyy.TSSCMDS.RPT(FACALL) SYS3.FSO.xxxx.mmmyyyy.TSSCMDS.RPT(FACLIST) FACALLA can be used as a substitute for FACALL. FACLISTA can be used as a substitute for FACLIST.

This information will be referenced in the z/OS STIG under the Vulnerability Checks for subsequent analysis.

5.	Evaluate TSS Configuration.		
		a)	Review the JCL, edit, and make changes where necessary to SYS3.FSO.xxxx.mmmyyyy.CNTL(CATJ0002).
		b)	Copy <b>SYS3.FSO.</b> <i>xxxx.mmmyyyy</i> <b>.CNTL(JOBCARD)</b> to the beginning of member and make any changes needed to the JOB statement.
		c)	Submit <b>CATJ0002</b> for execution. Review each of the job steps for error messages to ensure successful execution, particularly the following:
			<b>Note</b> : If this job is submitted using the MSCA's ACID, the PDI member TSS0750 will be generated.
			1) The ISPLOG and SYSTSPRT output files of each step
			2) The JOBLOG or JESLOG files
			The CATJ0002 job will create members the following data set:
			SYS3.FSO.xxxx.mmmyyyy.PDI – Finding Analysis Detail reports

#### **Data Set and Resource Data Collection**

These instructions will use batch processing to collect the ACP and z/OS data necessary to conduct the Security Readiness Review (SRR).

The data gathered will be saved in the following partitioned data sets:

- 1) SYS3.FSO.xxxx.mmmyyyy.SENSITVE.RPT Data set and resource access reports
- 2) SYS3.FSO.xxxx.mmmyyyy.PDI Finding Analysis Detail reports

These permanent data sets must be located on a domain accessible to the reviewing personnel and will be required for follow-up SRR data analysis. The data sets should be backed up and retained by the site for future reference.

1. Crea	te work data sets used for subsequent processing.
	a) Review the JCL, edit, and make changes where necessary to SYS3.FSO.xxxx.mmmyyyy.CNTL(CACJ0002).
	b) Copy <b>SYS3.FSO.</b> xxxx.mmmyyyy.CNTL( <b>JOBCARD</b> ) to the beginning of member and make any changes needed to the JOB statement.
Note:	It is recommended that the user that the JOB runs under not utilize SDSF until the JOB completes.
	c) Submit <b>CACJ0002</b> for execution. Review the job for error messages to ensure successful execution, particularly the following:
	1) The ISPLOG and SYSTSPRT output files of each step
	2) The JOBLOG or JESLOG files
	The CACJ0002 job will create the following work data sets:
	a) SYS3.FSO.xxxx.mmmyyyy.TEMP1 – A copy of selected CA Auditor reports with special editing
	b) <b>SYS3.FSO.</b> <i>xxxx.mmmyyyy</i> <b>.TEMP2</b> – A copy of the JES2 initialization parameters and a copy of your DSNLIST member
	c) SYS3.FSO.xxxx.mmmyyyy.TEMP3 – A list of data set names from EXAMINE reports and the DSNLIST you created
	The CACJ0002 job will create members in the following data set:
	SYS3.FSO.xxxx.mmmyyyy.PDI – Finding Analysis Detail reports

## **ACF2 Data Set and Resource Data Collection**

****	**********
* Fo	llow the instruction in this Section only if the *
*	System is running ACF2 *
***	**********
1. Produce	e the SENSITVE data set access reports.
S	This job will use the backup of the Primary security database to create its own security database for use within this job. Ensure that the system has successfully been able to back up the Primary security database.
a)	Review the JCL, edit, and make changes where necessary to SYS3.FSO.xxxx.mmmyyyy.CNTL(CAAJ0001).
b)	Copy SYS3.FSO.xxxx.mmmyyyy.CNTL(JOBCARD) to the beginning of member and make any changes needed to the JOB statement.
c)	Change the <b>SET</b> JCL command for symbolic <b>SRRAUL</b> to specify the Dialog data set created using the instructions in the <i>SRRAUDIT Dialog Management</i> document.
d)	Submit <b>CAAJ0001</b> for execution. Review each of the job steps for error messages to ensure successful execution, particularly the following:
	1) The ISPLOG and SYSTSPRT output files of each step.
	2) The JOBLOG or JESLOG files.
	The CAAJ0001 job will create the following data set:
	SYS3.FSO.xxxx.mmmyyyy.SENSITVE.RPT – Data set access reports
	The CAAJ0001 job will create members in the following data set:
	SYS3.FSO.xxxx.mmmyyyy.PDI – Finding Analysis Detail reports
	The files will be referenced in the z/OS STIG under the Vulnerability Checks for subsequent analysis.

# 2. Produce the SENSITVE resource access reports. Note: This job will use the alternate security database, ensure that the system has

Note: This job will use the alternate security database, ensure that the system has successfully been able to back up the Primary database, and create the alternate security database. The alternate database must be as current as of the last backup of the Primary database.
a) Review the JCL, edit, and make changes where necessary to SYS3.FSO.xxxx.mmmyyyy.CNTL(CAAJ0002).

b) Copy **SYS3.FSO.***xxxx.mmmyyyy*.**CNTL(JOBCARD)** to the beginning of member and make any changes needed to the JOB statement.

**Note**: This process will not list logonids when the Type Code is SAF.

\_\_\_ c) Submit **CAAJ0002** for execution. Review the job for error messages to ensure successful execution, particularly the following:

\_\_\_\_ 1) The ISPLOG and SYSTSPRT output files of each step

\_\_\_\_ 2) The JOBLOG or JESLOG files

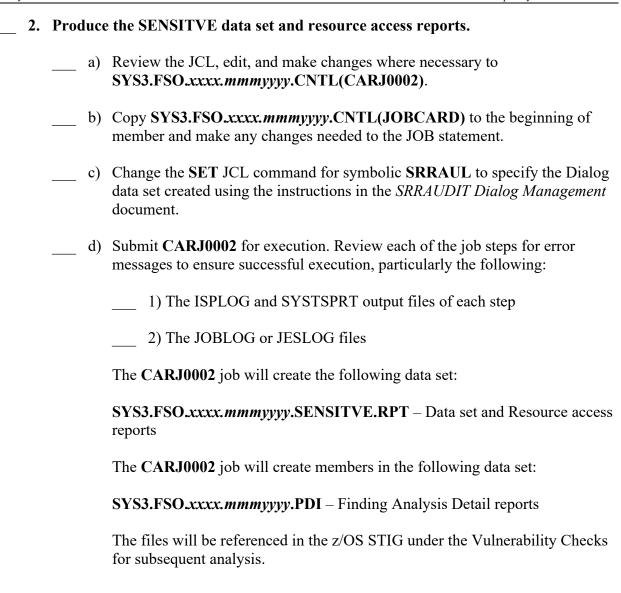
The CAAJ0002 job will create members in the following data set:

SYS3.FSO.xxxx.mmmyyyy.SENSITVE.RPT – Resource access reports

This file will be referenced in the z/OS STIG under the Vulnerability Checks for subsequent analysis.

## **RACF Data Set and Resource Data Collection**

	*	***	***********
	*	Fol	llow the instruction in this Section only if the *
	*		System is running RACF *
	*	* * * ;	*********
1.	Cre	ate s	specialized RACF reports necessary to produce the SENSITIVE
		POR	
			~•
		a)	Review the JCL, edit, and make changes where necessary to
		u)	SYS3.FSO.xxxx.mmmyyyy.CNTL(CARJ0001).
			5155.150.xxxx.mmmyyyy.CN1E(CAR600001).
		<b>b</b> )	Copy SYS3.FSO.xxxx.mmmyyyy.CNTL(JOBCARD) to the beginning of
		U)	1,
			member and make any changes needed to the JOB statement.
		٠,	Culomit CAD 10001 for avanting Devices the international for a great to a great
		c)	Submit CARJ0001 for execution. Review the job for error messages to ensure
			successful execution, particularly the following:
			1) The representation of the control
			1) The ISPLOG and SYSTSPRT output files of each step
			2) The JOBLOG or JESLOG files
			The CARJ0001 job will add a member to
			SYS3.FSO.xxxx.mmmyyyy.TEMP2 file.
			****



## **TSS Data Set and Resource Data Collection**

***	**********
* Fo.	llow the instruction in this Section only if the *
*	System is running TSS *
***	**********
1. Produce	e the SENSITVE data set and resource access reports.
a)	Review the JCL, edit, and make changes where necessary to SYS3.FSO.xxxx.mmmyyyy.CNTL(CATJ0001).
b)	Copy <b>SYS3.FSO.</b> <i>xxxx.mmmyyyy</i> . <b>CNTL(JOBCARD)</b> to the beginning of member and make any changes needed to the JOB statement.
c)	Change the <b>SET</b> JCL command for symbolic <b>SRRAUL</b> to specify the Dialog data set created using the instructions in the <i>SRRAUDIT Dialog Management</i> document.
d)	Submit <b>CATJ0001</b> for execution. Review each of the job steps for error messages to ensure successful execution, particularly the following:
	1) The ISPLOG and SYSTSPRT files of each report step
	2) The JOBLOG or JESLOG files
	The CATJ0001 job will create the following data set:
	<b>SYS3.FSO.</b> <i>xxxx.mmmyyyy</i> . <b>SENSITVE.RPT</b> – Data set and Resource access reports
	The CATJ0001 job will create members the following data set:
	SYS3.FSO.xxxx.mmmyyyy.PDI – Finding Analysis Detail reports
	The files will be referenced in the z/OS STIG under the Vulnerability Checks for subsequent analysis.

#### **XMLDATA Data Collection**

Individuals that use a Web-based vulnerability tracking application should perform this process. This process is part of the Automation Tools used for z/OS. This process will remain as the last step before individuals begin the Data Analysis.

The data gathered will be saved in the following data set:

#### SYS3.FSO.xxxx.mmmyyyy.XMLDATA – XMLDATA Import File

This permanent data set must be located on a domain accessible to the reviewing personnel. This data set should be backed up and retained by the site for future reference.

1.	Pro	duce	e the XMLDATA Import data sets.
		a)	Review the JCL, edit, and make changes where necessary to SYS3.FSO.xxxx.mmmyyyy.CNTL(CACJ0004).
		b)	Copy <b>SYS3.FSO.</b> <i>xxxx.mmmyyyy</i> <b>.CNTL(JOBCARD)</b> to the beginning of member and make any changes needed to the JOB statement.
		c)	Submit <b>CACJ0004</b> for execution. Review each of the job steps for error messages to ensure successful execution, particularly the following:
			1) The ISPLOG and SYSTSPRT output files of each step
			2) The JOBLOG or JESLOG files
			The CACJ0004 job will create the following data sets:
			SYS3.FSO.xxxx.mmmvvvv.XMLDATA – SRRDB Import file

**Note**: If the above data set can be downloaded, it is recommended that each text file be reviewed after the data set is downloaded. Delete the end-of-file indicator from each file. The end-of-file indicator is located at the end of the file and looks like a square, (). Delete this character.

If these files are zipped using SYS3.FSO.xxxx.mmmyyyy.CNTL(ZIPJCL) and the SYS3.FSO.xxxx.mmmyyyy.ZIP is downloaded, the removal of the square () is not necessary.

## \_\_\_\_ 2. Download information.

<b>Note</b> : There are t	two possible options on the process to download the information to a PC.
a)	Using any 3270 Terminal Host Emulation or File Transfer Protocol software, establish a host connection.
b)	Initiate the upload/download function of the 3270 Terminal Host Emulation of File Transfer Protocol software
	1) Enter 'SYS3.FSO.xxxx.mmmyyyy.XMLDATA' (ensure that the data set name is in quotes) for the Host File Name.
	2) Enter a drive, directory, and file name using <b>xml</b> extension for the PC File Name (e.g., D:\directory_name\xxxx.mmmyyyy.xmldata. <b>xml</b> ).
	3) Ensure that the Transfer Mode is set to <b>Text</b> .
	4) Ensure that Transfer Options are set to <b>ASCII CRLF</b> .
	5) Initiate the file transfer.

**Note**: The other option for downloading is to follow these steps:

 a)	Review the JCL, edit, and make changes where necessary to SYS3.FSO.xxxx.mmmyyyy.CNTL(ZIPJCL).
 b)	Copy SYS3.FSO.xxxx.mmmyyyy.CNTL(JOBCARD) to the beginning of member and make any changes needed to the JOB statement. This includes changes stated in the JCL comments.
 c)	Submit <b>ZIPJCL</b> for execution. Review each of the job steps for error messages to ensure successful execution, particularly the following:
	The SYSPRINT output file.
	The <b>ZIPJCL</b> job will create the following data set:
	<b>SYS3.FSO.</b> <i>xxxx.mmmyyyy</i> . <b>ZIP</b> – Zip file that contains all data sets/members process during the Data Collection Process.
 d)	Establish a host connection using any 3270 Terminal Host Emulation or File Transfer Protocol software.
 e)	Initiate the upload/download function of the 3270 Terminal Host Emulation or File Transfer Protocol software
	1) Enter 'SYS3.FSO.xxxx.mmmyyyy.ZIP' (ensure that the data set name is in quotes) for the Host File Name.
	2) Enter a drive, directory, and file name using <b>zip</b> extension for the PC File Name (e.g., D:\directory_name\xxxx.mmmyyyy.zip).
	3) Ensure that the Transfer Mode is set to <b>Binary</b> .
	4) Initiate the file transfer.

To be determined.

3.	Importing XMLDATA file into web-based vulnerability tracking application.
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