

z/OS V2.5 IBM Education Assistant

Solution Name: Sysplex CFRM policy editor

Solution Element(s): z/OSMF Sysplex Management

July 2021



Agenda

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

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

Objectives

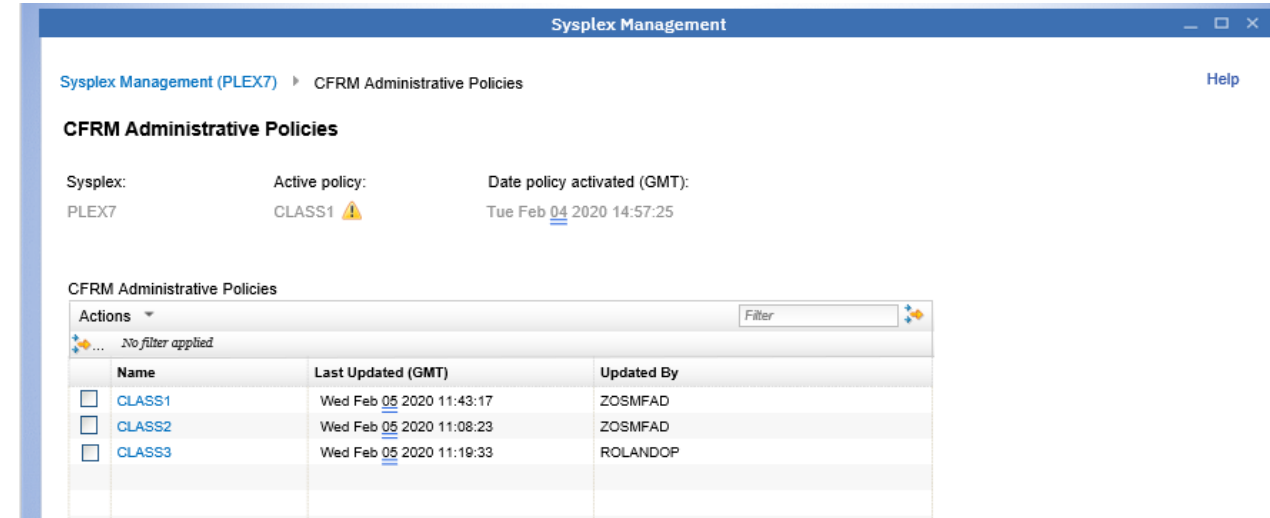
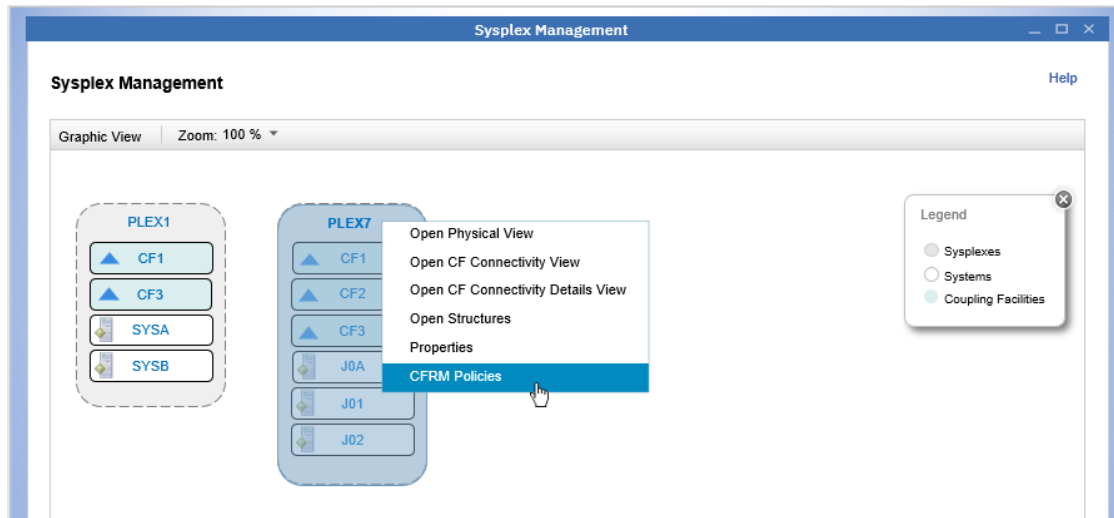
- With this new function, users can view and update Sysplex CFRM administrative policy from z/OSMF UI only with higher efficiency and not require job interaction.
 - Users can view Sysplex CFRM administrative policy information from z/OSMF UI.
 - Users can update Sysplex CFRM administrative policy information from z/OSMF UI.
 - Users can active one Sysplex CFRM administrative policy from z/OSMF UI.

Overview

- Who (Audience)
 - System administrator
- What (Solution)
 - System administrator can view Sysplex CFRM administrative policy information from z/OSMF UI.
 - System administrator can update Sysplex CFRM administrative policy information from z/OSMF UI.
 - System administrator can active one Sysplex CFRM administrative policy from z/OSMF UI.
- Wow (Benefit / Value, Need Addressed)
 - CFRM policy editor will use GUI based format to display CFRM administrative policy information. The policy information, CF information and structure information can be viewed and updated much more easily than traditional JCL utility.
 - With traditional JCL utility, the updated structure value, for example structure size, needs to be manually cut and pasted into the CFRM policy batch utility, which is a tedious task for a large installation, because it easily has hundreds of structures. CFRM policy editor supplies the function to bulking editing on structure, which could update multiple structure data by few clicks.
 - Without this new function, defining and modify CFRM policies is a manual process which is very easy to get errors. z/OSMF Sysplex CFRM policy editor supplies the function to check each input field and has the intelligence to offer help and guidance on best practices. For example, when copying one CF, Sysplex CFRM policy editor will guide users to add the new CF into structure Preference List and prompt the best location in the Preference List

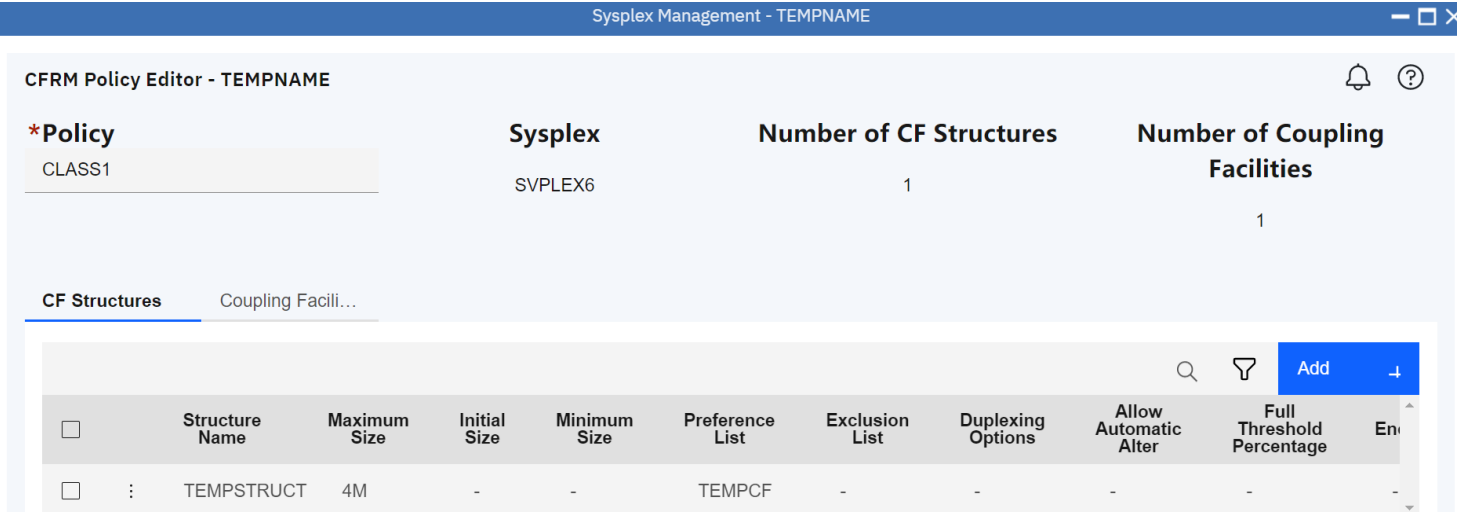
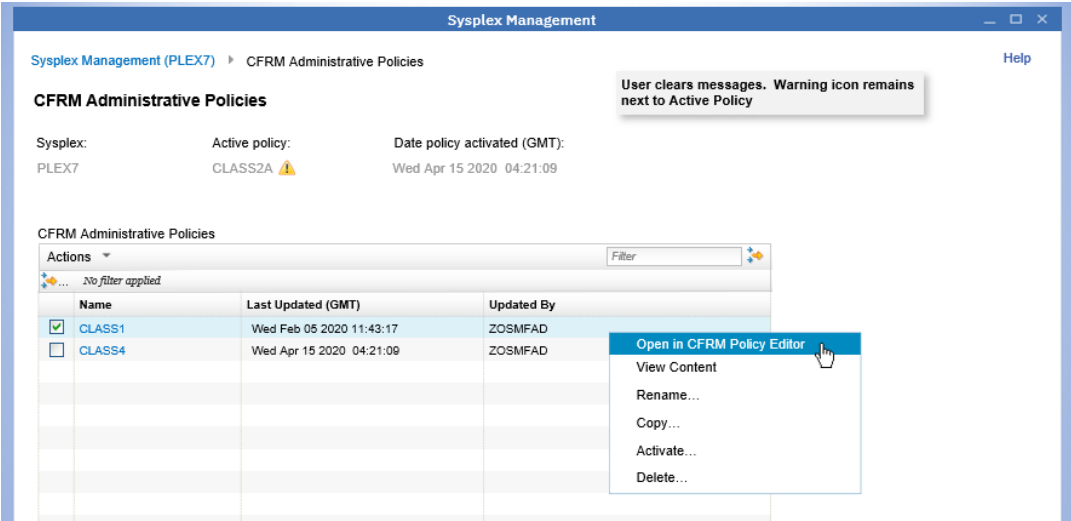
Usage & Invocation (1)

- Retrieve CFRM policy information



Usage & Invocation (2)

- Select policy name and start CFRM policy editor



Usage & Invocation (3)

- Users could add/modify/copy/rename/delete Couple Facility
- Below is Couple Facility UI page:

Modify Coupling Facility CF7

* CF name

CF7

* Machine type

SIMDEV

* Manufacturer

IBM

* Plant

EN

* Sequence number

ND0500000000

* Partition

00

Dump space

15

:

M

:

Site

SITE1

:

* List of CF structures with Coupling Facility in their Preference List

Q Search

Add +

<input type="checkbox"/> In CF Structure Preference List	Position in Preference List	
<input type="checkbox"/> CACHE1	1 of 3	:
<input type="checkbox"/> THRLSTMA	1 of 4	:

Total: 2

Cancel

OK

Modify Coupling Facility CF7

* CF name

CF7

* Machine type

SIMDEV

* Manufacturer

IBM

* Plant

EN

* Sequence number

ND0500000000

* Partition

00

Dump space

20

:

M

:

Site

SITE1

:

* List of CF structures with Coupling Facility in their Preference List

Delete

Modify

Add +

Cancel

<input checked="" type="checkbox"/> In CF Structure Preference List	Position in Preference List	
<input checked="" type="checkbox"/> CACHE1	1 of 3	:
<input checked="" type="checkbox"/> THRLSTMA	1 of 4	:

Total: 2

User has option to add, modify and/or delete items in this table

Cancel

OK

Usage & Invocation (4)

- Users could add/modify/copy/rename/delete one structure
- Below is the structure UI page:

Modify CF Structure THRZ

Top of Page: Sections 1 & 2 are always expanded; Sections 3, 4 are collapsed (Only expanded by default when they have content/values or by user)

1. Basic

* Structure name: THRZ

* Maximum size: 85 M Initial size: M Minimum size: 0 M

Duplexing options: Allowed Duplexing site: Any site Duplexing mode: Synchronous only Allow automatic alter: ☐

Encrypt: ☐ Recovery priority:

* 2. Preference List

Search

Available CF	Site
<input type="checkbox"/> CF2	SITE1
<input type="checkbox"/> CF3	SITE2
<input type="checkbox"/> CF4	SITE3
<input type="checkbox"/> CF5	-

Total: 4

Add to Top > Add to Bottom > < Remove

Search

Order	Preference List CF	Site
<input type="checkbox"/> 1.	CF7	SITE1
<input type="checkbox"/> 2.	CF1	-

Total: 2

Carbon Expandable/Collapsible Tile Control

3. Exclusion List

Search

Available CF Structures
<input type="checkbox"/> LT01
<input type="checkbox"/> CACHE1
<input type="checkbox"/> CACHE2
<input type="checkbox"/> THRLSTMA

Total: 4

Add > < Remove

Search

CF Structures in EXCLLIST

Total: 0

4. Advanced

Full threshold percentage: Rebuild threshold percentage: Maximum SCM size:

SCM algorithm: Enforce CF order: ☐ Allow reallocate: ☐

Sublist notification delay interval (μs): List notification delay interval (μs): Key range notification delay interval (μs):

Cancel OK

Usage & Invocation (5)

- Structure and CF supports filter and search

CF Structures

Coupling Facilities

Search

Filter

Add

User will press Filter Option

<input type="checkbox"/> Structure Name ↑	Maximum Size	Initial Size	Minimum Size	Preference List	Exclusion List	
<input type="checkbox"/> LT01	17,000 K	N/A	0 K	CF2, CF4	N/A	⋮
<input type="checkbox"/> CACHE1	80 M	N/A	0 M	CF2	N/A	⋮
<input type="checkbox"/> CACHE2	65 M	N/A	0 M	CF5, CF3	LT01, CACHE2	⋮
<input type="checkbox"/> THRLSTMA	72,000 K	50,000 K	0 K	CF1, CF3, CF2	CACHE1, CACHE2	⋮
<input type="checkbox"/> THRZ	85 M	N/A	0 M	C7, CF1	N/A	⋮
<input type="checkbox"/> THRZA	95 M	N/A	0 M	C7, CF1	N/A	⋮

Close

Submit

CF Structures

Coupling Facilities

Search

Filter

Add

Filter

Column: Name

Condition: Contains

Value: PREF

User defines one filter

Column: Choose a column

Condition: Choose an option

Value:

More filters

Clear

Apply

<input type="checkbox"/> Structure Name ↑	Maximum Size	Initial Size	Minimum Size	Preference List	Exclusion List	
<input type="checkbox"/> LT01	17,000 K	N/A	0 K	CF2, CF4	N/A	⋮
<input type="checkbox"/> CACHE1	80 M	N/A	0 M	CF2	N/A	⋮
<input type="checkbox"/> CACHE2	65 M	N/A	0 M	CF5, CF3	LT01, CACHE2	⋮
<input type="checkbox"/> THRLSTMA	72,000 K	50,000 K	0 K	CF1, CF3, CF2	CACHE1, CACHE2	⋮

Close

Submit

CF Structures

Coupling Facilities

Search

Filter

Add

Name Contains "PREF" ×

Clear filters

<input type="checkbox"/> Structure Name ↑	Maximum Size	Initial Size	Minimum Size	Preference List	Exclusion List	
<input type="checkbox"/> CACHE1	80 M	N/A	0 M	CF2	N/A	⋮
<input type="checkbox"/> CACHE2	65 M	N/A	0 M	CF5, CF3	LT01, CACHE2	⋮

CF Structures

Coupling Facilities

Search

Filter

Add

Delete

Modify

Cancel

Name Contains "PREF" ×

Clear filters

<input type="checkbox"/> Structure Name ↑	Maximum Size	Initial Size	Minimum Size	Preference List	Exclusion List	
<input checked="" type="checkbox"/> CACHE1	80 M	N/A	0 M	CF2	N/A	⋮
<input checked="" type="checkbox"/> CACHE2	65 M	N/A	0 M	CF5, CF3	LT01, CACHE2	⋮

Usage & Invocation (6)

- Structure supports bulk editing – users could update absolute value or relative value

Modify Multiple CF Structures

Modify Mode ⓘ **Absolute** Relative

Input fields that you enter values for will be applied for all the CF structures selected to modify. Fields that are left empty will not be modified.

Maximum size ⌵ M ⌵	Initial size ⌵ M ⌵	Minimum size ⌵ M ⌵	Duplexing options ⌵
Duplexing site ⌵	Duplexing mode ⌵	Allow automatic alter ⌵	Full threshold percentage ⌵
Encrypt ⌵	Rebuild threshold percentage ⌵	Recovery priority ⌵	Maximum SCM size ⌵
SCM algorithm ⌵	Enforce CF order ⌵	Allow reallocate ⌵	Sublist notification delay interval (μs) ⌵
List notification delay interval (μs) ⌵	Key range notification delay interval (μs) ⌵		

Selected CF Structures to Modify

CACHE1
CACHE2

Cancel OK

Modify Multiple CF Structures

Modify Mode ⓘ Absolute **Relative**

Input fields that you enter a value for will increase or decrease by the specified percentage and will be applied for all the CF structures selected to modify. Fields that are left empty will not be modified.

☐ Modify all four input fields by a single specified percentage: 0 ⌵ %

Maximum size 0 ⌵ %	Initial size 0 ⌵ %
Minimum size 0 ⌵ %	Maximum SCM size 0 ⌵ %

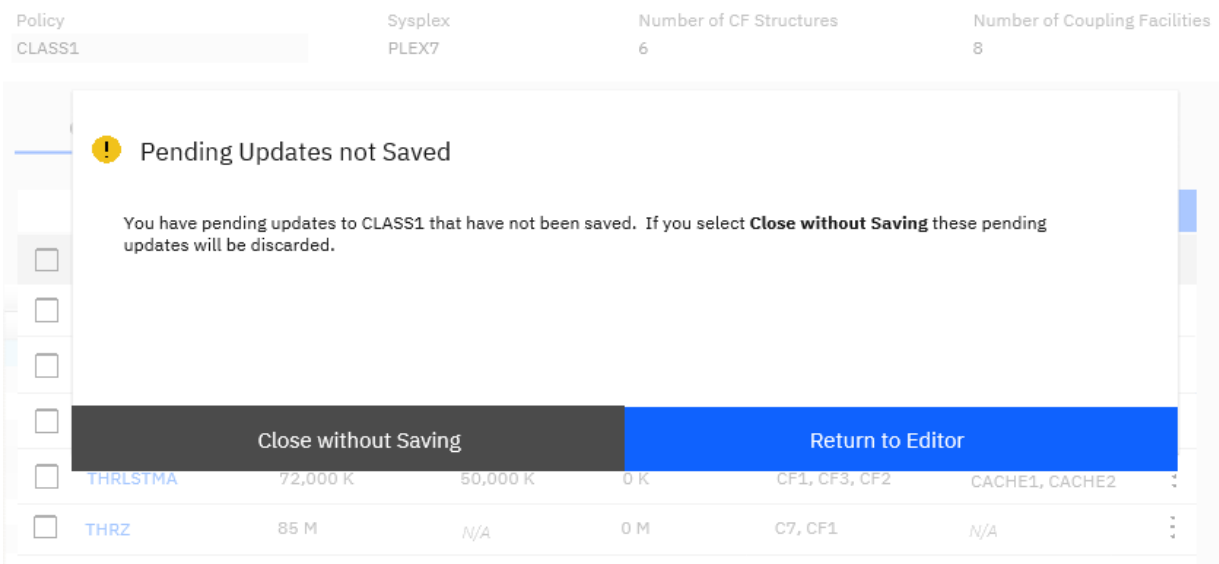
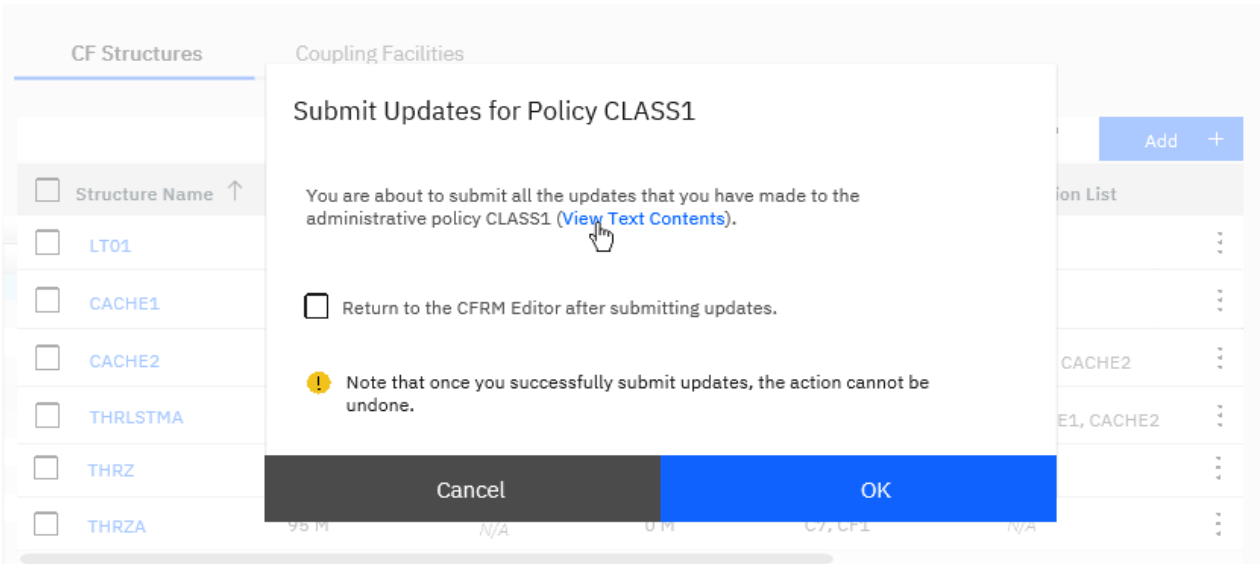
Selected CF Structures to Modify

CACHE1
CACHE2

Cancel OK

Usage & Invocation (7)

- Users need to click Submit button to make the update to effective
- There will be a reminder if users update the policy but did not Submit it before close editor



Interactions & Dependencies

- Software Dependencies
 - z/OS Sysplex
- Hardware Dependencies
 - None
- Exploiters
 - None

Upgrade & Coexistence Considerations

- To exploit this solution, all systems in the Sysplex 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

- List anything that a client needs to be aware of during installation and include **examples** where appropriate - clients appreciate these:
 - Are any APARs or PTFs needed for enablement?
No additional APARs needed on V2R5.
 - What jobs need to be run? N/A
 - What hardware configuration is required? N/A
 - What PARMLIB statements or members are needed? N/A
 - Are any other system programmer procedures required? N/A
 - Are there any planning considerations? N/A
 - Are any special web deliverables needed? N/A
 - Does installation change any system defaults? N/A

Summary

- The following z/OS V2R5 Sysplex CFRM policy editor item has been explained:
 - Sysplex CFRM policy editor

Appendix

- To reference how to configure z/OSMF Sysplex Management service, please refer to z/OSMF Configuration Guide