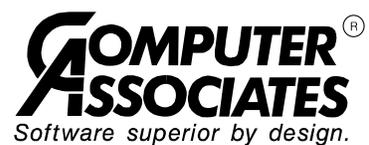


CA-View™

FSS Collector User Guide

Release 1.7 / 2.0

MVS



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Introducing the CA-View FSS Collector

Introduction

The CA-View FSS (Functional Subsystem) Collector for JES report archival is an option designed to supplement the CA-View archival task in CA-View releases 1.7 and 2.0. FSS allows concurrent archiving of multiple reports from the JES spool, providing enhanced archival throughput.

This document provides the instructions for installing and implementing the CA-View FSS Collector. Please read the instructions thoroughly before installing the collector.

The following SARINIT parameters **do not** apply to FSS:

- ARCHMSG
- CLSL
- DEST
- FORM
- MAXLINES
- NARCLSL
- NEWCLSL
- NEWDEST
- NEWFORM
- PRTCLSL
- TAPECLSL
- XPRINT

Important! Backup and Direct-To-Tape archival are **only** performed by the CA-View archival task.

Terms You Should Know

Here are some terms you should be familiar with before installing and using the CA-View FSS Collector.

- **FSS (Functional Subsystem)**
An address space uniquely identified as performing a specific function related to the JES. For JES, an example of an FSS is the Print Services Facility program that operates the 3800 Model 3 and 3820 printers.
- **FSA (Functional Subsystem Application)**
The functional application program managed by the functional subsystem.
- **FSA startup**
The part of system initialization when the FSA is loaded into the functional subsystem address space and begins to initialize itself.

Procedure Overview

The following table provides an overview of the steps to install the CA-View FSS Collector. Each step is explained in detail in Chapter 2.

Step	Action
1	Apply APAR cart
2	Define JES2 initialization statements (for JES2 sites)
3	Define JES3 initialization statements (for JES3 sites)
4	Define a CA-View FSS Archiver PROC
5	Define CA-View FSA (Functional Subsystem Application) device control statements
6	Define CA-View FSS report control statements

Installing and Using the CA-View FSS Collector

In This Chapter

This chapter provides details about the steps required to install and use the CA-View FSS Collector with CA-View releases 1.7 and 2.0.

- Step 1: Apply APAR cart
- Step 2: Define JES2 initialization statements (for JES2 sites)
- Step 3: Define JES3 initialization statements (for JES3 sites)
- Step 4: Define a CA-View FSS Archiver PROC
- Step 5: Define CA-View FSA device control statements
- Step 6: Define CA-View FSS report control statements

Step 1: Apply APAR cart

Refer to the accompanying cover letter for complete installation instructions.

Step 2: Define JES2 Initialization Statements

The following example shows JES2 initialization statements for a CA-View FSS archiver. These statements should be placed in the JES2 PARMLIB or a SYS1.PARMLIB.

Sample FSS definition
for CA-View 1.7

```
FSSDEF(V170FVC)
PROC=CAHA17VC
AUTOSTOP=YES PRINTER(15)
FSS=V170FVC,PRMODE=(LINE),
MODE=FSS,CLASS=AJQ,DRAIN,ROUTECD=(R15),NOSEP,WS=(PRM,Q,R)
```

Sample FSS definition
for CA-View 2.0

```
FSSDEF(V200FVC)
PROC=CAHA20VC
AUTOSTOP=YES PRINTER(15)
FSS=V200FVC,PRMODE=(LINE),
MODE=FSS,CLASS=AJQ,DRAIN,ROUTECD=(R15),NOSEP,WS=(PRM,Q,R)
```

JES2 Initialization Statements

This section explains the JES2 initialization statements used in the definition of a CA-View FSS archiver. For more information about JES2 statements, see the IBM JES2 initialization and tuning publication for your operating system.

FSSDEF Statement

The FSSDEF initialization statement defines an FSS to JES2. The FSSDEF statement is associated with one or more PRT $nnnn$ statements that define each archiver FSA.

The FSSDEF initialization parameter is optional, but recommended. If it is omitted, JES2 generates a default for that archiver.

For a description of all of the FSSDEF parameters, see the IBM JES2 initialization and tuning publication for your operating system.

The FSSDEF statement contains the following parameters:

Parameter	Description
FSSNAME	<p>Specifies the unique 1- to 8-character name of an FSS</p> <p>When you start the first CA-View FSS archiver that has an FSA definition for that FSS, an FSS address space is created for the archiver. The CA-View FSS interface manages this FSS and the archival FSA for the first CA-View FSS archiver. If you start a second archiver with an FSA definition for the same FSS, the CA-View FSS interface then manages a separate FSA for the second archival FSA within that FSS.</p> <p>The FSSNAME parameter is required.</p> <p>Under JES2, each FSS can support a maximum of 24 FSAs. The actual number of FSAs per FSS depends on several factors, such as the size of resources used in the print jobs and the available virtual storage.</p>

Parameter	Description
PROC	<p>Specifies a procedure for starting the CA-View FSS</p> <p>The procedure, which must be defined before that FSS is started, is a member of either SYS1.PROCLIB or a library concatenated to SYS1.PROCLIB.</p> <p>Different FSSDEF initialization parameters can refer to the same startup procedure.</p>
AUTOSTOP	<p>Stops (shuts down) the FSS address space if all of the devices attached to the FSS are drained</p>
HASPFSSM	<p>Specifies the 1- to 8-character name of the load module that is loaded into the PSF FSS address space</p> <p>This load module contains the various JES2-supplied FSI service routines.</p> <p>For CA-View FSS, specify the default value: (HASPFSM = HASPFSSM).</p>

PRINTER(*nnnn*) Statement

A PRINTER(*nnnn*) statement, which is required to define each FSA, is associated with an FSSDEF statement. Each archival FSA should have a unique PRINTER(*nnnn*) name. This unique PRINTER(*nnnn*) must match the label on the device parameter DD statement in the procedure for starting the CA-View FSS Collector.

The PRINTER(*nnnn*) parameters define JES2 default values. The JES2 PRINTER(*nnnn*) statement contains the following parameters:

Parameter	Description
CLASS	<p>Specifies the output class to be used for selecting data sets to be archived</p> <p>The CLASS parameter is only needed when Q is specified as a work selection (WS) criterion.</p>
DRAIN START DRAIN	<p>Specifies that the archiver can be started by operator command</p> <p>START specifies that the archiver is started automatically when JES2 begins processing.</p>

Parameter	Description
FSS	<p>Specifies the FSS for the archiver and must match the value coded for an FSSNAME parameter for the corresponding FSSDEF statement</p> <p>The FSS parameter is required.</p>
MODE	<p>Specifies that the printer is managed by an FSS (MODE=FSS)</p> <p>The MODE parameter is required.</p>
PRMODE	<p>Specifies the processing mode to be used for selecting data sets to be archived</p> <p>The PRMODE parameter is only needed when PRM is specified as a work selection (WS) criterion.</p>
NOSEP	<p>Specifies that no separator pages are produced</p>
TRKCELL=YES	<p>Specifies that track-cell de-spooling is used with this printer</p>
ROUTECD	<p>Specifies the route code to be used for selecting data sets to be archived</p> <p>The ROUTECDE parameter is only needed when R is specified as a work selection (WS) criterion.</p>
FORMS	<p>Specifies the form identifier to be used for selecting data sets for archival</p> <p>The FORMS parameter is only needed when F is specified as a work selection (WS) criterion.</p>
WRITER	<p>Specifies the writer name to be used for selecting data sets for archival</p> <p>The WRITER parameter is only needed when W is specified as a work selection (WS) criterion.</p>
WS	<p>Specifies the work selection criteria for archival</p> <p>Examples of WS are:</p> <ul style="list-style-type: none"> ■ WS=(PRM),PRMODE=LINE selects all data sets having a process mode of LINE ■ WS=(Q),CLASS=S selects all data sets having a SYSOUT class of S

Step 3: Define JES3 Initialization Statements

The following example shows JES3 initialization statements for a CA-View FSS archiver. These statements should be placed in SYS1.PARMLIB.

Sample FSS definition
for CA-View 1.7

```
FSSDEF ,TYPE=WTR ,FSSNAME=V170FVC ,PNAME=CAHA17VC  
DEVICE ,JNAME=PRT1 ,DTYPE=SARFVC ,MODE=FSS ,PM=FVC ,WS=( PM ) ,HEADER=NO
```

Sample FSS definition
for CA-View 2.0

```
FSSDEF ,TYPE=WTR ,FSSNAME=V200FVC ,PNAME=CAHA20VC  
DEVICE ,JNAME=PRT1 ,DTYPE=SARFVC ,MODE=FSS ,PM=FVC ,WS=( PM ) ,HEADER=NO
```

JES3 Initialization Statements

The following are explanations of the JES3 initialization statements used in the definition of the CA-View FSS archivers. For more information about JES3 statements, see the IBM JES3 initialization and tuning publication for your operating system.

FSSDEF Statement

The FSSDEF initialization parameter defines an FSS to JES3. The FSSDEF initialization statement is optional, but recommended. If it is omitted, JES3 generates a default for that archiver.

The FSSDEF statement can contain the following parameters:

Parameter	Description
TYPE	Specifies that the FSS is an output writer for deferred printing (TYPE=WTR) The TYPE parameter is required.
FSSNAME	Specifies the unique 1- to 8-character name of an FSS The FSSNAME parameter is required.
PNAME	Specifies a procedure for starting a specific CA-View FSS The procedure, which must be defined before that FSS is started, is a member of the procedure library defined by the STCPROC parameter of the STANDARDS statement, or of the IATPLBST procedure library (the default). Different FSSDEF initialization parameters can refer to the same startup procedure. There is a sample PROC in CAI.CAIPROC.

Parameter	Description
SYSTEM	Specifies the name of the JES3 processor on which the FSS will run The name must be the same as specified for the NAME parameter of the MAINPROC statement for the processor.
TERM = YES NO	YES specifies that the FSS will be terminated if the JES3 global address space terminates by a *RETURN or *DUMP operator command

JES3 DEVICE Statement

A DEVICE statement is required for each archival FSA. The DEVICE parameters create JES3 default values that are used unless other values are specified in the JCL application program.

The JES3 DEVICE statement can contain the following parameters:

Parameter	Description
DTYPE	A parameter that is ignored by CA-View FSS, but one that must be specified Any name can be used for the DTYPE parameter.
FSSNAME	Specifies a unique FSS for this CA-View FSS archiver DEVICE statement The value must match the value coded for the FSSNAME parameter in the corresponding FSSDEF statement. The FSSNAME parameter is required.
HEADER = NO	Specifies that no data set header pages will be printed
JNAME	Specifies the 1- to 8-character name of the CA-View FSS archiver FSA Each archiver FSA should have a unique JNAME. This JNAME must correspond to the name on the DEVICE DD statement in the procedure for starting the CA-View FSS. The JNAME parameter is required.
JUNIT	Should specify JUNIT = (,,OFF) for CA-View FSS archival
MODE	Specifies that the archiver is managed by an FSS The MODE parameter is required.

Parameter	Description
WS=()	Specifies the work selection criteria The options are: <ul style="list-style-type: none"> ■ PM WS=(PM) is selection by process mode ■ CL WS=(CL) is selection by SYSOUT class

Step 4: Define a CA-View VIEW Archiver PROC

Before starting a CA-View VIEW archiver, you must have a cataloged startup PROC in SYS1.PROCLIB or a procedure library concatenated to it. This PROC specifies initialization parameters and libraries that contain system and installation resources for the CA-View VIEW archiver.

Example JCL for
CA-View

```
VIEW Startup PROC
//CAHAXxVC EXEC PGM=SARFSS,TIME=1440,REGION=2M
//STEPLIB DD DISP=SHR,DSN=CAI.CAILIB
//SYSUDUMP DD SYSOUT=A
//SARINDEX DD DISP=SHR,DSN=SAR.SARINDEX
//PRT15 DD DISP=SHR,DSN=SAR.PARMLIB(PRT15)
//SARLOG DD SYSOUT=A (OPTIONAL)
//SARACT DD DISP=SHR,DSN=SAR.SARACT (OPTIONAL)
//SARXCTAB DD DISP=SHR,DSN=SAR.SARXCTAB (OPTIONAL)
```

- STEPLIB DD

The CA-View load library must be in an authorized STEPLIB concatenation, or in a LNKLSTxx library.

- SARINDEX DD

SARINDEX specifies PDS members containing the VIEW control statements.

For more information about coding these statements, see the “Archival” chapter in the *CA-View System Reference Guide*.

PRTnnnn DD Statements

The PRTnnnn DD statements contain parameters for each CA-View VIEW archiver. The DD name must match that of the corresponding JES2 PRINTER(nnnn) device, or JES3 JNAME value. Multiple PRTnnnn DD statements may be specified for each CA-View Functional Subsystem archiver.

SARLOG DD Statement

The SARLOG DD statement is optional. If specified, CA-View VIEW messages will be written to it. These messages are documented in the *CA-View System Reference Guide*.

SARACT DD Statement

The SARACT DD statement is optional. If specified, this DD will perform the same function as in the VIEW archival started task.

SARXCTAB DD Statement

The SARXCTAB DD statement is optional. If specified, this DD will perform the same function as in the VIEW archival started task.

Step 5: Define CA-View FSA Device Control Statements

CA-View FSA (Functional Subsystem Application) device control statements are defined in the CA-View FSS start procedure with PRT n DD statements. Each PRT n DD statement must have a JES device initialization parameter statement (see Step 2 or Step 3 earlier in this chapter).

FSA device control statements are coded as follows:

keyword=value

The following example shows CA-View FSS device control statements. These statements should be placed in a program product PARMLIB, or SYS1.PARMLIB.

Sample definition

```
TYPE=VIEW
NAME=highlevelindex.view.database
ARCHMSG=LOG
NEWCLASS=T
NEWDEST=
NEWFORM=
NEWPRMOD=
NEWWTR=
CHARS=(GT15,GS15,GU15,GU15)
FORMDEF=A10110
PAGEDEF=V06683
```

The following table describes the CA-View FSS device control statements:

Statement	Description
ARCHMSG=YES NO LOG	<p>Specifies whether a SARFVC22 message is issued every time a SYSOUT data set is archived by CA-View</p> <p>LOG specifies that no WTO console messages are produced (only SARLOG messages are created, if SARLOG is present)</p>
NAME	Specifies the high level name of the CA-View database
NEWCLASS	<p>Specifies the new SYSOUT CLASS under which to archive</p> <p>This class will become the default SYSOUT CLASS for re-printing; it is not used for archival data created by CA-Deliver or CA-View Systems extensions.</p>
NEWDEST	<p>Specifies the new SYSOUT DEST under which to archive</p> <p>This will become the default SYSOUT DEST for reprinting; it is not used for archival data created by CA-Deliver or CA-View Systems extensions.</p>
NEWFORM	<p>Specifies the new SYSOUT FORM under which to archive</p> <p>This form will become the default SYSOUT FORM for reprinting; it is not used for archival data created by CA-Deliver or CA-View Systems extensions.</p>
NEWPRMOD	<p>Specifies the new SYSOUT process mode under which to archive</p> <p>This process will become the default SYSOUT process mode for reprinting; it is not used for archival data created by CA- Deliver or CA-View Systems extensions.</p>
NEWWTR	<p>Specifies the new SYSOUT WRITER name under which to archive</p> <p>The writer name is used as a SYSOUT ID; it is not used for archival data created by CA-Deliver or CA-View Systems extensions.</p>

Statement	Description
TYPE=VIEW	Identifies the FSA as an FSS archiver TYPE=VIEW must be coded as the first statement.
CHARS,FORMDEF,PAGEDEF	These statements act as defaults and will not override existing report attributes

Step 6: Define CA-View FSS Report Control Statements

For each SYSOUT data set to be processed by a CA-View FSS archiver, a set of control statements may be used to provide other attributes for archival. These control statements are created as members of the SARINDEX PDS, specified in the CA-View FSS start procedure. The name of the member is coded on the GROUPID parameter of the //OUTPUT JCL statement for the SYSOUT data set. If the GROUPID parameter is not coded, the name of the member defaults to the job name.

Note: For JES3 sites, the GROUPID parameter is supported in JES3 version 4.2 and higher.

The following CA-View FSS report control statements can be coded:

Statement	Description
DOWNLOAD	Specifies up to 256 USERIDs to which the archived SYSOUT is to be queued for downloading to the CA-DocView product
REPORTID	Specifies a 1- to 12-character name under which the report is to be archived If omitted, the job name is used (except for CA-Deliver, which uses its REPORTID).
USERDATA	Specifies 1 to 20 bytes of user data to be stored in the GCRUSER field

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