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

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Agenda

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

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- Additional Trademarks:
  - None.

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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.

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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.

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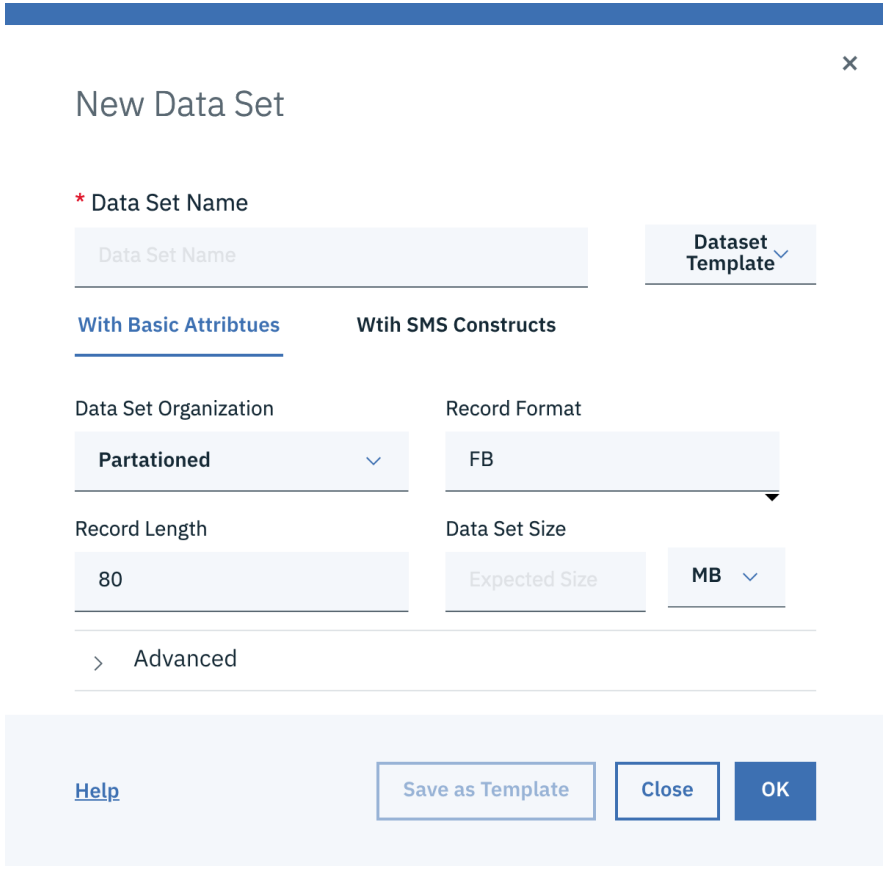
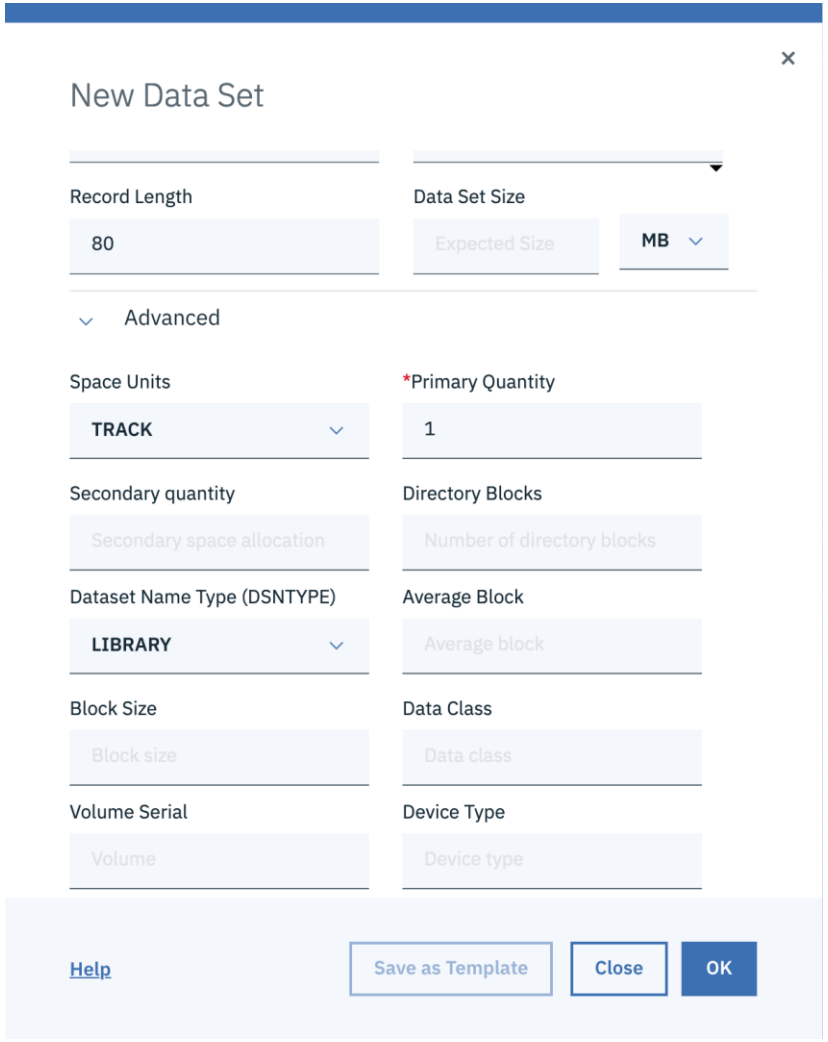
Usage & Invocation

- 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.





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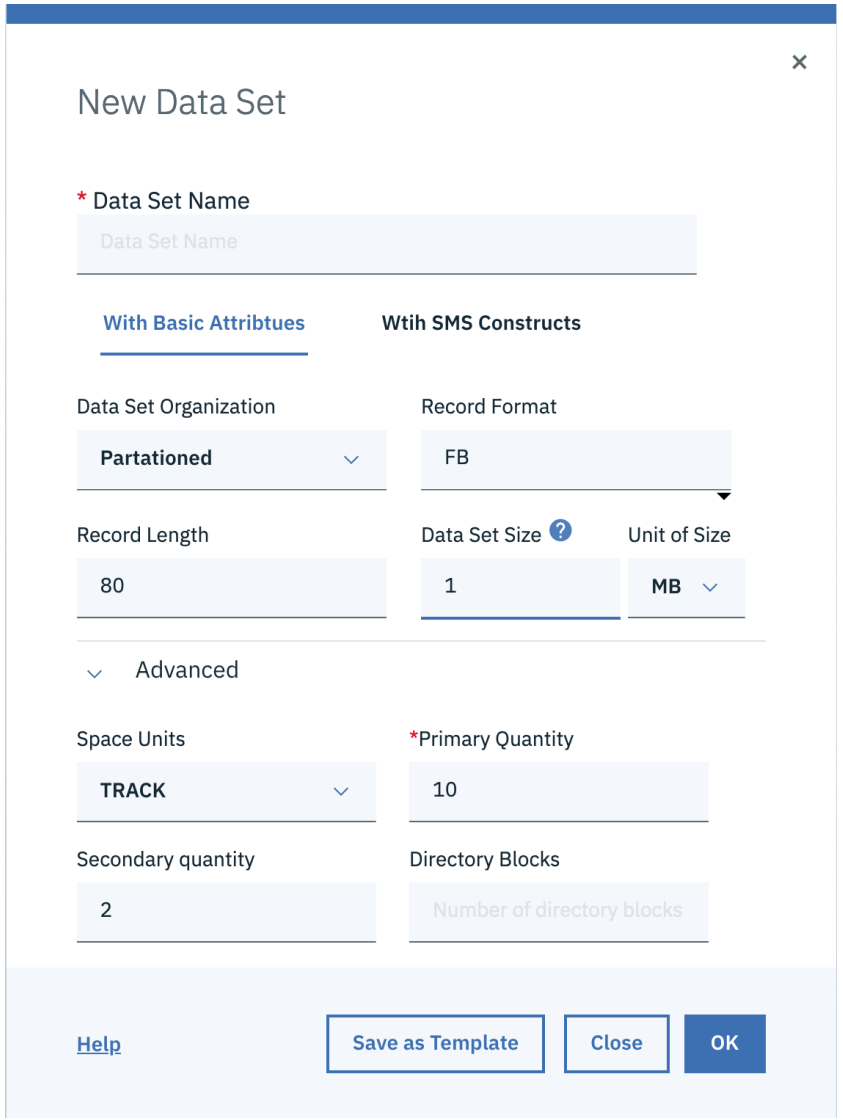
Usage & Invocation

- 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



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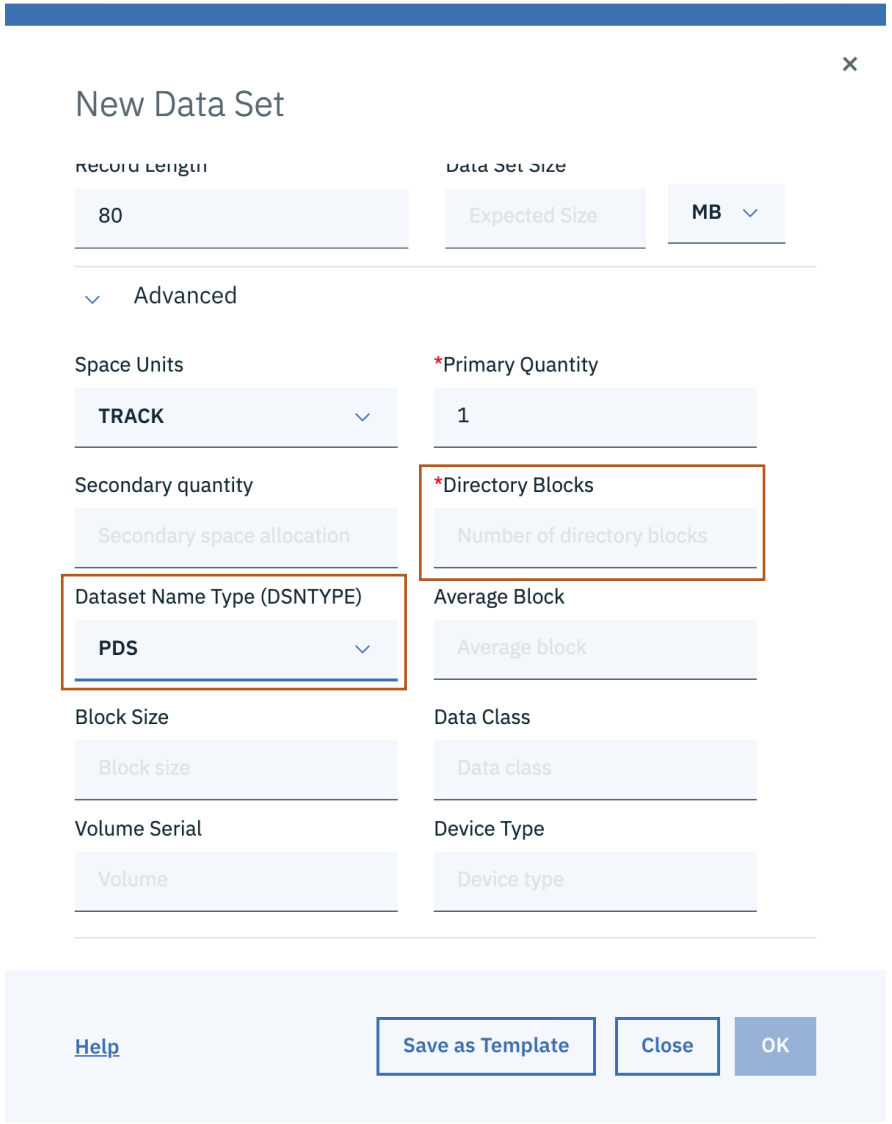
Usage & Invocation

- 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.



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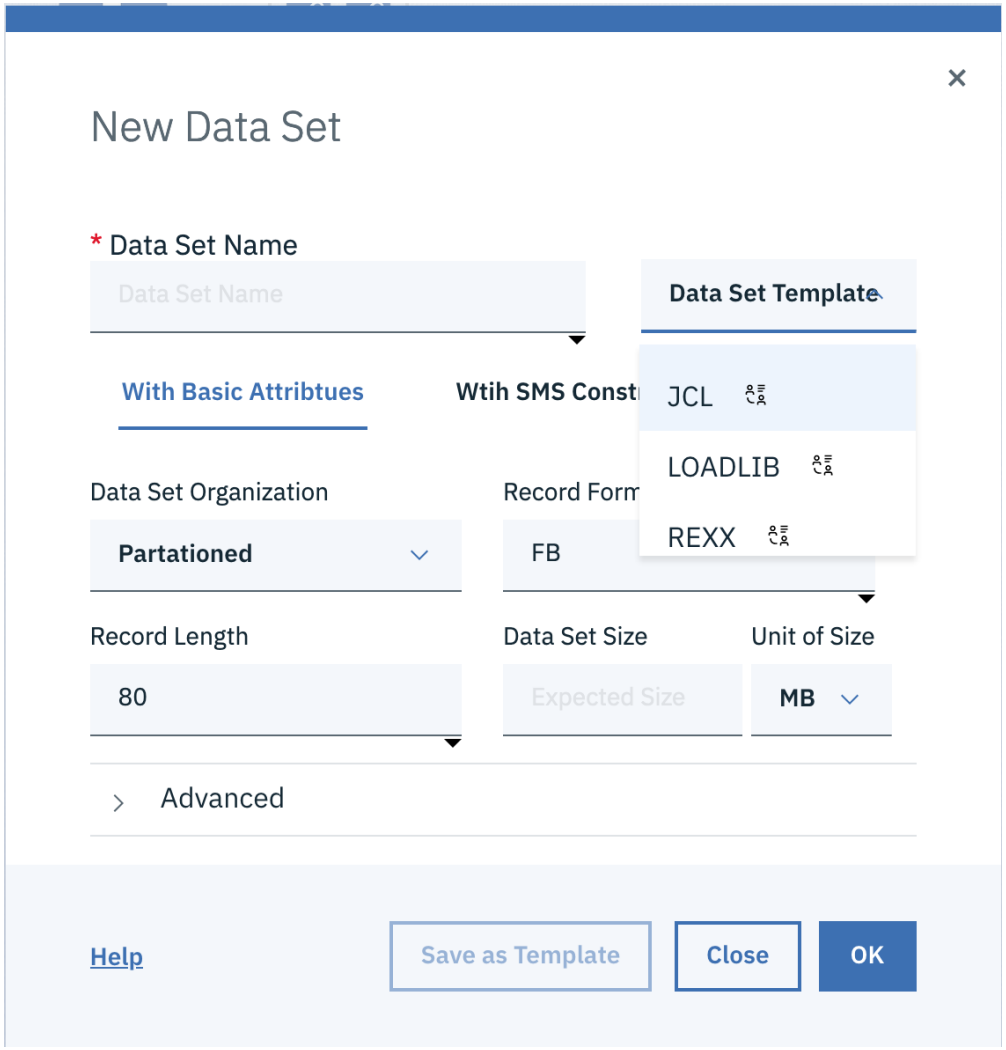
Usage & Invocation

- 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.



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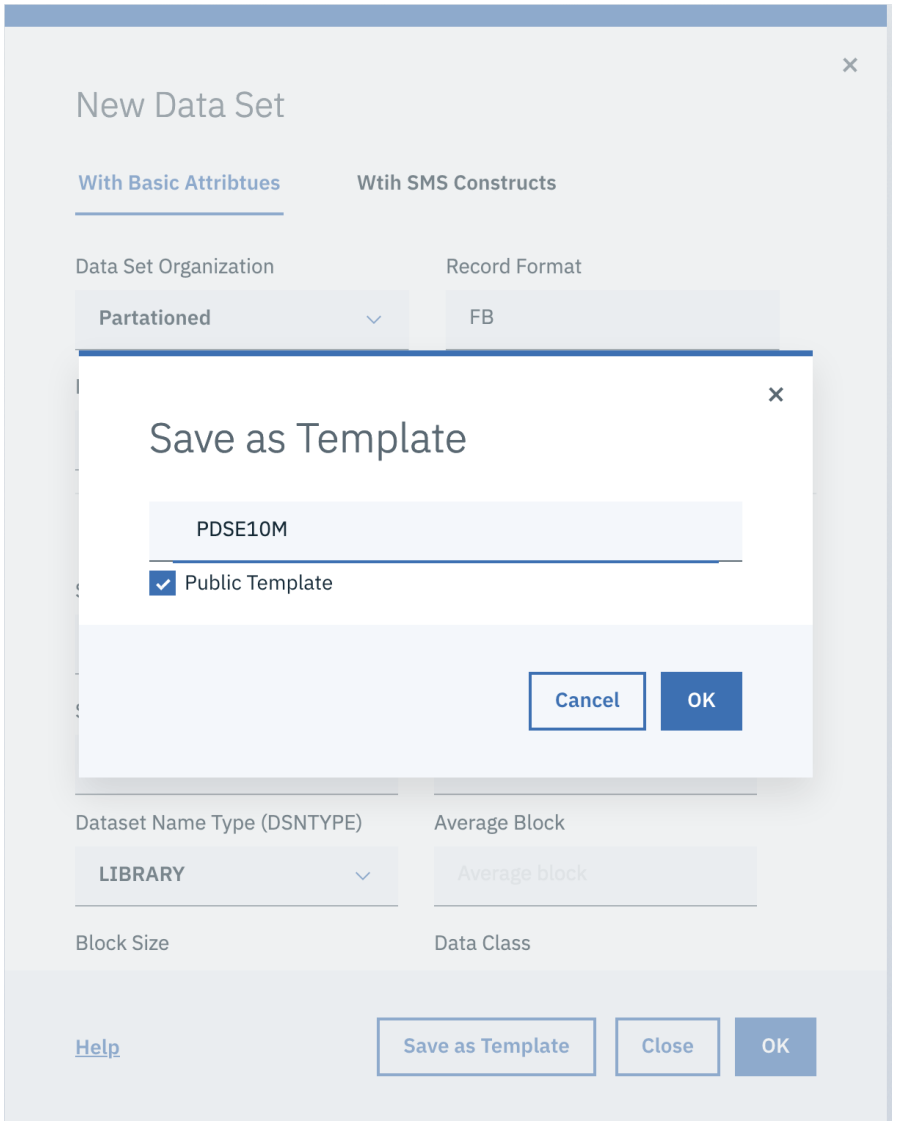
Usage & Invocation

- 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



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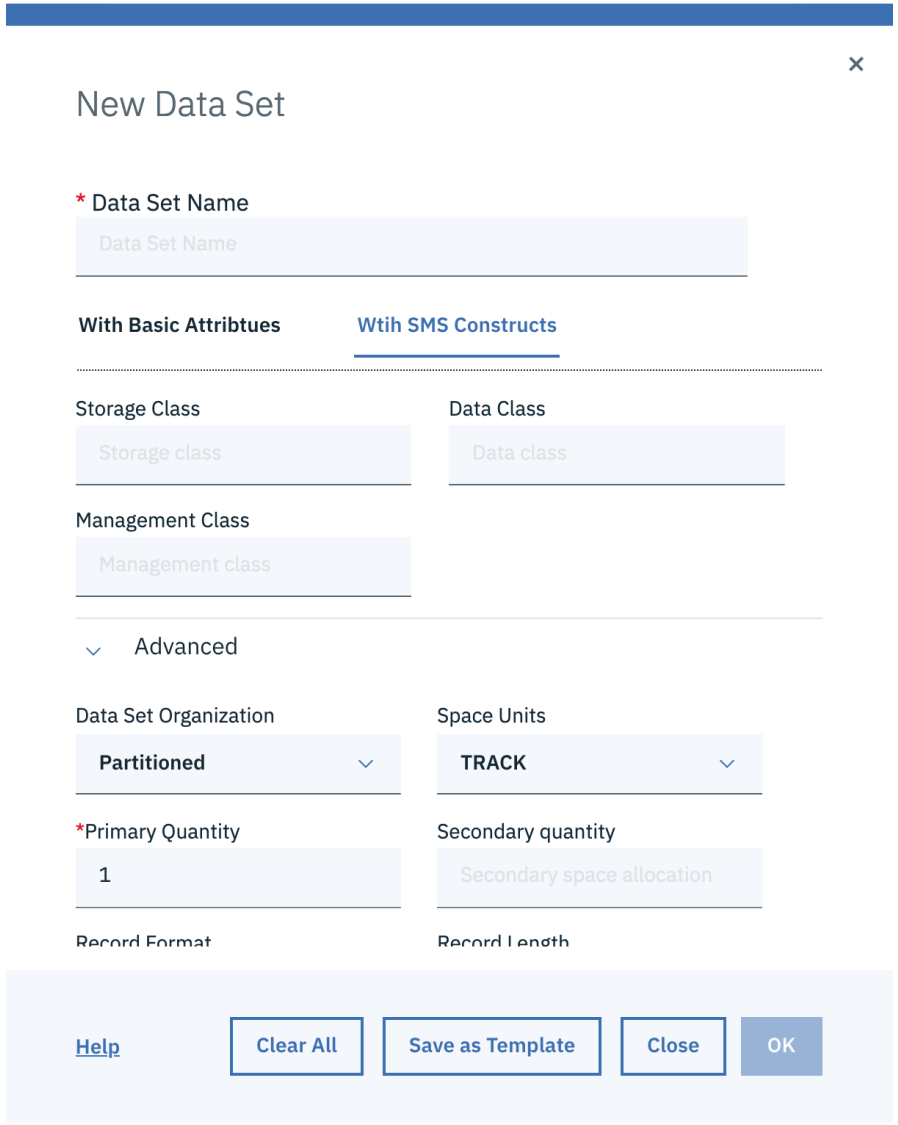
Usage & Invocation

- 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.



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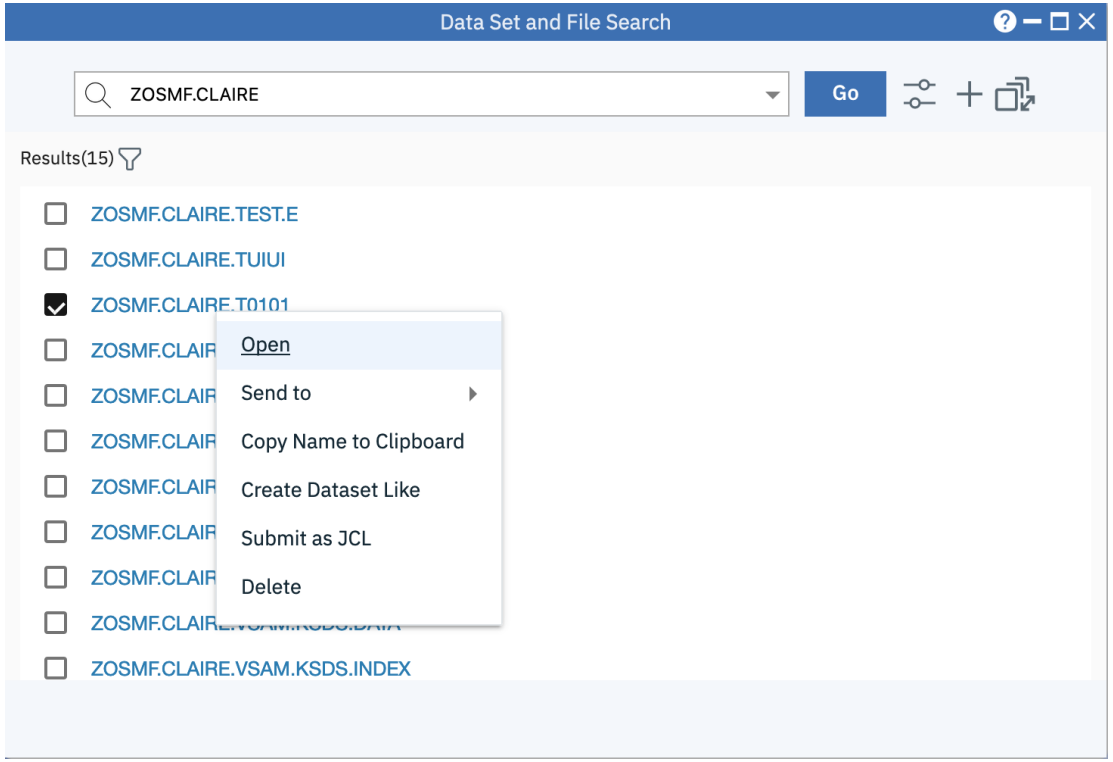
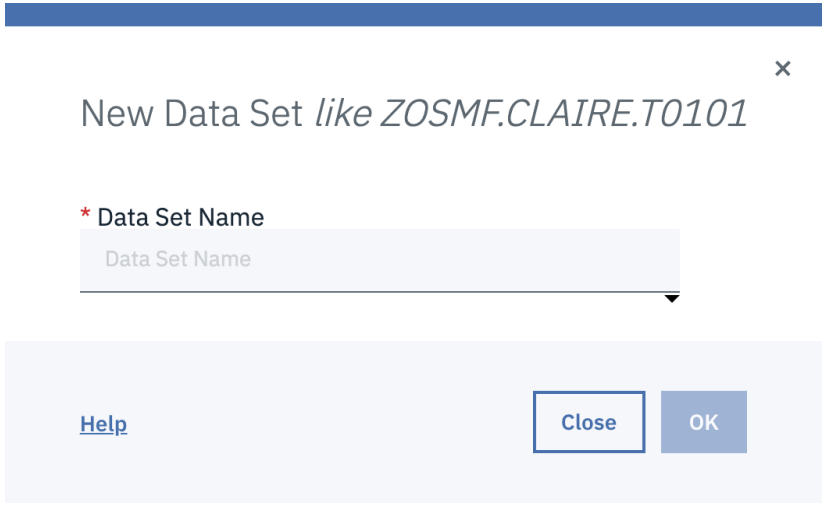
Usage & Invocation

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





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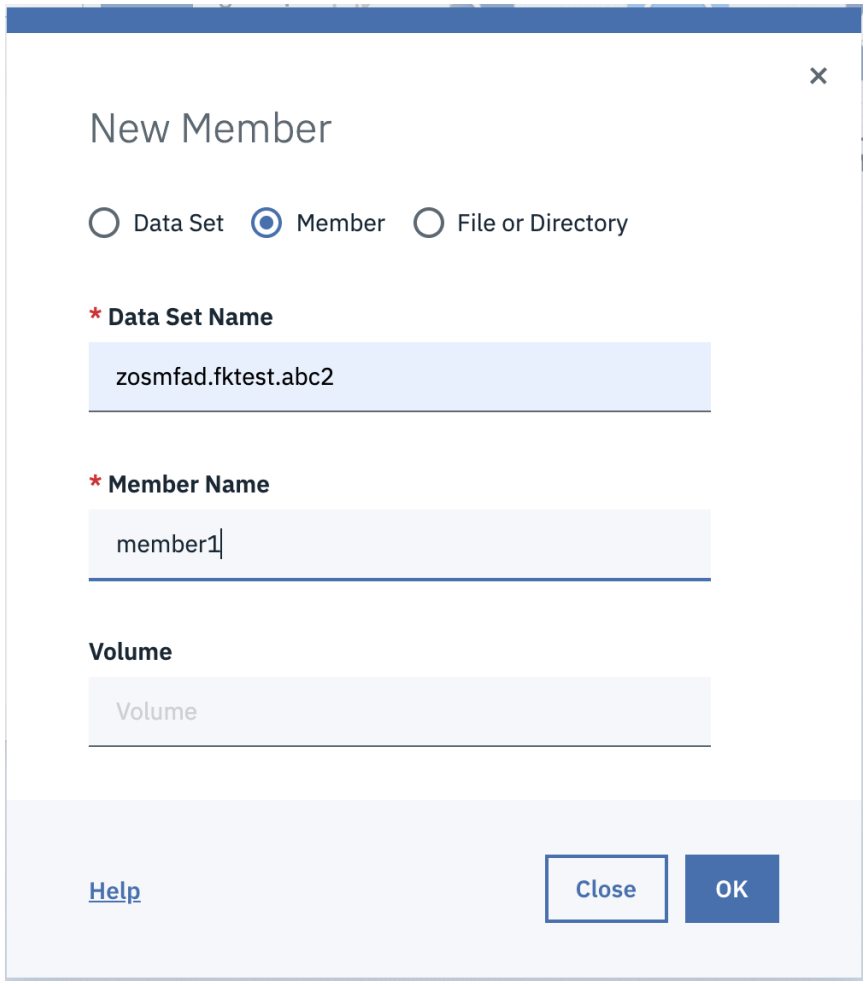
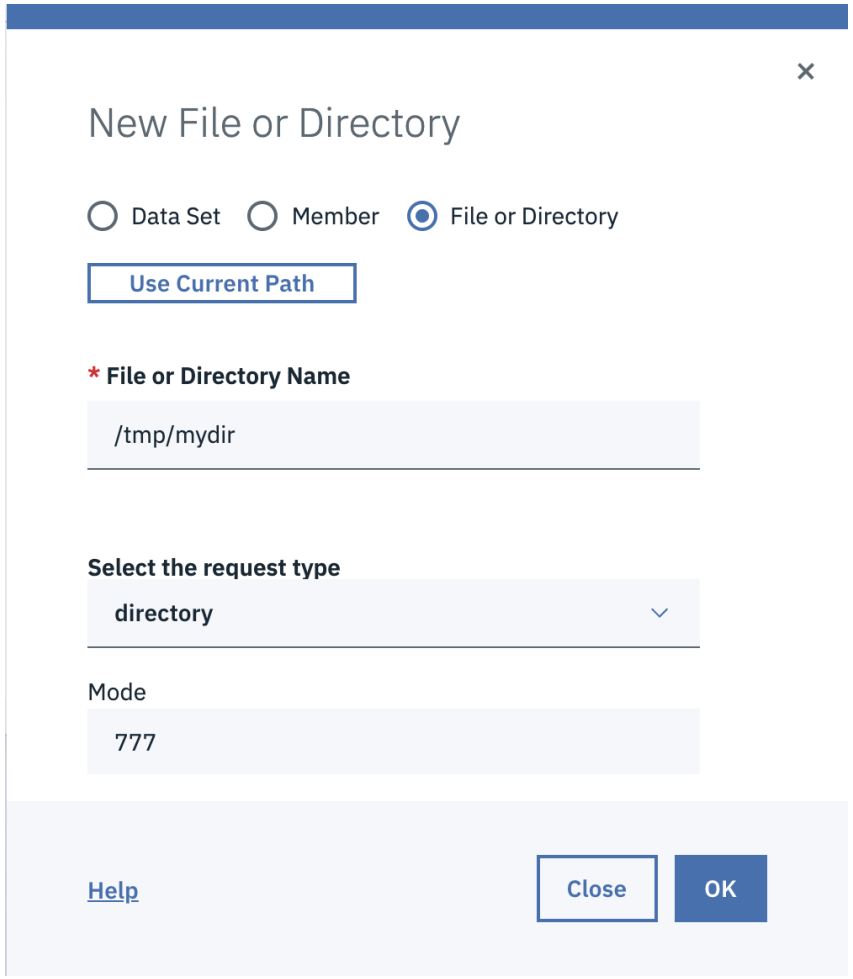
Usage & Invocation

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





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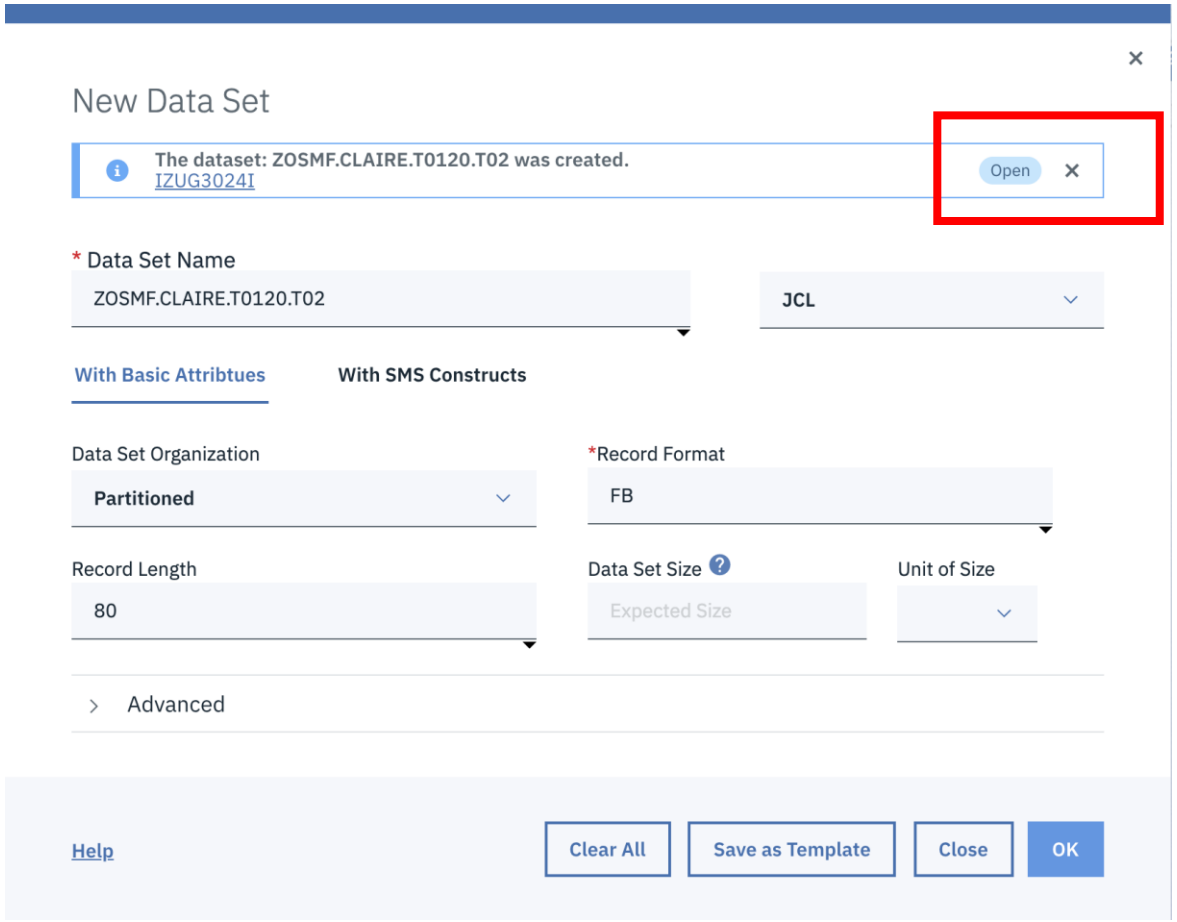
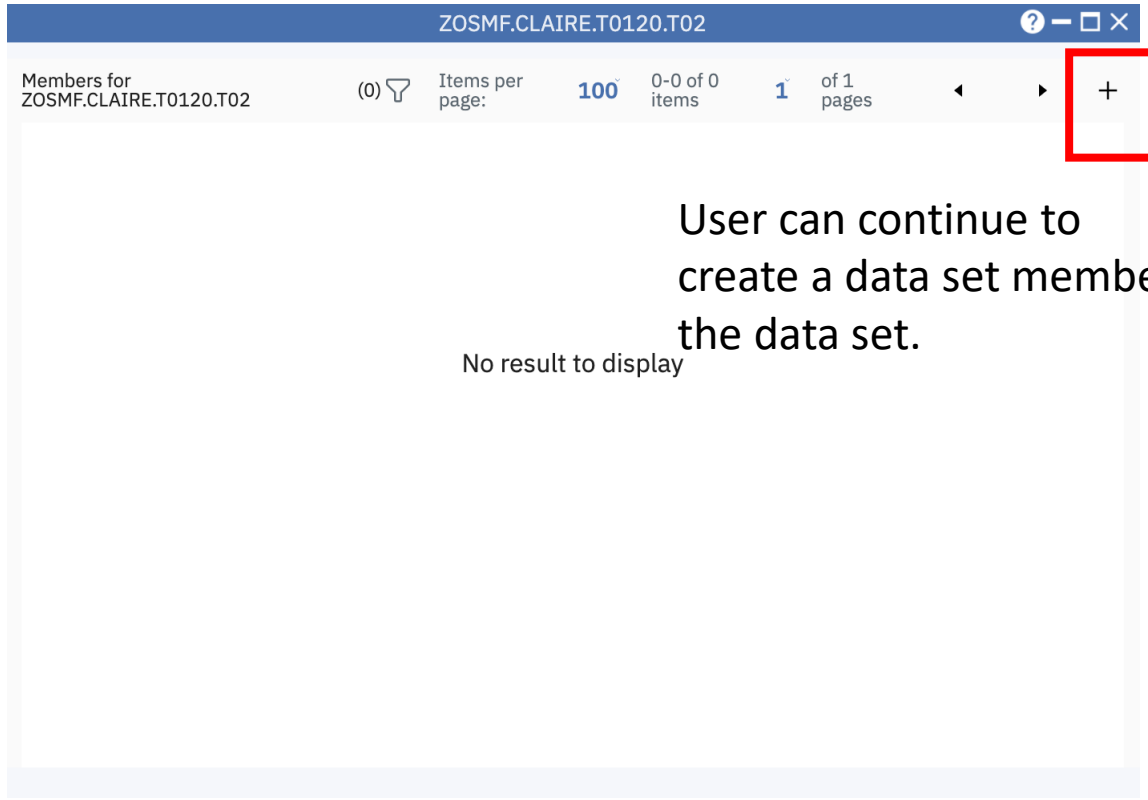
Usage & Invocation

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





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

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Interactions & Dependencies

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

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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

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Installation & Configuration

- None

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Summary

- The following z/OS V2R5 item has been explained:

  z/OSMF Supports Creating Data Set and File on UI

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Appendix

- Publications : N/A

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