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**Prerequisite Newsletters/
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MVS/Extended Architecture SPL: System Management Facilities (SMF)

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MVS/System Product - JES3, Program No. 5665-291
MVS/System Product - JES2, Program No. 5740-XC6

This Technical Newsletter contains information for use with *MVS/XA SPL: System Management Facilities (SMF)*.

This Technical Newsletter **does not contain** replacement pages for the base publication. Use the information in this Technical Newsletter as supplementary information to that contained in the base publication. The information in this Technical Newsletter remains in effect until incorporated into a subsequent version of the base publication.

Summary of Amendments

- This Technical Newsletter updates record type 59 - MVS/BDT File-to-File Transmission Record.
- The information in this Technical Newsletter supports the BDT/Version 2, 5665-264.
- Use the information in this Technical Newsletter **only if** you install BDT/Version 2.

To aid retrievability of the information in this Technical Newsletter, we suggest that you place the Newsletter (along with this cover letter) directly following "record type 59" in the base publication.

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Record Type 59 (3B) – MVS/BDT File-to-File Transmission Record

Record type 59 is written by BDTACMN when MVS/Bulk Data Transfer (MVS/BDT) completes a file-to-file transmission and when BDT sends a network job entry (NJE) job or SYSOUT stream. MVS/BDT writes the record from the global node where the transaction is queued. MVS/BDT produces a record type 59 whether or not the transmission successfully completes.

The record contains sections for MVS/BDT product information, transaction identification, file-to-file (FTF) and network job entry (NJE) information (transaction type section), transaction data, transaction accounting information (which is optional), and transmission information. There are two 40-byte fields for user information at SMF59US1 (transaction data section) and SMF59US2 (transmission data section).

The SMF record mapping macro for record type 59 is IFASMFR. IFASMFR uses BDTDSMF, and MVS/BDT macro instructions, to generate the mapping. If you want record type 59 mapping, make sure that both IFASMFR and BDTDSMF reside on the same macro library. BDTDSMF is written in assembler language and is supplied on SYS1.AMODGEN.

The length of record type 59 is 548 bytes plus the length of the transaction accounting section if included. (The transaction accounting section is optional.)

MVS/BDT invokes the optional BDT user exit BDTUX24 prior to writing the record.

The format is:

Offsets		Name	Length	Format	Source	Description
0	0	SMF59LEN	2	binary	internal	Record length
2	2	SMF59SEG	2	binary	internal	Segment descriptor
4	4	SMF59FLG	1	binary	SVC 83	System indicator <i>Bit Meaning when set</i> 0 Subsystem name follows system identification 1-4 Reserved 5 MVS/XA 6 OS/VS2 7 Reserved
5	5	SMF59RTY	1	binary	internal	Record type 59 (X'3B')
6	6	SMF59TME	4	binary	SVC 83	Time, in hundredths of a second, record was written by SMF.
10	A	SMF59DTE	4	packed	SVC 83	Data record was written by SMF buffer, in the form 00yydddF where F is the sign.
14	E	SMF59SID	4	EBCDIC	SVC 83	System identification (taken from SID parameter)
18	12	SMF59SSI	4	EBCDIC	internal	Subsystem identification ('BDT')
22	16	SMF59VER	2	EBCDIC	internal	Version number
24	18	SMF59OPD	4	binary	internal	Offset to MVS/BDT product section
28	1C	SMF59LPD	2	binary	internal	Length of MVS/BDT product section
30	1E	SMF59NPD	2	binary	internal	Number of MVS/BDT product sections

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Offsets		Name	Length	Format	Source	Description
32	20	SMF59OTI	4	binary	internal	Offset to transaction identifier section
36	24	SMF59LTI	2	binary	internal	Length of transaction identifier section
38	26	SMF59NTI	2	binary	internal	Number of transaction identifier sections
40	28	SMF59OTT	4	binary	internal	Offset to transaction type section
44	2C	SMF59LTT	2	binary	internal	Length of transaction type section
46	2E	SMF59NTT	2	binary	internal	Number of transaction type sections
48	30	SMF59OTD	4	binary	internal	Offset to transaction data section
52	34	SMF59LTD	2	binary	internal	Length of transaction data section
54	36	SMF59NTD	2	binary	internal	Number of transaction data sections
56	38	SFM59OTS	4	binary	internal	Offset to transmission section
60	3C	SMF59LTS	2	binary	internal	Length of transmission section
62	3E	SMF59NTS	2	binary	internal	Number of transmission sections
64	40	SMF59OTA	4	binary	internal	Offset to transaction accounting section (an optional section)
68	44	SMF59LTA	2	binary	internal	Length of transaction accounting section (an optional section)
70	46	SMF59NTA	2	binary	internal	Number of transaction accounting sections (an optional section)
MVS/BDT Product Section:						
+0	+0	SMF59RCD	2	EBCDIC	internal	MVS/BDT version number ('01')
+2	+2	SMF59BDT	8	EBCDIC	internal	Product name 'MVS-BDT'
+10	+A	SMF59SSN	8	EBCDIC	TVTSYSID	MVS/BDT node name
+18	+12	SMF59TID	2	EBCDIC	internal	Transaction type identifier – "FF" for FTF, 'NJ' for NJE
Transaction Identifier Section:						
+0	+0	SMF59TNU	4	EBCDIC	JCTJOB	MVS/BDT job number
+4	+4	SMF59TI1	8			Reserved
+12	+C	SMF59TI2	8			Reserved
+20	+14	SMF59TQS	8	EBCDIC	TVTSYSID	MVS/BDT transaction queuing node
+28	+1C	SMF59TI3	8			Reserved
+36	+24	SMF59TSP	8	EBCDIC	MDJXBSN	Transaction source processor name
+44	+2C	SMF59TSS	8	EBCDIC	MJD XBSI	MVS/BDT transaction source node
+52	+34	SMF59TUT	2	EBCDIC	MJDXTYP	Transaction source userid type: 'J3' – JES3 (for NJE) 'T' – TSO user 'J' – JES console 'B' – Batch job 'M' – MCS console
+54	+36	SMF59TI5	2			Reserved
+56	+38	SMF59TSU	8	EBCDIC	Internal MJDUSID MJDCNDD MJDBJNM MJDMCSI	Transaction source userid Blank for NJE TSO userid JES console DD name Batch job name MCS console identifier
Transaction Type Section for FTF:						
+0	+0	SMF59ONN	8	EBCDIC	MJDFRLOC	MVS/BDT origin node name
+8	+8	SMF59OFN	44	EBCDIC	MJD text unit	Origin file name if specified in transaction
+52	+34	SMF59OMN	8	EBCDIC	MJD text unit	PDS member name of origin file if specified in SEQ transaction
+60	+3C	SMF59OVI	6	EBCDIC	MJD text unit	First volume serial number for origin file if specified in transaction
+66	+42	SMF59OFG	1	EBCDIC	internal	Origin file flag: 'D' – DUMMY specified
+67	+43	SMF59TT1	3			Reserved

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Offsets		Name	Length	Format	Source	Description
+70	+46	SMF59DNN	8	EBCDIC	MJDTOLOC	MVS/BDT destination node name
+78	+4E	SMF59DFN	44	EBCDIC	MJD text unit	Destination file name if specified in transaction
+122	+7A	SMF59DMN	8	EBCDIC	MJD text unit	PDS member name of destination file is specified in SEQ transaction
+130	+82	SMF59DVI	6	ENCDIC	MJD text unit	First volume serial number for destination file is specified in transaction
+136	+88	SMF59DFG	1	EBCDIC	internal	Destination file flag: 'D' – DUMMY specified – INTRDR specified
+137	+89	SMF59TT2	3			Reserved
Transaction Type Section for NJE:						
0	0	SMF59NJT	2	EBCDIC	MJD59NJT	Job type: JB – data is a job stream OP – data is a complete SYSOUT
2	2	SMF59NUM	2	binary	MJD59NUM	Original job number (NJHGJID)
4	4	SMF59NR1	2	binary		Reserved
6	6	SMF59NAN	8	EBCDIC	MJD59NAN	Network account number (NJHGACCT)
14	E	SMF59NAM	8	EBCDIC	MJD59NAM	Original job name (NJHGJNAM)
22	16	SMF59JID	8	EBCDIC	MJDJESNR	JES3 job ID
30	1E	SMF59NUI	8	EBCDIC	MJD59NUI	Notify user id (NJHGUSID)
38	26	SMF59NDT	8	binary	MJD59NDT	Job entry date/time stamp on origin node (NJHGSETS)
46	2E	SMF59XQN	8	EBCDIC	MJD59XQN	Execution node name (NJHGEXQN)
54	36	SMF59XQU	8	EBCDIC	MJD59XQU	Execution user id (NJHGXEQU)
62	3E	SMF59NPN	20	EBCDIC	MJD59NPN	Programmer's name (NJHGPRGN)
82	52	SMF59NPR	8	EBCDIC	MJD59NPR	Programmer's room number (NJHGDEPT)
90	5A	SMF59NP#	8	EBCDIC	MJD59NPD	Programmer's department number (NJHGDEPT)
98	62	SMF59NPB	8	EBCDIC	MJD59NPB	Programmer's building number (NJHFBLDG)
106	6A	SMF59NR2	8			Reserved
114	72	SMF59NR3	8			Reserved
Transaction Data Section:						
+0	+0	SMF59TTQ	4	binary	MJDJST	Time, in hundredths of a second, transaction was queued (GMT)
+4	+4	SMF59DTQ	4	packed	MJDJSD	Date transaction was queued, in the form 00YYDDDF, where F is the sign (GMT)
+8	+8	SMF59TTC	4	binary	internal	Time, in hundredths of a second, transaction was completed (GMT)
+12	+C	SMF59DTC	4	packed	internal	Date transaction was completed, in the form 00YYDDDF, where F is the sign (GMT)
+16	+10	SMF59BJN	8	EBCDIC	MJDJOBNM	MVS/BDT job name
+24	+18	SMF59PNM	20	EBCDIC	MJD text unit	Programmer name
+44	+2C	SMF59TPR	2	EBCDIC	MJDXPRTY	Transaction priority
+46	+2E	SMF59TCM	2	EBCDIC	internal	Transaction completion code: '00' – normal '04' – operator cancelled '08' – abnormal
+48	+30	SMF59BTC	8	EBCDIC	MJDPCODE	MVS/BDT transaction code X'51' – NJE transaction Q – self-defining transaction GMJD member name
+56	+38	SMF59TD1	4			Reserved
+60	+3C	SMF59BCT	8	binary	MJDBYTES	Number of bytes transferred
+68	+44	SMF59US1	40	EBCDIC		User area (initialized with blanks)

Offsets		Name	Length	Format	Source	Description
Transmission Section:						
+0	+0	SMF59X01	8			Reserved
+8	+8	SMF59X02	8			Reserved
+16	+10	SMF59SNN	8	EBCDIC	MJDFRLOC	MVS/BDT sender node
+24	+18	SMF59X03	8			Reserved
+32	+20	SMF59X04	8			Reserved
+40	+28	SMF59X05	8			Reserved
+48	+30	SMF59RCN	8	EBCDIC	MJDTOLOC	MVS/BDT receiver node
+56	+38	SMF59X06	8			Reserved
+64	+40	SMF59XST	4	binary	MJDXST	Time, in hundredths of a second, transmission started (GMT)
+68	+44	SMF59XSD	4	packed	MJDXSD	Date transmission started, in the form 00YYDDDF, where F is the sign (GMT)
+72	+48	SMF59XPT	4	binary	MJDXPT	Time, in hundredths of a second, transmission stopped (GMT)
+76	+4C	SMF59XPD	4	packed	MJDXPD	Date transmission stopped, in the for 00YYDDDF, where F is the sign (GMT)
+80	+50	SMF59X08	8			Reserved
+88	+58	SMF59X09	4			Reserved
+92	+5C	SMF59XOC	5	EBCDIC	SEFRCOMP (JCT)	Transmission origin completion code
+97	+61	SMF59XDC	5	EBCDIC	SETOCOMP (JCT)	Transmission destination completion code
+102	+66	SMF59X10	2			Reserved
+104	+68	SMF59US2	40	EBCDIC		User area (initialized with blanks)
Transaction Accounting Section: (This section is optional.)						
+0	+0	SMF59ACT	variable	EBCDIC	MJD text unit	User accounting data from ACCT parameter