

z/OS V2.5 IBM Education Assistant

Solution Name: z/OSMF Supports Creating Data Sets and Files on Desktop UI

Solution Element(s): z/OSMF Core

July 2021



Agenda

- Trademarks
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- Overview
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- Interactions & Dependencies
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Trademarks

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

Objectives

- User can create new data set with either basic attributes or SMS constructs
- User can view z/OSMF delivered default data set templates.
- Admin can create/delete/modify public data set templates for all the users to reference.
- User can create/delete/modify private data set template for his/her own reference.
- User can create a data set base on a model data set
- User can create a data set member, a USS file, directory on z/OSMF.

Overview

- Who (Audience)
 - z/OSMF Users
- What (Solution)
 - z/OS users who may find it difficult to create a dataset with all the parameters, and it requires deep knowledge on data set, SMS, etc. We'd like to provide an easier and user-friendly way that doesn't require as much knowledge.
- Wow (Benefit / Value, Need Addressed)
 - The create dataset function provides a modernized and clean UI to create data set, with built-in cross check to the dozen parameters. Moreover, users can create a data set base on default templates or admin defined templates, and can save a combination of parameters as a dataset template if it's frequently used, and next time user can create dataset from it.

Usage & Invocation

- 1. Right click on the z/OSMF desktop, choose New->Data Set, or in the Data Set and File Search widget, click + button to bring the creating data set panel.
- 2. Create a data set with basic attributes.

New Data Set

* Data Set Name

Data Set Name Dataset Template

With Basic Attributes With SMS Constructs

Data Set Organization Record Format

Partationed FB

Record Length Data Set Size

80 Expected Size MB

> Advanced

[Help](#) Save as Template Close OK

New Data Set

Record Length Data Set Size

80 Expected Size MB

> Advanced

Space Units *Primary Quantity

TRACK 1

Secondary quantity Directory Blocks

Secondary space allocation Number of directory blocks

Dataset Name Type (DSNTYPE) Average Block

LIBRARY Average block

Block Size Data Class

Block size Data class

Volume Serial Device Type

Volume Device type

[Help](#) Save as Template Close OK

Usage & Invocation

- 3. User can specify a wanted size of the data set, and values to the primary, secondary and space unit fields will be auto filled

New Data Set

* Data Set Name

Data Set Name

With Basic Attributes

With SMS Constructs

Data Set Organization

Partationed

Record Format

FB

Record Length

80

Data Set Size ?

1

Unit of Size

MB

Advanced

Space Units

TRACK

*Primary Quantity

10

Secondary quantity

2

Directory Blocks

Number of directory blocks

Help

Save as Template

Close

OK

Usage & Invocation

- 4. Simplification and cross check will be performed while typing into the input box, or select a field that has a co-required parameter.
 - Only display directory block field when dsorg=PO
 - When dsorg=PO & dsntype=PDS, directory block is a required field
 - When dsorg=PO, dsntype includes LIBRARY, PDS, HFS, PIPE. when dsorg=PS, dsntype includes EXTREQ, EXTPREF, LARGE, BASIC
 - When space unit is BLOCK, Average Block becomes required field.

The newly required fields will also have a required icon before the label, Ok button is disabled.

New Data Set

Record Length

80

Data Set Size

Expected Size

MB

Advanced

Space Units

TRACK

*Primary Quantity

1

Secondary quantity

Secondary space allocation

*Directory Blocks

Number of directory blocks

Dataset Name Type (DSNTYPE)

PDS

Average Block

Average block

Block Size

Block size

Data Class

Data class

Volume Serial

Volume

Device Type

Device type

Help

Save as Template

Close

OK

Usage & Invocation

- 5. Use Data Set Template to Create a Data Set
- User can get a list of z/OSMF defined data set templates on accessing the panel, selecting a template will auto populate the value of attributes. 5 IBM provided templates according to the content of the data set, including
 - JCL. RECFM=FB. LRECL=80. PDSE. Primary and secondary space of one megabyte (19 Tracks).
 - REXX. RECFM=VB. LRECL=255. PDSE. Primary and secondary space of one megabyte.
 - ASSEMBLE. Same as JCL
 - SMF. RECFM=VBS. LRECL=32760. EXTPREF. Primary 10 cylinders and secondary space 5 cylinders.
 - LOADLIB. RECFM=U. LRECL=0. BLKSIZE=32760. PDSE. Primary and secondary space of one megabyte.

New Data Set

* Data Set Name
Data Set Name

Data Set Template

With Basic Attributes With SMS Constraints

Data Set Organization: **Partitioned** Record Form: **FB**

Record Length: **80** Data Set Size: **Expected Size** Unit of Size: **MB**

> Advanced

[Help](#) **Save as Template** **Close** **OK**

Usage & Invocation

- 7. User can save frequently used combination of parameters as a dataset template.
- Admin can save a template as public so all the other users can see it, while user can save a private template that's visible only by the creator

The screenshot shows a 'New Data Set' dialog box with a 'Save as Template' sub-dialog box open. The 'New Data Set' dialog has two tabs: 'With Basic Attributes' (selected) and 'With SMS Constructs'. It contains fields for 'Data Set Organization' (set to 'Partitioned') and 'Record Format' (set to 'FB'). Below these are fields for 'Dataset Name Type (DSNTYPE)' (set to 'LIBRARY') and 'Average Block' (set to 'Average block'). At the bottom are 'Block Size' and 'Data Class' fields. The 'Save as Template' sub-dialog is centered over the main dialog. It has a title bar with a close button. Inside, there is a text input field containing 'PDSE10M'. Below the input field is a checkbox labeled 'Public Template' which is checked. At the bottom right of the sub-dialog are 'Cancel' and 'OK' buttons. The main dialog also has a 'Help' link at the bottom left and 'Save as Template', 'Close', and 'OK' buttons at the bottom right.

Usage & Invocation

- 8. Create with SMS Constructs
- The SMS constructs tab has “Storage Class” “Data Class” and “Management Class” in the main layout, and other attributes are in the Advanced section. User can specify active class(es) in the panel.
- The default values are the same as in Basic tab. If user inputs data class, the default values will set to empty (since these mostly can be covered by attributes defined in the data class).
- If the default values aren’t what use wants, user can click on the “Clear All” button in the dialog.

New Data Set

* Data Set Name

Data Set Name

With Basic Attributes

With SMS Constructs

Storage Class

Storage class

Data Class

Data class

Management Class

Management class

Advanced

Data Set Organization

Partitioned

Space Units

TRACK

*Primary Quantity

1

Secondary quantity

Secondary space allocation

Record Format

Record Length

[Help](#)

Clear All

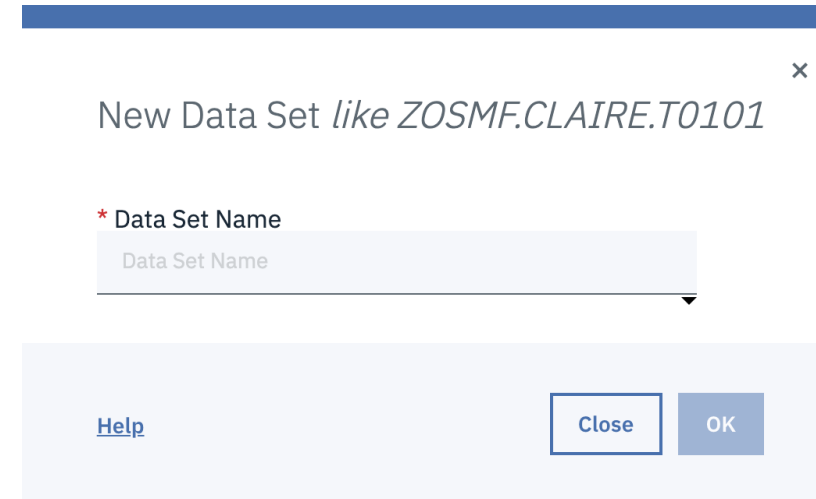
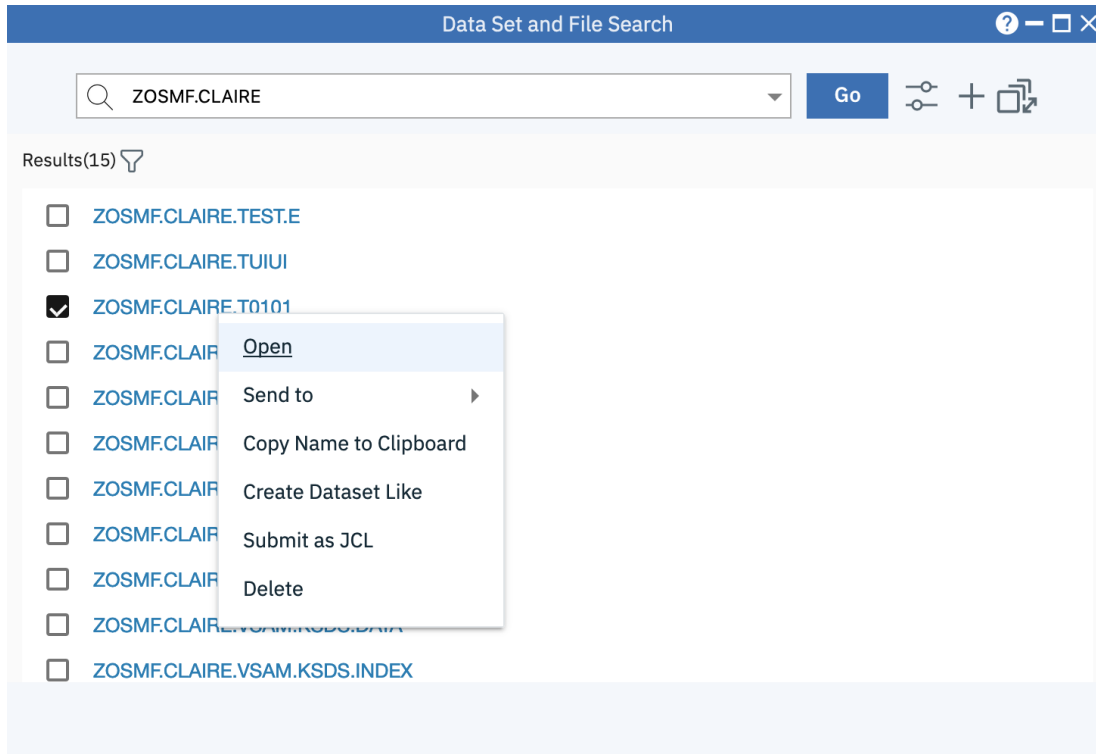
Save as Template

Close

OK

Usage & Invocation

- 9. Create Like
- “Create Like” function is provided by right click on a search result of a dataset. Create Data Set Like



Usage & Invocation

- 10. Create Data Set Member, USS File, Directory

×

New Member

☐ Data Set

☒ Member

☐ File or Directory

* Data Set Name

zosmfad.fktest.abc2

* Member Name

member1

Volume

Volume

[Help](#)

Close

OK

×

New File or Directory

☐ Data Set

☐ Member

☒ File or Directory

Use Current Path

* File or Directory Name

/tmp/mydir

Select the request type

directory

Mode

777

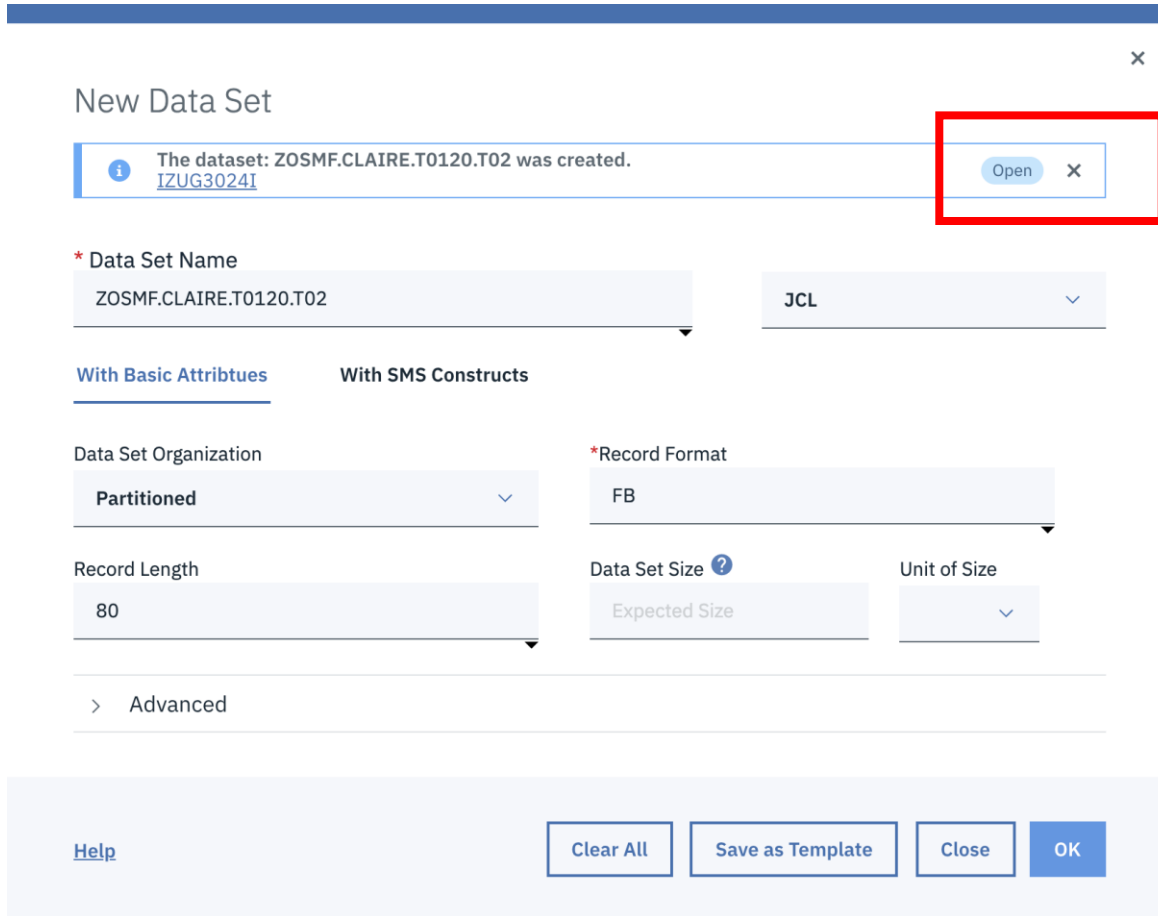
[Help](#)

Close

OK

Usage & Invocation

- 11. Open the created data set on a successfully call



New Data Set

The dataset: ZOSMF.CLAIRE.T0120.T02 was created.
[IZUG3024I](#) Open ×

* Data Set Name
ZOSMF.CLAIRE.T0120.T02 JCL

With Basic Attributes With SMS Constructs

Data Set Organization
Partitioned

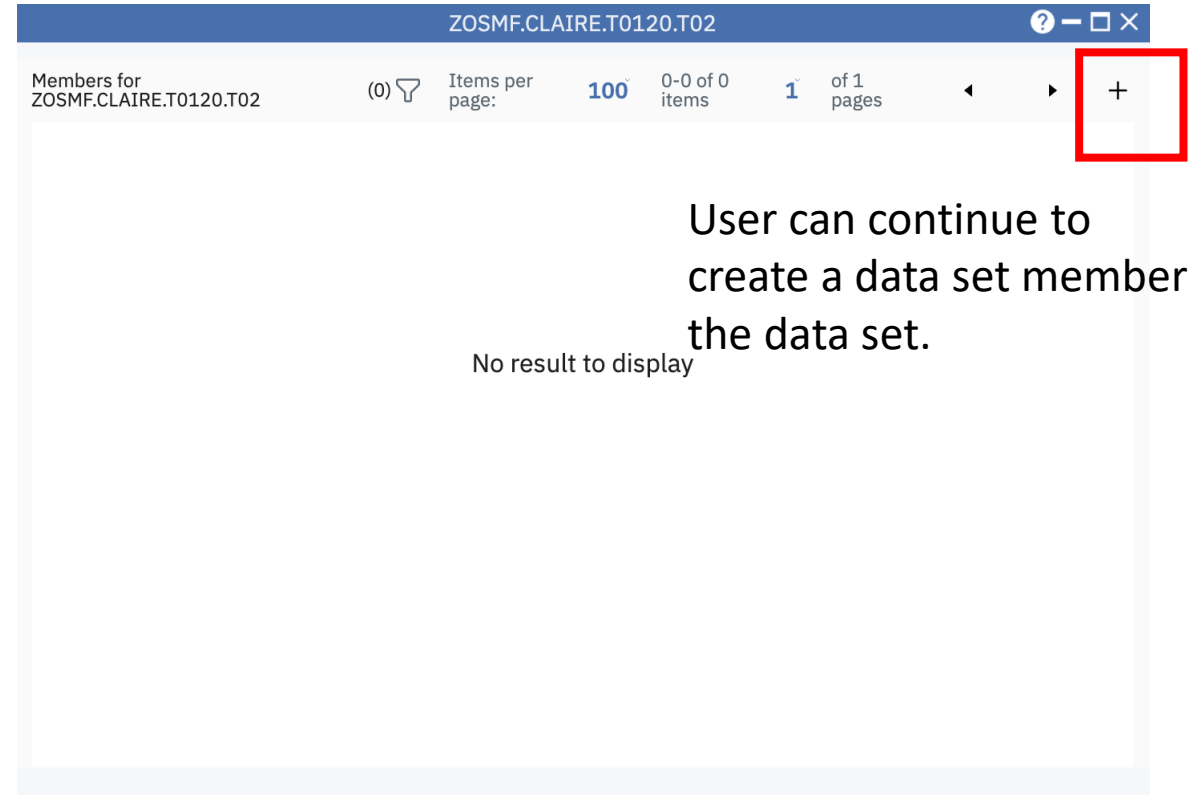
*Record Format
FB

Record Length
80

Data Set Size ? Expected Size Unit of Size

> Advanced

[Help](#) Clear All Save as Template Close OK



ZOSMF.CLAIRE.T0120.T02

Members for ZOSMF.CLAIRE.T0120.T02 (0) Items per page: 100 0-0 of 0 items 1 of 1 pages +

No result to display

User can continue to create a data set member in the data set.

Interactions & Dependencies

- Software Dependencies
 - z/OSMF File and Data Set Services
- Hardware Dependencies
 - None
- Exploiters
 - None

Upgrade & Coexistence Considerations

- 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.
 - N/A
- Upgrade involves only those actions required to make the new system behave as the old one did.
 - N/A
- Coexistence applies to lower level systems which coexist (share resources) with latest z/OS systems.
 - N/A

Installation & Configuration

- None

Summary

- The following z/OS V2R5 item has been explained:
z/OSMF Supports Creating Data Set and File on UI

Appendix

- Publications : N/A