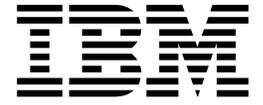


File Manager for z/OS V11R1



Addenda to File Manager V11R1 documentation

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About this document

This document provides details of all the APAR service fixes that impact upon documentation, for IBM File Manager for z/OS Version 11.1, since the most recent edition of the product manuals. These editions are:

- Customization Guide (SC19-3133-03) - Fourth Edition
- User's Guide and Reference (SC19-3134-02) - Third Edition
- User's Guide and Reference for DB2 Data (SC19-3135-01) - Second Edition
- User's Guide and Reference for IMS Data (SC19-3136-01) - Second Edition
- User's Guide and Reference for CICS (SC19-3137-01) - Second Edition

The Addendum document is divided into two parts:

- **Part One: PTF/APAR documentation changes**

This section lists the changes to the File Manager for z/OS Version 11 Release 1 documentation that are required to reflect new behavior resulting from the application of APAR fixes.

The fixes are listed by PTF number, in reverse date order, so that the most recently released fix appears at the beginning of the document. Each description shows:

- The set of PTF numbers in the release
- The date of the PTF release
- The APARs included in the released fix
- Details of those APAR changes that affect documentation
- Page references for the manuals affected by the change

Notes:

1. This document does NOT describe those APAR fixes that do not have an impact upon documentation.
2. The enhancements and corrections described in this section are only available after applying the listed PTFs for the APAR.

- **General documentation changes**

This section describes enhancements, corrections and updates in the documentation for File Manager for z/OS Version 11 Release 1. These changes are not associated with PTF numbers, as they do not require the application of any code updates.

The changes are grouped by manual and listed within each section in reverse date order. That is, the most recent documentation change appears at the beginning of each manual section.

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PI49935

Release Date: 24 February 2016

This doc APAR contains the following fix:

APAR #	APAR Abstract	Doc Impact
PI49935	There is an undocumented limitation on the concatenation of unlike data sets.	File Manager for z/OS V11R1 User's Guide and Reference (SC19-3134-02)

Initial problem description

The File Manager for z/OS Users Guide and Reference does not document the limitation of not being able to concatenate unlike data sets on the DDNAME specified on the INPUT=ddname FCH parameter.

Outline of solution

Update the documentation.

Documentation impact

This APAR changes:

- User's Guide and Reference (SC19-3134-02)

Changes to the User's Guide and Reference

Chapter 16, "Functions"

In the section "FCH (Find/Change)" *add* this note to the description of the INPUT=ddname option (page 1048):

Note: You should not concatenate unlike data sets (that is, FB and VB data sets) on the INPUT ddname as this could result in File Manager getting errors attempting to read the data set/members.

UI34540, UI34541, UI34542, UI34543, UI34544, UI34545, UI34546, UI34547, UI34548

Release Date: 29 January 2016

This set of PTFs contains these APAR fixes:

- PI45963

PI45963

This APAR contains the following fix:

APAR #	APAR Abstract	Doc Impact
PI45963	There is a security vulnerability in File Manager.	File Manager for z/OS V11R1 Customization Guide (SC19-3133-03)

Initial problem description

There is a security vulnerability when File Manager batch jobs write audit records to SMF.

Outline of solution

File Manager reverts to the original method of writing audit records to SMF, which removes the vulnerability.

Documentation impact

This APAR changes:

- Customization Guide (SC19-3133-03)

Changes to the Customization Guide (SC19-3133-03)

Remove the changes set out in PM64372 (UK79407). This returns the Customization Guide to its original text.

UI30040, UI30041, UI30042

Release Date: 11 August 2015

This set of PTFs contains these APAR fixes:

- PI40866

PI40866

This doc APAR contains the following fix:

APAR #	APAR Abstract	Doc Impact
PI40866	Problems arise when using an auxiliary edit MODEL dataset (Option 0.8) in a non-SMS managed data set environment.	File Manager for z/OS V11R1 User's Guide and Reference (SC19-3134-02)

Initial problem description

These problems relate to using an auxiliary edit MODEL dataset (Option 0.8) in a non-SMS managed data set environment.

1. If a Variable length data set is edited using a RRDS MODEL, then message Error creating aux file is produced along with IDCAMS error: IDC3506I A REQUIRED VOLUME LIST HAS BEEN OMITTED
2. If a Fixed length data set is edited using a VRRDS model then the resulting Auxiliary dataset is incorrectly defined and editing cannot continue. The Save PF3 key is ineffective and the edit session must be cancelled.

Outline of solution

File Manager has been updated to:

- Force the use of an RRDS MODEL when editing a fixed length data set.
- Force the use of a VRRDS MODEL when editing a variable length data set.

You can provide both RRDS and VRRDS models by specifying a model data set name that does not exist and represents a prefix for the data set name that will be used.

The model data set that File Manager will use will be the name you provided suffixed with '.RRDS' for fixed and '.VRRDS' for variable length records.

Documentation impact

This APAR changes:

- User's Guide and Reference (SC19-3134-02)

Changes to the User's Guide and Reference

Chapter 14, "Panels and fields"

Add to the two fields described, in Set Temporary Data Set Allocation Options panel (page 661).

In Model Data Set Name, *add* this text after the current text:

It should be defined as a RRDS or VRRDS depending on the attributes of the data set being edited.

You can provide both RRDS and VRRDS models by specifying a model data set name that does not exist and represents a prefix for the data set name that will be used. The model data set that File Manager will use will be the name you provided suffixed with '.RRDS' for fixed and '.VRRDS' for variable length records.

In Auxiliary Data Set Name, *add* this text after the current text:

It should be defined as a RRDS or VRRDS depending on the attributes of the data set being edited.

You can provide both RRDS and VRRDS data sets by specifying a data set name that does not exist and represents a prefix for the data set name that will be used. The auxiliary data set that File Manager will use will be the name you provided suffixed with '.RRDS' for fixed and '.VRRDS' for variable length records.

UI13055, UI13056, UI13057, UI13058, UI13059, UI13060, UI13061

Release Date: 29 November 2013

This set of PTFs contains these APAR fixes:

- PM98267
- PM99714

PM98267

This doc APAR contains the following fix:

APAR #	APAR Abstract	Doc Impact
PM98267	When using FM/DB2 and editing a VARCHAR field to change a value in the middle of the field, trailing spaces are truncated.	File Manager for z/OS V11R1 User's Guide and Reference for DB2 Data (SC19-3135-01)

Initial problem description

In the File Manager DB2 component editor, trailing spaces at the end of a VARCHAR field are removed even when the "Remove trailing spaces" editor option is not selected.

Outline of solution

File Manager DB2 component has been changed to correct the problem. This APAR provides a small enhancement to the FM/DB2 editor. The enhancement adds a new editor option that disables the processing associated with the "input string delimiter" for VARCHAR fields.

Documentation impact

This APAR changes:

- User's Guide and Reference for DB2 Data (SC19-3135-01)

Changes to the User's Guide and Reference for DB2 Data

Chapter 15, "FM/DB2 panels and fields"

Update the Editor Options (5/7) panel (page 587). The four options in the Varying Length Columns: section of the panel are re-arranged and a new option is added:

```
/ Disable input delimiter          Input . . . . . #  
/ Show end of string              Display . . . . . <  
/ Remove trailing spaces
```

Add a new option description:

Disable input delimiter

This option is used to disable processing for the Input string delimiter. By default this option is not selected. When a change is made to a varying field, FM/DB2 scans the entire varying field from left to right, looking for the first occurrence of the Input string delimiter character. If an occurrence is found, the field is truncated at the character before the location of the Input string delimiter.

Consider disabling the Input string delimiter when:

- The DB2 object being processed contains VARCHAR fields that cannot be displayed in full, without scrolling. In this situation a change to the field may trigger silent truncation when the input string delimiter is present in a part of the field that is not currently visible on the display.
- A VARCHAR field is used to store data other than readable text, for example binary data, or data that has an internal format. In this situation the data may contain a character that matches the input string delimiter character, leading to unwanted truncation if the data in that field is changed.

PM99714

This doc APAR contains the following fix:

APAR #	APAR Abstract	Doc Impact
PM99714	Values specified for SHOWSQL on FM/DB2 option 0.0.9 are not honored once the SQL command is entered on Table View panel.	File Manager for z/OS V11R1 User's Guide and Reference for DB2 Data (SC19-3135-01)

Initial problem description

In File Manager DB2 component, the data set allocation values shown on the "Set Output Data Set Allocation Options" panel are not honored.

Outline of solution

File Manager DB2 component has been updated to correct the problem.

Documentation impact

This APAR changes:

- User's Guide and Reference for DB2 Data (SC19-3135-01)

Changes to the User's Guide and Reference for DB2 Data

Chapter 15, "FM/DB2 panels and fields"

Update the screen capture for the "Set Output Data Set Allocation Options panel" (page 731) to include fields for the Trace data set. Add the following text immediately before the "Space Units" heading:

File Manager DB2 may allocate data sets, depending on function. The allocation attributes for Audit Log, Print, Trace and SHOWSQL (used to display SQL) can be specified here. The Audit Log, Print and Trace data sets are always permanent (catalogued) data sets. SHOWSQL data sets may be either temporary or permanent. Temporary data sets have a high level qualifier like SYSxxxxx and are deleted automatically when the FM/DB2 function ends.

Any allocation values specified on this panel might be changed by SMS as part of the allocation process, and temporary data sets might be allocated to VIO, depending on SMS and other system settings.

PM93285

Release Date: 4 September 2013

This doc APAR contains the following fix:

APAR #	APAR Abstract	Doc Impact
PM93285	File Manager additional documentation required when using logging to SMF.	File Manager for z/OS V11R1 Customization Guide (SC19-3133-03)

Initial problem description

The File Manager Customization Guide makes no reference to the need for users to have OMVS Segments established to use the UNIX interface BPX1SMF.

Outline of solution

Update the documentation.

Documentation impact

This APAR changes:

- Customization Guide (SC19-3133-03)

Changes to the Customization Guide

Chapter 5, "Customizing the File Manager audit facility (FMN0POPT controlled auditing)"

In the section "Using System Management Facilities (SMF) for audit logging" on page 49, *add* this bullet point:

- Ensure the File Manager users have a RACF OMVS segment that specifies a valid non-zero z/OS UNIX user ID (UID), home directory, and shell command. Their default group also requires an OMVS segment with a group id. To do this replace in the following sample RACF commands the #userid, #user-identifier, #group-name and #group-identifier placeholders with actual values:

```
ALTUSER #userid  
OMVS(UID(#user-identifier) HOME(/u/#userid) PROGRAM(/bin/sh) NOASSIZEMAX)
```

```
ALTGROUP #group-name OMVS(GID(#group-identifier))
```

Although it is advised not to do so, you can use the shared OMVS segment defined in the BPX.DEFAULT.USER profile of the FACILITY class to fulfill the OMVS segment requirement for File Manager.

Chapter 15, "Customizing the FM/DB2 audit facility (FMN2POPT controlled auditing)"

In the section "Using System Management Facilities (SMF) for audit logging" on page 132, *add* this bullet point:

- Ensure the File Manager users have a RACF OMVS segment that specifies a valid non-zero z/OS UNIX user ID (UID), home directory, and shell command. Their default group also requires an OMVS segment with a group id. To do this replace in the following sample RACF commands the #userid, #user-identifier, #group-name and #group-identifier placeholders with actual values:

```
ALTUSER #userid  
OMVS(UID(#user-identifier) HOME(/u/#userid) PROGRAM(/bin/sh) NOASSIZEMAX)
```

```
ALTGROUP #group-name OMVS(GID(#group-identifier))
```

Although it is advised not to do so, you can use the shared OMVS segment defined in the BPX.DEFAULT.USER profile of the FACILITY class to fulfill the OMVS segment requirement for File Manager.

Chapter 23, "Customizing the FM/IMS audit facility (FMN1POPT controlled auditing)"

In the section "Using System Management Facilities (SMF) for audit logging" on page 203, *add* this bullet point:

- Ensure the File Manager users have a RACF OMVS segment that specifies a valid non-zero z/OS UNIX user ID (UID), home directory, and shell command. Their default group also requires an OMVS segment with a group id. To do this replace in the following sample RACF commands the #userid, #user-identifier, #group-name and #group-identifier placeholders with actual values:

```
ALTUSER #userid  
OMVS(UID(#user-identifier) HOME(/u/#userid) PROGRAM(/bin/sh) NOASSIZEMAX)
```

```
ALTGROUP #group-name OMVS(GID(#group-identifier))
```

Although it is advised not to do so, you can use the shared OMVS segment defined in the BPX.DEFAULT.USER profile of the FACILITY class to fulfill the OMVS segment requirement for File Manager.

Chapter 32, "Customizing the FM/CICS audit facility (FMN3POPT controlled auditing)"

In the section "Using System Management Facilities (SMF) for audit logging" on page 255, *add* this bullet point:

- Ensure the File Manager users have a RACF OMVS segment that specifies a valid non-zero z/OS UNIX user ID (UID), home directory, and shell command. Their default group also requires an OMVS segment with a group id. To do this replace in the following sample RACF commands the #userid, #user-identifier, #group-name and #group-identifier placeholders with actual values:

```
ALTUSER #userid  
OMVS(UID(#user-identifier) HOME(/u/#userid) PROGRAM(/bin/sh) NOASSIZEMAX)
```

```
ALTGROUP #group-name OMVS(GID(#group-identifier))
```

Although it is advised not to do so, you can use the shared OMVS segment defined in the BPX.DEFAULT.USER profile of the FACILITY class to fulfill the OMVS segment requirement for File Manager.

UK96709, UK96740, UK96741, UK96747, UK96748

Release Date: 21 August 2013

This set of PTFs contains these APAR fixes:

- PM88676

PM88676

Initial problem description

The fix for APAR PM70710 changed the behaviour of the Load (ILB) function. Some customers were relying on the pre-PM70710 behaviour.

Outline of solution

The FM/IMS Load (ILB) has been modified to support a new parameter - USELCMD. When the USELCMD parameter is set to N, segments with no key or a non-unique key are inserted according to the insert rule for the segment type - that is the pre-PM70710 behaviour. When the USELCMD parameter is set to Y or is not specified, segments with no key or a non-unique key are inserted as the last occurrence - that is the post-PM70710 behaviour.

The FM/IMS Load dialog has been modified to include the 'Do not override insert rules' option. When this option is selected and there is a segment with an insert rule of FIRST or HERE in the primary database or a logically related database, the JCL generated by the dialog includes the card:

```
$$$FILEM      USELCMD=N,
```

When this option is not selected and there is a segment with an insert rule of FIRST or HERE in the primary database or a logically related database, the JCL generated by the dialog includes the card:

```
$$$FILEM      USELCMD=Y,
```

Otherwise, the dialog does not generate a USELCMD= card.

Documentation impact

This APAR requires changes to:

- User's Guide and Reference for IMS Data (SC19-3136-01)

Changes to the User's Guide and Reference for IMS data

"Load Entry panel" on page 282

Update the Load Entry panel to include the new Do not override insert rules option as shown:

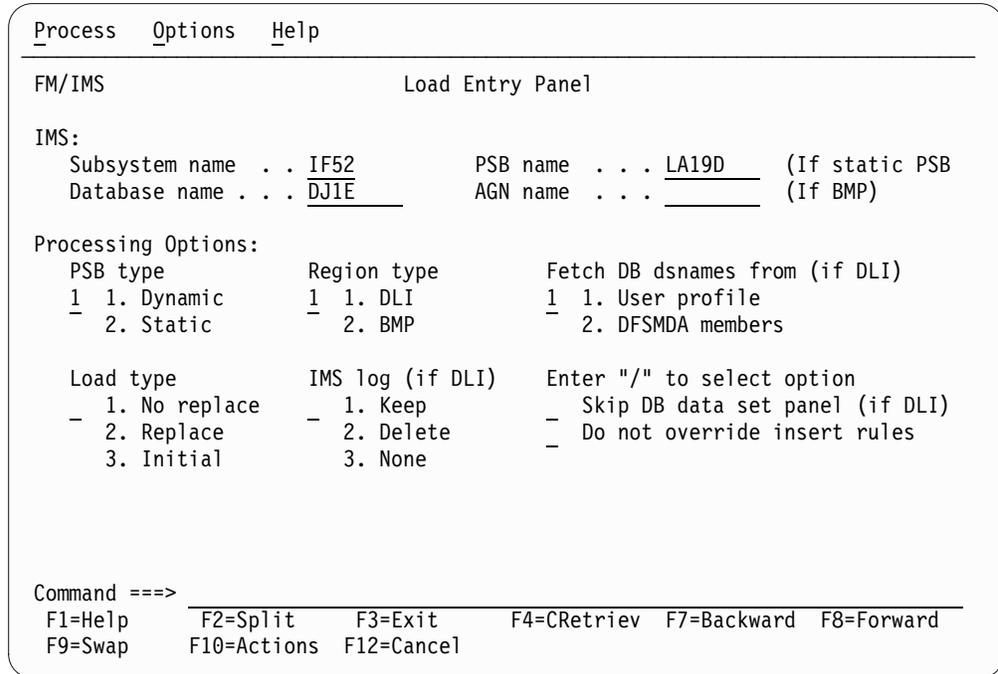


Figure 1. Load Entry panel

Add the following field description immediately after the Skip DB data set panel description:

Do not override insert rules

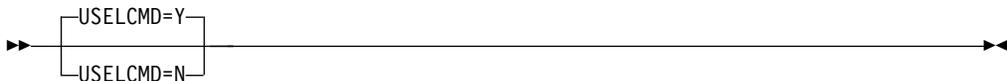
Select this option if some of the segments you are loading have an insert rule of FIRST or HERE and you do not want the Load to override these insert rules. If you select this option, segments with no key or a non unique key are inserted according to the insert rule for the segment type.

If this option is not selected, segments with no key or a non unique key are inserted as the last occurrence - this is irrespective of the insert rule for the segment type.

Note: If you are using the Extract (IXB) and Load (ILB) to extract data from one database and load it into another, and you want the twin segments in the loaded database to be in the same sequence as they were in the extracted database, then do not select this option.

"Load (ILB)" syntax diagram on page 472

After CHKPFREQ, add this parameter:



After the CHKPFREQ description add this parameter description:

USELCMD

Optional parameter. This option is only applicable when some of the segments you are loading have an insert rule of FIRST or HERE. Specifies whether or not the Load is to override these insert rules.

- Y Segments with no key or a non unique key are inserted as the last occurrence - this is irrespective of the insert rule for the segment type.
- N Segments with no key or a non unique key are inserted according to the insert rule for the segment type.

Note: If you are using the Extract (IXB) and Load (ILB) to extract data from one database and load it into another, and you want the twin segments in the loaded database to be in the same sequence as they were in the extracted database, then specify USELCMD=Y.

UK95863

Release Date: 18 July 2013

This set of PTFs contains the following APAR fixes:

APAR #	APAR Abstract	Doc Impact
PM92147	FM/IMS edit/browse - make it easier for user to access listings when PSBGEN or ACBGEN fails.	User's Guide and Reference for IMS Data (SC19-3136-01)

PM92147

Initial problem description

1. When an ACBGEN for a dynamic PSB fails it is difficult to determine the cause of the failure because the ACBGEN SYSPRINT output is deleted.
2. When the PSBGEN for a dynamic PSB fails, the SYSPRINT output from the step that fails is not deleted. However, customers have had difficulty locating it.

Outline of solution

The FM/IMS Edit and Browse dialog have been modified to display a popup when the PSBGEN assembly, the PSBGEN bind or the ACBGEN fails. The popup informs the user of the failure and gives the user the option of viewing the SYSPRINT output from the step that failed.

Documentation impact

This APAR changes:

- User's Guide and Reference for IMS Data (SC19-3136-01)

User's Guide and Reference for IMS Data

Chapter 12. "Messages"

Replace the entries for messages FMNIA013, FMNIA014 and FMNIA069 with the following:

FMNIA013 Assembly of dynamic PSB failed with return code &RC.

Explanation: The PSBGEN assembly step for the dynamic PSB your batch function was generating, failed with a return code of &RC.

User response: Add the following DD statement to the JCL and rerun the job:

```
//FMN1PRT1 DD SYSOUT=*
```

The job output will include the PSBGEN assembly listing. Use the assembly listing to determine the cause of the problem.

FMNIA014 Link edit of dynamic PSB failed with a return code of &RC.

Explanation: The PSBGEN link edit step for the dynamic PSB your batch function was generating, failed with a return code of &RC.

User response: Add the following DD statement to the JCL and rerun the job:

```
//FMN1PRT2 DD SYSOUT=*
```

The job output will include the PSBGEN link edit listing. Use the link edit listing to determine the cause of the problem.

PM92147

FMNIA069 **FMNIA069 The ACBGEN that builds the blocks for the dynamic PSB failed with return code &RC.**

Explanation: The ACBGEN for the dynamic PSB your batch function was generating failed with a return code of &RC.

User response: The job SYSPRINT output will include the ACBGEN listing. Use the ACBGEN listing to determine the cause of the problem.

UK91613

Release Date: 13 February 2013

This set of PTFs contains the following APAR fixes:

APAR #	APAR Abstract	Doc Impact
PM80986	File Manager Server change to support z/OS UNIX changes in APAR OA41101.	Customization Guide (SC19-3133-03)

PM80986

Initial problem description

z/OS APAR OA41101 introduces a change in honoring the APF authorization state of a program when launched via a sticky bit or external link z/OS Unix file. This technique is used by the File Manager server.

If this APAR is not applied after OA41101 is applied, the messages:

```
BPXP028I SPAWN OR EXEC ERROR FOR FILE PATH ____ DEVICE ID  
____ INODE ____ . THE ASSOCIATED MVS MEMBER NAME IS ____ .  
SYSTEM COMPLETION CODE=EC6 REASON CODE=0B26C04A
```

occurs when the File Manager Server attempts to launch a client connection.

Outline of solution

Apply the provided PTF, and read and apply the documentation changes.

Documentation impact

This APAR changes:

- Customization Guide (SC19-3135-01)

Customization Guide

Appendix E. "Customizing the FM Server"

Section "Additional security considerations" (page 459): After the paragraph "Alternatively, you could define the library, FMN.SFMNMODA, to program control, rather than specify individual programs." *add* this paragraph:

The userid of the FM Server must be permitted READ access to the BPX.FILEATTR.APF facility.

UK91295, UK91296, UK91297, UK91298, UK91299, UK91300, UK91301

Release Date: 5 January 2013

This set of PTFs contains the following APAR fixes:

APAR #	APAR Abstract	Doc Impact
PM76622	Fix to DB2 component editor option 'Commit after data fetch' default value.	User's Guide and Reference for DB2 Data (SC19-3135-01)
PM77912	Details of row size.	User's Guide and Reference for DB2 Data (SC19-3135-01)

PM76622

Initial problem description

The documentation for the File Manager DB2 component editor option 'Commit after data fetch' incorrectly states that the default for the option is not selected.

Outline of solution

The File Manager DB2 component documentation (Help panels and User's Guide) has been changed.

Documentation impact

This APAR changes:

- User's Guide and Reference for DB2 Data (SC19-3135-01)

User's Guide and Reference for DB2 Data

Chapter 15. "FM/DB2 panels and fields"

For the section "Editor Options (7 of 7) panel, on page 613, for the 'Commit after data fetch' option, *change* the last sentence in the first paragraph to read:

By default, this option is selected.

PM77912

Initial problem description

SQLCODE-670 is returned in FM/DB2 edit/browse when using "Large Mode".

Outline of solution

Use the "Normal Mode" to edit/browse the DB2 Table.

Documentation impact

This APAR changes:

- User's Guide and Reference for DB2 Data (SC19-3135-01)

User's Guide and Reference for DB2 Data

Chapter 4. "Viewing and changing DB2 data"

In Table 4 "Characteristics of editor modes" on page 118, add this row:

	"Normal mode"	"Large mode"
Row size	No restriction	Row size must not exceed the maximum page size (32704) less 16 bytes. When this limit is exceeded, the editor session reports SQLCODE-670 stating: "The record length of the table exceeds the page size limit". This is because large mode uses a DB2 scrollable cursor, for which each row requires an additional 16 bytes. If you get SQLCODE-670 use "Normal mode" to view/update the DB2 table.

UK90555, UK90556, UK90557, UK90558, UK90559, UK90560

Release Date: 21 December 2012

This set of PTFs contains the following APAR fixes:

APAR #	APAR Abstract	Doc Impact
PM77574	File Manager WIDEPRT setting enhancement.	Customization Guide (SC19-3133-03)

PM77574

Initial problem description

When running File Manager in batch it is not possible to control the record length and block size of the SYSPRINT output when the WIDEPRT=YES option has been specified.

Outline of solution

The options WBLKSIZE and WLRECL have been added to the FMNnPOPT modules. These options are used for the to-be-allocated (new) print output data or the SYSPRINT allocation (in batch) if the WIDEPRT=YES option has been specified.

Documentation impact

This APAR changes:

- Customization Guide (SC19-3133-03)

Changes to the Customization Guide

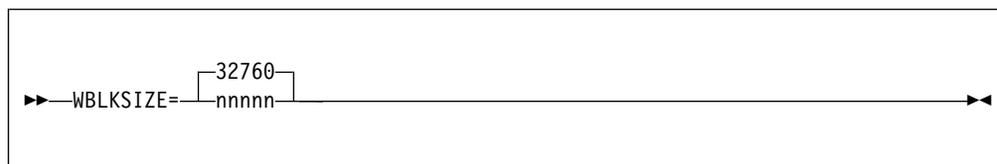
Appendix A, "File Manager options"

Add this sentence to the definition of WIDEPRT (page 330), after the "YES" definition:

The maximum record length/block size can be overwritten by the WBLKSIZE and WLRECL File Manager options.

Add these two options to the Appendix:

WBLKSIZE:



WBLKSIZE

Specifies the blocksize of the to-be-allocated (new) print output data sets (online) or for SYSPRINT allocation (in batch) if the WIDEPRT=YES option is specified.

nnnnn For the to-be-allocated (new) print output data or the SYSPRINT allocation (in batch), File Manager uses the blocksize specified with

WBLKSIZE option

a record format of VBA. The record size used is taken from the WLRECL option. The default (32760) is the maximum allowed.

WLRECL:



WLRECL

Specifies the record size of the to-be-allocated (new) print output data sets (online) or for SYSPRINT allocation (in batch) if the WIDEPRN=YES option is specified.

nnnnn For the to-be-allocated (new) print output data or the SYSPRINT allocation (in batch), File Manager will use the record size specified with a record format of VBA. The blocksize used will be taken from the WBLKSIZE option. The default (32756) is the maximum allowed.

UK90048, UK90049, UK90050, UK90051

Release Date: 7 December 2012

This set of PTFs contains the following APAR fixes:

APAR #	APAR Abstract	Doc Impact
PM72106	Provide an installation option to allow the use of File Manager DB2 without requiring any access to *AUTH DB2 catalog tables.	File Manager for z/OS V11R1 Customization Guide (SC19-3133-03)

PM72106

Initial problem description

File Manager DB2 component requires SELECT access on all DB2 catalog tables to be available to each FM/DB2 user. This requirement can conflict with the security policy in place at some sites which forbids access to the *AUTH DB2 catalog tables.

Outline of solution

File Manager DB2 component currently works without any SELECT access to the DB2 *AUTH catalog tables, but this solution provides a better means of accommodating the requirement.

Documentation impact

This APAR changes:

- Customization Guide (SC19-3133-03)

Changes to the Customization Guide

Chapter 13, "Customizing the operating environment for FM/DB2"

Section "Granting access to the DB2 Catalog (required)" (page 109): *Replace the first two paragraphs in this topic with the following:*

FM/DB2 is a "full-function" DB2 application, intended to provide access to every DB2 catalog table, including those catalog tables that may contain sensitive information. FM/DB2 uses dynamic SQL, issued against the DB2 catalog, as part of its processing. To make FM/DB2 available and to ensure correct and optimum operation, you must ensure that each FM/DB2 user has SELECT access against the DB2 catalog tables. **This is a non-negotiable requirement.**

FM/DB2 includes an option (DB2 Privileges utility) that enables information in the various *AUTH DB2 catalog tables to be viewed. If your installation restricts access to the *AUTH tables, you can disable the DB2 Privileges utility entirely, and remove the need to grant SELECT access on the *AUTH tables at install time. You can disable the FM/DB2 Privileges utility for some DB2 systems, but not for others as required. To disable access to the DB2 Privileges utility you need to code AUTH_ACCESS=N in the FMN2SSDM macro entry for each DB2 system where no SELECT access to the *AUTH tables is allowed. See *Appendix B FM/DB2 options*,

section "FMN2SSDM" (macro), subsection "AUTH_ACCESS" parameter description for more information. [This is a new subsection; the details are provided in the next section of this document.] Remove or comment out references to the *AUTH tables in the sample job used to grant SELECT access on the DB2 catalog tables to FM/DB2 users. See "Sample jobs to grant SELECT access on the DB2 catalog tables" on page 110 for additional information.

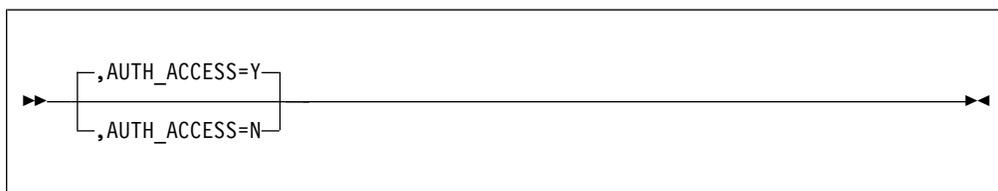
You can also further restrict access to some DB2 catalog tables - see "Sample jobs to grant SELECT access on the DB2 catalog tables" for additional information. FM/DB2 is designed to tolerate incomplete access to most DB2 catalog tables, although the functionality of the product is reduced when access to some DB2 catalog tables is reduced. Restricting access to certain key DB2 catalog tables renders the product inoperative - for an indicative list of the key tables and columns see the "minimal subset" sample members described below.

DB2 authorization configuration can only be achieved using DB2, or an external security server (or both). Since these are external products, only general guidance is provided here on the authorization and security issues associated with the use of FM/DB2. You must determine the best approach to providing the required level of access for FM/DB2 users, based on your installation's unique requirements. You must ensure SELECT access against the DB2 catalog tables is given for all DB2 systems that are accessible to FM/DB2 users.

Appendix B, "FM/DB2 options"

Section "FMN2SSDM" (page 331): Add this new option description after the existing the existing AUDITBROWSE option description (page page 333).

AUTH_ACCESS



AUTH_ACCESS

Specifies whether or not access to the *AUTH DB2 catalog tables is available to FM/DB2 users.

- Y** Specifies that SELECT access to the *AUTH DB2 catalog tables is available. This is the default. Specify Y if FM/DB2 users are to have access to the FM/DB2 Privileges utility, and are able to view information in the *AUTH DB2 catalog tables.
- N** Specifies that no SELECT access to the *AUTH DB2 catalog tables is available. Specify N in environments where the information in the *AUTH is considered confidential. Specify AUTH_ACCESS=N when you do not grant SELECT access on the *AUTH DB2 catalog tables to FM/DB2 users.

The FM/DB2 Privileges utility is disabled when N is specified, along with line commands (G and P) that may be issued against a list of DB2 objects in the FM/DB2 Object List utility.

UK83347, UK83348, UK83349, UK83350

Release Date: 12 November 2012

This set of PTFs contains the following APAR fixes:

APAR #	APAR Abstract	Doc Impact
PM66923	FM/CICS is not handling output class correctly.	Customization Guide (SC19-3133-03)

PM66923

Initial problem description

The allocation of SYSTSPRT and SYSPRINT in the spawned server task have the same SYSOUT class. This means if you want the SYSTSPRT output to go to a class that is automatically deleted then the SYSPRINT output is also deleted.

Outline of solution

Two new options have been added to the SERVER options. They determine the SYSPRINT and SYSTSPRT SYSOUT class.

Documentation impact

This APAR changes:

- Customization Guide (SC19-3133-03)

Changes to the Customization Guide

Appendix E, "Customizing the FM server"

Section "FM Server options" (page 435): Subsystem "Syntax of the SERVER statement"

Replace the syntax with:

```
SERVER MCASEPW=YES|NO,PORT=port_num,MAXCONN=max_conn,PATH=/path_name/FMNSPAWN,TSOCLASS=c,PRTCLASS=c
```

Add these two options:

TSOCLASS=c

Specifies the SYSOUT class of the SYSTSPRT DD allocated to the spawned address space.

PRTCLASS=c

Specifies the SYSOUT class of the SYSPRINT DD allocated to the spawned address space.

UK81288, UK81289, UK81290, UK81291, UK81292

Release Date: 24 August 2012

This set of PTFs contains the following APAR fixes:

APAR #	APAR Abstract	Doc Impact
PM63521	When using FM/DB2 to view large tables, and "ALL" is entered in row count, DB2 global temporary tablespace fills up.	Customization Guide (SC19-3133-03)

PM63521

Initial problem description

DB2 issues SQLCODE-904 errors on the temporary database when a File Manager DB2 user edits a DB2 object with row count = 0.

Outline of solution

File Manager DB2 component has been changed to allow the product installer to disable large object support for the File Manager DB2 editor. A new FMN2SSDM macro parameter EDIT_MAX_ROWS can be specified. The default is 0, meaning that large object support is available, this preserves the existing product behaviour. Specifying EDIT_MAX_ROWS=n, n>0 has two effects:

1. Large object support is disabled. When a File Manager DB2 editor user specifies row count = 0, they instead get a normal editor session with at most n rows loaded.
2. n sets an absolute limit on the number of rows that may be loaded for any File Manager DB2 editor user. If a user sets row count = m, m>n they instead get a normal session with at most n rows.

Note that the new parameter is specified as an FMN2SSDM macro parameter, therefore editor large object support can be disabled/enabled for each DB2 system defined in the FMN2POPT module.

The FMN2POPT module is affected by this APAR, however the module only needs to be modified/re-created when the new EDIT_MAX_ROWS parameter is specified with a non-zero value.

Documentation impact

This APAR changes:

- Customization Guide (SC19-3133-03)

Changes to the Customization Guide

Chapter 12, "Preparing to customize FM/DB2"

Section "Improving FM/DB2 performance" (page 104): *Add* this text to the end of the section:

The File Manager DB2 editor can operate in two modes: "normal" and "large". The mode of operation is determined by the value entered in the row count field for those FM/DB2 functions that use the FM/DB2 editor to display data. The characteristics of the two editor modes are documented in the *File Manager User's Guide and Reference for DB2 Data*.

The use of "large" editor mode may have negative DB2 performance implications. When the FM/DB2 editor operates in "large" mode, it uses a DB2 scrollable cursor for access to DB2 data. This minimizes the memory usage in the FM/DB2 user's TSO address space, but might require DB2 to build a temporary copy of the entire result table in a DB2 temporary database. For large tables this can lead to SQLCODE-904 (unavailable resource) on table spaces defined within the DB2 temporary database. For these reasons providing access to the FM/DB2 editor in production DB2 environments, where there are large DB2 tables, should be carefully considered.

The product installer can disable the use of "large" editor mode, by DB2 subsystem. This is achieved by setting the FMN2SSDM macro parameter EDIT_MAX_ROWS to a non-zero value. See the description for the EDIT_MAX_ROWS parameter in "Appendix B. FM/DB2 Options", section "FMN2SSDM".

The FMN2SSDM macro is discussed further in installation checklist item 15: "Identifying all the DB2 systems that FM/DB2 will access and defining these in the FMN2POPT module (required)".

Appendix B, "FM/DB2 options"

Section "FMN2SSDM" on page 331: Add this text, between the entries for "DISPLAY" and "LDFDDLN":

EDIT_MAX_ROWS



EDIT_MAX_ROWS

Controls the maximum number of rows that can be loaded into any FM/DB2 editor session, and can be used to disable "large" table support.

The default is 0, meaning that:

1. "large" editor mode is available to all FM/DB2 users. If an FM/DB2 user specifies row count = 0 for an editor-related function, FM/DB2 may use a scrollable cursor to access DB2 data. This might require DB2 to build a copy of the result table in a DB2 temporary database.
2. "normal" editor mode is available to all FM/DB2 users. An FM/DB2 user can specify row count = n , $n > 0$ for an editor-related function, FM/DB2 will attempt to load up to n rows into the FM/DB2 editor session. There is no restriction on the value n that can be specified up to a maximum of 2G-1.

Specify a positive value (nn) to:

1. Disable “large” editor mode. If an FM/DB2 user specifies row count = 0 for an editor-related function, FM/DB2 ignores the 0 value, the resulting FM/DB2 editor session is a “normal” edit session and FM/DB2 will load at most *nn* rows.
2. Set an absolute limit on the number of rows that any FM/DB2 user can process in an FM/DB2 editor session. If an FM/DB2 user specifies row count = *m*, *m*>*nn* on a function entry panel, FM/DB2 ignores the *m* value and will load at most *nn* rows into the editor.

Tips: Specify a large value (for example 2,000,000,000) to disable “large” editor mode, while setting no reasonable upper limit to the number of rows that can be loaded into an FM/DB2 editor session.

Specify a modest value (for example 10,000) to limit TSO memory usage when using the FM/DB2 editor.

UK80946, UK80947, UK80948, UK80949, UK80950

Release Date: 10 August 2012

This set of PTFs contains the following APAR fixes:

APAR #	APAR Abstract	Doc Impact
PM67491	FM'S VLM (View Load Module) function will stop processing PDS members if an error is encountered with one member.	<ul style="list-style-type: none">User's Guide and Reference (SC19-3134-02)
PM63944	Specifying SAF_SMFNO on FMNXPARM results in messages FMNBA091 and FMNBA094.	<ul style="list-style-type: none">Customization and Reference Guide (SC19-3133-03)

PM67491

Initial problem description

When using the File Manager VLM function in batch to view a list of load modules the function will terminate if an error is found accessing a load module in the list.

Outline of solution

The View Load Module function has been modified to continue processing the other members in the list when a Binder API error occurs accessing a load module.

Documentation impact

This APAR changes:

- User's Guide and Reference (SC19-3134-02)

Changes to the User's Guide

Chapter 17, "File Manager messages" (page 1177)

Add messages FMNBF427 and FMNBF434

FMNBF427 Program Binder does not recognize member as a Load Module / Program Object. Function=function code RC=return code reason=reason code.

Explanation: The File Manager View Load Module utility encountered an Binder API error when accessing the module member. The *function code* is an internal code to represent the IEWBIND function being executed. The Binder API returned return code *return code* and reason code *reason code*.

User response: Refer to the manual SA22-7644 MVS

Program Management: Advanced Facilities for an explanation of the Binder API return codes and reason codes

FMNBF434 The module member does not contain any CSECT names.

Explanation: The File Manager View Load Module utility found no CSECT names in the module member and therefore cannot provide any information.

User response: None.

PM63944

Initial problem description

Specifying SAF_SMFNO on FMNXPARM results in messages FMNBA091 and FMNBA094.

Outline of solution

The information on how to specify the FMAUDIT parameter in Appendix D of the File Manager for z/OS Customization Guide (SC19-3133-03) contains an error. SAF_SMFNO is listed as the keyword you use to specify the SMF record type. You should, however, use the keyword SMF_NO to specify this information.

The Customization and Reference Guide has been corrected.

Documentation impact

This APAR changes:

- Customization and Reference Guide (SC19-3133-03)

For the change to the documentation, see "Change #1 August 2012" on page 57.

UK80527, UK80528, UK80529, UK80530, UK80531, UK80532, UK80533, UK80534, UK80535, UK80536, UK80537, UK80538

Release Date: 30 July 2012

This set of PTFs contains the following APAR fixes:

APAR #	APAR Abstract	Doc Impact
PM61961	Receive compile errors when attempting to create a template from a PL/I copybook.	<ul style="list-style-type: none">• User's Guide and Reference (SC19-3134-02)• User's Guide and Reference for DB2 Data (SC19-3135-01)• User's Guide and Reference for IMS Data (SC19-3136-01)
PM62937	File Manager CICS change to prevent ICH408I RACF messages when checking for CICS menu options.	<ul style="list-style-type: none">• Customization and Reference Guide (SC19-3133-03)
PM63349	File Manager provide an FM server option for supporting mixed-case password.	<ul style="list-style-type: none">• Customization and Reference Guide (SC19-3133-03)
PM65247	FM/DB2 User's Guide incorrectly displays the Set Print Processing Options panel.	<ul style="list-style-type: none">• User's Guide and Reference for DB2 Data (SC19-3135-01)
PM66754	Screen samples differ between FM/DB2 User's Guide and actual displays.	<ul style="list-style-type: none">• User's Guide and Reference for DB2 Data (SC19-3135-01)

PM61961

Initial problem description

Receive compile errors when attempting to create a template using a PL/I copybook, which includes the clause SQL TYPE IS XML AS.

Outline of solution

File Manager now supports a 50 byte freeform options field for each of the compilers supported which, when populated, will be passed to the language compiler when compiling a copybook to generate a template. These options will be validated during the compile process. To avoid compile errors ensure the syntax is correct and that any additional data sets required by these options are allocated prior to invoking File Manager.

Documentation impact

This APAR changes:

- User's Guide and Reference (SC19-3134-02)
- User's Guide and Reference for DB2 Data (SC19-3135-01)
- User's Guide and Reference for IMS Data (SC19-3136-01)

Changes to the User's Guide

Chapter 4, "Creating and editing templates"

In the section "Managing templates", subsection "Setting your template processing options", subtopic "Setting your COBOL processing options", add another point:

- 9. Supply any additional compiler options which will be added via the CBL statement.

Change the existing point 9 to point 10.

In subtopic "Setting your HLASM processing options", add the point:

- 5. Additional compiler options which will be added via the *PROCESS statement.

Renumber existing points 5 and 6.

In subtopic "Setting your PL/I processing options", add the point:

- 7. Additional compiler options which will be added via the *PROCESS statement.

Renumber existing points 7 and 8.

Chapter 14, "Panels and fields"

The layout of the processing options panels set out in the list below has been changed and needs to be updated:

A new field 'Additional options' has been added to each panel. The description for the field can be obtained from the field level help and is different for each panel.

- "Set COBOL Processing Options" panel
- "Set HLASM Processing Options" panel
- "Set PL/I Processing Options" panel

Chapter 16, "Functions"

New keyword parameters have been added to each of the compiler options for the functions:

- BTB
- DSB
- DSE
- DSG
- DSV
- PBK
- DSEB
- DSP
- DSU
- DSC
- DSM

For the COBOL options the keyword is CBLADDOP which should be shown as:

- "Set HLASM Processing Options" panel
- "Set PL/I Processing Options" panel

The compiler options are also included in Chapter 11 "Batch reference", section "IMS Template Update (ITU)".

Changes to the User's Guide and Reference for DB2 Data

Chapter 15, "FM/DB2 panels and fields"

A new field "Additional options" has been added to each panel. The description for the field can be obtained from the field level help and is different for each panel.

- "Set COBOL Processing Options" panel
- "Set HLASM Processing Options" panel
- "Set PL/I Processing Options" panel

PM62937

Initial problem description

When a new File Manager CICS session uses RACF to check whether Base, IMS or DB2 selections are to be added to the FM/CICS menu, MsgICH408I INSUFFICIENT ACCESS AUTHORITY is issued on the joblog if the request fails.

Outline of solution

File Manager has been updated to change the RACROUTE call used to check whether the user has the required READ authority to the FACILITY class profiles (FILEM.CICS.BASE,IMS and DB2) It now uses the STATUS=ACCESS form of the RACROUTE so that no logging of authorization failures is done for these profiles.

Non-RACF users such as ACF2 may encounter AbendS047 failures with this form of the RACROUTE. These users should consult the relevant documentation and make the necessary definitions to the security subsystem.

RACF users do not need to make any additional changes.

Documentation impact

This APAR changes:

- Customization and Reference Guide (SC19-3133-03)

Changes to the Customization and Reference Guide

Chapter 4, "Customizing the File Manager security product"

Section "Setting up the security environment by using RACF or an equivalent security product": After the following paragraph (on page 32):

If a userid running FM/CICS has read access to any of these groups, then the associated function (FM, FM/IMS or FM/DB2) will appear on the FM/CICS primary option menu and the user can invoke these functions, if they are installed.

Insert these paragraphs:

In order to achieve this, File Manager makes RACROUTE calls, with STATUS=ACCESS, to the CICS SAF FACILITY profiles. When RACF is used, the

STATUS=ACCESS request works as documented, and no security-related logging or abends are generated, even if you do not have access to the profile.

However, when non-RACF security products (such as ACF2) are used, S047 ABENDS047 may be issued in response to the above RACROUTE request. These users should consult the relevant product documentation and make changes accordingly.

PM63349

Initial problem description

Users entering passwords in mixed case where the z/OS system does not support mixed case passwords receive an error

"CommunicationSecurityException: Invalid authentication credentials" and need to respecify the password.

Outline of solution

A new option for the server, MCASEPW has been added, in order to indicate support for mixed case passwords on the system. If mixed case password support is not indicated, the password will be uppercased for the authentication method, allowing for case sensitivity only when the z/OS system supports it. That removes the need to uppercase passwords in the eclipse plugin when the z/OS system does not support mixed case.

Documentation impact

This APAR changes:

- Customization Guide (SC19-3133-03)

Changes to the Customization Guide

Appendix E, "Customizing the FM Server"

In the section "Syntax of the SERVER statement":

- Change to read:

```
SERVER MCASEPW=YES|NO,PORT=port_num,MAXCONN=max_conn,PATH=/path_name/FMNSPAWN
```

Add the following definition:

MCASEPW

Specifies if this system supports mixed case passwords. If omitted, the default is NO and passwords will be uppercased before the authentication method is called.

PM65427

Initial problem description

FM/DB2 User's Guide incorrectly displays the Set Print Processing Options panel.

Outline of solution

Change the documentation.

Documentation impact

This APAR changes:

- User's Guide and Reference for DB2 Data (SC19-3135-01)

For the change to the documentation, see "Chapter 15, "FM/DB2 panels and fields"" on page 65.

PM66754

Initial problem description

Screen examples differ between manual and actual displays.

Outline of solution

Change the manual.

Documentation impact

This APAR changes:

- User's Guide and Reference for DB2 Data (SC19-3135-01)

For the change to the documentation, see "Chapter 9, "Printing"" on page 63.

UK79658

Release Date: 20 June 2012

This set of PTFs contains the following APAR fixes:

APAR #	APAR Abstract	Doc Impact
PM58672	Unable to successfully complete execution of FMN2VER to verify FM/DB2 installation with DB2 V10	Customization Guide (SC19-3133-03)

PM58672

Initial problem description

Problems running the supplied FMN2VER sample job (FM/DB2 IVP) against DB2 version 9 or version 10 systems.

Outline of solution

File Manager DB2 component has been changed to correct the problem. The existing FMN2VER job has been updated to include additional COMMIT statements which are required when running against DB2 version 9. A new FMN2VERA job is supplied for DB2 version 10 systems.

Documentation impact

This APAR changes:

- Customization Guide (SC19-3133-03)

Changes to the Customization Guide (SC19-3133-03)

Chapter 18, "Verifying the customization of FM/DB2"

In "Step 1. Define DB2 objects to be used during verification", replace the paragraph starting "Edit and submit the batch job FMN2VER..." with the following:

Two samples jobs, FMN2VER and FMN2VERA, are provided to assist you to define the various DB2 objects. These samples are provided in FMN.SFMNSAM1 by default. Select the appropriate version of the job as follows:

FMN2VER

For DB2 version 8 or version 9.

FMN2VERA

For DB2 version 10.

Take a copy of the job and refer to the comments in the job for changes you must make before you can run it. You will have to provide the names of your DB2 libraries, sample plans, and subsystem ID. Submit the job when the required changes have been made.

UK79407

Release Date: 12 June 2012

This set of PTFs contains the following APAR fixes:

APAR #	APAR Abstract	Doc Impact
PM64372	Receive message - TSOLNK RC=20 (DEC) REASON CODE=24 (DEC), when running IMS batch with SAF controlled auditing to SMF ACTIVE.	Customization Guide (SC19-3133-03)

PM64372

Initial problem description

The message 'FMNIB535 Audit failure. Function terminated because auditing to SMF failed. 'TSOLNK RC=20 (Dec) REASON CODE=24 (Dec)' is issued when running an IMS batch job with SAF controlled auditing to SMF active.

Outline of solution

The authorized requirement to perform SMF logging by File Manager has been removed by changing the SMF logging to use the UNIX BPX1SMF service. This APAR changes the JCL generated by FM/DB2 component, for executing FM/DB2 functions in batch. The change applies only when audit logging to SMF is selected. Previously generated FM/DB2 batch jobs should continue to work without modification. Customers should review any existing jobs and re-generate these to use the changes delivered in this APAR.

Documentation impact

This APAR changes:

- File Manager for z/OS V11R1 Customization Guide (SC19-3133-03)

Changes to the Customization Guide

Note: These changes are removed by PI45963 (UI34540, ...). The Customization Guide (SC19-3133-03) as it contains all the information necessary to customize File Manager to use the FMNSMF service.

Chapter 1, "Preparing to customize File Manager"

In the section "Planning for running File Manager with or without APF-authorization", change the paragraph which begins 'If you plan to use SMF..' as follows :

- If you plan to use SMF to record audit trail information for File Manager base function, or for the DB2 or CICS components, you must establish a SAF FACILITY class profile BPX.SMF. See "Using System Management Facilities (SMF) for audit logging" in Chapter 5 (topic 1.5.2).

Chapter 2, "Customizing the operating environment for File Manager"

In the section "Troubleshooting problems with APF-authorization", remove the last two paragraphs which refer to FMNSMF.

Chapter 5, "Customizing the File Manager audit facility (FMN0POPT controlled auditing)"

In the section "Using System Management Facilities (SMF) for audit logging":

- Remove the first two bullet points referring to FMNSMF.
- Add a bullet point 'Ensure that users to be audited are authorized to write records to the SMF data set using the BPX1SMF interface by having read access to the SAF FACILITY class profile BPX.SMF'. Example using RACF:

```
RDEFINE FACILITY (BPX.SMF) UACC(NONE)
PE BPX.SMF CLASS(FACILITY) ID(userid) ACC(READ)
```

Chapter 12, "Preparing to customize FM/DB2"

Remove section "Planning for running FM/DB2 with APF-authorization".

Chapter 15, "Customizing the FM/DB2 audit facility (FMN2POPT controlled auditing)"

In section "Using System Management Facilities (SMF) for audit logging":

- Remove the first two bullet points referring to FMNSMF.
- Add a bullet point 'Ensure that users to be audited are authorized to write records to the SMF data set using the BPX1SMF interface by having read access to the SAF FACILITY class profile BPX.SMF'. Example using RACF:

```
RDEFINE FACILITY (BPX.SMF) UACC(NONE)
PE BPX.SMF CLASS(FACILITY) ID(userid) ACC(READ)
```

Chapter 19, "Preparing to customize FM/IMS"

Remove section "Planning for running FM/IMS with APF-authorization".

Chapter 23, "Customizing the FM/IMS audit facility (FMN1POPT controlled auditing)"

In section "Using System Management Facilities (SMF) for audit logging":

- Remove the first two bullet points referring to FMNSMF.
- Add a bullet point 'Users to be audited must have read access to the SAF FACILITY class profile BPX.SMF to be authorized to write records to the SMF data set using the BPX1SMF interface'. Example using RACF:

```
RDEFINE FACILITY (BPX.SMF) UACC(NONE)
PE BPX.SMF CLASS(FACILITY) ID(userid) ACC(READ)
```

Chapter 32, "Customizing the FM/CICS audit facility (FMN3POPT controlled auditing)"

In section "Using System Management Facilities (SMF) for audit logging":

- Remove the first two bullet points referring to FMNSMF.
- Add a bullet point 'Users to be audited must have read access to the SAF FACILITY class profile BPX.SMF to be authorized to write records to the SMF data set using the BPX1SMF interface'. Example using RACF:

```
RDEFINE FACILITY (BPX.SMF) UACC(NONE)
PE BPX.SMF CLASS(FACILITY) ID(userid) ACC(READ)
```

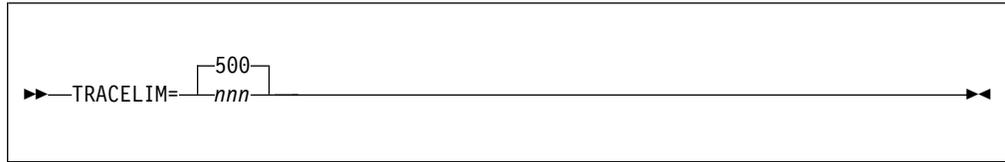
Chapter 22, "Customizing the FM/IMS security environment"

In section "Security Exit Parameters", "Table 47 - Parameters - Exit Type I", change the description of the parameter PDB NAME to 'The name of the Program Specification Block (static PSB)'.

TRACEDSN option

high-level qualifier for TRACEDSN, the data set name will have a high-level qualifier of the user's TSO PREFIX.

TRACELIM:



TRACELIM

Specifies the number of trace entries to be retained by the background trace mechanism. In the event of abnormal termination of a File Manager function, or the DEBUG option is selected, these entries will be written to TRACEDSN. If this value is set to zero, the background trace mechanism is switched off. If a value is specified it must be zero, or in the range 500 to 9999.

UK76168, UK76169, UK76176, UK76177

Release Date: 17 February 2012

This PTF contains the following APAR fix:

APAR #	APAR Abstract	Doc Impact
PM48439	Enhance FM/IMS to check packed decimal keys to prevent possible abend OC7 in IMS.	Customization Guide (SC19-3133-03)

PM48439

Initial problem description

AbendSOC7 in IMS when FM/IMS accesses a DEDB database that uses a randomizing module that can only handle key values that are valid packed decimal numbers.

Outline of solution

FM/IMS has been enhanced to check that the root key values, specified in the DL/I calls it issues, are valid packed decimal numbers when these conditions are met:

1. The call is issued against a DEDB database.
2. The key field, of the root segment of the DEDB database, is defined as TYPE=P in the DBD.
3. The name of the randomizing module the DEDB database uses, is included in the user-supplied load module FMN1RNDM.

If your installation uses DEDB randomizing modules that abend, or cause an IMS abend when they receive root key values that are not valid packed decimal numbers, then use the FMN1RNDM sample to create your own FMN1RNDM load module.

For information on how to do this, see the documentation changes associated with this APAR.

Documentation impact

This APAR changes:

- Customization Guide (SC19-3133-03)

Changes to the Customization Guide

Chapter 21, "Customizing FM/IMS"

At the end of the chapter include a new section called "Customizing for DEDB randomizing modules that cause IMS abends".

If your installation uses DEDB randomizing modules that abend or cause an IMS abend when they receive root key values that are not valid packed decimal numbers, then you should use the FMN1RNDM sample to create your own FMN1RNDM load module.

In the FMN1RNDM load module, you provide the names, or name patterns, of the DEDB randomizing modules at your installation that abend or cause an IMS abend when they receive key field values that are not valid packed decimal numbers.

If the key field of the root segment of a DEDB database is defined as TYPE=P in the DBD, and the name of the randomizing module that the DEDB database uses is included in the FMN1RNDM load module, then FM/IMS checks that the root key values specified in DL/I calls are valid packed decimal numbers before issuing the calls.

Providing your own FMN1RNDM module

FM/IMS does not provide a default FMN1RNDM module. You can provide your own FMN1RNDM module using the sample FMN1RNDM, and the usermod FMN1UMD1. FMN1RNDM and FMN1UMD1 are distributed in FMN.SFMNSAM1.

To create your own FMN1RNDM module:

1. Copy member FMN1RNDM from FMN.SFMNSAM1 to your own source library.
2. Code the names of the DEDB randomizing routines that you want to include on the FMN1RAND RANDNAME statements in your copy of FMN1RNDM. You can provide as many statements as you need. You can specify wildcards, using * (multiple characters) and % (single character).
3. Modify the FMN1UMD1 member in FMN.SFMNSAM1 to meet your site requirements. Refer to the usermod for information about the changes you need to make.
4. Install SMP/E usermod FMN1UMD1.

UK75824, UK75825, UK75826, UK75827

Release Date: 6 February 2012

This set of PTFs contains the following APAR fixes:

APAR #	APAR Abstract	Doc Impact
PM55550	File Manager DB2 sample parts for granting DB2 catalog access for DB2 V10 systems.	Customization Guide (SC19-3133-03)
PM54328	Receive message IEC161I 039-061 when using File Manager Batch DSC FUNCTION	User's Guide and Reference (SC19-3134-02)

PM55550

Initial problem description

Sample parts showing GRANT statements for various DB2 catalog tables not provided for DB2 version 10. The Customization Guide does not refer to sample jobs to grant SELECT access for DB2 version 10 systems.

Outline of solution

File Manager DB2 component has been updated to correct the problem. New sample parts specific for DB2 version 10 are supplied, and the File Manager Customization Guide is amended to reference the new samples.

Documentation impact

This APAR changes:

- File Manager for z/OS V11R1 Customization Guide (SC19-3133-03)

Changes to the Customization Guide

Chapter 13, "Customizing the operating environment for FM/DB2"

In the section "Sample jobs to grant SELECT access on the DB2 catalog tables", add additional references for the following:

FMN2GSC0

FMN2GSC0 is similar to FMN2GSC8 and FMN2GSC9, and is specific for DB2 version 10.

FMN2GVW0

FMN2GVW0 is similar to FMN2GVW8 and FMN2GVW9, and is specific for DB2 version 10.

FMN2GV20

FMN2GV20 is similar to FMN2GVW8 and FMN2GVW9, and is specific for DB2 version 10.

PM54328

Initial problem description

When running a batch function, such as DSC, and using a cluster with an UPGRADE alternate index that has not yet been built, message "FMNBA375 VSAM OPEN RC X"04", Error Code X"00" , run verify" is issued and processing is stopped.

Outline of solution

File Manager has been updated. It now issues a more specific informational message for the open condition, and then continues processing.

Documentation impact

This APAR changes:

- User's Guide and Reference (SC19-3134-02)

Changes to the User's Guide and Reference

Chapter 17, "File Manager messages"

- Add message FMNBA394:

FMNBA394 FMNBA394 OPEN warning code X'nn'
(condition). Processing continues.

Explanation: The VSAM open of a file returned a warning condition. The reason code is documented in manual DFSMS Macro Instructions for Data Sets. File Manager attempts to continue processing. Condition is a terse form of the explanation for some reason codes, as given by DFSMS Macro Instructions for Data Sets as follows:

X'4C' previously interrupted
X'60' data set flagged unusable
X'64' Alternate index not built
X'68' time stamp mismatch
X'6C' time stamp mismatch
X'74' not properly closed

User response: Consider the terse description and consult the DFSMS Macro Instructions for Data Sets manual for the OPEN reason code listed to determine if this condition is expected.

UK75017, UK75018, UK75019, UK75020

Release Date: 1 January 2012

This set of PTFs contains the following APAR fixes:

APAR #	APAR Abstract	Doc Impact
PM40648	File Manager IMS support for IMS V12.	File Manager for z/OS V11R1 User's Guide and Reference for IMS Data (SC19-3136-01)

PM40648

Initial problem description

FM/IMS does not support IMS Version 12.

Outline of solution

FM/IMS has been enhanced to support IMS Version 12. Included is support for Fast Path secondary indexes.

Documentation impact

This APAR changes:

- User's Guide and Reference for IMS Data (SC19-3136-01)

Changes to the User's Guide and Reference for IMS Data

Chapter 9, "Panels and fields"

In the section, "Subsystem Selection panel":

- Replace Figure 99 "Subsystem Selection panel" with:

<u>P</u> rocess	<u>O</u> ptions	<u>H</u> elp
FM/IMS		
Browse : Subsystem Selection		
	IMS	Read PSB Region AGNs
Cmd	SSID Status VER	Only Types Types Used Description
---	IFA2 ACTIVE 10	N BOTH BOTH N IFA2 v10 any PSB all unprotect
---	IFB2 ACTIVE 10	N BOTH BOTH N IFB2 v10 any PSB
---	IF32 ACTIVE 10	N BOTH BOTH N IF32 v10 DYN PSB all unprotect
---	IF22 ACTIVE 10	N BOTH BOTH N IF22 v10 STAT PSB all protect
---	IFC2 INACT.	N BOTH BOTH N IFC2 v11 any PSB all unprotect
---	IFD2 INACT.	N BOTH BOTH N IFD2 v11 any PSB all protect
---	IFE2 ACTIVE 12	N BOTH BOTH N IFE2 v12 any PSB all protect
---	IF52 ACTIVE 9	N BOTH BOTH N IF52 - BOTH all unprotect
---	IF42 ACTIVE 9	N BOTH BOTH N IF42 - BOTH, not protected
---	IF12 ACTIVE 11	N BOTH BOTH N IF12 - IMSV11 - DBRC=FORCE
**** End of data ****		
Command ==>		
F1=Help	F2=Split	F3=Exit
F9=Swap	F10=Actions	F12=Cancel
		F4=CRetrie v F7=Backward F8=Forward

Figure 2. Subsystem Selection panel

- Add the following field description entry:

IMS VER

The version of IMS that the subsystem runs. The version number is only displayed when the current status of the subsystem is active.

In the section, "**Secondary Index Selection panel**":

- Add the following text to the description for the **Search fields** entry:
A Fast Path secondary index (FPSI) may have multiple secondary index segments defined. When an FPSI has multiple secondary index segments, the search fields for each secondary index segment are displayed on separate lines.

Chapter 12, "Messages"

Delete the entry for message FMNIA025.

Part 2. General documentation changes

Customization Guide (SC19-3133-03)	57	User's Guide and Reference for DB2 Data (SC19-3135-01)	63
Change #2 October 2012	57	Change #1 July 2012	63
Chapter 29, "Customizing FM/CICS"	57	Chapter 9, "Printing"	63
Change #1 August 2012	57	Chapter 15, "FM/DB2 panels and fields".	65
Appendix D, "File Manager options specified in PARMLIB members"	57		
User's Guide and Reference (SC19-3134-02)	61	User's Guide and Reference for IMS Data (SC19-3136-01)	67
Change #2: March 2013	61		
Chapter 17, "File Manager messages"	61	User's Guide and Reference for CICS (SC19-3137-01)	69
Change #1 October 2012	61		
Chapter 17, "File Manager messages"	61		

This section describes enhancements and updates in the documentation for File Manager for z/OS Version 11 Release 1. These changes are not associated with individual APAR or PTF numbers, as they do not require the application of any code updates.

The changes are grouped by manual and listed within each section in reverse date order. That is, the most recent documentation change appears at the beginning of each manual section.

Customization Guide (SC19-3133-03)

Change #2 October 2012

Chapter 29, "Customizing FM/CICS"

Section 'Modifying and submitting FMN3INST' (page 264)

Throughout this section, *change* "&&USER" to "&USER", and *change* "&&TERM" to "&TERM".

Change #1 August 2012

Appendix D, "File Manager options specified in PARMLIB members"

Section 'File Manager Options specified in FMN0PARM' (page 411)

Delete the paragraph

File Manager will not start unless the FMN0PARM PARMLIB member is present.

Subsection 'FMAUDIT' (page 411)

Change header "SAF_SMFNO" to "SMF_NO".

In the syntax diagram, *change* "SAF_SMFNO" to "SMF_NO".

Change description entry header "SAF_SMFNO" to "SMF_NO".

Subsection 'Facilities for customizing the FMN0PARM member' (page 412)

Change the first bullet, from "the current zOS system ID" to "the current z/OS system ID".

Subsection 'Included members' (page 415)

Change the last paragraph, from:

Care should be used when selecting member names for included members, to avoid any conflicts with other member names that might exist in other libraries in the logical parmlib concatenation. This applies only when FMN0POPT controlled auditing (see "Defining the FMN0PARM member" on page 51 for more information) is used to add the FMN0PARM member to the logical parmlib concatenation.

To:

If you used Method 1 to add member FMN0PARM to the logical parmlib concatenation (see "Defining the FMN0PARM member" on page 51 for more information), be careful to avoid any conflicts between included member names and existing member names in the logical parmlib concatenation.

Section 'FM/IMS Options specified in FMN1PARM' (page 416)

Delete the paragraph

FM/IMS will not start unless the FMN1PARM PARMLIB member is present.

Subsection 'FMAUDIT' (page 417)

Change header "SAF_SMFNO" to "SMF_NO".

In the syntax diagram, *change* "SAF_SMFNO" to "SMF_NO".

Change description entry header "SAF_SMFNO" to "SMF_NO".

Subsection 'Facilities for customizing the FMN1PARM member' (page 418)

Change the first bullet, from 'the current zOS system ID' to 'the current z/OS system ID'.

Subsection 'Included members' (page 421)

Change the last paragraph, from:

Care should be used when selecting member names for included members, to avoid any conflicts with other member names that might exist in other libraries in the logical parmlib concatenation. This applies only when FMN1POPT controlled auditing (see "Defining the FMN1PARM member" on page 209 for more information) is used to add the FMN1PARM member to the logical parmlib concatenation.

To:

If you used Method 1 to add member FMN1PARM to the logical parmlib concatenation (see "Defining the FMN1PARM member" on page 209 for more information), be careful to avoid any conflicts between included member names and existing member names in the logical parmlib concatenation.

Section 'FM/DB2 Options specified in FMN2PARM' (page 422)

Delete the paragraph

FM/DB2 will not start unless the FMN2PARM PARMLIB member is present.

Subsection 'FMAUDIT' (page 423)

Change header "SAF_SMFNO" to "SMF_NO".

In the syntax diagram, *change* "SAF_SMFNO" to "SMF_NO".

Change description entry header "SAF_SMFNO" to "SMF_NO".

Subsection 'Facilities for customizing the FMN2PARM member' (page 424)

Change the first bullet, from "the current zOS system ID" to "the current z/OS system ID".

Subsection 'Included members' (page 426)

Change the last paragraph, from:

Care should be used when selecting member names for included members, to avoid any conflicts with other member names that might exist in other libraries in the logical parmlib concatenation. This applies only when FMN2POPT controlled auditing (see “Defining the FMN2PARM member” on page 136 for more information) is used to add the FMN2PARM member to the logical parmlib concatenation.

To:

If you used Method 1 to add member FMN2PARM to the logical parmlib concatenation (see “Defining the FMN2PARM member” on page 136 for more information), be careful to avoid any conflicts between included member names and existing member names in the logical parmlib concatenation.

Section 'FM/CICS Options specified in FMN3PARM' (page 428)

Delete the paragraph

FM/CICS will not start unless the FMN3PARM PARMLIB member is present.

Subsection 'FMAUDIT' (page 428)

Change header “SAF_SMFNO” to “SMF_NO”.

In the syntax diagram, *change* “SAF_SMFNO” to “SMF_NO”.

Change description entry header “SAF_SMFNO” to “SMF_NO”.

Subsection 'Facilities for customizing the FMN3PARM member' (page 430)

Change the first bullet, from “the current zOS system ID” to “the current z/OS system ID”.

Subsection 'Included members' (page 432)

Change the last paragraph, from:

Care should be used when selecting member names for included members, to avoid any conflicts with other member names that might exist in other libraries in the logical parmlib concatenation. This applies only when FMN3POPT controlled auditing (see “Defining the FMN3PARM member” on page 257 for more information) is used to add the FMN3PARM member to the logical parmlib concatenation.

To:

If you used Method 1 to add member FMN3PARM to the logical parmlib concatenation (see “Defining the FMN3PARM member” on page 257 for more information), be careful to avoid any conflicts between included member names and existing member names in the logical parmlib concatenation.

User's Guide and Reference (SC19-3134-02)

Change #2: March 2013

Chapter 17, "File Manager messages"

To the section "Messages" on page 1177, *add* this message:

FMNBA719 Change failed

Explanation: The File Manager Find/Change utility could not change one or more strings because:

- The change string is longer than the find string and there is insufficient space in the record to accommodate the change string.

- An attempt is being made to change a VSAM KSDS key field, The key field will be identified with a 'K' next to the record number in the report.

User response: Change the find or change string to avoid the problem.

Change #1 October 2012

Chapter 17, "File Manager messages"

To the section "Messages" on page 1177, *add* this message:

FMNBE719 Change failed

Explanation: The Find/Change utility has terminated with a nonzero return code.

User response: The explanation of the associated return code can be found in "FCH (Find/Change)" on page 1025.

User's Guide and Reference for DB2 Data (SC19-3135-01)

Change #1 July 2012

Chapter 9, "Printing"

Figures 61 to 65 (pages 266 to 269) have been updated.

```

  _Process  _Options  _Help
-----
Print Browse          USER1A.FMN.LIST1          Rec 1 of 60
                        Record 1          Col 2          Format CHAR
---+---10---+---2---+---3---+---4---+---5---+---6---+---7---+---8
IBM File Manager for z/OS DB2 Component
Key   Column          Data
-----
Printed record number - 1

PU    EMPNO            000010
                        FFFFFFFF
                        000010

      FIRSTNME        CHRISTINE<
                        CCDCECDC
                        389923955

      MIDINIT         I
                        C
                        9

Command ==>
F1=Help  F2=Split  F3=Exit  F4=Print  F5=RFind  F6=Purge  F7=Up
F8=Down  F9=Swap   F10=Left F11=Right F12=Cancel
Scroll PAGE
```

Figure 61. Sample printed output from RD primary command (SNGL display format)

```

  _Process  _Options  _Help
-----
Print Browse          USER1A.FMN.LIST1          Rec 1 of 6
                        Record 1          Col 2          Format CHAR
---+---10---+---2---+---3---+---4---+---5---+---6---+---7---+---8
IBM File Manager for z/OS DB2 Component
EMPNO  FIRSTNME  MIDINIT  LASTNAME  WORKDEPT  PHONENO  HIREDATE  JOB
CH(6)  VARCHAR(12) CH(1)    VARCHAR(15) CH(3)    CH(4)    DATE      CH(8)
PU--> <---+---1-> - <---+---1-> <-N <-> <---+---> <---+--->
000010 CHRISTINE< I HAAS< A00 3978 01.01.1965 PRES
FFFFFF CCDCECDC C CCCE CFF FFFF FF4FF4FFFF DDCE4444
000010 389923955 9 8112 100 3978 01B01B1965 79520000

**** End of data ****

Command ==>
F1=Help  F2=Split  F3=Exit  F4=Print  F5=RFind  F6=Purge  F7=Up
F8=Down  F9=Swap   F10=Left F11=Right F12=Cancel
Scroll PAGE
```

Figure 62. Sample printed output from RD primary command (TABL display format)

```

  _Process  _Options  _Help
-----
Print Browse          USER1A.FMN.LIST1          Rec 1 of 19
                        Record 1          Col 2          Format CHAR
---+---10---+---2---+---3---+---4---+---5---+---6---+---7---+---8
Printed record number - 1

PU   EMPNO          000010
     FIRSTNAME     CHRISTINE<
     MIDINIT       I
     LASTNAME      HAAS<
  N   WORKDEPT      A00
     PHONENO       3978
     HIREDATE      01.01.1965
     JOB           PRES
     EDLEVEL       18
     SEX           F
     BIRTHDATE     14.08.1933
     SALARY        52750.00
     BONUS         1000.00
     COMM          4220.00

Command ==>          Scroll PAGE
F1=Help  F2=Split  F3=Exit  F4=Print  F5=RFind  F6=Purge  F7=Up
F8=Down  F9=Swap   F10=Left F11=Right F12=Cancel

```

Figure 63. Sample printed output from RP primary command (SNGL display format)

```

  _Process  _Options  _Help
-----
Print Browse          USER1A.FMN.LIST1          Rec 1 of 6
                        Record 1          Col 2          Format CHAR
---+---10---+---2---+---3---+---4---+---5---+---6---+---7---+---8
IBM File Manager for z/OS DB2 Component
EMPNO  FIRSTNAME  MIDINIT  LASTNAME  WORKDEPT  PHONENO  HIREDATE  JOB
CH(6)  VARCHAR(12)  CH(1)   VARCHAR(15)  CH(3)    CH(4)    DATE      CH(8)
PU-->  <-----1->  -      <-----1----->  <-N      <->      <----->  <----->
000010 CHRISTINE<  I      HAAS<      A00      3978      01.01.1965  PRES
****  End of data  ****

Command ==>          Scroll PAGE
F1=Help  F2=Split  F3=Exit  F4=Print  F5=RFind  F6=Purge  F7=Up
F8=Down  F9=Swap   F10=Left F11=Right F12=Cancel

```

Figure 64. Sample printed output from RP primary command (TABL display format)

```

  _Process  _Options  _Help
-----
Print Browse          USER1A.FMN.LIST1          Rec 1 of 30
                        Record 1          Col 2          Format CHAR
---+---10---+---2---+---3---+---4---+---5---+---6---+---7---+---8
IBM File Manager for z/OS DB2 Component
EMPNO  FIRSTNME  MIDINIT  LASTNAME  WORKDEPT  PHONENO  HIREDATE  JOB
CH(6)  VARCHAR(12)  CH(1)    VARCHAR(15)  CH(3)     CH(4)    DATE      CH(8)
PU--> <---+---1---> -      <---+---1---> <-NF      <--->     <---+---> <---+--->
000010 CHRISTINE<  I      HAAS<    A00      3978     01.01.1965  PRES
000020 MICHAEL<   L      THOMPSON< B01     3476     10.10.1973  MANAGER
000030 SALLY<     A      KWAN<    C01     4738     05.04.1975  MANAGER
000050 JOHN<    B      GEYER<   E01     6789     17.08.1949  MANAGER
000060 IRVING<   F      STERN<   D11     6423     14.09.1973  MANAGER
000070 EVA<     D      PULASKI< D21     7831     30.09.1980  MANAGER
000090 EILEEN<   W      HENDERSON< E11     5498     15.08.1970  MANAGER
000100 THEODORE< Q      SPENSER< E21     0972     19.06.1980  MANAGER
000110 VINCENZO< G      LUCCHESI< A00     3490     16.05.1958  SALESREP
000120 SEAN<     O'CONNELL< A00     2167     05.12.1963  CLERK
000130 DOLORES<  M      QUINTANA< C01     4578     28.07.1971  ANALYST
000140 HEATHER< A      NICHOLLS< C01     1793     15.12.1976  ANALYST
Command ==>>>
F1=Help  F2=Split  F3=Exit  F4=Print  F5=RFind  F6=Purge  F7=Up
F8=Down  F9=Swap  F10=Left F11=Right F12=Cancel

```

Figure 65. Print Browse: sample output

Chapter 15, "FM/DB2 panels and fields"

In the section "Set Print Processing Options panel" on page 735 of the PDF, *remove* the "Dump format" section from the panel. This involves removing these words from the middle of the panel:

```

Dump format
1 1. Updown
2. Across

```

On page 736, *remove* the description for "Dump format".

User's Guide and Reference for IMS Data (SC19-3136-01)

There are no general documentation changes.

User's Guide and Reference for CICS (SC19-3137-01)

There are no general documentation changes.

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