

IBM Education Assistance for z/OS V2R1

Item: IFASEXIT Smart EndPoint
Element/Component: BCP SMF



Agenda

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Trademarks

- See url <http://www.ibm.com/legal/copytrade.shtml> for a list of trademarks.



Presentation Objectives

- Understand the new function for IFASEXIT (SMF Log Stream Exit Routine)
 - SmartEndPoint Support



Overview

Problem Statement / Need Addressed

- **Currently IFASEXIT will always read until the end of the logstream regardless of the specified end date and time.**

▪ Solution

- **Provide a new option to prevent IFASEXIT from reading the entire logstream before it completes processing.**

▪ Benefit / Value

- **Depending on the configuration, this can greatly reduce the duration and processing of IFASEXIT jobs.**



Usage & Invocation (1 of 4)

- This support has a new option for the general “second parameter” that SMF is responsible for interpreting, SMEP(hhmm).
- The SMEP(hhmm) option specifies a value between 0000 and 0200 (2 hrs) that will control the SmartEndPoint processing.
 - The default behavior is that IFASEXIT reads records all the way to the end of the logstream before completing, as it has always done.
 - Further guidance is available in the MVS System Management Facilities (SMF) Manual



Usage & Invocation (2 of 4)

- SmartEndPoint processing uses the following rules to find the logical end point in the logstream
 - The SmartEndPoint value is calculated by adding the SMEP value to the specified end time.
 - For each SID (System ID) specified, a table entry is created and marked complete when the SID has hit the SmartEndPoint time.
 - SID(nnnn) can be specified for specific System ID or if SID is not specified a table entry will be created for all SIDs encountered.
 - Once all the SIDs are accounted for, reading of the logstream ends.



Usage & Invocation (3 of 4)

▪ SMEP(hhmm) example, explanation in notes:

```
//SMJEXA25 JOB  MSGLEVEL=(1,1),REGION=0M,CLASS=A
//*****
//* Run IFASEXIT Testcase - SMEP(0200) w/ SID(SY1)
//*****
//SMFDMP1 EXEC PGM=IEBGENER
//SYSUT1 DD DSN=IFASMF.SMFPERM.STREAM1,
//          LRECL=32756,RECFM=VB,
//          BLKSIZE=32760,
//SUBSYS=(LOGR,IFASEXIT,'FROM=(2007/001,00:00),
//          TO=(2007/182,12:00)', 'SID(SY1),SMEP(0200)')
//SYSUT2 DD DSN=MGJUTT.SMJEXA25.OUTPUT,
//          UNIT=SYSALLDA,VOL=SER=D72CT1,
//          DISP=(NEW,PASS),
//          LRECL=32756,RECFM=VB,
//          BLKSIZE=32760,
//          SPACE=(CYL,(1,1),RLSE)
//SYSIN DD DUMMY
//SYSPRINT DD SYSOUT=A
//*****
//* Print to the output dataset
//*****
//PRINT1 EXEC PGM=IDCAMS,REGION=4096K
//SMFDS DD DSN=MGJUTT.SMJEXA25.OUTPUT,DISP=SHR
//SYSPRINT DD SYSOUT=*
//SYSUDUMP DD DUMMY
//SYSIN DD *
//          PRINT INFILE(SMFDS)
/*
```



Usage & Invocation (4 of 4)

- New message inserts have been created for IFA192I for when SUBSYS options have failed validation while processing IFASEXIT syntax checking:
 - IFA192I SUBSYS OPTIONS FAILED VALIDATION -
 - ONLY NUMERIC CHARACTERS ARE ALLOW FOR SMEP.
 - SMEP PARAMETER IS OUT OF THE VALID RANGE.
 - SMEP PARAMETER MUST BE IN THE CORRECT FORMAT – SMEP(HHMM).
 - ONLY ONE SID CAN BE SPECIFIED.



Migration & Coexistence Considerations

- Toleration APAR OA37604 can be installed on pre z/OS V2R1 systems to allow the SMEP(hhmm) keyword to be tolerated on lower release systems:
 - A lower-level system without OA37604 installed will fail IFASEXIT jobs that contain the SMEP(hhmm) keyword.
 - A lower-level system with OA37604 installed will allow the SMEP(hhmm) keyword, but will not process the SmartEndPoint function. SMEP(hhmm) keyword will be ignored.



Installation

- This support is in the base of z/OS V2R1.
- Toleration support will be available with APAR OA37604.



Presentation Summary

- The SmartEndPoint (SMEP(hhmm)) option can improve the performance of IFASEXIT by controlling how much data is read from the logstream.



Appendix

▪ *Related Publications:*

– *z/OS V2R1 MVS System Management Facilities (SMF) (SA22-7630)*

- Using SMF log streams
- Obtaining Records from SMF log streams

– *z/OS V2R1 MVS System Messages, Vol 8 (IEF-IGD) (SA22-7638)*

- IFA Messages

