

# z/OS 3.2 IBM Education Assistant

Solution Name: zOSMF Storage Plugin GUI

Solution Element(s): zOSMF Storage Management Plugin

July 2025



# Agenda

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- Trademarks
- Objectives
- Overview
- Usage & Invocation
- Interactions & Dependencies
- Upgrade & Coexistence Considerations
- Installation & Configuration
- Summary
- Appendix

# Trademarks

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- See url <http://www.ibm.com/legal/copytrade.shtml> for a list of trademarks.
- Additional Trademarks:
  - None

# Objectives

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- **Viewing the SMS (System Managed Storage) configuration via zOSMF**
  - The beginning of a simplification journey
  - A foundation for automation
- **Storage Management REST API updates**
  - Ability to specify a Source Control Data Set
  - New API to retrieve Automatic Class Selection (ACS) routine source
- **SMS changes to save and retrieve ACS routine source**
  - ACS source saved to configuration when translated/validated on new release
  - Console command to export the saved source (if available) to a sequential dataset or pds member

# Overview

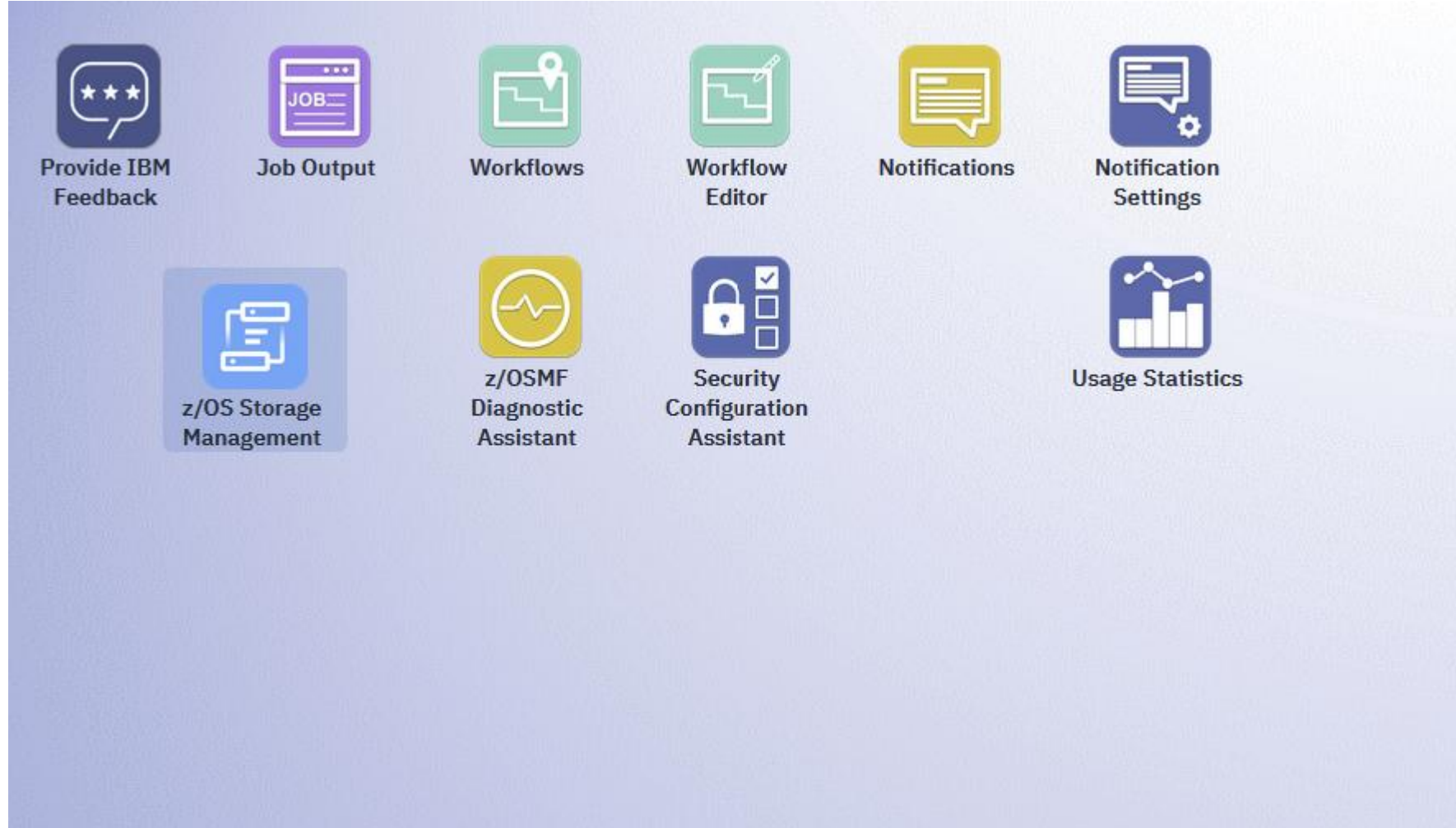
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- Who (Audience)
  - As a new storage administrator, I want to use more familiar interfaces to access configuration information instead of ISPF panels
  - As an application developer, I want self-service access to the information needed to allocate datasets
- What (Solution)
  - Using a web application for interactive tasks
  - Using industry standard (REST) interfaces for automation
- Wow (Benefit / Value, Need Addressed)
  - With less dependence on zOS specific tools like 3270 emulators and skills like navigating ISPF and ISMF panels

# Usage & Invocation

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- Storage Management is a plugin on the zOSMF app list and/or dashboard.



# Dashboard & Navigation

- The starting view is the dashboard. Navigation is by top menu or by clicking on items. Multiple configurations can be viewed by adding them with the plus icon.

z/OS Storage Management

DashboardVolumeData classManagement classStorage classStorage groupACSSettings

Dashboard

Help

A dashboard is a graphical user interface that provides a quick view of the data and storage environment.

Active

smsd :bad2 :+

Active

Last refreshed a few seconds ago

SCDS	Description	System
TRINHNG.SCDs	BASE CONFIGURATION -- CDSBUILD GENERATED	MESA, MESB, MES1, MES2, MES3, MES4, MES5, MES6, MES7, MES8, MES9, SYSTEM1
System groups	Last user	Bytes/track
N/A	KEMINER	56664
Tracks/cylinder	Default unit	DS Separation Profile Name
15	SYSALLDA	N/A
CDS status	Base Management Class Name	
VALID	N/A	

Total volumes	Management class	Data class	Storage class	Storage group	ACS
3389	220	433	885	128	4
→	→	→	→	→	→

# Table Views

- The SMS constructs in the configuration are displayed as tables.

z/OS Storage Management

DashboardVolumeData classManagement classStorage classStorage groupACSSettings

Storage class

A storage class is a collection performance goals and device availability requirements that a storage administrator defines.

Help

Active

smsd

bad2

+

Source SCDS Name

TRINHNG.SCDs

Last refreshed 2 minutes ago

Search

13 hidden fields

	Storage Class Name	Direct Millisecond Response Time	Direct Bias	Sequential Millisecond Response Time	Sequential Bias	Availability Options	Guaranteed Space	Last User	Update Date	Update Time	Guaranteed Sync Write	Initial Access Response	Accessibility	Storage Requirements
:	<input type="checkbox"/> ACCTDSN4	500		999		NOPREF	false	IBMUSER	1987/07/27	16:06	false		NOPREF	false
:	<input type="checkbox"/> ACCTDSN5	500		999		NOPREF	false	IBMUSER	1987/07/27	16:06	false		NOPREF	false
:	<input type="checkbox"/> ACCTDSN6	500		999		NOPREF	false	IBMUSER	1987/07/27	16:06	false		NOPREF	false
:	<input type="checkbox"/> ACCTJOB4	500		999		NOPREF	false	IBMUSER	1987/07/27	16:04	false		NOPREF	false
:	<input type="checkbox"/> ACCTJOB5	500		999		NOPREF	false	IBMUSER	1987/07/27	16:05	false		NOPREF	false
:	<input type="checkbox"/> ACCTJOB6	500		999		NOPREF	false	IBMUSER	1987/07/27	16:05	false		NOPREF	false
:	<input type="checkbox"/> ACCTSTP4	500		999		NOPREF	false	IBMUSER	1987/07/27	16:05	false		NOPREF	false
:	<input type="checkbox"/> ACCTSTP5	500		999		NOPREF	false	IBMUSER	1987/07/27	16:05	false		NOPREF	false
:	<input type="checkbox"/> ACCTSTP6	500		999		NOPREF	false	IBMUSER	1987/07/27	16:05	false		NOPREF	false

Items per page: 10

1–10 of 885 items

1 of 89 pages



# Filter & Search

- Within any table, filter and search is available to select the rows that are displayed.

Storage class

A storage class is a collection performance goals and device availability re

Active

smsd : bad2 : +

Source SCDS Name

TRINHNG.SCDS

Search

<input type="checkbox"/>	Storage Class Name	Direct Millisecond Response Time	Direct Bias
<input type="checkbox"/>	ACCTDSN4	500	

Free form search finds text in any column

Last refresh

Filter

Field	Operator	Value
Where?	Storage Class Name	Starts with
		ACCT

Reset

Apply

Filter finds text or values in specific columns. Multiple filters are allowed with AND conditions

# Column & Row selection

- Columns can be selected and rearranged, and rows selected using check boxes.

Storage class

A storage class is a collection performance goals and device availability requirements that a storage administrator defines.

Active

smsd

bad2

+

Source SCDS Name

TRINHNG.SCDS

Search

<input type="checkbox"/>	Storage Class Name	Direct Millisecond Response Time	Direct Bias	Sequential Millisecond Response Time
:	<input type="checkbox"/> ACCTDSN4	500		999
:	<input type="checkbox"/> ACCTDSN5	500		999
:	<input type="checkbox"/> ACCTDSN6	500		999
:	<input type="checkbox"/> ACCTJOB4	500		999
:	<input type="checkbox"/> ACCTJOB5	500		999
:	<input type="checkbox"/> ACCTJOB6	500		999
:	<input type="checkbox"/> ACCTSTP4	500		999
:	<input type="checkbox"/> ACCTSTP5	500		999
:	<input type="checkbox"/> ACCTSTP6	500		999

Items per page: 10

1-10 of 885 items

Manage fields and columns

☐ Select All Columns

Restore to Default Columns

Find column

☒ Direct Millisecond Response Time

☒ Direct Bias

☒ Sequential Millisecond Response Time

☒ Sequential Bias

☒ Availability Options

☒ Guaranteed Space

☒ Last User

☒ Update Date

☒ Update Time

☒ Guaranteed Sync Write

☒ Initial Access Response

Cancel

Submit

Last refreshed 9 minutes ago

13 hidden fields

Update Time	Guaranteed Sync Write	Initial Access Response	Accessibility	Sim req
16:06	false		NOPREF	fals
16:06	false		NOPREF	fals
16:06	false		NOPREF	fals
16:04	false		NOPREF	fals
16:05	false		NOPREF	fals
16:05	false		NOPREF	fals
16:05	false		NOPREF	fals
16:05	false		NOPREF	fals
16:05	false		NOPREF	fals
16:05	false		NOPREF	fals

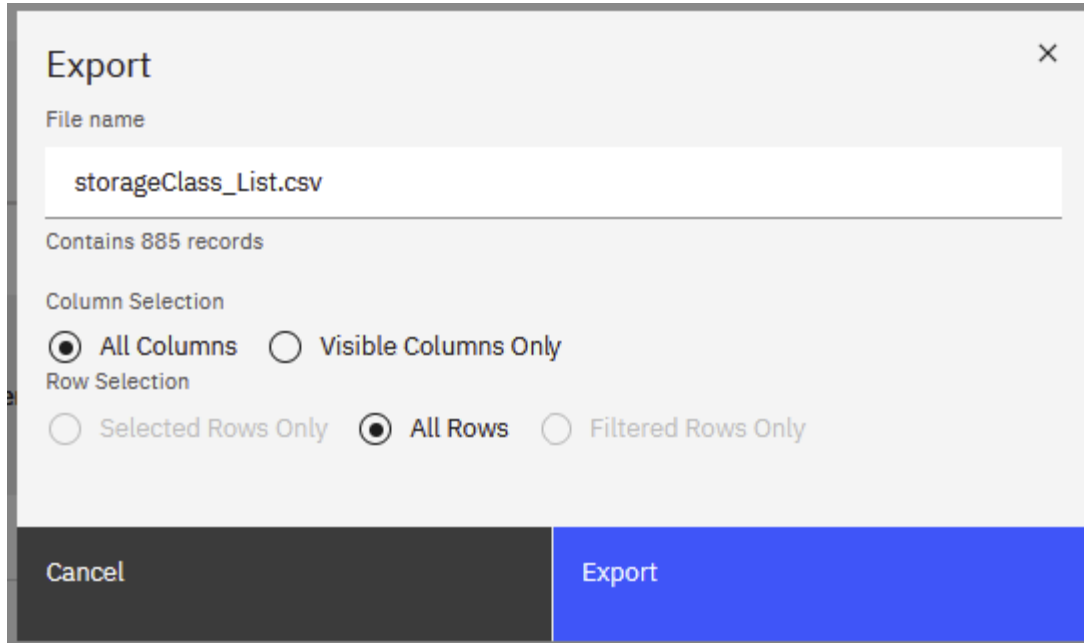
1

of 89 pages

# Export to CSV

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- Entire tables, or selected columns and/or rows can be exported to a csv file



The image shows a software dialog box titled "Export" with a close button (X) in the top right corner. Inside the dialog, there is a "File name" section with a text input field containing "storageClass\_List.csv". Below this, it states "Contains 885 records". The "Column Selection" section has two radio buttons: "All Columns" (which is selected) and "Visible Columns Only". The "Row Selection" section has three radio buttons: "Selected Rows Only", "All Rows" (which is selected), and "Filtered Rows Only". At the bottom of the dialog are two buttons: "Cancel" on the left and "Export" on the right, which is highlighted in blue.

# Details views

- Details of an individual construct can be viewed in a scrollable overlay page, with search and section bookmarks.

## View Storage Class

Active - ACCTDSN4

Q Search

About

Performance Objectives

Availability

Accessibility

Volume

Cache Facility

Z Hyperlink

About

Storage class name

ACCTDSN4

Description

SYSTEM1 STORCLAS FOR ACS INTERNAL PROCESSING

Last User

IBMUSER

Update Date

1987/07/27

Update Time

16:06

Performance Objectives

Direct Millisecond Response Time

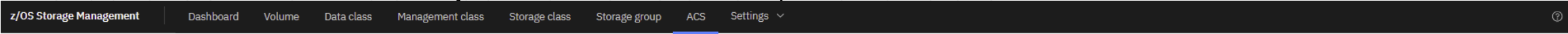
500

Direct Bias

Sequential Millisecond Response Time

# ACS Routines

- Information about the ACS routines last translated / validated into the configuration can be viewed. The ACS data set link can be used to launch a window to browse the data set that was input to translation, if available.



## ACS automatic class selection

An automatic class selection (ACS) routines are high-level programming languages that are critical components of data set creation and use in z/OS.

[Help](#)

Active			
smsd : bad2 : +			
Source SCDS Name			
TRINHNG.SCDs			
Q Search			
<input type="checkbox"/>	ACS routine type	ACS Data Set	Translator user ID
:	<input type="checkbox"/> Storage Group	<a href="#">D55TST.VISION.SYSTEM.SMS.ACSRTN(STORGRP)</a>	ROMELL
:	<input type="checkbox"/> Storage Class	<a href="#">D55TST.VISION.SYSTEM.SMS.ACSRTN(STORCLAS)</a>	KEMINER
:	<input type="checkbox"/> Management Class	<a href="#">D55TST.VISION.SYSTEM.SMS.ACSRTN(MC)</a>	PWELDON
:	<input type="checkbox"/> Data Class	<a href="#">D55TST.VISION.SYSTEM.SMS.ACSRTN(DC)</a>	ZAIDA
Items per page: 10 1-4 of 4 items			

```
D55TST.VISION.SYSTEM.SMS.ACSRTN(STORGRP)
-----1-----2-----3-----4-----5-----6-----7----->80
1  PROC STORGRP
2  /*
3  /*          START OF SDM DEFS
4  /*
5  FILTLIST V3390  INCLUDE(P%S001,P%S002,P%S003,P%S004,P%S005,P%S006,
6                  P%S007,P%S008,S%S001,S%S002,S%S003,S%S004,S%S005,
7                  S%S006,S%S007,S%S008,J%S%11,J%S%12,J%S%13,J%S%14,
8                  J%S%15,J%S%16,J%S%17,J%S%18,J%S%19,
9                  UUS001,'MUS001','MUS002','MUS003') /*BAD */
10 EXCLUDE('UUS00A','UUS00B','UUS00C','UUS00D')
11 FILTLIST U3380  INCLUDE(U%S001,U%S002)
12 EXCLUDE('UUS001','UUS002')
13 FILTLIST V3380  INCLUDE(P%S00A,P%S00B,P%S00C,P%S00D,P%S00E,P%S00F,
14                  S%S00A,S%S00B,S%S00C,S%S00D,S%S00E,S%S00F,
15                  J%S%0A,J%S%0B,J%S%0C,J%S%0D,J%S%0E,UUS001,'MUS00A',
16                  'MUS00B','MUS00C')
17 EXCLUDE('UUS001','UUS002','UUS003','UUS004','UUS005')
18 FILTLIST U3380  INCLUDE(U%S00A,U%S00B)
19 EXCLUDE('UUS00A','UUS00B')
20 /*
21 /*          END OF SDM DEFS
22 /*
23 /*
24 /* SYSTEM 1 VERSION
25 /* STORGRP WILL BE DETERMINED VIA &STORCLAS. THE FIRST FIVE CHARS
26 /* DETERMINE STORGRP EXCEPT IN CASES WHERE TWO STORGRPS ARE ASSIN-
27 /* ED. IN THOSE CASES THE ENTIRE STORCLAS NAME IS LOOKED AT.
28 /* VERSION 08/26/92-1.
29 /*
30 /* NOTE: THIS VERSION IS REARRANGING THE CODE THAT WAS WRITTEN TO
31 /* TEST LINE ITEM. THE NESTING IN BEING IMPROVED FOR READ-
32 /* ABILITY AND EXIT WILL TAKE PLACE UPON SUCCESSFUL SETTING
33 /* OF STORGRP OR UPON ERROR.
```

# SMS command to save ACS source, if present

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- SETSMS **SAVEACSSOURCE(ACSTYPE,CDS,OUTPUTDS)**

Allows you to save the ACS Source into a sequential data set if it exists.

## **ACSTYPE**

DC | MC | SC | SG

## **CDS**

Name of the SCDS, ACDS, or ACTIVE

## **OUTPUTDS**

Name of existing data set with recfm FB or VB, and lrecl larger than longest record.

# Interactions & Dependencies

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- Software Dependencies
  - No dependencies.
  - New in this release in the SMS component, when the ACS routines are translated and validated on zOS 3.2, the content of the ACS routines as of that point in time are saved in the SCDS.
- Hardware Dependencies
  - None
- Exploiters
  - None

# Upgrade & Coexistence Considerations

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- To exploit this solution, all systems in the Plex must be at the new z/OS level: **No**
- List any toleration/coexistence APARs/PTFs. **N/A**
- List anything that doesn't work the same anymore.
  - Because SMS saves the ACS source code during translate/validate, the SCDS could take up slightly more space. It may be necessary to increase the allocation
- Upgrade involves only those actions required to make the new system behave as the old one did.
- Coexistence applies to lower level systems which coexist (share resources) with latest z/OS systems.



# Installation & Configuration

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- zOSMF needs to be installed and configured
- Storage Management is an internal plugin which is installed as part of zOSMF
- Storage Management is disabled by default. Enable via General Settings
- Security setup
  - Set up zOSMF security
  - Storage Management requires additional resources. Sample in SAMPLIB(IZUSGSEC)
  - Viewing of ACS routines in the web editor requires zOSMF TSO access to be set up for the user

# Summary

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- New Web UI for viewing SMS Configuration
- REST API updates (see API reference page for details)
- SMS command to save the ACS routine source, if it was translated/validated into the SCDS on the new zOS release

# Appendix

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- Publications
  - zOSMF Configuration Guide
  - zOSMF Programming Guide
  - Online help within zOSMF
  - MVS Console Commands (SETSMS command)

[Solution page](#) on ibm.com