z/OS V1R13

DFSMS DADSM dynamic exits for DADSM pre-and-post processing

Overview

- In z/OS DFSMSdfp V1R13, DADSM's installation-replaceable pre- and post-processing modules IGGPRE00 and IGGPOST0 are dynamically replaceable without IPLing and **multiple** pre- and/or post- exits are supported. All DADSM functions (create, extend, rename, partial release, and scratch) support dynamic exits
- Problem Statement / Needs Addressed
  - Satisfies MR1207046307, MR0328072150, SSMVSS07008, and partial implementation of MR0220035354
- Solution: DADSM now uses the BCP CSVDYNEX service to connect and then call the pre- and post-processing exits
- Benefit / Value
  - Customers can replace, add, or remove pre- and post-processing exit routines without re-IPLing.

Usage and invocation

- The existing IGGPRE00 and IGGPOST0 installation exits are automatically called by DADSM as exit routines with the new pre-processing and post-processing dynamic exits
- As with all dynamic exits, there are three ways to connect a pre- or post-processing exit:
  - An authorized program calls the CSVDYNEX macro to associate an exit with IGGPRE00_EXIT or IGGPOST0_EXIT
  - The SETPROG EXIT operator command:
    SETPROG EXIT,ADD,EXITNAME=IGGPRE00_EXIT,MODNAME=IGGPRE01
    SETPROG EXIT,ADD,EXITNAME=IGGPOST0_EXIT,MODNAME=IGGPOST5
    (This adds, for example, module IGGPRE01 as a pre-exit and IGGPOST5 as a post-exit)
- The EXIT statement of a PROGxx PARMLIB member:
  EXIT ADD EXITNAME(IGGPRE00_EXIT) MODNAME(IGGPRE01)

Interactions and dependencies

- Once a pre-processing and/or post-processing exit has been connected to DADSM, that exit can be removed (disconnected) via the SETPROG EXIT,DELETE operator command or replaced via the SETPROG EXIT,REPLACE command.
- DADSM takes action according to the highest return code from any of the exits for IGGPRE00_EXIT:
  - 0. Continue
  - 4. Reject the request on the current volume but DADSM can try another volume.
  - 8. Reject the request and do not try another volume.
- The IGGPOST0_EXIT exit has no return code.

Migration and coexistence considerations

- You can now have multiple exit routines associated with each of the IGGPRE00_EXIT and IGGPOST0_EXIT dynamic exits for the DADSM pre- and post-processing exits. The system calls them in an unpredictable order.
- Words in the CVAF table continue to contain the addresses of IGGPRE00 and IGGPOST0; however, DADSM no longer uses these fields to call pre- and post-processing exits.
- DADSM issues a new message if a dynamic exit ABENDs; also note that an ABENDed dynamic exit is automatically disabled and will not be called again unless reactivated:
  - IEC615I ABEND=xxxxxx-yyyyyyyy OCCURRED IN THE yyyyyyyy EXIT MODULE FOR DYNAMIC EXIT zzzzzzzzzzzzzzzz')
- DADSM issues a new message if it receives an unexpected return code from the CSVDYNEX service:
  - IEC616I NON ZERO RETURN CODE FROM CSVDYNEX xxxxxxxx RC = xxxx RSN = xxxx, DYNAMIC EXIT = zzzzzzzzzzzzzzzz')

Installation

- If you use the IGGPRE00 and/or IGGPOST0 exit(s), you do not need to change them in any way, but, rather, install them as you always have. You do not need to change the load module names for IGGPRE00 nor IGGPOST0, but you **can** change their name(s). If you do change their name(s), you will need to create or update a PROGxx PARMLIB member or issue the SETPROG EXIT command to activate these changed name(s)
- To use multiple exits for a pre- and/or post-processing function, issue the SETPROG EXIT,ADD command or use the PROGxx PARMLIB member to specify the load module names to be associated with each of the IGGPRE00_EXIT or IGGPOST0_EXIT dynamic exits.

Appendix - References

- *z/OS DFSMS Installation Exits,* SC26-7396, will be updated to describe DADSM dynamic pre-processing and post-processing exits
- *z/OS MVS Programming: Authorized Assembler Services Guide,* SA22-7608, for information about the CSVDYNEX service
- *z/OS MVS Initialization and Tuning Reference,* SA22-7592, for information about the PROGxx PARMLIB member
- *z/OS MVS System Commands,* SA22-7627, for information about the D PROG,SETPROG EXIT and SET PROG=xx commands