

z/OS V1R13

DFSMS catalog: Alias number constraint relief

Overview

- Aliases for a user catalog are defined in the master catalog.
- Most catalog entries are in “user catalogs”, not the master catalog.
- Number of aliases a user catalog connector can have is currently limited by the maximum record size for the master catalog.
 - Default of the maximum record size: 32768 bytes (32 KB)
 - Catalog records are limited to 32768 byte (32 KB) record size.
 - User catalog connectors are catalog records.
- Problem Statement / Need Addressed
 - Currently, only approximately 3500 catalog aliases are allowed per user catalog.
- Solution
 - Introduce a new extension record type ‘V’ for user catalog connectors.
 - The maximum number of user catalog connector extension records is 255.
- Benefit / Value
 - Allow users to define more aliases per user catalog
 - Theoretically, limit is over 500,000 aliases per user catalog.

Usage and invocation

- Ship the line item with a switch to help customers migrate to V1R13.
 - Function default as disabled
 - IBM recommends customers turn on the switch when all the systems in a sysplex are V1R13
- The switch can be turned ON/OFF via catalog Modify Commands:
 - F CATALOG,ENABLE(EXTENDEDALIAS)
 - F CATALOG,DISABLE(EXTENDEDALIAS)
- The switch can also be turned ON/OFF via a catalog PARMLIB member IGGCATxx in SYS1.PARMLIB by specifying:
 - EXTENDEDALIAS(YES/NO)

Interactions and dependencies

- No interactions
- Software Dependencies - None
- Hardware Dependencies - None
- Exploiters - The exploiter of this new function is the catalog administrator who defines catalog aliases

Migration and coexistence considerations

- Toleration/Coexistence APARs/PTFs for prior releases:
 - For Catalog: OA33517
 - For IDCAMS: OA34486
- Allows access to aliases in user catalog extension records.
- Allows deletion of aliases in user catalog extension records.
- Allows IMPORT of V1R13 portable data sets with the current limit alias number.
- However, this coexistence PTFs will not allow deletion of user catalog connectors if user connectors have extension records by:
 - Export Disconnect
 - Delete UserCatalog Recovery
 - Delete UserCatalog Force
- Will not allow users to define more aliases if a user catalog connector has extension records.

Installation

- None

Session summary

- This support lets users define over 500,000 aliases per catalog.
- IBM recommends customers turn on the feature when all the systems in a sysplex are V1R13 or higher.

Appendix - References

- Publication references:
 - *z/OS DFSMS Managing Catalogs*, SC26-7409
 - *z/OS MVS System Messages Volume 6 (GOS – IEA)*, SA22-7636 for IDC3009I
 - *z/OS MVS System Messages Volume 7 (IEB – IEE)*, SA22-7637 for IEC359I