

File Manager for z/OS



# User's Guide and Reference for CICS

*Version 13 Release 1*

**Note**

Before using this document, read the general information under “Notices” on page 123.

**First Edition (October 2013)**

This edition applies to Version 13 Release 1 Modification Level 0 of IBM File Manager for z/OS (program number 5655-Q12) and to all subsequent releases and modifications until otherwise indicated in new editions.

IBM welcomes your comments. For information on how to send comments, see “How to send your comments to IBM” on page viii.

This publication is available on the Web at:

[www.ibm.com/software/awdtools/filemanager/](http://www.ibm.com/software/awdtools/filemanager/)

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# Contents

<b>About this document</b>	<b>v</b>
Who should use this document	v
How to read syntax diagrams	vi
How to send your comments to IBM	viii
If you have a technical problem.	ix

<b>Summary of changes</b>	<b>xi</b>
---------------------------	-----------

---

## Part 1. Working with FM/CICS . . . . 1

### Chapter 1. FM/CICS overview . . . . . 3

### Chapter 2. Getting started with FM/CICS 5

Starting FM/CICS	5
Checking your FM/CICS version	7
Checking the level of connected CICS systems	8
Exiting from FM/CICS	9
Using the FM/CICS interface.	9
Moving from panel to panel.	10
Showing more information on a panel	10
Scrollable input and display fields for long names	11
Issuing commands	12
Specifying resource names	12
Specifying a data set and a member name	13
Specifying quoted strings.	18
Using hexadecimal values in FM/CICS	18
Getting help	19
Displaying field help information	19
Accessing Tutorial Help	20
Viewing error messages	22
Customizing your FM/CICS session	22
Hiding or showing PF key descriptions	22
Changing terminal characteristics	23
Changing panel colors, intensity, and highlighting	24
Changing the current key list values	24
Setting your default processing options	24
Setting your System Processing Options	26
Running File Manager "base" functions against CICS resources	26
Specifying resource names in File Manager for z/OS ("base").	26
Running File Manager IMS component under FM/CICS	27
Running File Manager DB2 component under FM/CICS	27

### Chapter 3. Viewing and changing CICS resources . . . . . 29

Editing CICS files	31
Editing temporary storage	32
Editing transient data queues	33
Locking your CICS resource.	33

### Chapter 4. Working with FM/CICS utilities. . . . . 35

### Chapter 5. Printing a CICS resource . . 37

### Chapter 6. Working with lists of CICS resources . . . . . 39

Finding a string in a selection list	39
Controlling the starting point, direction and extent of the search.	39
Searching the current primary sort order column	40
Viewing queue names with unprintable characters	40
Refreshing the current selection list	41
Changing resource attributes	41
Selecting items from a display list	41
Initiating an FM/CICS Browse editor session from a display list	41
Sorting a CICS selection list	42

### Chapter 7. Working with CICS enqueues . . . . . 45

Invocation and execution.	45
Displaying additional CICS attributes.	46
Purging CICS tasks.	46

### Chapter 8. Messages. . . . . 47

Format of numbered messages	47
File Manager messages	48
FM/CICS logon and message log messages.	49

---

## Part 2. FM/CICS reference . . . . . 55

### Chapter 9. FM/CICS primary commands 57

General primary commands	57
CUAATTR primary command	57
DX primary command.	57
KEYS primary command	58
PFSHOW primary command	58
SETTINGS primary command	59
VER primary command	59
VERCICS primary command	59
XD primary command.	60
Selection list primary commands	60
FIND primary command	60
HEX primary command	61
LOCATE primary command.	61
REFRESH primary command	61
RFIND primary command	62
SELECT primary command	62
SORT primary command	63

### Chapter 10. FM/CICS panels and fields 65

Browse Entry panels	65
---------------------	----

Change CUA Attributes panel . . . . .	70
CICS Enqueue Resource panel . . . . .	71
CICS Enqueue Selection List panel . . . . .	73
CICS File Selection List panel . . . . .	75
CICS Temporary Storage Selection List panel . . . . .	77
CICS Transient Data Queue Selection List panel . . . . .	78
Edit Entry panels . . . . .	81
Extrapartition Queue panel . . . . .	83
File Information panel . . . . .	86
File Manager for CICS Logon panels . . . . .	90
FMN Keylist Change panel . . . . .	92
Intrapartition Queue panel . . . . .	93
IPDCC Settings panel . . . . .	95
List CICS Resources Entry panel . . . . .	97
Primary Option Menu panels . . . . .	98
Print Entry panels . . . . .	101
Set Processing Options panel . . . . .	106
Utility Functions panel . . . . .	108
View Entry panels . . . . .	109

## **Part 3. Appendixes . . . . . 115**

### **Support resources and problem solving information . . . . . 117**

Searching IBM support Web sites for a solution . . . . .	117
Searching the information center . . . . .	117

Searching product support documents . . . . .	117
IBM Support Assistant . . . . .	118
Obtaining fixes . . . . .	118
Receiving support updates through e-mail notification . . . . .	119
Receiving support updates through RSS feeds . . . . .	120
If you need to contact IBM Software Support . . . . .	120
Determining the business impact . . . . .	121
Describing problems and gathering information . . . . .	121
Submitting problems . . . . .	122

### **Notices . . . . . 123**

Programming interface information . . . . .	125
Trademarks . . . . .	125

### **Bibliography . . . . . 127**

File Manager publications . . . . .	127
Related publications for Problem Determination Tools . . . . .	127
Related publications for COBOL . . . . .	127
Related publications for PL/I . . . . .	127
Related publications for CICS . . . . .	127
Related publications for z/OS . . . . .	127

### **Index . . . . . 129**

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## About this document

This document provides guidance and reference information for users of File Manager for CICS® Component.

In the rest of this document, the term FM/CICS refers to File Manager for CICS Component.

In addition, reference is made to the PDTCC Server, which refers to the IBM® Problem Determination Tools Common Component Server.

File Manager for z/OS® contains four “flavors” of File Manager, for working in different environments or with different data formats:

- **FM/CICS** (*described in this document*) for working with CICS resources.
- **File Manager “base”** for working with QSAM data sets, VSAM data sets or PDS members
- **DB2® Component** for working with DB2 data
- **IMS™ Component** for working with IMS data

The information in this document is primarily focussed on the difference between FM/CICS and File Manager “base”. You should use this document in conjunction with the *File Manager User’s Guide and Reference*.

This document is divided into three parts:

### Part 1. Working with FM/CICS

Describes the concepts inherent within FM/CICS. For a complete description of a particular FM/CICS panel, field, or command, you should use the appropriate chapter in **Part 2 FM/CICS reference**.

### Part 2. FM/CICS reference

Provides a lookup reference for FM/CICS commands and panels.

### Part 3. Appendixes

This part provides information about IBM Web sites that can help you answer questions and solve problems, notices, bibliography, and index.

This document describes only the **FM/CICS Component**. For more information about the File Manager “base”, DB2 Component, IMS Component, see the following books:

- *File Manager User’s Guide and Reference*
- *File Manager User’s Guide and Reference for DB2 Data*
- *File Manager User’s Guide and Reference for IMS Data*

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## Who should use this document

This document is for three kinds of File Manager users:

- Application programmers who need to test and debug programs
- Service support personnel who need to analyze and fix problems
- System administrators and system operators who need to do routine tasks such as moving large amounts of data

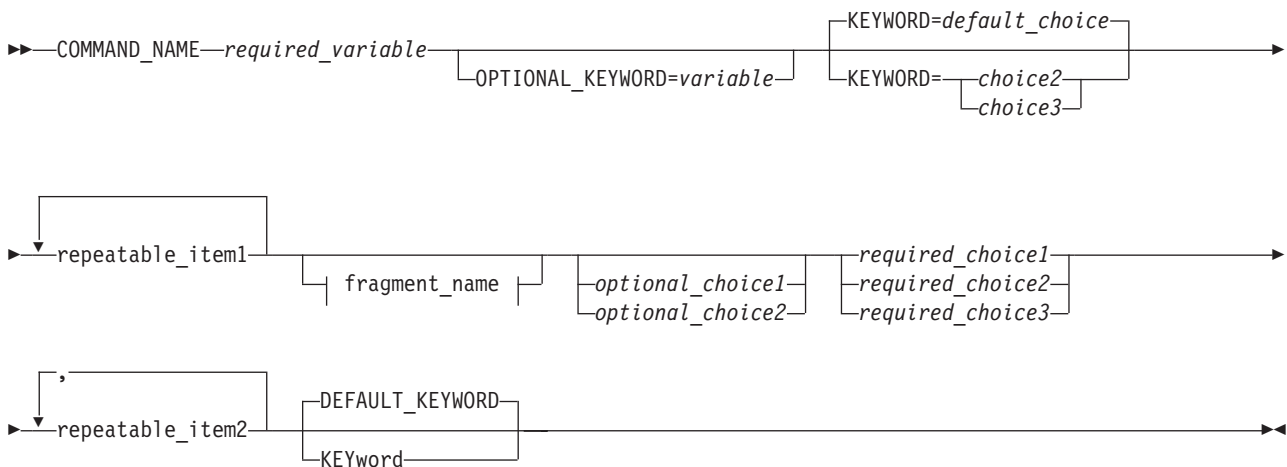
## How to read syntax diagrams

The syntactical structure of commands described in this document is shown by means of syntax diagrams.

Figure 1 shows a sample syntax diagram that includes the various notations used to indicate such things as whether:

- An item is a keyword or a variable.
- An item is required or optional.
- A choice is available.
- A default applies if you do not specify a value.
- You can repeat an item.

### Syntax



### fragment\_name:

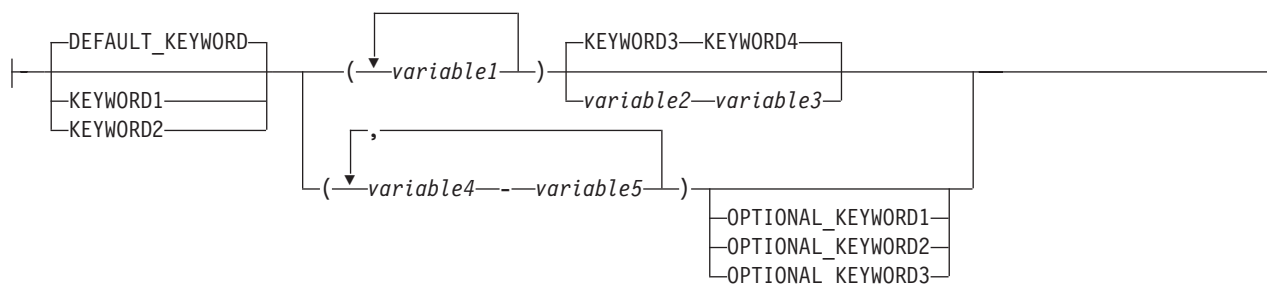


Figure 1. Sample syntax diagram

Here are some tips for reading and understanding syntax diagrams:

#### Order of reading

Read the syntax diagrams from left to right, from top to bottom, following the path of the line.

The ▶▶ symbol indicates the beginning of a statement.

The  $\longrightarrow$  symbol indicates that a statement is continued on the next line.

The  $\blacktriangleright$  symbol indicates that a statement is continued from the previous line.

The  $\longrightarrow\blacktriangleleft$  symbol indicates the end of a statement.

### Keywords

Keywords appear in uppercase letters.

$\blacktriangleright$ —COMMAND\_NAME— $\longrightarrow\blacktriangleleft$

Sometimes you only need to type the first few letters of a keyword, The required part of the keyword appears in uppercase letters.

$\blacktriangleright$   $\left\{ \begin{array}{l} \text{DEFAULT\_KEYWORD} \\ \text{KEYword} \end{array} \right.$  — $\longrightarrow\blacktriangleleft$

In this example, you could type "KEY", "KEYW", "KEYWO", "KEYWOR" or "KEYWORD".

The abbreviated or whole keyword you enter must be spelled exactly as shown.

### Variables

Variables appear in lowercase letters. They represent user-supplied names or values.

$\blacktriangleright$ —*required\_variable*— $\longrightarrow\blacktriangleleft$

### Required

**items** Required items appear on the horizontal line (the main path).

$\blacktriangleright$ —COMMAND\_NAME—*required\_variable*— $\longrightarrow\blacktriangleleft$

### Optional

**items** Optional items appear below the main path.

$\blacktriangleright$   $\left\{ \begin{array}{l} \text{OPTIONAL\_KEYWORD=variable} \end{array} \right.$  — $\longrightarrow\blacktriangleleft$

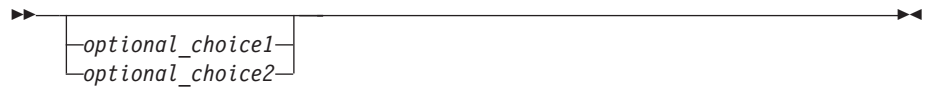
### Choice of

**items** If you can choose from two or more items, they appear vertically, in a stack.

If you *must* choose one of the items, one item of the stack appears on the main path.

$\blacktriangleright$   $\left\{ \begin{array}{l} \text{required\_choice1} \\ \text{required\_choice2} \\ \text{required\_choice3} \end{array} \right.$  — $\longrightarrow\blacktriangleleft$

If choosing one of the items is optional, the entire stack appears below the main path.



If a default value applies when you do not choose any of the items, the default value appears above the main path.



### Repeatable

**items** An arrow returning to the left above the main line indicates an item that can be repeated.



If you need to specify a separator character (such as a comma) between repeatable items, the line with the arrow returning to the left shows the separator character you must specify.



### Fragments

Where it makes the syntax diagram easier to read, a section or *fragment* of the syntax is sometimes shown separately.



⋮

**fragment\_name:**



## How to send your comments to IBM

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Include the following information:

- Your name and address
- Your email address
- Your telephone or fax number
- The publication title and order number:  
    FM V13R1 User's Guide and Reference for CICS  
    SC19-4122-00
- The topic and page number related to your comment
- The text of your comment.

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## **If you have a technical problem**

Do not use the feedback methods listed above. Instead, do one of the following:

- Contact your IBM service representative
- Call IBM technical support
- Visit the IBM support portal at <http://www.ibm.com/systems/z/support/>



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## Summary of changes

This edition of the document provides information applicable to File Manager Version 13 Release 1.

The source files for this document were migrated from one source type to another. This has resulted in minor formatting adjustments and other changes.



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## **Part 1. Working with FM/CICS**



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## Chapter 1. FM/CICS overview

FM/CICS is a powerful set of utility functions for editing, browsing, printing, and altering the status of CICS resources. The CICS resources supported are files, temporary storage queues, transient data queues, and data tables. If you have the authority, you can also modify the status of the CICS resources. FM/CICS incorporates much of the functionality of File Manager for z/OS ("base") into the CICS environment.

FM/CICS uses IBM Problem Determination Tools Common Components to display panels on CICS with a similar capability to ISPF panels. FM/CICS panels allow you to select options and to specify parameters, commands, and program function (PF) keys to simplify requests for common functions. FM/CICS panels provide full-screen format for information display and editing.

The main functions provided by FM/CICS are:

- The ability to view or edit CICS resources.
- The ability to list CICS resources and change their status and attributes.
- The ability to run File Manager for z/OS ("base") under FM/CICS, hence using it without requiring ISPF. This includes the ability to use FM Base tools and utilities against FM/CICS resources when running under FM/CICS.
- The ability to run File Manager IMS Component (FM/IMS) under FM/CICS, using it without requiring ISPF.

The CICS resources that are supported are:

- Files (VSAM and data tables only).
- Temporary storage queues.
- Transient data queues.





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## Chapter 2. Getting started with FM/CICS

This chapter is designed to help the new user to familiarize themselves with the user interface and general methods for working within FM/CICS panels.

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### Starting FM/CICS

You can invoke FM/CICS:

- By submitting a batch job, or
- Directly (if FM/CICS has been configured to connect to the IBM Problem Determination Tools Common Component Server).

To start FM/CICS:

1. Either, enter the transaction name for File Manager:

*FM userid (invocation options)*

or

To run FM/CICS from another CICS application, code this command:

```
EXEC CICS LINK PROGRAM('FMN3CICS') COMMAREA('FM userid (invocation options)')
```

Where:

**FM**

- For the transaction invocation, this is the default transaction name for File Manager.

**Note:** The default transaction name, FM, may have been changed at your site during installation due to local standards or other reasons. If you change this value, then you must also change the FMN3POPT options module to reflect the current transaction identifier for the (BACKGROUND) option to work.

- For the coded command (when running from another CICS application), this is required and must be the first two characters in the COMMAREA

*userid* Is optional. Each FM/CICS user is required to provide an MVS™ userid and (on the next panel) the password. If you omit the userid then:

- If you have signed on using CESN and the product has been installed with either \*DEFAULT=SIGNON or \*PASSWORD=REMEMBER, then the userid defaults to the signed-on userid.
- If you have not signed on, then you are prompted for a userid before the logon panel is presented.

*invocation options*

These options allow you to specify how you want to invoke FM/CICS. You specify them within parentheses, separated with a space:

**START=BATCH**

Invokes FM/CICS by submitting a batch job. You only need to specify this option if the installation option is set to START=TASK and you want to override it.

### START=TASK

Invokes FM/CICS directly (non-batch). You only need to specify this option if the installation option is set to START=BATCH and you want to override it.

### BACKGROUND

Instructs FM/CICS to run non-terminal processing in a background task.

Once a valid userid has been specified to the FM transaction, FM/CICS displays the File Manager for CICS Logon panel.

#### Note:

- a. There are two forms of the File Manager for CICS Logon panel: one for non-batch invocation of FM/CICS (displayed when START=TASK is in effect at logon), and one for batch invocation of FM/CICS (displayed when START=BATCH is in effect at logon).
  - b. The File Manager for CICS Logon panel is displayed for every user the first time the FM transaction is entered. The logon panel can be bypassed on subsequent invocations of the FM transaction if the \*PASSWORD=REMEMBER install option has been specified, you have already signed on to CICS, and the userid has been omitted when invoking the FM transaction.
2. On the File Manager for CICS Logon panel, enter your password in the **Password** entry field.  
  
The **Password** entry field is normally the only field on the File Manager for CICS Logon panel in which you need to enter details (all the entry fields are prefilled). If this is the case, go to Step 10 on page 7.
  3. To change the current password for the MVS userid, enter the new password in the **New Password** field. The new password must comply with the password rules for your system. If the new password is valid, you are prompted to enter the new password again to confirm. If you enter the same password again, your new password is accepted.
  4. (Batch invocation only.)  
  
If necessary, specify the node on which the job is to run in the **Node** field. A `/*ROUTE XEQ node.user` statement is added after the job card to run the job on the specified machine.
  5. (Batch invocation only.)  
  
If necessary, in the **Procedure** field, specify the procedure name for running File Manager on your system. This must be available from an active procedure library. The installation default procedure is FMN3CICB.
  6. If necessary, in the **Profile data set** field, specify the name of the profile data set to be used to save session information for subsequent invocations. The userid must have access to create and update the specified data set, or the batch job fails. If the data set does not exist, the batch procedure creates it. If the data set exists, it must be a fixed-blocked partitioned data set (preferably a PDSE, if possible) with LRECL of 80.
  7. If necessary, in the **Prefix** field, specify the prefix to be used as the high-level qualifier when specifying unquoted data sets during the File Manager session. If you do not want prefixing on unquoted data set names, leave this field blank.
  8. (Batch invocation only.)  
  
If necessary, in the **Jobcard** entry field lines, edit the jobcard details for the submitted job.

The jobcard can use the following variables which are substituted when the job is submitted:

**&TERM**

The current 1–4 character terminal ID is substituted.

**&USER**

The current 1–7 character MVS userid is substituted.

**Note:**

- a. You can terminate the variable with a period which will also be removed during substitution.
  - b. The jobcard should be unique and assigned to a class where it will run immediately.
9. (Non-batch invocation only.)

**Note:**

- a. The **Port** field shows the port number used to connect to the PDTCC Server.
  - b. The **Host name** field shows the name of the system where the PDTCC Server is running. If it is blank, then FM/CICS obtains and uses the host name of the current system.
10. To submit the batch job that invokes FM/CICS, press Enter.
- When the job is submitted, the logon panel waits for 20 seconds for the job to start and respond. If the job has not responded, it issues a "Job not responding" message. You need to check on the status of the job and either press F5 to wait a further 20 seconds, or press Enter to resubmit the job with any applicable changes. Look up the error message number in the *File Manager User's Guide and Reference* for further information if the job is not responding.
- FM/CICS displays the FM/CICS Primary Option Menu.
11. For View (option 1), Edit (option 2), and Print (option 3.2, reached by means of Utilities, option 3), you must specify the **CICS Resource**. The **CICS Resource** option setting on the Primary Option Menu is not used by the other functions.
12. Select the option you want by typing the corresponding highlighted number on the command line.
- For example, to edit a CICS file:
- a. Set the **CICS Resource** option to 1 (File).
  - b. Type 2 (Edit) in the command line.
  - c. Press Enter.

Related topics

"File Manager for CICS Logon panels" on page 90

"Primary Option Menu panels" on page 98

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## Checking your FM/CICS version

To display the full version information for FM/CICS, enter VER on the command line of any panel. The current FM/CICS version number and the PTF number for each File Manager component is displayed in a window. The window also indicates whether or not FM/CICS is APF-authorized.

Process		Options		Help	
FM/CICS		Primary Option Menu			
IBM File Manager for z/OS Version x Release x CICS Component (not APF authorized)					
Service Levels of installed components					
	Base	IMS	DB2	CICS	IPV
English	xxxxxxx	xxxxxxx	xxxxxxx	xxxxxxx	xxxxxxx
Japanese	xxxxxxx	xxxxxxx	xxxxxxx	xxxxxxx	xxxxxxx
Korean	xxxxxxx	xxxxxxx	xxxxxxx	xxxxxxx	xxxxxxx
PF 1=HELP      2=TOP      3=END      4=RETURN      5=BOTTOM      6=LOCATE PF 7=UP      8=DOWN      9=PRINT      10=LEFT      11=RIGHT      12=CRETRIEV					
Command ==> ver					
F1=Help      F3=Exit      F4=CRetrieV      F7=Backward      F8=Forward      F10=Actions					
F12=Cancel					

Figure 2. Window showing the current FM/CICS version number and PTF information

Related topics

“VER primary command” on page 59

## Checking the level of connected CICS systems

To display the level of connected CICS systems, enter VERCICS on the command line of any panel. The current level for each connected CICS system is displayed in a window.

The VERCICS command queries the version, PTF, and level information of FM/CICS on the local and connected CICS regions. The retrieved information is then compared against the version, PTF, and level of the running File Manager batch job and the results are displayed. Any FM/CICS value that differs from the FM batch job is also highlighted.

Any difference in version, PTF, or level can cause a failure due to services not being available in the downlevel instances. A difference may be due to maintenance not being applied to the FM/CICS instance or the FM/CICS programs may not have been refreshed in the CICS region after maintenance was applied.

Process		Options		Help	
FM/CICS			Primary Option Menu		
			CICS Levels		
IBM File Manager for z/OS Version x Release x CICS Component					
Current PTF: V8GAD4B			Level: 2		
Connected FM/CICS Levels					
Sysid	Applid	Version	PTF	Level	
	xxxxxxx	xxxx	xxxxxxx	x	
xxxx	xxxxxxx	xxxx	xxxxxxx	x	
xxxx	xxxxxxx	xxxx	xxxxxxx	x	
Command ==>					
F1=Help		F3=Exit	F4=CRetriev	F7=Backward	F8=Forward
F12=Cancel		F10=Actions			
F12=Cancel					

Figure 3. Window showing the level of connected CICS systems

In the above example, there are 2 connected CICS regions all at the same level. If the level or version are different, these values are highlighted in *red*. To avoid unforeseen errors, ensure that all connected systems are running the same level of File Manager.

If program FMN3LVL is not available on a connected system, the text "LOAD ERROR condition" is displayed. In this case, check that FMN3LVL can be loaded on the connected CICS region and retry the VERCICS command.

Related topics

"VERCICS primary command" on page 59

## Exiting from FM/CICS

To exit from FM/CICS from the Primary Options Menu panel, do one of the following:

- Press the Exit function key (F3)
- Enter X (or EXIT or END) on the command line
- Select **Process> Exit** from the Action Bar

To exit the application from *any* panel within FM/CICS:

- Enter =X (or =EXIT or =END) on the command line.

## Using the FM/CICS interface

The FM/CICS interface is based upon the ISPF model, using the IBM Problem Determination Tools Common Components. Tasks are performed by processing a function, together with its applicable parameters. Panels provide a user-friendly way of selecting a function and supplying the parameter information.

### Moving from panel to panel

You move from panel to panel in FM/CICS in the same way as you do under ISPF. That is, you launch processing panels from menu panels, by entering the appropriate menu option number on the command line. FM/CICS uses a Primary Options Menu panel to provide access to processing panels that are related to a particular function or group of functions. In some cases, an option on the Primary Options menu leads to another menu panel, from which you can select the required processing panel.

When you know the menu structure well, you can quickly jump to the required panel by entering the full pathway through the menu options. For example, entering 3.2 from the Primary Option Menu panel takes you to one of the Print Entry panels. Entering a relative path in this way allows you "jump over" intermediary panels that you would otherwise need to navigate through.

You can also jump to any FM/CICS panel from any other panel, without having to navigate the menu structure, by using an equals sign (=) to prefix the option number. The equals sign instructs FM/CICS to start the menu navigation from the Primary Options Menu panel and not from your current location. For example, if you are positioned on the Utility Functions panel, entering 2 on the command line displays the Print CICS File Entry panel (option 2 on the current menu), while entering =2 displays the Edit CICS File Entry panel (option 2 on the Primary Options Menu panel).

To access a panel, choose one of the following methods:

- If necessary, navigate your way back to the Primary Option Menu panel (by pressing the Exit function key (F3) one or more times), then type the menu option number on the Command line and press Enter. Repeat for each nested menu until the required processing panel is displayed.
- Type an equals sign followed by the complete menu path to the required panel, separating each menu level with a period, then press Enter.

To exit from any panel, choose one of the following:

- Press the Exit function key (F3).
- Type END on the on the Command line and press Enter.

### Showing more information on a panel

Many FM/CICS panels have more information than can be seen in a single screen, particularly when you are running in 80x24 display. When this happens, a message (More: +) is displayed in the top right corner of the panel.

Process	Options	Help
FM/CICS	Print CICS File Entry Panel	
		More: +
Input CICS VSAM File:		
File name . . . . .		
Sysid . . . . .		
Start key . . . . .		key or slot
Skip count . . . . .		number of records to be skipped
Print count . . . . . ALL		number of records to be printed
:		

Figure 4. Example panel showing "More" message

To scroll down the panel, choose one of these methods:

- Press the Forward function key (F8) (this scrolls down by your default scroll amount, usually one screen at a time).
- Enter DOWN on the command line (this command scrolls down by your default scroll amount, usually one screen at a time).

To scroll back to the top of the panel, choose one of these methods:

- Press the Backward function key (F7) (this scrolls up by your default scroll amount, usually one screen at a time).
- Enter UP on the command line (this command scrolls up by your default scroll amount, usually one screen at a time).

Related topics

“Primary Option Menu panels” on page 98

## Scrollable input and display fields for long names

Some FM/CICS panels have *scrollable fields* that allow you to input or view longer values than can be displayed at the one time.

There are two types of scrollable fields on FM/CICS panels:

### Input fields

The fields on FM/CICS panels where you can *enter* information, such as the start position on the Browse, Edit, or View entry panels.

### Display fields

The fields on FM/CICS panels that *display* information as a result of some action you have taken.

You can recognise a scrollable field by the presence of one of the following adjacent to the end of the entry field:

- + Plus sign. Indicates the field is scrollable to the right
- Minus sign. Indicates the field is scrollable to the left
- +- Plus sign and minus sign. Indicates the field is scrollable to the right or left

If the length of the field displayed on the panel is insufficient for the value you want to input or view, you can either:

- Progressively scroll to the right with the Right function key (F11) or by entering the RIGHT primary command (with the cursor positioned within the field), or
- Press the Expand function key (F4) if available, or enter the EXPAND primary command, to display a pop-up window that allows you to input or view the whole field.

**Note:** For z/OS 1.8 and upward, ZEXPAND is an alias of EXPAND.

In the expand pop-up window, you can toggle the view of the data between character and hex by issuing the commands HEX OFF and HEX ON.

## Deleting data in scrollable input fields

If you want to delete all the data in a field that is displayed as a scrollable input field, take care to ensure that you do, in fact, delete all the data (and not just the displayed data).

## Scrollable input and display fields for long names

If you use the field delete key combination to delete data, FM/CICS deletes only the data that is currently displayed. If the field contains more data than is displayed, the undisplayed data is left undeleted.

It is recommended that, before deleting data in a field that is displayed as a scrollable field, you first display the entire contents of the field by pressing the Expand function key (F4) or entering the EXPAND primary command. You can then use the field delete key combination to delete all data in the field at once.

For more information about working with scrollable fields, see the section "Primary commands for scrollable fields" in the *ISPF Dialog Developer's Guide and Reference*.

## Issuing commands

Within the FM/CICS panels, you can use "primary" and "prefix" commands to instruct FM/CICS to perform an action.

You enter *primary* commands on the command line of FM/CICS panels. On many of these panels, the most commonly used primary commands have been assigned to function keys, also known as Programmable Function keys or PF keys.

Some primary commands are exclusive to a particular panel, although most are available on several panels. Where a command is available on more than one panel, its behavior might differ depending upon the context in which it is used.

You can enter *prefix* commands in the prefix field provided in most panels, and in the prefix area within the Edit panel. Prefix commands are generally exclusive to a panel and details of their operation are provided within each panel description.

Related topics

Chapter 9, "FM/CICS primary commands," on page 57  
"Edit Entry panels" on page 81

## Specifying resource names

Before we describe each function in detail, we need to describe how we specify a CICS resource to File Manager. FM/CICS provides specific functions to process your CICS resources. These are referred to as CICS ONLY functions.

When entering the CICS ONLY resource name, the following applies:

### Resource name

- 1–8 character file name
- 1–16 character temporary storage queue
- 1–4 character transient data queue

The resource name is used in conjunction with SYSID and POOLNAME (TS queues only) to produce a list of matching resources.

You can enter a fully-qualified or generic resource name. In a generic resource, use the percent sign (%) to represent a single character, and an asterisk (\*) to represent any number of characters.

CICS temporary storage and transient data queue names can be mixed-case. Therefore, the resource name input fields for these resource types throughout the FM/CICS interface are case sensitive.

Also, CICS temporary storage queue names can contain unprintable characters. To view or enter the TS queue name in hex, place the cursor on



the queue name input field and enter the EXPAND primary command (or equivalent function key). Enter the HEX ON command from within the expand pop-up panel to view and enter hex values.

### **SYSID**

Default value is blank. This field contains the ID of the CICS systems where the resource resides. A blank value defaults to the local system. You can enter a fully-qualified or generic SYSID. In a generic SYSID, use the percent sign (%) to represent a single character, and an asterisk (\*) to represent any number of characters.

**Note:** FM/CICS can process CICS resources that are owned by a region other than the region where FM/CICS is running if:

- An active connection between the current region where FM/CICS is running and the remote region that owns the resource is active, and
- The FM/CICS program, FMN3CICS, is available on the remote region.

To process a remote CICS resource, you must specify the SYSID that owns the resource on the FM/CICS panels (generics are allowed). A remote definition on the local CICS region for the remote resource is not required by FM/CICS. In addition, specifying a blank SYSID value for a remote CICS resource that is owned by another region causes "not found" condition.

For further information, see the *File Manager Customization Guide*.

### **TS Pool name**

(TS Data sharing only.) Default value is blank. This field is used to specify the pool name of a shared temporary storage pool and temporary storage processing is shipped to a temporary storage server that manages the pool. You can enter a fully-qualified or generic pool name. In a generic pool name, use the percent sign (%) to represent a single character, and an asterisk (\*) to represent any number of characters.

If you specify a **SYSID** value *and* a **TS Pool name**, then a list of queues that match either is produced from which you can select the appropriate queue for processing.

A resource selection list is produced when any one of the following conditions is met:

- A generic resource name is entered
- A generic sysid value is entered
- A generic pool name is entered (temporary storage only)
- A pool name and sysid value are both specified (temporary storage only)

## **Specifying a data set and a member name**

Some FM/CICS panels require you to specify the data set that you wish to use for a copybook or template. When the data set is a PDS or a CA-Panvalet or other external library, you must also specify the member name.

```
:
:
: Copybook or Template:
:   Data set name . . _____
:   Member . . . . . _____ Blank or pattern for member list
:
:
```

Figure 5. Data set name specification fields

To specify your copybook or template:

1. In the **Data set name** field, enter a fully-qualified data set name or a name pattern. The name may include a member name or name pattern in parenthesis. If the member is specified here, the associated **Member** field must be empty.

In the case of a copybook, this can be the name of a CA-Panvalet library or external library accessed using the Library Management System Exit.

If you do not enclose the data set name in quotes, then the default High Level Qualifier (HLQ) is used. The HLQ is specified in the **Prefix** field on the File Manager for CICS Logon panel.

If you enter a pattern, when the panel is processed FM/CICS displays a list of the data sets that match the pattern.

Patterns can contain a percent sign (%) to represent a single character, and an asterisk (\*) to represent any number of characters within one qualifier. Two asterisks (\*\*) represent any number of characters within any number of qualifiers.

For performance reasons, you should qualify the data set name as much as you can.

2. If you specified the name of a partitioned data set (PDS) or a CA-Panvalet or other external library in the **Data set name** field (without including a member name or name pattern in parenthesis), then enter a name or name pattern in the **Member** field.

A member name pattern can consist of any characters that are valid in a member name and the following two special pattern characters:

**asterisk (\*)**

Represents any number of characters. As many asterisks as required can appear anywhere in a member name. For example, if you enter \*d\*, a list of all members in the data set whose name contains "d" is displayed.

**percent sign (%)**

A place-holding character representing a single character. As many percent symbols as necessary may appear anywhere in a member name. For example, if you enter %%%%, a list of all members in the data set whose name is four characters in length is displayed.

If you perform either of these actions:

- Do not include a member name or name pattern in parenthesis in the **Data set name field**, and leave the **Member** field blank or you specify a pattern in the **Member** field,
- Include a member name pattern in parenthesis in the **Data set name field** and leave the **Member** field blank,

FM/CICS displays a member name list when the panel is processed and the data set has been specified or selected.

3. Complete the remaining panel-specific fields, and then press Enter to process the panel function.

If both the data set name and the member name have been fully specified, the panel action proceeds to its next stage.

If you entered a pattern for the data set name or member name, the data set selection panel is displayed, followed by the member selection panel, as needed. When you have made your selections from these panels, the Entry panel action proceeds to its next stage.

4. When the data set selection panel is displayed, select your data set by entering an S in the **Sel** field adjacent to the required data set. You can only select one name from this list.
5. When the member selection panel is displayed, select a member by typing an S in the **Sel** field next to the member or with the SELECT primary command, and then pressing Enter.

Because you are selecting a copybook or template, you select only one name.

**Note:**

- a. To reset values entered in the prefix area that have not yet been processed, use the RESET primary command.
  - b. To re-read the directory and display the current member list, use the REFRESH primary command.
6. When you are selecting a member, you might find it useful to sort the list of displayed members. To do this, perform one of these actions:
    - Use the SORT primary command to sort the member list by up to two of the displayed columns. The field names are the column headings. For example, SORT SIZE CREATED sorts the list of members first by size and then by the date created.
    - Place the cursor on the column header of the column you want to sort and press Enter.

**Note:** When you sort members, the sequence (ascending or descending) for a given column is predetermined and consistent with ISPF.

### Examples of data set name patterns

The examples below assume that the following data sets exist under the USERID high-level qualifier:

```
USERID.FMN.DATA
USERID.FMN.TEMPLATES
USERID.COBOL.COPY
USERID.COBOL.SOURCE
USERID.PLI.COPY
USERID.PLI.SOURCE
USERID.MISC.DATA.BACKUP
USERID.WORK
```

#### Example 1

Entering the following pattern (with a single asterisk):

```
'USERID.*'
```

displays the only item with exactly one level of qualifier after USERID:

```
USERID.WORK
```

#### Example 2

Entering the following pattern (with two asterisks):

## Specifying resource names

```
'USERID.**'
```

displays the complete list of data sets with the USERID high-level qualifier.

### Example 3

Entering the following pattern:

```
'USERID.*.%%%'
```

displays the following list (containing those data sets with exactly three qualifiers, whose third-level qualifier contains exactly four characters):

```
USERID.FMN.DATA  
USERID.COBO.L.COPY  
USERID.PLI.COPY
```

### Examples of specifying a member name or pattern

The examples below assume that the following members exist within the data set name, FMNUSER.DATA:

```
DATA1  
FMNCDATA  
FMNCTAM  
FMNCTEM  
FMNCTMP  
NEWDATA  
NEWSTUFF  
TEMPA  
TEMPB
```

### Example 1

Entering the following details on a panel:  
displays the entire member name list:

```
:  
:  
Data set name . . . . . FMNUSER.DATA  
Member . . . . . _____  
:  
:
```

```
DATA1  
FMNCDATA  
FMNCTAM  
FMNCTEM  
FMNCTMP  
NEWDATA  
NEWSTUFF  
TEMPA  
TEMPB
```

### Example 2

Entering the following details on a panel:

:

:

Data set name . . . . . FMNUSER.DATA

Member . . . . . FMNCT\*

:

:

displays the member name list:

FMNCTAM  
FMNCTEM  
FMNCTMP

Example 3

Entering the following details on a panel:  
uses the specified template or cookbook NEWDATA in data set FMNUSER.DATA.

:

:

Data set name . . . . . FMNUSER.DATA(NEWDATA)

Member . . . . .

:

:

Example 4

Entering the following details on an Entry panel:  
displays the member name list:

:

:

Data set name . . . . . FMNUSER.DATA(TEM\*)

Member . . . . .

:

:

TEMPA  
TEMPB

Example 5

Entering the following details on a panel:  
displays the entire member name list:

:

:

Data set name . . . . . FMNUSER.DATA(\*)

Member . . . . .

:

:

DATA1  
FMNCDATA  
FMNCTAM  
FMNCTEM  
FMNCTMP  
NEWDATA  
NEWSTUFF  
TEMPA  
TEMPB

### Specifying quoted strings

Throughout the FM/CICS interface, there are places where you need to specify a *quoted string*, for example, fully qualified data set names. In these situations, you can use either the double quotation symbol ("), also called simply a quotation mark, or the single quotation symbol ('), also called an apostrophe. However, you must use matching symbols to open and close the quoted string. For example:

`"fmndata.test1"` and `'fmndata.test1'`

are both legitimate ways to specify a data set, but

`"fmndata.test1'` or `'fmndata.test1"`

are rejected.

The simplest way to include an apostrophe or quotation symbol as a character is to use the opposite character as the string delimiters. For example:

`"it's"`

OR

`'he said, "hello"'`

When your string contains a mix of apostrophes and quotation marks, use two consecutive quotation marks (") to represent a " character within a string delimited by quotation marks, or two consecutive apostrophes (') to represent a ' character within a string delimited by single quotation marks. For example, to find the string, "he said, "Take it it's yours.", you would type:

`FIND 'he said, "Take it it''s yours."`

**Note:** This document uses the words *quotation marks*, or *quotes* to mean either " or '.

### Using hexadecimal values in FM/CICS

In many FM/CICS panels, you can view and enter decimal values as text characters or as hexadecimal values. To help you quickly convert decimal values to hexadecimal or hexadecimal values to decimal values, FM/CICS provides a simple converter tool, in the form of two primary commands.

To convert a decimal value to its equivalent hexadecimal value:

1. On the command line of any panel, enter DX followed by the decimal value.  
FM/CICS displays the results in a message at the bottom of your screen.

For example, if you enter the following on a FM/CICS command line:

`DX 10`

then FM/CICS displays this message box:

Dec 10 = hex 0000000A

To convert a hexadecimal value to its equivalent decimal value:

1. On the command line of any panel, enter XD followed by the hexadecimal value.  
FM/CICS displays the results in a message at the bottom of your screen.

For example, if you enter the following on a FM/CICS command line:

XD 10

then FM/CICS displays this message box:

Hex 00000010 = dec 16
-----------------------

Related topics

“DX primary command” on page 57

“XD primary command” on page 60

---

## Getting help

FM/CICS offers two levels of help information: context-sensitive field information and Tutorial Help. The field help information provides a description of your current field, lists the valid values or range of values that can be entered, and gives the default field value where applicable. Tutorial Help is a context-sensitive help system that provides detailed explanations of the FM/CICS panels and the processes in which they are used. In addition, all error messages have an associated full text explanation, which can help you to determine the cause of a problem.

### Displaying field help information

To display the field help information:

1. Place your cursor on the field entry line.
2. Press the Help function key (F1). The field help information is displayed in a pop-up window.

If further information is needed, press the Extended Help function key (F5), to access the Tutorial Help page for the current panel.

Pressing Help while the field information window is displayed takes you to the Help Tutorial page within the Tutorial Help system (that is, the page that describes how to use Tutorial Help).

3. When you have finished reading the message or the relevant Tutorial Help page, press the Exit function key (F3) to return to your starting panel.

For example, Figure 6 on page 20 shows the message seen when F1 is pressed from the **Sysid** field in the Edit CICS File Entry panel.

Process	Options	Help
FM/CICS Edit CICS File Entry Panel		
Input CICS VSAM File:		
File name . . . . .	_____	
Sysid . . . . .	_____	CICS Sysid _____
Start posit		
Record limi		
Inplace edi		
Lock resour		
Copybook or Te		
Data set na		
Member . .		
Processing Opt		
Copybook/temp		
3 1. Above		
2. Previou		
3. None		
4. Create		
Command ==>		
F1=Help F3		
F11=Right F12=Cancel		

Sysid (Default blanks) This field contains the ID of the CICS system(s) where the resource resides. A blank value will default to the local system. You can enter a fully qualified or generic sysid. In a generic sysid use the % sign to represent a single character, and an asterisk \* to represent any number of characters.

F1=Help F3=Exit F4=Resize F5=Ex-help F6=Keyshelp  
F7=PrvPage F8=NxtPage F10=PrvPage F11=NxtPage

Figure 6. Field help information for the Sysid field

## Accessing Tutorial Help

The Tutorial Help system is both context-sensitive and structurally organized. You can get directly to the information you need, using the context-sensitive access method or you can enter the Help system at a specific location and navigate to any topic information within the structure.

To access a context-sensitive Tutorial Help page:

1. Place your cursor on the Command Line or anywhere in the panel that is outside of a field entry line.
2. Press F1. The Tutorial Help page associated with the current panel is displayed.  
When you access the Tutorial Help in this way, the first page that is displayed may be a main topic page, with a menu listing the associated sub-topics, or it may be a sub-topic page, depending upon the context from which you started.
3. Navigate through the Tutorial Help pages, to find the information you require (see below for a list of navigation commands).
4. When you have finished, press F3 (Exit) to return to your starting panel.

The Tutorial Help system is organized with a Table of Contents structure that is based upon the FM/CICS Primary Options menu. Each entry within the Table of Contents leads to a main topic with a number of associated sub-topics. In addition, there is an index that lists selected topics from the Tutorial Help, alphabetically by subject.

To choose your starting point in Tutorial Help:

1. Select the Help pull-down menu from any panel Action Bar.
2. Enter the option number for the Tutorial Help entry point that you require.  
These are:



### 1. Help for help

Displays the Help panel for the Tutorial Help system.

### 2. Extended help

Displays the Tutorial Help panel associated with the current FM/CICS panel (equivalent to pressing F1 from the FM/CICS panel). When on the Primary Options menu, this is the Tutorial Help Table of Contents panel.

### 3. Keys help

Displays a panel that provides help for the Function Keys that are active on the current FM/CICS panel.

### 4. Help index

Displays the Help Index.

### 5. Tutorial

Displays the Tutorial Help Table of Contents panel.

### 6. About

Displays the FM/CICS version and release information in a pop-up window.

### 7. News about FM/CICS

Displays a panels providing general information about the current FM/CICS version/release.

To navigate Tutorial Help, enter one of the following commands in the Command line on any Tutorial page:

#### **BACK or B**

To back up to the previously viewed page.

#### **SKIP or S**

To skip the current topic and go on to the next topic.

#### **UP or U**

To display a higher level list of topics.

#### **TOC or T**

To display the Table of Contents.

#### **INDEX or I**

To display the Tutorial Index. Once the Index has been displayed, use the RIGHT (F11) and LEFT (F10) keys to scroll through the list, then position your cursor on a subject and press ENTER (Ctrl) to display the topic.

Alternatively, you may use the following keys whenever you are in the tutorial:

#### **ENTER (Ctrl)**

To display the next sequential page within a topic.

#### **HELP (F1)**

To display the Help Tutorial page within the Tutorial Help system (that is, the page that describes how to use Tutorial Help).

#### **END (F3)**

To terminate the tutorial.

#### **UP (F7)**

To display a higher level list of topics (instead of typing UP ).

#### **DOWN (F8)**

To skip to the next topic (instead of typing SKIP ).

## Specifying resource names

### RIGHT (F11)

To display the next sequential page within a topic (instead of pressing ENTER ).

### LEFT (F10)

To display the previous sequential page within a topic (instead of typing BACK ).

**Note:** The listed keys are the default key mappings. As you can customize key mappings, they may be different on your system.

## Viewing error messages

If an error occurs when FM/CICS attempts to process a panel, a short text message displays in the upper right corner of the screen. While this message is displayed, pressing F1 displays the expanded text of the error message at the bottom of the screen.

Figure 7 shows the short text message "Empty print data set" (in upper right corner) with the expanded text (shown in bold) at the bottom of the screen.

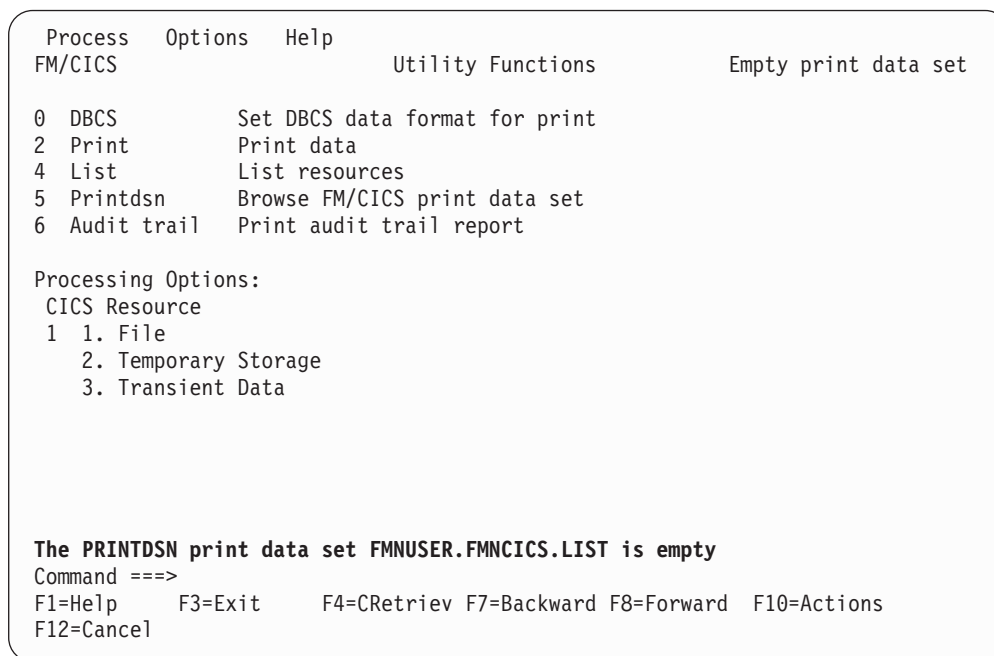


Figure 7. Utility Functions panel showing expanded message

## Customizing your FM/CICS session

You can customize FM/CICS so that its behavior is best suited to your needs. The following sections describe how you can change your screen layout and function key values.

### Hiding or showing PF key descriptions

Use the PFSHOW primary command (from any FM/CICS panel) to either show or hide the PF key descriptions on FM/CICS panels.

- To *show* the PF key descriptions, type PFSHOW ON on the command line and press Enter.

- To *hide* the PF key descriptions, type PFSHOW OFF on the command line and press Enter.
- To *toggle* between showing or hiding the PF key descriptions, type PFSHOW on the command line and press Enter.

Related topics

“PFSHOW primary command” on page 58

## Changing terminal characteristics

Use the SETTINGS primary command (from any FM/CICS panel) to change various options and terminal characteristics that affect the way information is displayed on your screen.

You can enter the SETTINGS primary command directly, or select it from the Options pull-down menu.

When you enter the SETTINGS primary command, FM/CICS displays the IPDCC Settings panel.

On the IPDCC Settings panel, set the IBM Problem Determination Tools Common Components settings according to your needs:

### Command line at bottom

Enter a "/" to place the command line and long message line at the bottom of your panel. Deselecting the option places the command line and long message line as they are specified in your panel definition (usually at the top of the panel).

### Panel display CUA mode

Enter a "/" to display the panel in CUA mode. Action bars are displayed. The action bars are not displayed if you deselect the option.

### Tab to action bar choices

Enter a "/" to use the Tab key to position the cursor on action bar choices when not running in GUI mode.

Replace the "/" with a blank to NOT use the Tab key to position the cursor on action bar choices.

### Graphic border

If the action bar separator line or borders are not displayed correctly, you can force dotted lines by deselecting the graphic border option.

### Screen format

Specify the screen format you require by typing a value (1–3).

**Note:** Changing to 24x80 (STD) display may not change the screen size for expandable panels that have been previously displayed with the DATA or MAX option.

### Terminal type

Specify the terminal type you require by typing a value (1–2).

Related topics

“SETTINGS primary command” on page 59

“IPDCC Settings panel” on page 95

### Changing panel colors, intensity, and highlighting

Use the CUAATTR primary command (from any FM/CICS panel) to adjust panel colors, intensity, and highlighting.

When you enter the CUAATTR primary command, FM/CICS displays the Change CUA Attributes panel.

On the Change CUA Attributes panel, you can change the existing values by overtyping with any of the following values:

Color	Intensity	Highlight
RED	HIGH	NONE
PINK	LOW	BLINK
GREEN		REVERSE
YELLOW		USCORE
BLUE		
TURQ (turquoise)		
WHITE		

To restore a default value, clear the field and press Enter. To restore all default values, press F2 (Reset).

Related topics

“CUAATTR primary command” on page 57

“Change CUA Attributes panel” on page 70

### Changing the current key list values

Use the KEYS primary command (from any FM/CICS panel) to display and modify the keys for the current function.

When you enter the KEYS primary command, FM/CICS displays the FMN Keylist Change panel.

On the FMN Keylist Change panel, set the keys for the current function according to your needs.

Related topics

“KEYS primary command” on page 58

“FMN Keylist Change panel” on page 92

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## Setting your default processing options

Many of the processing operations performed by File Manager utilize default values that can be set from within the FM/CICS application. By adjusting these values, you can customize FM/CICS so that its behavior is best suited to your needs. Your settings for these options are stored in your IBM Problem Determination Tools Common Components profile, and are invoked when you log in, regardless of which workstation you use.

You can update these default values by accessing the relevant processing option panel.

## Setting your default processing options

To access a processing option panel, use any one of the following methods:

- From the Primary Options Menu panel:
  1. Select Option 0 (Settings). The Set Processing Options Menu panel is displayed.
  2. Select the required processing options type from the menu.
- From any FM/CICS panel, use the **Options** pull-down menu to select the required processing options type:

Process	Options	Help
FM/CICS	1. Print settings 2. System settings 3. Compiler language selection 4. COBOL compiler specifications 5. HLASM compiler specifications 6. PL/I compiler specifications 7. Editor options 8. VSAM Edit sharing options 9. Temporary Data Set Allocations 10. Output Data Set Allocations 11. IPDCC settings	User ID . : WAGHORN Appl ID . : FMN3 CICS User : CICSUSER CICS Appl : C62D2FM3 Date. . . : 2008/07/09
0 Settin		
1 View		
2 Edit		
3 Utilit		
4 Templa		
FM FM		
FI FM/IMS		
FD FM/DB2		
X Exit		

Processing Options:  
CICS Resource  
3 1. File  
2. Temporary Storage  
3. Transient Data

Command ==>  
F1=Help F3=Exit F4=CRetriev F7=Backward F8=Forward F10=Actions  
F12=Cancel

Figure 8. Options pull-down menu

- On the command line of any FM/CICS panel, enter an equals sign (=), followed by the option number for the required processing type. For example, to display the Compiler Language Selection panel, enter =0.3.

When you select an option processing type, File Manager displays a panel listing those options and their current values. The following notes apply to all of these option panels:

- To change the value of an option, overwrite its current value.
- To save the options you have changed and exit the panel, press the Exit function key (F3).

Changes are saved in your IBM Problem Determination Tools Common Components user profile for future FM/CICS sessions. They remain in effect until you change the option again.

- To exit a panel without saving changes, press the Cancel function key (F12).
- To reset all options on the panel to their installation defaults, enter RESET on the command line.

### Related topics

“Primary Option Menu panels” on page 98

“Set Processing Options panel” on page 106

### Setting your System Processing Options

You set any of the processing options on the Set Processing Options panel (within FM/CICS) using the File Manager "base" product, if authorized. When you select an option on the Set Processing Options panel, the relevant "base" File Manager panel is displayed.

For example, when you select option 1 (Print) on the Set Processing Options panel (from within FM/CICS), File Manager displays the Set Print Processing Options panel from within "base" File Manager.

To find information about each processing option on the Set Processing Options panel, see the relevant section in the *File Manager User's Guide and Reference* as shown in Table 1.

*Table 1. Sections in the base User's Guide and Reference describing processing options*

To find out more about this option on the FM/CICS Set Processing Options panel...	See this section in the base User's Guide and Reference...
Print	"Printing from File Manager"
System	"Setting your default processing options"
LANG	"Setting your template processing options"
COBOL	"Setting your COBOL processing options"
HLASM	"Setting your HLASM processing options"
PL/I	"Setting your PL/I processing options"
EDIT	"Editor options (option 0.6)"
Sharing	"VSAM edit sharing options (option 0.7)"
Temporary	"Temporary Data Set Allocations (option 0.8)"
Output	"Output Data Set Allocations (option 0.9)"

Related topics

"Set Processing Options panel" on page 106

---

## Running File Manager "base" functions against CICS resources

If you choose the FM option from the Primary Options Menu panel, you start the FM Base product in a CICS environment. The main enhancement provided in the CICS environment is that you can run the FM Base utilities, such as Data Set Copy and Data Set Compare, using CICS resources.

### Specifying resource names in File Manager for z/OS ("base")

The following functions in File Manager for z/OS (option "FM" on the Primary Options Menu panel within FM/CICS) also accept a CICS resource name in the primary data set field as well as the supported MVS data set names.

**Note:** The options below are from the File Manager for z/OS ("base") main menu, not the FM/CICS main menu.

Function	Option
View	1
Edit	2
Data create	3.1

## Running File Manager "base" functions against CICS resources

Function	Option
Print	3.2
Copy	3.3
Find/Change	3.6
Compare	3.11

To distinguish the CICS resource name from an MVS data set name, the following prefixes (including the colon character) are used:

**FI:** CICS file  
**TS:** CICS temporary storage queue  
**TD:** CICS transient data queue

The name following the resource follows the same rules as the resource names described above. For example, you could specify FI:CICSFI01.

**Note:** File Manager for z/OS ("base") functions can only be used with local CICS resources (resources owned by the CICS region running FM/CICS).

A resource selection list is produced when a generic resource name is entered.

Related topics

"Primary Option Menu panels" on page 98

---

## Running File Manager IMS component under FM/CICS

There are no differences between the FM/IMS function running under ISPF and running under CICS. It is especially important to note that File Manager does not access CICS resources related to IMS.

---

## Running File Manager DB2 component under FM/CICS

These File Manager DB2 functions are not available when running under CICS:

- FM/DB2 Object Functions (option 3.2).
- FM/DB2 Utility Job Generation (option 3.9).
- FM/DB2 Interactive DB2 (option 5).
- FM/DB2 line commands EE, VE, and RE which start another FM/DB2 session.

## Running File Manager DB2 component under FM/CICS



## Chapter 3. Viewing and changing CICS resources

To view data stored in a CICS file, use the FM/CICS View Utility or the FM/CICS Edit Utility:

### View Utility

The View Utility (option 1) allows you to view and temporarily change the data, but without the ability to save any changes.

When you initiate the FM/CICS editor with the View Utility, this is referred to as being in a "View editor session" (or just "View").

The view function, similar to ISPF view, provides an editor session that works essentially the same as the Edit Utility, but without the need for exclusive access to the data set. It presents you with an interface that is capable of holding your temporary changes to data. This may be useful, for example, for assessing a change but without any risk of altering live data.

The first time you make a change to the data in a View editor session, FM/CICS displays a warning as shown in Figure 9.

```
View          FI:FMUKN2 DS:FMN.RFM0201.KSDS.  +          At top
Key          + Type KSDS          Format TABL
      recnum last2dig text
      #2      #3 #4
      ZD 1:8  ZD 7:2 AN 9:72
      <---+--->  <-> <---+---1---+---2---+---3---+---4---+---5---
***** ***** Top of data *****
000001      1      1 A**Update from update testerAAAAAAAAAAAAAAAAAAAA
000002      2      2 AAxxxxzzzzzzzzzzAAAAAAAAAAAAAAAAAAAAAAAAAAAA
000003      3      3 AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
000004      4      4 AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
000005      5      5 AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
000006      6      6 AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
000007      7      7 AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
000008      8      8 AAAAAAAAAAAAAAaAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
000009      9      9 AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
- - -
000100      Save is not possible in a View session. Use Edit if you
000101      want to be able to save changes.
Command
F1=Help      F2=Zoom      F3=Exit      F4=Expand      F5=RFind      F7=Up
F8=Down      F10=Left     F11=Right    F12=Cancel

lected
AAAAAAAAAA
AAAAAAAAAA
croll PAGE
```

Figure 9. Warning pop-up displayed after first change in View editor session

When you exit from a View editor session by pressing the Exit function key (F3), if you have made a change to the data in the editor session, FM/CICS displays a warning as shown in Figure 10 on page 30.

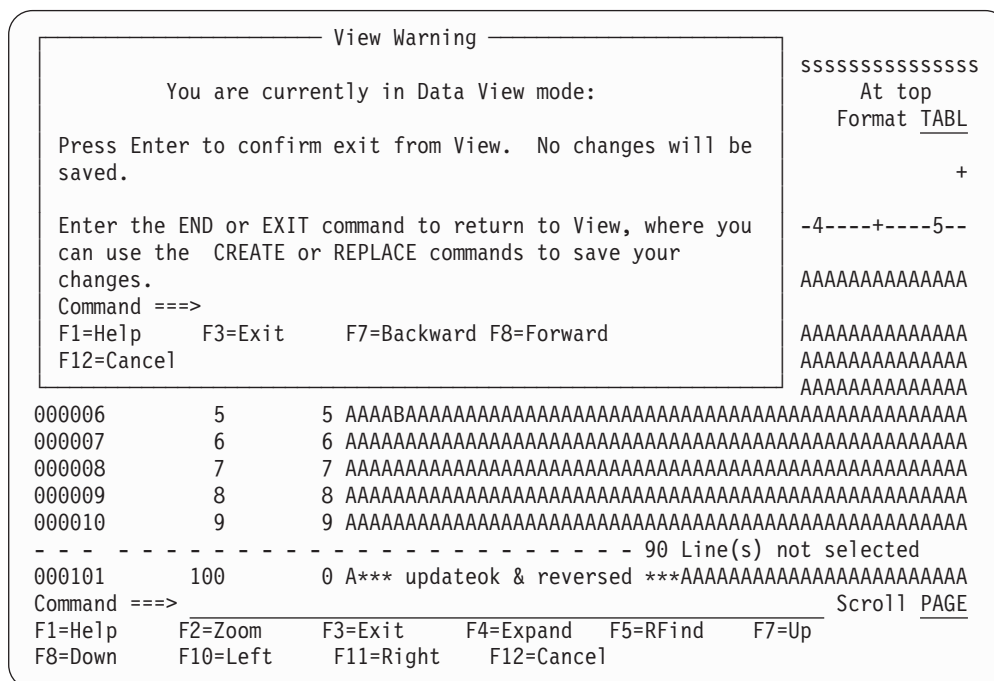


Figure 10. Warning pop-up displayed when exiting from a View editor session if changes made to data

### Edit Utility

The Edit Utility (option 2) allows you to view and change your data (by inserting, deleting and otherwise modifying records), and save any changes you make.

When you initiate the FM/CICS editor with the Edit Utility, this is referred to as being in an "Edit editor session" (or just "Edit").

### FM/CICS Browse

FM/CICS Browse allows you to view CICS data, but without the ability to save any changes.

When you start up the FM/CICS editor in browse mode, this is referred to as being in a "Browse editor session" (or just "Browse").

From a list of FM/CICS resources, to start up a Browse editor session, enter the prefix command, B.

When you start up a Browse editor session, FM/CICS displays the relevant FM/CICS Browse entry panel.

#### Related references

"Initiating an FM/CICS Browse editor session from a display list" on page 41

"Browse Entry panels" on page 65

These instructions are given within the context of the FM/CICS editor. In most cases, you can perform these actions in either Edit or View, in which case the term "editor" is used. Similarly, the term "editor session" can indicate either a View editor session or an Edit editor session.

To display one of the View Entry panels, select option 1 ("View") from the FM/CICS Primary Options Menu panel.

To display one of the Edit Entry panels, select option 2 ("Edit") from the FM/CICS Primary Options Menu panel.

You can view or edit a CICS resource with a number of formats. You can use a copybook or template to provide a logical view of the data set. The logical view describes the field format of the records. In addition, a template can be used to:

- Select the records to be displayed.
- Select the fields to be displayed.
- Format how the fields are displayed.

The FM/CICS editor displays a full screen of data, and allows you to overtype the data that is displayed. You can scroll the data in any direction: backward, forward, left, and right. It allows you to perform general editing operations by entering primary commands in the command field of the display. It also allows you to perform record-oriented operations by entering prefix commands in the prefix area of the display.

**Note:** Once the FM/CICS editor is started, the way in which you use the editor (commands, template usage, PF keys, and so on) is the same as for File Manager for z/OS ("base"). For further information about using the browser, see "Viewing and changing data sets" in the *File Manager User's Guide and Reference*.

Related topics

"Primary Option Menu panels" on page 98

"View Entry panels" on page 109

"Edit Entry panels" on page 81

---

## Editing CICS files

To edit a CICS file in View:

1. Select **1. File** on the Primary Option Menu panel.
2. Type 1 on the command line.
3. Press Enter.

FM/CICS displays the View CICS File Entry panel.

To edit a CICS file in Edit:

1. Select **1. File** on the Primary Option Menu panel.
2. Type 2 on the command line.
3. Press Enter.

FM/CICS displays the Edit CICS File Entry panel.

You can view CICS VSAM files that have browse and read access.

For Edit, CICS VSAM files must have update access. Full editing capability (inserts/deletes) is available for KSDS files that have add and delete attributes. All other files are in place editing only—new records can be appended to ESDS files, and slots can be deleted or new records can be inserted into empty slots for an RRDS.

**Note:** FM/CICS requests against CICS data tables not owned by the local CICS region always use function shipping (cross-memory services are not used).

BDAM files are not supported.

Related topics

“View Entry panels” on page 109

“Edit Entry panels” on page 81

---

### Editing temporary storage

To edit temporary storage in View:

1. Select **2. Temporary Storage** on the Primary Option Menu panel.
2. Type 1 on the command line.
3. Press Enter.

FM/CICS displays the View Temporary Storage Entry panel.

To edit temporary storage in Edit:

1. Select **2. Temporary Storage** on the Primary Option Menu panel.
2. Type 2 on the command line.
3. Press Enter.

FM/CICS displays the Edit Temporary Storage Entry panel.

In View, you must specify the name of an existing queue.

In Edit, you can specify an existing or new queue name for temporary storage editing.

#### New queue name

If you specify a new queue name, you are asked to specify whether the queue location is to be in memory or auxiliary storage. An Edit session then commences with no records and you can insert new records. On completion of the Edit session, the queue is created with the records created during the Edit session.

**Note:** If the TS queue name matches the prefix of an existing TS model, it is allocated according to the attributes of the corresponding model. If the TS queue name does not match a prefix of a TS model, it is allocated in auxiliary storage.

However, if SYSID is not blank, the TS queue is defined on the specified CICS system either using a corresponding TS model on the remote system if a match exists, otherwise it is allocated in auxiliary storage on the remote system.

#### Existing queue name

FM/CICS attempts to read all the records into memory. In Edit, you can insert, delete, and change records and, on completion, FM/CICS deletes the existing queue and replaces it with the records from your Edit session. Any changes to the queue made by other applications are lost.

Other elements of the View and Edit functions are described in “Viewing and changing data sets” in the *File Manager User's Guide and Reference*.

#### Related topics

“View Entry panels” on page 109

“Edit Entry panels” on page 81

## Editing transient data queues

To edit transient data in View:

1. Select **3. Transient Data** on the Primary Option Menu panel.
2. Type 1 on the command line.
3. Press Enter.

FM/CICS displays the View Transient Data Entry panel.

To edit transient data in Edit:

1. Select **3. Transient Data** on the Primary Option Menu panel.
2. Type 2 on the command line.
3. Press Enter.

FM/CICS displays the Edit Transient Data Entry panel.

You can edit the following types of transient data queues:

### Intrapartition

FM/CICS reads the entire queue into memory. You can then edit the queue.

In Edit, when you exit, all the records in your Edit session are written back to the queue. These records are appended to the existing queue if another application has added records to the queue during your Edit session.

In View, when you exit, you are given the option of restoring all the records read back to the queue. These records are appended to the existing queue if you select to rewrite the records.

### Extrapartition

In Edit, you can only edit Extrapartition queues defined for output and you can only append records. The Edit session begins with no records and you can insert records. On completion, the records are appended to the queue. Please remember that if the queue is not defined to CICS with a disposition of MOD, closing and opening the queue erases all previous contents.

In View, you can only view Extrapartition queues defined for input.

### Indirect

If the associated queue is the same as the above, then editing is supported as stated for those queues.

Related topics

“View Entry panels” on page 109

“Edit Entry panels” on page 81

## Locking your CICS resource

FM/CICS uses standard CICS services to update and change resources. FM/CICS is also capable of issuing CICS enqueues to help you coordinate access against resources as described below.

### FM/CICS-generated CICS enqueue

When editing a temporary storage queue or transient data queue with FM/CICS, a CICS enqueue using the following resource naming convention is issued:

`FMLOCK:xxsysidname`

## Viewing and changing CICS resources

Where:

- xx* TD or TS depending on the type of queue being edited.
- sysid* The ID of the CICS system where the queue resides. A blank value indicates the queue resides on the local system.
- name* The name of the queue.

This CICS enqueue is issued to prevent multiple FM/CICS sessions on the same region from concurrently editing the same queue.

### User-specified CICS enqueue

You can specify a 1–36 character CICS enqueue resource name that is issued for the duration of the Edit session for a file, TS queue, or TD queue by:

- Entering "/" in the **Lock resource** field
- Specifying a valid 1–36 character CICS enqueue resource name in the corresponding **Name** field

This user-specified CICS enqueue can be used to provide additional coordination for CICS resources accessed by FM/CICS and other applications that issue similar CICS enqueues. This enqueue is issued in addition to the FM/CICS-generated CICS enqueue for TS and TD queues.

FM/CICS issues CICS enqueues on the **local region only** (the CICS region where FM/CICS is running). An enqueue resource length of 255 is used and all unused characters are padded with spaces.

If FM/CICS issues an enqueue but receives a "busy" response, this indicates that a similar CICS enqueue has already been issued by another application. FM/CICS then displays the message "CICS resource locked" and terminates the Edit. To display further information about the active CICS enqueue, press F1. You can also list and display further CICS attributes for CICS enqueues by using the FM/CICS List utility. For further information, see Chapter 7, "Working with CICS enqueues," on page 45.

---

## Chapter 4. Working with FM/CICS utilities

To display the Utility Functions panel, select option 3 ("Utilities") from the Primary Options Menu panel.

Some of the utilities you can select are File Manager "base" utilities. The numbers of the options for the File Manager "base" utilities match the equivalent options on the File Manager for z/OS ("base") Utilities Functions menu panel.

To find information about each utility on the Utility Functions panel, see the relevant section as shown in Table 2.

*Table 2. Sections describing utilities*

<b>To find out more about this utility on the Primary Options Menu panel...</b>	<b>See this section...</b>
0 DBCS	<i>"Set DBCS Format panel" in the File Manager User's Guide and Reference</i>
2 Print	Chapter 5, "Printing a CICS resource," on page 37
4 List	Chapter 6, "Working with lists of CICS resources," on page 39
5 Printdsn	(Displays print output in full-screen mode)
6 Audit trail	<i>"Print Audit Trail panel" in the File Manager User's Guide and Reference</i>

### Related topics

"Primary Option Menu panels" on page 98

"Utility Functions panel" on page 108





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## Chapter 5. Printing a CICS resource

To display one of the Print Entry panels, select option 2 ("Print") from the FM/CICS Utility panel.

You can use the FM/CICS Print utility to print a CICS resource in a selected format. Data can be printed by record or by field if a template or copybook has been provided. Records can be selected for printing using the start key (VSAM only), skip and print count fields and a conditional expression defined in the template provided. The output for the Print function is controlled by the SET options.

The following restrictions apply when printing a CICS resource:

- CICS files: only VSAM files with read and browse access are supported.
- CICS extrapartition queues must be INPUT.

**Note:** After printing a intrapartition queue you are prompted to restore the queue items.

Other elements of the Print function are described in "Printing from File Manager" in the *File Manager User's Guide and Reference* .

Related topics

- "Primary Option Menu panels" on page 98
- "Print Entry panels" on page 101



---

## Chapter 6. Working with lists of CICS resources

FM/CICS displays a list of CICS resources when you:

- **Specify a fully-qualified or generic resource name on the List CICS Resources Entry panel.**

To display the List CICS Resources Entry panel, select option 4 ("List") from the FM/CICS Utility panel.

The List CICS Resources Entry panel allows you to list the resources matching the resource name and SYSID you specify. You can modify the listed resources or perform various functions such as Edit, View, and Print against any listed file or enqueue.

The type of resource selection list that FM/CICS displays when you press Enter is determined by the **CICS Resource** you selected on the List CICS Resources Entry panel.

- **Use a wildcard when specifying a CICS resource name on a FM/CICS entry panel.**

The type of resource selection list that FM/CICS displays when you press Enter is determined by the **CICS Resource** you selected on the FM/CICS entry panel.

**Note:** When you enter a wildcard on a FM/CICS entry panel, only the function from the previously displayed FM/CICS entry panel (view, edit, browse, or print) can be selected for the listed resource.

Related topics

“Utility Functions panel” on page 108

“List CICS Resources Entry panel” on page 97

---

### Finding a string in a selection list

To find the next occurrence of a character string in the list being displayed, use the FIND primary command.

The cursor is placed in the prefix area of the line containing the found string and that line is made the top line.

To find the next occurrence of the same string, use the RFIND command, or enter the FIND command with no argument. A message is displayed if the string cannot be found.

Related topics

“FIND primary command” on page 60

“RFIND primary command” on page 62

### Controlling the starting point, direction and extent of the search

You can qualify the search string with one of the following optional parameters before or after the search string: NEXT, PREV, FIRST, LAST. If you do not specify any parameter, or if you specify the NEXT parameter, the search begins at the

## Working with lists of CICS resources

cursor location (if the cursor is within the data portion of the display) or the beginning of the first record displayed, and searches ahead to find the next occurrence of the string.

If you specify the FIRST parameter, the search begins at the beginning of the list and searches ahead. If the LAST parameter is used, the search begins at the end of the list and searches backwards. If you specify the PREV parameter, the search begins either at the cursor location (if the cursor is within the data portion of the display) or the beginning of the first record displayed, and searches backwards to find the string.

Related topics

“FIND primary command” on page 60

---

## Searching the current primary sort order column

To search the current primary sort order column for an occurrence of a specified string, use the LOCATE primary command. The string syntax must be consistent with the target column for the LOCATE primary command. The LOCATE primary command positions to the top of the display the column value either equal to or closest value less than or greater than depending on the SORT order.

Related topics

“LOCATE primary command” on page 61

---

## Viewing queue names with unprintable characters

CICS temporary storage queue names can contain unprintable characters. To view the hex value of the queue names listed on the CICS Temporary Storage Selection List panel, enter HEX ON. To suppress the hex values, enter HEX OFF.

**Note:** Only the TS queue selection list supports this command.

Figure 11 shows an example queue names displayed in hex format.

Process	Options	Help							
FM/CICS	CICS Temporary Storage Selection List							Row 1 of 2	
Queue	Loc	Items	Size	Max	Min	Tran	Last	Sys	Pool
SAMP	AUX	2	128	64	64	CECI	67		
ECDD440344444444 2147013400000000									
SAMP2e	AUX	3	192	64	64	CECI	8		
ECDDF54344444444 2147211200000000									
**** End of data ****									

Figure 11. Queue names displayed in hex format

Related topics

“CICS Temporary Storage Selection List panel” on page 77

“HEX primary command” on page 61

---

## Refreshing the current selection list

To refresh the current selection list, use the REFRESH primary command.

Related topics

“REFRESH primary command” on page 61

---

## Changing resource attributes

On the CICS resource list or corresponding attributes panel, you can change any value that is underlined by overtyping the change into the field and pressing Enter.

For example, to close a VSAM file from the CICS file selection list, type “C” in the open status column and press Enter.

All attribute changes requested through FM/CICS are performed by issuing the SET CICS command, and therefore must adhere to all CICS restrictions.

Related topics

Chapter 10, “FM/CICS panels and fields,” on page 65

---

## Selecting items from a display list

To select items from a display list, use the SELECT primary command. The SELECT primary command performs the equivalent processing of the S prefix command against resource names matching the supplied pattern or resource name.

►►—Select—*resource\_name\_pattern*—————►►

*resource\_name\_pattern*

A resource name or pattern used to match resource names on the list.

### Examples

#### SELECT TDM1

Selects the resource called TDM1.

**S \*** Selects all resources.

**S A\*** Selects all resources starting with "A".

**S \*Z** Selects all resources ending with the letter "Z".

Related topics

“SELECT primary command” on page 62

---

## Initiating an FM/CICS Browse editor session from a display list

To initiate the FM/CICS editor in Browse mode from a display list, enter the prefix command, B, against the resource you want to browse. FM/CICS displays the relevant Browse Entry panel.

Related topics

“Browse Entry panels” on page 65

### Sorting a CICS selection list

To sort a CICS selection list, use the SORT primary command. You can sort a CICS selection list by any two fields displayed on the selection list, except the line command field and Status columns. The field names are the column heading values with the following exceptions:

- Use "Dsn" for the **Data set name** field on the File selection list.
- Use "Resource" for the **Resource name** field on the Enqueue selection list.

The sort sequence is ascending for columns with character values, and descending for columns with numeric values. The SORT primary command is also invoked for a single column by placing the cursor on the column heading and pressing Enter.

#### Example 1. File Selection list

The following example shows how the file list is sorted by dsn and then by type within dsn:

```
COMMAND ==> sort dsn type
  File   Data set name   Type Sys
ACCTFIL  FMN.CICS.ACCTFILE VSAM
ACCTNAM  FMN.CICS.ACCTNAME KSDS
ACINUSE  FMN.CICS.ACTINUSE PATH
```

#### Example 2. Temporary Storage Selection List

The following example shows how the temporary storage can be sorted by size (descending) and queue name within size (ascending):

```
COMMAND ==> sort size queue
Queue Loc  Items   Size   Max
FMT3  AUX   20      2560   128
FMT5  AUX   10      1280   128
FMT1  AUX   10      1280   128
FMT2  AUX   10      1280   128
FMT4  AUX   10      1280   128
```

#### Example 3. Transient Data Selection List

The following example shows how the transient data queue list can be sorted by type, and then disposition within type:

```
COMMAND ==> sort Typ dsp
Queue Typ DDname  Dsp
CXRF  EXT DFHCXRF  MOD
FM01  EXT FM01     SHR
FM02  EXT FM02     SHR
FM03  EXT FM03     SHR
FM04  EXT FM04     SHR
```

#### Example 4. Enqueue Selection List

The following example shows how the enqueue selection list can be sorted by task (descending), and then resource name within task (ascending):

```
COMMAND ==> sort task resource
Resource name (first 36 characters)   Task
ENQUEUEE2                             0001177
ENQUEUEE4                             0001177
ENQUEUEE1                             0001176
ENQUEUEE3                             0001176
ENQUEUEE5                             0001176
```

Related topics

“SORT primary command” on page 63





## Chapter 7. Working with CICS enqueues

This section describes the enqueue list and task purge function of FM/CICS.

### Invocation and execution

During an Edit session, if FM/CICS receives a busy condition when attempting to issue the FM/CICS-generated or user-specified CICS enqueue, the message shown in Figure 12 is displayed.

Process	Options	Help
FM/CICS	Edit Temporary Storage Entry Pa	CICS resource locked More: +
Input Temporary Storage Queue:		
Queue name . . . .	_____	
Sysid . . . . .	_____	
Pool name . . . .	_____	
Start position . .	_____	Record number
Record limit . . .	_____	Record sampling
Inplace edit . . .	_____	Prevent inserts and deletes
Lock resource . .	_____	Name _____
Copybook or Template:		
Data set name . .	_____	
Member . . . . .	Blank or pattern for member list	
Processing Options:		
Copyboo		
3 1. A	<div>CICS enqueue resource 'RESOURCE' is already active. The active enqueue was issued by transaction 'FM' and userid 'CICSUSER'.</div>	
2. P		
3. N		
4. C		
Command ==> _____		
F1=Help	F3=Exit	F4=Expand F7=Backward F8=Forward F10=Left
F11=Right	F12=Cancel	

Figure 12. Sample edit panel with "busy condition" message

To display the long message, press the Help function key (F1).

The message provides the userid and transaction associated with the active CICS enqueue, along with the enqueue resource name that is preventing the FM/CICS session from issuing an enqueue with the same name.

To find more information about the CICS enqueue:

1. Select the **List** option (3.4) from the Utility Functions panel to display the List CICS Resources Entry panel.
2. On the List CICS Resources Entry panel:
  - a. Specify the name of the CICS enqueue resource that you want more information about in the **Resource name** input field.
  - b. Select option 4, Enqueue, from the Processing Options list.
  - c. Press Enter.

FM/CICS displays a list of all active CICS enqueues that match the specified resource name on the CICS Enqueue Selection List panel.

Related topics

"Utility Functions panel" on page 108

“List CICS Resources Entry panel” on page 97  
“CICS Enqueue Selection List panel” on page 73

---

## Displaying additional CICS attributes

To display additional CICS attributes related to a CICS enqueue, enter the A or S prefix command against the enqueue on the CICS Enqueue Selection List panel to display the CICS Enqueue Resource panel.

Related topics

“CICS Enqueue Selection List panel” on page 73  
“CICS Enqueue Resource panel” on page 71

---

## Purging CICS tasks

To purge a task that issued the CICS enqueue that is locking a resource:

1. Enter the P or F prefix command against the listed enqueue on the CICS Enqueue Selection List panel.  
FM/CICS issues a SET TASK PURGE or SET TASK FORCEPURGE CICS command respectively against the task.

**Note:**

1. You cannot issue a P line command (SET TASK PURGE) for tasks defined as not purgeable (**Prge** on the CICS Enqueue Selection List panel shows as NO).
2. You can issue an F line command (SET TASK FORCEPURGE) against a task defined as not purgeable. Before issuing the first PURGE or FORCEPURGE, FM/CICS displays a warning panel asking you to confirm the purge.  
If the purge was successfully issued against one or more tasks, FM/CICS changes the entry on the CICS Enqueue Selection List panel to \*\*\* PURGE ISSUED \*\*\*. This does not indicate that the task was successfully purged, but only that the purge command was successfully issued.  
If the purge command failed, FM/CICS changes the entry on the CICS Enqueue Selection List to \*\*\* PURGE ERROR \*\*\* and displays the condition and RESP2 values returned by CICS at the bottom of the panel.
3. Issuing PURGE or FORCEPURGE against a task terminates the task. Therefore, you should issue a REFRESH command after purging one or more tasks to produce a current list of all active CICS enqueues.

Related topics

“CICS Enqueue Selection List panel” on page 73

---

## Chapter 8. Messages

There are four categories of FM/CICS messages. These messages are generated by FM/CICS, to confirm successful processing, or to tell you about errors.

**Note:** To see the message number under IBM Problem Determination Tools Common Components, issue the MSGID command.

### FM/CICS level verification messages

These messages are displayed when you first enter FM/CICS, and displays information about the CICS level. FM/CICS level verification messages are preceded by “FMNBB” and a message number.

### FM/CICS logon messages

Messages that are issued on the FM/CICS logon screen.

### FM/CICS message log messages

Messages that are written to the FM/CICS message log.

The default FM/CICS message log is defined as transient data queue FMNM to sysout class A. However, this may have been changed in the options module during installation.

### FM/CICS interface messages

These messages are displayed when an error is encountered during an FM/CICS session. You can get more information about these messages by pressing the F1 (help) key.

If FM/CICS encounters an error after issuing a CICS command (such as INQUIRE FILE), message 1172 is produced, listing the function and returned condition and resp2 values. For further information, look up the condition and resp2 values in either the *CICS Application Programming Reference* or *CICS System Programming Reference*.

If FM/CICS receives an ILLOGIC condition when performing resource i/o, message 0063 is displayed, giving the VSAM return and error code. Look up the listed VSAM return and error code for the VSAM function in the *DFSMS Macro Instructions for Data Sets* for further information.

**Note:** Messages FMN1172I and FMN0063I are also documented in the *File Manager User's Guide and Reference*.

FM/CICS logon and message log messages are preceded by “FMNCA” and a message number.

---

## Format of numbered messages

### File Manager messages

The format of numbered FM/CICS level verification messages is:

#### File Manager message syntax

FMNBBnnn message text

#### FMNBB

Indicates that the message comes from File Manager.

nnn     Is the message number.

## FM/CICS messages

The format of numbered FM/CICS messages is:

### FM/CICS message syntax

FMNCA $nnn$  *message text*

#### FMNCA

Indicates that the message comes from FM/CICS.

$nnn$  Is the message number.

---

## File Manager messages

The following messages may be issued when the batch job is first invoked from CICS and validates that the CICS region that submitted the job is running with the same level of File Manager.

---

### FMNBB252 No storage to obtain CICS buffer to query CICS levels

**Explanation:** There is insufficient memory to perform the level check.

**User response:** Increase the available region size to the submitted batch job.

---

### FMNBB253 CICS level inquiry failed to run successfully rc = rc

**Explanation:** Internal error occurred processing the inquire level command.

**User response:** Contact your IBM support center.

---

### FMNBB254 You are running a higher level of File Manager in the batch job than in at least one of the connected CICS regions. This could lead to failures due to services being unavailable. Use the command VERCICS to verify the current levels of File Manager for CICS that are running and ensure all regions with a lower level are upgraded appropriately.

**Explanation:** This message indicates a mismatch in buffer layout between the batch job and FM/CICS most likely due to maintenance not being applied to all instances of FM/CICS. This mismatch can lead to severe errors if not resolved.

**User response:** Use the VERCICS command to display the level of FM/CICS on all connected CICS regions. Correct all instances that are running at a lower level from the running File Manager batch job. A difference in level may be due to maintenance not being applied to the FM/CICS instance or the FM/CICS programs may not have been refreshed in the CICS region after maintenance was applied.

---

### FMNBB255 CICS level inquiry failed with cond=CICS *condition code*

**Explanation:** The load for program FMN3LVL has failed in the connected CICS region with the CICS condition code *condition code*.

**User response:** This normally indicates an installation problem as FMN3LVL is not accessible in the connected CICS region. Check the DFHRPL and ensure FMN3LVL is available in File Manager libraries.

---

### FMNBB256 Warning - PTF mismatch

**Explanation:** You are running different maintenance levels of File Manager in the batch job and FM/CICS in one or more of the connected CICS regions. This indicates that FM/CICS in one or more region may be downlevel and therefore not contain all available services or resolutions for problems provided by more recent levels of maintenance.

**User response:** Use the VERCICS command to display the PTF level of FM/CICS on all the connected CICS regions. Correct all instances that are running at a different PTF level from the running File Manager batch job. A difference in PTF level may be due to maintenance not being applied to the FM/CICS instance or the FM/CICS programs may not have been refreshed in the CICS region after maintenance was applied.

---

### FMNBB257 CICS level inquiry was unable to load FMN3LVL

**Explanation:** The batch job was unable to load the module FMN3LVL.

**User response:** Ensure FMN3LVL is available to be loaded by the batch job.

## FM/CICS logon and message log messages

The following messages are issued on the FM/CICS logon screen or in the message log.

---

### FMNCA000 File Manager ended

**Explanation:** File Manager for CICS has ended.

**User response:** If File Manager for CICS has ended unexpectedly, refer to output in the job that was submitted to start the File Manager batch address space for further information.

---

### FMNCA001 Password required

**Explanation:** A password was not entered for the specified userid.

**User response:** Enter the current password for the specified userid in the Password field.

---

### FMNCA002 Confirm new password

**Explanation:** The new password entered for the specified userid requires confirmation.

**User response:** Re-enter the new password for the specified userid in the New Password field.

---

### FMNCA003 Re-enter new password

**Explanation:** An error occurred while processing the new password.

**User response:** Re-enter the new password for the specified userid in the New Password field.

---

### FMNCA004 Invalid password

**Explanation:** An invalid or unauthorized password has been entered for the specified userid.

**User response:** Enter the current password for the specified userid in the Password field.

---

### FMNCA005 Password has expired

**Explanation:** The current password for the specified userid has expired.

**User response:** Enter a new password for the specified userid in the New Password field.

---

### FMNCA006 Invalid new password

**Explanation:** The new password entered for the specified userid does not meet your system's password requirements.

**User response:** Enter an acceptable new password for the specified userid in the New Password field.

---

### FMNCA007 Userid is revoked

**Explanation:** The specified userid is revoked.

**User response:** Contact your security administrator to determine why the specified userid is revoked.

---

### FMNCA008 Procedure name required

**Explanation:** The Procedure input field has been left blank.

**User response:** Specify a valid 1–8 character File Manager procedure name in the Procedure input field. Refer to *File Manager Customization Guide* for further information.

---

### FMNCA009 Profile data set name required

**Explanation:** The Profile data set input field has been left blank.

**User response:** Specify a valid 1–44 character profile data set name in the Profile data set input field. Refer to *File Manager Customization Guide* for further information.

---

### FMNCA010 Invalid profile data set name

**Explanation:** The data set name entered in the Profile data set input field does not follow standard MVS data set naming conventions.

**User response:** Specify a valid 1–44 character profile data set name in the Profile data set input field. Refer to *File Manager Customization Guide* for further information.

---

### FMNCA011 Jobcard required

**Explanation:** The first line of the Jobcard input field has been left blank. It must contain a valid jobname along with the JOB JCL statement.

**User response:** Specify a valid jobcard in the Jobcard input field. Refer to *File Manager Customization Guide* for further information.

---

### FMNCA012 Jobname requires //

**Explanation:** A non-comment line in the jobcard specified in the Jobcard input field does not begin with "//".

**User response:** Follow JCL conventions by specifying // at the beginning of each non-comment line in the Jobcard input field.

---

**FMNCA013 Invalid jobname**

**Explanation:** The jobname specified in the Jobcard input field does not follow JCL conventions.

**User response:** Specify a valid jobname on the first line of the Jobcard input field.

---

**FMNCA014 Jobname too long**

**Explanation:** The jobname specified in the Jobcard input field exceeds 8 characters.

**User response:** Specify a valid jobname on the first line of the Jobcard input field.

---

**FMNCA015 Invalid jobcard, JOB statement required**

**Explanation:** The first line specified in the Jobcard input field does not contain the required JOB JCL statement.

**User response:** Specify a valid jobcard in the Jobcard input field. Refer to *File Manager Customization Guide* for further information.

---

**FMNCA016 Job *jobname* not responding**

**Explanation:** Job *jobname* has been submitted to start the File Manager address space, but a response has not been received within the allocated amount of time. The job may be queued or may have failed. This message is accompanied by message FMNCA019.

**User response:** Refer to the output of job *jobname* for any further error messages that may indicate why the job has not responded.

If the job log cannot be found (the FM/CICS job was never started), verify that the FMNRDR DD statement has been properly defined in the CICS startup JCL and your system has sufficient initiators. Refer to the *File Manager Customization Guide* for further information.

Here are some of the most common reasons the batch job may have failed or been queued:

- Insufficient authority to access one of the libraries in the FM/CICS procedure. Check the system log for security messages.
- TCP/IP is not active on the CICS region. Check for TCP/IP error messages in the job log and verify that TCP/IP is active on the CICS region.
- Duplicate job name. Verify if another user may have specified the same job name in the FM/CICS jobcard input field, or a previous FM/CICS job is still active.

---

**FMNCA017 Job *jobname* submitted**

**Explanation:** Job *jobname* has been submitted to start the File Manager address space.

**User response:** None.

---

**FMNCA018 Profile READ error, COND: *cond*, RESP2: *resp2***

**Explanation:** File Manager has encountered an error while attempting to read from the profile data set. CICS has returned a condition of *cond* and a resp2 value of *resp2*. This profile data set is used to populate the FM/CICS logon screen. FM/CICS default values have been used instead.

**User response:** Look up the condition and resp2 values in *CICS Application Programming Reference* for the READ FILE API for further information.

---

**FMNCA019 Press F5 to wait another 20 seconds, ENTER to resubmit**

**Explanation:** File Manager has submitted a batch job to start the File Manager address space but has not received a response. The job may be queued, or may have failed. This message is accompanied by message FMNCA016.

**User response:** Press F5 to wait another 20 seconds for a response from the batch job or ENTER to resubmit the batch job. Refer to the output in the job displayed in message FMNCA016 for any further error messages that may indicate why the job has not responded.

---

**FMNCA020 Sockets error**

**Explanation:** File Manager has encountered an error with the TCP/IP sockets interface. This message is accompanied by message FMNCA021.

**User response:** Look up the error code for the function displayed in message FMNCA021 in *IP CICS Sockets Guide* for further information.

---

**FMNCA021 FUNCTION: *function*, ERROR CODE: *error\_code*, RETURN CODE: *return\_code***

**Explanation:** File Manager has encountered an error with the TCP/IP sockets interface when issuing a call to the listed function. This message is accompanied by message FMNCA020.

**User response:** Look up the error code for the listed sockets function in *IP CICS Sockets Guide* for further information.

---

**FMNCA022 Internal reader error, RESOURCE: *resource*, FUNCTION: *function***

**Explanation:** File Manager has encountered an error while processing the internal reader. File Manager uses the internal reader to submit a batch job that invokes the File Manager address space. The *function* is the operation File Manager attempted to perform against the internal reader. The *resource* is the name of the transient data queue defined to the internal reader used by the OPEN, WRITE, and CLOSE functions. For ENQ and DEQ functions, *resource* is the enqueue resource



name used by File Manager. This message is accompanied by message FMNCA023 that contains the returned condition and resp2 values.

**User response:** Look up the condition and error code displayed in message FMNCA023 for the listed function in *CICS Application Programming Reference* for further information.

---

**FMNCA023** COND: *condition*, RESP2: *resp2*

**Explanation:** File Manager has encountered an error while processing the internal reader. The *condition* and *resp2* values returned by CICS are displayed. This message is accompanied by message FMNCA022 that contains the resource name and function that encountered the error.

**User response:** Look up the condition and error code for the function listed in message FMNCA022 in *CICS Application Programming Reference* for further information.

---

**FMNCA024** Internal reader incorrectly defined,  
RESOURCE: *resource*

**Explanation:** The transient data queue resource is incorrectly defined to the internal reader. File Manager uses the internal reader to submit a batch job that invokes the File Manager address space.

**User response:** Correctly define a transient data queue to the internal reader. Refer to *File Manager Customization Guide* for further information.

---

**FMNCA025** Password successfully changed

**Explanation:** The password has been successfully changed for the specified userid.

**User response:** None.

---

**FMNCA026** Unknown return code in ESMRESP  
from external security manager

**Explanation:** A CICS request to verify the entered password for the specified userid has returned an unknown return code in ESMRESP from the external security manager.

**User response:** Contact your security administrator.

---

**FMNCA027** The CICS external security manager  
interface is not initialized

**Explanation:** A CICS request to verify the entered password for the specified userid has returned an error condition indicating that the CICS external security manager interface is not initialized.

**User response:** Contact your security administrator.

---

**FMNCA028** The external security manager is not  
responding

**Explanation:** A CICS request to verify the entered password for the specified userid has returned an error condition indicating that the CICS external security manager interface is not responding.

**User response:** Contact your security administrator.

---

**FMNCA029** The USERID field contains a blank  
character in an invalid position

**Explanation:** A CICS request to verify the entered password for the specified userid has returned an error condition indicating that the userid field contains a blank character in an invalid position.

**User response:** Specify a valid userid or contact your security administrator.

---

**FMNCA030** Unknown INVREQ value when  
validating password

**Explanation:** A CICS request to verify the entered password for the specified userid has returned an unknown INVREQ resp2 value.

**User response:** Contact your IBM service representative.

---

**FMNCA031** The USERID is not known to the  
external security manager

**Explanation:** A CICS request to verify the entered password for the specified userid has returned an error condition indicating that the specified userid is not known to the external security manager.

**User response:** Specify a valid userid or contact your security administrator.

---

**FMNCA032** Unknown condition received from  
password validation

**Explanation:** A CICS request to verify the entered password for the specified userid has returned an unknown condition.

**User response:** Contact your IBM service representative.

---

**FMNCA033** Abend during job submission

**Explanation:** An abend was encountered when File Manager attempted to submit a batch job to the internal reader to start the File Manager address space.

**User response:** Refer to the CICS and system log for further information about the cause of the abend.

---

**FMNCA034 The change password request failed during SECLABEL processing**

**Explanation:** A CICS request to change the password for the specified userid has returned an error condition indicating that the change password request failed during SECLABEL processing.

**User response:** Contact your security administrator.

---

**FMNCA035 The user is revoked in the connection to the default group**

**Explanation:** A CICS request to change the password for the specified userid has returned an error condition indicating that the user is revoked in the connection to the default group.

**User response:** Contact your security administrator.

---

**FMNCA036 NOTAUTH condition received from change password request**

**Explanation:** A CICS request to change the password for the specified userid has returned an error condition indicating that the user is not authorized.

**User response:** Contact your security administrator.

---

**FMNCA037 \*\*\*\* File Manager for CICS has ended \*\*\*\***

**Explanation:** File Manager for CICS has ended.

**User response:** None.

---

**FMNCA038 Invalid userid, re-enter**

**Explanation:** You have entered an invalid userid. The userid either contains incorrect characters or is not recognized by the external security manager.

**User response:** Enter a valid userid.

---

**FMNCA039 Userid not authorized to issue INQUIRE command**

**Explanation:** CICS command security has prevented your userid from issuing INQUIRE commands on the CICS region. Your userid must have the authority to issue INQUIRE commands to run FM/CICS.

**User response:** Contact your security administrator.

---

**FMNCA040 Connection tdqueue error, RESOURCE: resource, FUNCTION: function**

**Explanation:** File Manager has encountered an error while processing the connection transient data queue. File Manager reads this queue (if specified) to obtain a list of APPLIDs of connected CICS regions where FM/CICS has been installed to process remote resources. The *function* is the operation File Manager

attempted to perform against the queue. The *resource* is the name of the transient data queue defined to FM/CICS on the CONN option in FMN3POPT.

**User response:** Look up the condition and error code displayed in message FMNCA023 for the listed function in *CICS Application Programming Reference* for further information.

---

**FMNCA041 Connection tdqueue incorrectly defined, RESOURCE: resource**

**Explanation:** The connection transient data queue is incorrectly defined. File Manager reads this queue (if specified) to obtain a list of APPLIDs of connected CICS regions where FM/CICS has been installed to process remote resources. The *resource* is the name of the transient data queue defined to FM/CICS on the CONN option in FMN3POPT. This resource must be defined as an extrapartition, input tdqueue with a record length no larger than 80 bytes.

**User response:** Correctly define the connection transient data queue. Refer to *File Manager Customization Guide* for further information.

---

**FMNCA042 Trace requested, message log error, RESOURCE: resource, FUNCTION function**

**Explanation:** You have requested FM/CICS tracing, but an error was encountered with the transient data queue defined as the FM/CICS message log. FM/CICS tracing writes data to the message log, and therefore FM/CICS cannot perform tracing until the error with this resource has been resolved. The *function* is the operation File Manager attempted to perform against the queue. The *resource* is the name of the transient data queue defined to FM/CICS as the message log on the MSGLOG option in FMN3POPT. Refer to the *File Manager Customization Guide* for further details about the FM/CICS message log.

**User response:** Look up the condition and error code displayed in message FMNCA0023 for the listed function in *CICS Application Programming Reference* for further information.

---

**FMNCA043 CICS socket interface abend, interface may not be started**

**Explanation:** FM/CICS encountered an abend when attempting to invoke the CICS socket interface. The CICS socket interface is required to communicate with the FM batch address space. The abend may be due to the CICS socket interface not being started on the CICS region.

**User response:** Issue the EZAO CICS transaction (if available) to view the status and start the CICS socket interface, then rerun the FM/CICS transaction.

---



---

**FMNCA065** *hh:mm:ss.ms trace message*

**Explanation:** Various tracing information as requested during FM/CICS initialization.

**User response:** None.

---

**FMNCA999** **File Manager/CICS problem - message *nnnn* not found in table**

**Explanation:** File Manager for CICS cannot find the message number *nnnn* in the message table. This is probably a File Manager error.

**User response:** Contact your IBM service representative.

---

**FMNCA060** *mm/dd/yy hh:mm:ss* **File Manager for CICS started by USER: *userid*, FACILITY: *facility***

**Explanation:** A FM/CICS session has been started on the CICS region at the specified date and time. The FM/CICS transaction was initiated by the listed *userid* and *facility*. This facility will also be written in all subsequent messages written to the message log during this FM/CICS session.

**User response:** None.

---

**FMNCA061** *mm/dd/yy hh:mm:ss* **File Manager for CICS ended, USER: *userid*, FACILITY: *facility*, RC: *rc***

**Explanation:** A FM/CICS session has ended on the CICS region at the specified date and time with return code *rc*. The FM/CICS transaction was originally initiated by the listed *userid* and *facility*.

**User response:** If the return code is not 0, refer to previous messages for an explanation of the errors encountered.

---

**FMNCA062** *mm/dd/yy hh:mm:ss* **Failure loading options module, COND: *condition*, RESP2: *resp2*, FACILITY: *facility***

**Explanation:** FM/CICS was unable to load the options module FMN3POPT. When attempting to load the program, CICS returned the listed *condition* and *resp2* values.

**User response:** If your installation accepted the FM/CICS default values and therefore did not define and install the options module, ignore this message. Otherwise, look up the *condition* and *resp2* values in the *CICS Application Programming Reference* for the LOAD PROGRAM API for further information. Refer to the *File Manager Customization Guide* for further information about the options module FMN3POPT.

---

**FMNCA063** *mm/dd/yy hh:mm:ss* **Failure loading message module, COND: *condition*, RESP2: *resp2*, FACILITY: *facility***

**Explanation:** A language other than ENGLISH was specified in the FM/CICS options module. However, FM/CICS was unable to load the message module for the specified language.

**User response:** Look up the *condition* and *resp2* values in the *CICS Application Programming Reference* for the LOAD PROGRAM API for further information. Refer to the *File Manager Customization Guide* for further information about national language support.

---

**FMNCA064** *mm/dd/yy hh:mm:ss* **Failure starting verify transaction, COND: *condition*, RESP2: *resp2*, FACILITY: *facility***

**Explanation:** FM/CICS attempted to start a transaction to verify that the entered *userid* is valid. The transaction failed with the listed *condition* and *resp2* values. The default FM/CICS verification transaction is FMVU, but this may have been changed in the options module during installation.

**User response:** Look up the *condition* and *resp2* values in the *CICS Application Programming Reference* for the START API for further information. Refer to the *File Manager Customization Guide* for further information about the *userid* verification transaction (FMVU).

---

## Messages

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## **Part 2. FM/CICS reference**



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## Chapter 9. FM/CICS primary commands

This chapter describes the syntax and parameters for the primary commands that you can use in various FM/CICS panels.

You enter primary commands on the command line of a panel.

Where the syntax allows you to specify more than one operand, you can use either a blank or a comma as a separator between each operand.

For example, both of the following commands are correct:

```
SORT DSN TYPE  
SORT DSN,TYPE
```

The primary commands are listed in two categories:

### General primary commands

Commands you can issue from anywhere there is a command line. See “General primary commands.”

### Selection list primary commands

Commands that apply to the CICS resource selection lists displayed with option 3.4, or when you specify a generic CICS resource name on a function entry panel. See “Selection list primary commands” on page 60.

---

## General primary commands

### CUAATTR primary command

The CUAATTR primary command displays the Change CUA Attributes panel which allows you to change color, intensity, and highlighting attributes for panel elements.

#### Syntax

►►—CUAATTR—◄◄

#### Availability

Available on all panels

#### Related tasks

- “Changing panel colors, intensity, and highlighting” on page 24

### DX primary command

The DX command converts a decimal value to its equivalent hexadecimal value.

#### Syntax

►►—DX—*decimal\_value*—◄◄

## DX primary command

### Availability

This command can be entered on any FM/CICS panel.

### Related tasks

“Using hexadecimal values in FM/CICS” on page 18

## KEYS primary command

The KEYS primary command displays the FMN Keylist Change panel which allows you to display and modify the keys for the current function.

### Syntax

►► KEYS ◀◀

### Availability

Available on all panels

### Related tasks

- “Changing the current key list values” on page 24

## PFSHOW primary command

The PFSHOW primary command allows the toggling on or off of descriptions of PF Keys.

### Syntax

►► PFSHOW (1)  
ON/OFF  
OFF  
ON ◀◀

### Notes:

- 1 If no parameter is specified: if the current setting is ON, acts as if OFF as been specified; if the current setting is OFF, acts as if ON has been specified.

**ON** Shows PF key descriptions.

**OFF** Hides PF key descriptions.

### Availability

Available on all panels

### Related tasks

- “Hiding or showing PF key descriptions” on page 22

## SETTINGS primary command

The SETTINGS primary command displays the IPDCC Settings panel which allows you to change various options and terminal characteristics that affect the way information is displayed on your screen.

**Note:** For File Manager for z/OS panels, the option for ISPF SETTINGS drives this command when run from CICS.

### Syntax

»—SETTINGS—«

### Availability

Available on all panels

### Related tasks

- “Changing terminal characteristics” on page 23

## VER primary command

The VER command displays the FM/CICS release and PTF level, and indicates whether or not FM/CICS is APF-authorized.

If the VER command already exists in the ISPF command table at your site, you can use the LVL synonym to perform the same task.

### Syntax

»—VER  
  └─LVL┐—«

### Availability

Available on all panels

### Related tasks

- “Checking your FM/CICS version” on page 7

## VERCICS primary command

The VERCICS command displays the level of connected CICS systems.

### Syntax

»—VERCICS—«

### Availability

Available on all panels

### Related tasks

- “Checking the level of connected CICS systems” on page 8

## XD primary command

The XD command converts a hexadecimal value to its equivalent decimal value.

### Syntax

►►—XD—*hexadecimal\_value*—◄◄

### Availability

Available on all panels.

### Results

### Related tasks

“Using hexadecimal values in FM/CICS” on page 18

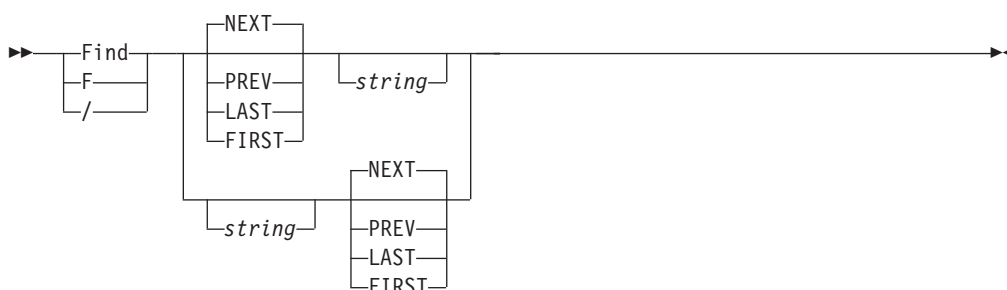
---

## Selection list primary commands

## FIND primary command

The FIND primary command normally finds the next occurrence of a character string in a selection list.

### Syntax



*string* The search string can be:

- A character string not starting or ending with a single quotation mark and not containing any embedded blanks or commas. The case of the string is ignored. Uppercase and lowercase representations of the same character match. For example, "Mixed" matches "MIXED".
- A character string enclosed in single quotation marks. The string can contain blanks and commas. The case of the string is ignored.
- C followed by a character string enclosed in quotation marks (C'Frog'), or a character string enclosed in quotation marks followed by C ('Frog'C). The string can contain blanks and commas. The string must match exactly (including case).



- X followed by a hexadecimal string enclosed in single quotation marks (X'C1C2').

### Availability

Available on selection lists.

### Related tasks

- “Finding a string in a selection list” on page 39

## HEX primary command

When displaying a Temporary Storage Selection list, use the HEX primary command to display the hexadecimal value of any non-displayable characters in the temporary storage queue name.

### Syntax

►►—HEX——►►

**ON**     Display the hexadecimal representation of the data vertically (three lines per byte).

**OFF**    Display the data in character format.

### Availability

- “CICS Temporary Storage Selection List panel” on page 77

### Related tasks

- “Viewing queue names with unprintable characters” on page 40

## LOCATE primary command

The LOCATE primary command searches the current primary sort order column for an occurrence of the specified string.

### Syntax

►►—LOCATE—►►

### Availability

Available on selection lists.

### Related tasks

- “Searching the current primary sort order column” on page 40

## REFRESH primary command

The REFRESH primary command replaces the current selection list with a new selection list taken from the matching CICS resources.

## REFRESH primary command

### Syntax

►►—REFRESH—◄◄

### Availability

Available on all selection lists.

### Related tasks

- “Refreshing the current selection list” on page 41

## RFIND primary command

The RFIND primary command repeats the search performed by the previous FIND primary command.

### Syntax

►►—RFIND—◄◄

When your cursor is positioned in the body of the data, RFIND finds the next instance of *string* down from the cursor position. When your cursor is outside of the data area, RFIND finds the first instance of *string*. If you press the RFIND function key (F5), you can easily move to the each instance of *string*, as your cursor remains in the data area after the command is issued. However, if you type the RFIND command on the command line, you need to reposition your cursor on the last instance of *string* and then press Enter, in order to find the next instance.

### Availability

Available on all selection lists.

### Related tasks

- “Finding a string in a selection list” on page 39

## SELECT primary command

The SELECT primary command selects items from a display list

### Syntax

►►—Select—*resource\_name\_pattern*—◄◄

### Availability

Available on all selection lists.

### Related tasks

- “Selecting items from a display list” on page 41

## SORT primary command

The SORT primary command sorts a CICS selection list by any two fields displayed on the selection list, except the line command field and Status columns.

### Syntax

►►—SORT—◄◄

### Availability

Available on all selection lists.

### Related tasks

- “Sorting a CICS selection list” on page 42

## **SORT primary command**

---

## Chapter 10. FM/CICS panels and fields

This section of the manual lists most of the FM/CICS panels. For several of the panels, there is a definition for each field in the panel and, where applicable, the value ranges that are valid for each entry field.

The CICS entry panels for Browse, Edit, View, Print, and List have a parameter, **APPLID**, which appears on the command line right justified. **APPLID** is the VTAM<sup>®</sup> applid of the CICS system. The APPLID is modifiable when running FM/CICS from ISPF. You can specify a generic name to display a list of CICS systems, if an FMNCICS DD describing CICS applids has been allocated to the ISPF session. See the *File Manager Customization Guide* for details.

**Note:** This field can only be modified when running under ISPF.

---

### Browse Entry panels

You use the Browse Entry panels to enter the name of a resource to be browsed. You also use these panels to specify the name of the copybook or template that describes a logical view of the data set.

There are three different Browse Entry panels. The type of Browse Entry panel that FM/CICS displays depends on which **CICS Resource** you selected:

*Table 3. Browse Entry panels*

CICS Resource	Browse Entry panel displayed
File	Browse CICS File Entry panel
Temporary Storage	Browse Temporary Storage Entry panel
Transient Data	Browse Transient Data Entry panel

Each of the Browse Entry panels is shown below, followed by a list of entry fields covering all three panels. Where an entry field is not common to all three panels, the panel to which it applies is indicated.

### Panel and field definitions

<u>P</u> rocess	<u>O</u> ptions	<u>H</u> elp
FM/CICS Browse CICS File Entry Panel		
Input CICS VSAM File:		
File name . . . .	_____	
Sysid . . . . .	_____	
Start position . .	_____	
Record limit . . .	_____	Record sampling _
Copybook or Template:		
Data set name . .	_____	
Member . . . . .	_____	Blank or pattern for member list
Processing Options:		
Copybook/template	Start position type	Enter "/" to select option
3 1. Above	1. Key	Edit template Type (1,2,S)
- 2. Previous	2. RBA	- Include only selected records
3. None	3. Record number	
4. Create dynamic		
Command ==> _____ Applid _____		
F1=Help	F3=Exit F4=Expand F7=Backward F8=Forward F10=Left	
F11=Right	F12=Cancel	

Figure 13. Browse CICS File Entry panel

<u>P</u> rocess	<u>O</u> ptions	<u>H</u> elp
FM/CICS Browse Temporary Storage Entry Panel		
Input Temporary Storage Queue:		
Queue name . . . .	_____	(Case sensitive)
Sysid . . . . .	_____	
Pool name . . . .	_____	
Start position . .	_____	Record number
Record limit . . .	_____	Record sampling _
Copybook or Template:		
Data set name . .	_____	
Member . . . . .	_____	Blank or pattern for member list
Processing Options:		
Copybook/template	Enter "/" to select option	
3 1. Above	- Edit template	Type (1,2,S)
- 2. Previous	- Include only selected records	
3. None		
4. Create dynamic		
Command ==> _____ Applid _____		
F1=Help	F3=Exit F4=Expand F7=Backward F8=Forward F10=Left	
F11=Right	F12=Cancel	

Figure 14. Browse Temporary Storage Entry panel

Process	Options	Help
FM/CICS Browse Transient Data Entry Panel		
Input Transient Data Queue:		
Queue name . . . .	_____	(Case sensitive)
Sysid . . . . .	_____	
Start position . .	_____	Record number
Record limit . . .	_____	Record sampling _
Copybook or Template:		
Data set name . .	_____	
Member . . . . .	_____	Blank or pattern for member list
Processing Options:		
Copybook/template	Enter "/" to select option	
3 1. Above	_____	Edit template Type (1,2,S)
- 2. Previous	_____	Include only selected records
3. None		
4. Create dynamic		
Command ==> _____ Applid _____		
F1=Help	F3=Exit	F4=Expand F7=Backward F8=Forward F10=Left
F11=Right	F12=Cancel	

Figure 15. Browse Transient Data Entry panel

**File name (CICS resource: File only)**

The 1–8 character name of the file you want to browse. It is used in conjunction with **Sysid** to produce a list of matching resources.

You can enter a fully-qualified or generic resource name. In a generic resource, use the percentage sign (%) to represent a single character, and an asterisk (\*) to represent any number of characters.

**Queue name (CICS resource: Temporary Storage only)**

The 1–16 character name of the temporary storage queue you want to browse. It is used in conjunction with **Sysid** and **Pool name** to produce a list of matching resources.

You can enter a fully-qualified or generic resource name. In a generic resource, use the percentage sign (%) to represent a single character, and an asterisk (\*) to represent any number of characters.

A CICS temporary storage queue name can contain mixed-case and unprintable characters. Therefore, this input field is case sensitive.

To view or enter the hex value of a TS queue name, place the cursor on the field and enter the EXPAND primary command (or equivalent function key). Enter the HEX ON command from within the expand pop-up panel to view and enter hex values.

**Queue name (CICS resource: Transient Data only)**

The 1–4 character name of the transient data queue you want to browse. It is used in conjunction with **Sysid** to produce a list of matching resources.

You can enter a fully-qualified or generic resource name. In a generic resource, use the percentage sign (%) to represent a single character, and an asterisk (\*) to represent any number of characters.

A CICS transient data queue name can contain mixed-case characters. Therefore, this input field is case sensitive.

**Sysid** The ID of the CICS systems where the resource resides. A blank value defaults to the local system.

## Browse Entry panels

You can enter a fully qualified or generic sysid. In a generic sysid, use the % sign to represent a single character, and an asterisk (\*) to represent any number of characters.

### **Pool name (CICS resource: Temporary Storage only)**

The TS pool name of a shared temporary storage pool and temporary storage processing shipped to the temporary storage server that manages the pool.

You can enter a fully-qualified or generic pool name. In a generic pool name use the percentage sign (%) to represent a single character, and an asterisk (\*) to represent any number of characters.

If you specify a **Sysid** value and a TS Pool name, then a list of queues that match either is produced from which you can select the appropriate queue for processing.

### **Start position**

Initial starting position for the data set to be browsed. The initial display is positioned at the specified record.

The default is the top of the data set. You can enter a negative record to indicate the number of records before the end of file. For example, to see just the last record on the file, enter -1 as the start point.

The format of the start position field is either numeric or character, depending upon the type of start position selected. For VSAM KSDS Key values, if the value you enter contains leading, embedded or trailing blanks, commas or quotation marks, it must be enclosed in quotation marks. You may also enter a hexadecimal string enclosed in quotation marks and preceded by X or x, for example, X'C1C2'.

This field is scrollable and can be expanded with the EXPAND primary command (or equivalent function key). See "Scrollable input and display fields for long names" on page 11.

For all other data set formats, a valid unsigned number must be entered.

To specify a starting position as the number of records before the end of file, enter a negative record number. For example, to see just the last record on the file, enter a start position of -1.

If you specify a starting position, you should also specify the **Start position type** in the Processing Options. If you do not, File Manager assumes that the value provided in the Starting position field is a record number.

### **VSAM - KSDS: Key value**

If the key is not matched, the record with a key greater than the value given is specified. If the key value is greater than the last record in the data set, the "Position not found" condition is returned.

### **VSAM - ESDS: RBA (Relative Byte Address) Value**

If the RBA is not matched, the record with a RBA greater than the value given is specified. If the RBA value is greater than that of the last record in the data set, the "Position not found" condition is returned.

### **VSAM - RRDS: Slot value**

If the slot number is greater than the last used slot in the data set, the "Position not found" condition is returned.



**Queues — temporary storage and transient data**

For queues, the start position is the record number. If the specified record number is greater than the number of records in the queue, the "Position not found" condition is returned.

**Record limit**

This field restricts the number of records retrieved from a data set (from the start point or top) resulting in an edit of a portion of the data set. You can use the keyword "MEMORY" as a record limit to restrict the number of records retrieved to as many as will fit comfortably in the available virtual storage.

The default start position is the top of the data set.

**Record Sampling**

Indicates whether you want record sampling to be performed on the data set. If you select this option, FM/CICS displays the Record Sampling panel.

**Copybook or Template**

Data set name and Member name of the template or copybook to be used to format your data.

**Note:** In the case of a copybook, this can be the name of a CA-Panvalet library, or a library accessed using the Library Management System Exit.

**Copybook/template usage**

Indicates if you want to use a template for a logical view of the data.

- 1 Use the template specified on the panel (or compile the specified copybook into a template, and use that).
- 2 Use the last template associated with the data set.
- 3 No logical view is to be used by the function.
- 4 Create a dynamic template.

**Start position type (CICS resource: File only)**

Determines how FM/CICS interprets the value provided in the Starting position field. If the Start position type is not specified, FM/CICS assumes that the value is a Record Number.

**1. KEY**

Only valid when the data set is a VSAM KSDS, VSAM AIX® or VSAM PATH.

**2. RBA**

Only valid when the data set is a CICS VSAM ESDS.

**3. Record Number**

Default. Valid for any type of supported data set.

**Edit template**

Indicates if you want to edit the template before use. You edit the template when you need to change format, selection, data create attributes, and reformatting information for output copy templates.

**Type (1,2,S)**

The type of editing you want to perform.

You can specify one of the following values:

- 1 Edit the Record Identification Criteria by field first

## Browse Entry panels

- 2 Edit the Record Selection Criteria by field first
- S Edit the source definition for a template using the advanced copybook selection facility.

This option is ignored when editing a dynamic template.

### Include only selected records

When the FM/CICS editor session is either in-storage (a record limit of "MEMORY" is used) or when you have selected **Record Sampling**, only the records selected by template processing are included in the Edit or Browse session.

This option does not alter the operation of the FM/CICS editor session if a template is not used.

### Use I/O exit

Allows you to specify a user I/O exit for compressed or encrypted data sets.

This option has two fields. To select the option, enter "/" in the field to the left of Use I/O exit. With this selected, you can then specify which exit to use in the field to the right of the field label.

### Note:

1. The fields only display if File Manager is installed with the option **USEIOX=ENABLE**, and the **Exit enabled** field (in the Set System Processing Options panel) is set to YES. If a default is specified with either of those options, it is displayed in the field to the right of Use I/O exit.
2. I/O exits can only be used to process the data sets that you are using. They cannot be used to process the copybook or template that you are using to format the data set.

## Parent panels

- "Primary Option Menu panels" on page 98 (when you enter DSB on the command line.)
- When you use the B prefix command in a list of CICS resources.

## Child panels

The next panel displayed depends on the options selected in the Browse CICS File Entry panel.

## Related tasks

- Chapter 3, "Viewing and changing CICS resources," on page 29

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## Change CUA Attributes panel

You use the Change CUA Attributes panel to adjust panel colors, intensity, and highlighting.

## Panel and field definitions

Change CUA Attributes

Command ===> \_\_\_\_\_

Change color, intensity, and highlighting attributes for panel elements.  
 Press F3 (Exit) to save changes or F12 (Cancel) to exit without saving.  
 Press F2 (Reset) to restore CUA defaults.

Panel Element	Color	Intensity	Highlight	More: +
AB Selected Choice	YELLOW	LOW	NONE	
AB Separator Line	BLUE	LOW	NONE	
AB Unavailable Choices	BLUE	LOW	NONE	
AB Unselected Choices	WHITE	HIGH	NONE	
Action Message Text	RED	HIGH	NONE	
Background Panel Border	BLUE	HIGH	NONE	
Caution Text	YELLOW	HIGH	NONE	
Choice Entry Field	TURQ	LOW	USCORE	
Column Heading	BLUE	HIGH	NONE	
Descriptive Text	GREEN	LOW	NONE	
Emphasized Text	TURQ	HIGH	NONE	
Error Emphasis	YELLOW	HIGH	REVERSE	

F1=Help F2=Reset F3=Exit F7=Backward F8=Forward F12=Cancel

Figure 16. Change CUA Attributes panel

### Parent panels

- Any FM/CICS panel.

### Child panels

- None.

### Related tasks

- “Changing panel colors, intensity, and highlighting” on page 24

---

## CICS Enqueue Resource panel

You use the CICS Enqueue Resource panel to display additional CICS attributes for the selected enqueue. You cannot change any of the fields on this panel.

## Panel and field definitions

Process	Options	Help
FMCICS	CICS Enqueue Resource	FMLOCK:TS TEST
General		
ENQ resource name FMLOCK:TS TEST		
Resource length . 255		
Duration . . . . . 2454		
Enqfails . . . . . 0		
Enqscope . . . . .		
Network UOW . . . . . ..AUIBMQXP.TCPS1355^5.!V...		
Program . . . . . FMN3CICS		
Purgeability . . . . . Not purgeable		
Relation . . . . . OWNER		
State . . . . . ACTIVE		
Sysid . . . . .		
Task . . . . . 0000241		
Transaction . . . . . FM		
Type . . . . . EXECENQ		
UOW . . . . . BE5FF5425AE5FD02		
Userid . . . . . SAMPLEID		
Qualifier . . . . .		
Qualifier length . 0		
Command ==>		
F1=Help	F3=Exit	F4=CRetrieval F7=Backward F8=Forward F10=Actions
F12=Cancel		

Figure 17. CICS Enqueue Resource panel

**ENQ resource name**

The 1–255 characters of the resource name associated with the enqueue lock.

**Resource length**

The length of the enqueue resource name.

**Duration**

The elapsed time in seconds since the enqueue entered its current state.

**Enqfails**

For retained enqueues, the number of failed enqueue attempts for this resource after the enqueue was last acquired.

**Enqscope**

If the enqueue has sysplex scope, the 4-character name which was used to qualify the sysplex-wide enqueue request issued by this CICS region is returned. If it has region scope, blanks are returned.

**Network UOW**

The 1–27 character network-wide LU6.2 ID of the UOW that issued the enqueue.

**Program**

The 1–8 character name of the first program invoked by the task executing the transaction specified in the **Transaction** field.

**Purgeability**

Indicates whether CICS is allowed to purge the task associated with the UOW that issued the enqueue.

**Relation**

Indicates whether the data being returned is associated with the owner of the enqueue or with a task waiting for the enqueue.

**State** The state that the enqueue is held in.

**Sysid** The System ID of the CICS system on which the enqueue resides. A blank value indicates the enqueue resides on the local system.

**Task** The number of the task associated with the UOW that issued the enqueue.

**Transaction**

The 1–4 character identifier of the transaction associated with the UOW that issued the enqueue.

**Type** The type of resource enqueued upon.

**UOW** The 16-character local identifier of the UOW that issued the enqueue.

**Userid**

The 1–8 character identifier of the user associated with the task specified in the **Task** field.

**Qualifier**

The optional 0–255 character qualifier that further identifies the resource associated with the enqueue.

**Qualifier length**

The length of the optional qualifier.

**Parent panels**

- “CICS Enqueue Selection List panel”

**Child panels**

- None.

**Related tasks**

- Chapter 7, “Working with CICS enqueues,” on page 45

---

## CICS Enqueue Selection List panel

The CICS Enqueue Selection List panel shows all the CICS enqueues that match the resource name and sysid values specified on the previous panel. Standard scrolling applies and you can sort any of the columns. You can also perform the following tasks:

- Display attributes related to the CICS enqueue (A or S prefix command)
- Issue PURGE against the task that issued the selected CICS enqueue (P prefix command)
- Issue FORCEPURGE against the task that issued the selected CICS enqueue (F prefix command)

## Panel and field definitions

Process		Options		Help		
File Manager		CICS Enqueue Selection List		Row 00001 of 00001		
Resource name (first 36 characters)		Task	Tran	Program	User	Purg +
* FMLOCK:TS TS02		165	FM	FMN3CICS	CICSUSER	NO
**** End of data ****						
Command ==>						
F1=Help	F3=Exit	F4=CRetriev	F5=RFind	F7=Backward	F8=Forward	Scroll PAGE
F10=Left	F11=Right	F12=Cancel				

Figure 18. CICS Enqueue Selection List panel

**Prefix area (first column)**

You can use the prefix area to enter the following commands:

- A** Displays the CICS Enqueue Resource panel from which you can display and alter the CICS information associated with a given CICS resource, CICS files, or CICS enqueues. Transient data intrapartition and extrapartition only.
- F** Issue FORCEPURGE against the task that issued the selected CICS enqueue. CICS enqueues only.
- P** The print function is invoked for the CICS file or queue. Option 3.4 only.  
For CICS enqueues, PURGE is issued against the task that issued the selected CICS enqueue.
- S** For enqueues, the A (Attributes) prefix command is substituted. For any other function selection list, this selects the resource for the calling function.

**Resource Name**

The first 36 characters of the resource name associated with the enqueue lock. The full resource name can contain 255 characters and can be viewed by entering the A prefix command.

**Task** The number of the task associated with the UOW that issued the enqueue.

**Tran** The 1–4 character identifier of the transaction associated with the UOW that issued the enqueue.

**Program**

The 1–8 character name of the first program invoked by the task executing the transaction specified in the **Tran** field.

**User** The 1–8 character identifier of the user associated with the task specified in the **Task** field.

**Purge** Indicates whether CICS is allowed to purge the task associated with the UOW that issued the enqueue (Purgeability).

**SYS** The System ID of the CICS system on which the enqueue resides. A blank value indicates the enqueue resides on the local system.

### Parent panels

- “List CICS Resources Entry panel” on page 97
- Any FM/CICS entry panel where you use a wildcard when specifying a CICS resource name.

### Child panels

- “CICS Enqueue Resource panel” on page 71

### Related tasks

- Chapter 7, “Working with CICS enqueues,” on page 45

## CICS File Selection List panel

The FM/CICS File Selection List panel shows all the files that match the file name and sysid values specified on the previous panel. Standard scrolling applies and you can sort any of the columns with exception of the Status columns. You can also perform the following tasks:

- Open and close files, and modify various file attributes.
- Display catalog information associated with a data set name.
- Invoke various File Manager functions against a file.

### Panel and field definitions

Process	Options	Help
File Manager	CICS File Selection List	Row 00001 of 00002
File	Data Set Name	Type O E R U A B D SY +
MO*	*	* P N E P D R E *
		E A A D D O L
MODEL	FMN.REGTEST.CICS.MODELS.KSDS	KSDS O E R - - B -
MODELS	FMN.REGTEST.RFM0029.MODELS.KSDS	KSDS O E R - - B -
**** End of data ****		
Command ==>		
F1=Help	F3=Exit	F4=CRetriev F5=RFind F7=Backward F8=Forward
F10=Left	F11=Right	F12=Cancel

Figure 19. CICS File Selection List panel

### Prefix area (first column)

You can use the prefix area to enter the following commands:

- A** FM/CICS displays the File Information panel from which you can display and alter the CICS information associated with a given

## CICS File Selection List panel

CICS resource, CICS files, or CICS enqueues. Transient data intrapartition and extrapartition only.

- B** Perform a BROWSE command against the CICS file. Option 3.4 only.
- E** Perform an EDIT command against the CICS file. Option 3.4 only.
- I** Perform an INFO command against the CICS resource if a z/OS data set is associated with it. This command displays the data set details and, for VSAM entries, also displays statistics and allocation information.
- S** For option 3.4, the edit prefix command (E) is substituted for files and queues. For enqueues, the A (Attributes) prefix command is substituted. For any other function selection list, this selects the resource for the calling function.
- P** The print function is invoked for the CICS file or queue. Option 3.4 only.  
  
For CICS enqueues, PURGE is issued against the task that issued the selected CICS enqueue.
- V** Perform a VIEW command against the CICS resource. Option 3.4 only.
- X** Perform an EXTENTS command against the CICS resource if a z/OS data set is associated with it. This command displays the statistics and extent information for a data set.

**File** The 1–8 character CICS file name.

**Data set name**

The name of the associate z/OS data set (if available).

**Type** The type of the associated z/OS data set. The value is VSAM or BDAM for closed files. If a VSAM file is open, **Type** contains KSDS, ESDS, AIX, PATH, RRDS, VRDS values describing the type of VSAM file. For CICS data tables, **Type** contains TABL.

**Status** Shows the CICS file attributes and the current status of the file. The status can be changed by overtyping and pressing Enter.

**Ope** You can change the open status by overtyping the character with an "O" to open, or "C" to close.

**Ena** You can change the enable status by overtyping the displayed character with an "E" to enable, or "D" to disable. A "U" status is only displayed when a file has had a close issued against it.

**Rea** This field has either the value "R" or blanks. To change the status, type "R" in the displayed character to set the status, or blank to disallow read to the file.

**Note:** The read status can only be cleared when browse (**Bro**), update (**Upd**) and delete (**Del**) are also cleared.

**Upd** This field has either the value "U" or blanks. To change the status, type "U" in the displayed character to set the status, or blank to disallow updates to the file.



**Add** This field has either the value "A" or blanks. To change the status, type "A" in the displayed character to set the status, or blank to disallow ADDs to the file.

**Bro** This field has either the value "B" or blanks. To change the status, type "B" in the displayed character to set the status or blank to disallow BROWSE to the file.

**Del** This field has either the value "D" or blanks. To change the status, type "D" in the displayed character to set the status or blank to disallow DELETes to the file.

**Sys** The System ID of the CICS system on which the file has been defined.

### Parent panels

- "List CICS Resources Entry panel" on page 97
- Any FM/CICS entry panel where you use a wildcard when specifying a CICS resource name.

### Child panels

- "File Information panel" on page 86

### Related tasks

## CICS Temporary Storage Selection List panel

You use the CICS Temporary Storage Selection List panel to list all matching temporary storage queues.

### Panel and field definitions

Process	Options	Help							
File Manager		CICS Temporary Storage Selection List					Row 00001 of 00002		
Queue	Loc	Items	Size	Max	Min	Tran	Last	SYS	Pool
*	*					*		*	*
TS01	AUX	1	128	128	128	FM	666		
TS02	AUX	1	128	128	128	FM	567		
**** End of data ****									
Command ==>									
F1=Help	F3=Exit	F4=CRetrie	F5=RFind	F7=Backward	F8=Forward	Scroll PAGE			
F10=Left	F11=Right	F12=Cancel							

Figure 20. CICS Temporary Storage Selection List panel

### Prefix area(first column)

You can use the prefix area to enter the following commands:

**B** Perform a BROWSE command against the CICS queue.

## CICS Temporary Storage Selection List panel

- D** Delete a temporary storage queue, or delete all the items for a transient data intrapartition queue.
- E** Perform an EDIT command against the CICS queue.
- P** Print a temporary storage queue.
- S** Select a single CICS queue and return to the name for processing by the current function.
- V** Perform a VIEW command against the CICS resource.

### Queue

The 1–16 character CICS queue ID.

**Loc** The location of the temporary storage queue:

**AUX** The temporary storage queue is held in the CICS temporary storage VSAM data set.

**MAIN** The temporary storage queue is held in main storage.

**Items** The number of items currently on this queue.

**Size** Total length of all the items for the queue.

**Max** The length of the largest item in the queue.

**Min** The length of the smallest item in the queue.

**Tran** The identifier of the transaction that created the queue.

**Last** The interval in seconds since the queue was last referenced.

**SYS** The system ID of the CICS system on which the file has been defined.

**Pool** The shared TS pool name. this is blank for a non-shared pool.

### Parent panels

- “List CICS Resources Entry panel” on page 97
- Any FM/CICS entry panel where you use a wildcard when specifying a CICS resource name.

### Child panels

- None.

### Related tasks

- “Viewing queue names with unprintable characters” on page 40

---

## CICS Transient Data Queue Selection List panel

The CICS Transient Data Queue Selection List panel shows all the queues that match the queue name and sysid values specified on the previous panel. Standard scrolling applies and you can sort all of the columns with exception of the status columns. You can also perform the following tasks:

- Open close and modify various queue attributes.
- Display catalog information for extrapartition data sets.
- Invoke various File Manager functions against a queue.

Figure 21. CICS Transient Data Queue Selection List panel

You can use the prefix area to enter the following commands:

- |          |   |
|----------|---|
| <b>A</b> | Display and alter the CICS information associated with a given CICS resource, CICS files, or CICS enqueues. Transient data intrapartition and extrapartition only.  |
| <b>B</b> | Perform a BROWSE command against the CICS TD queue.   |
| <b>D</b> | Delete the CICS resource.   |
| <b>E</b> | Perform an EDIT command against the CICS queue.   |
| <b>I</b> | Perform an INFO command against the CICS resource if a z/OS data set is associated with it. This command displays the data set details and, for VSAM entries, also displays statistics and allocation information.                          |
| <b>P</b> | Print the CICS resource.  |
| <b>S</b> | For option 3.4, the edit prefix command (E) is substituted for files and queues. For enqueues, the A (Attributes) prefix command is substituted. For any other function selection list, this selects the resource for the calling function. |
| <b>V</b> | Perform a VIEW command against the CICS resource.   |
| <b>X</b> | Perform an EXTENTS command against the CICS resource if a z/OS data set is associated with it. This command displays the statistics and extent information for a data set.  |

The 1-4 character CICS queue ID.

<b>Type</b>	Type of queue:
<b>IND</b>	Indirect queue
<b>EXT</b>	Extrapartition queue
<b>INT</b>	Intrapartition queue

## CICS Transient Data Queue Selection List panel

<b>SYS</b>	The System ID of the CICS system on which the file has been defined.
<b>INDQ</b>	(Indirect) The 1–4 character queue name that an indirect queue points to. This column is blank for other types of queues.
<b>Tran</b>	(Intrapartition) The 1–4 character transaction to be executed when CICS initiates a task automatically to process the queue. This column only applies to intrapartition queues and is protected for other types of queues. You can overwrite the transaction ID with valid CICS transaction characters.
<b>Term</b>	(Intrapartition) The 1–4 character terminal or session associated with the queue. If the facility is a terminal, you can overwrite this value with a valid terminal ID. This column only applies to intrapartition queues with a terminal facility.
<b>User</b>	(Intrapartition) The 1–8 character user identifier associated with the queue. If the facility is not a terminal, you can overwrite this value with a valid user ID. This column only applies to intrapartition queues without a terminal facility.
<b>Trig</b>	(Intrapartition) The number of items the queue must reach before automatic transaction initiation (ATI) occurs. You can overwrite this value with a valid number.
<b>Items</b>	(Intrapartition) The number of items currently on this queue.
<b>DDNam</b>	(Extrapartition) The DD name for the extrapartition queue.
<b>DSP</b>	(Extrapartition) The disposition of the extrapartition data set.
<b>OPE</b>	(Extrapartition) You can change the open status by overtyping the character with an O to open, or C to close.
<b>ENA</b>	You can change the enable status by overtyping the displayed character with an E to enable or D to disable. This field only applies to extrapartition and intrapartition queues.
<b>INP</b>	(Extrapartition) Indicates the extrapartition data set is opened for input.
<b>OUT</b>	(Extrapartition) Indicates the extrapartition data set is opened for output.
<b>BCK</b>	(Extrapartition) Indicates the queue is defined for input and is read backward.
<b>EMP</b>	(Extrapartition) Indicates that CICS has detected an empty (E) or full (F) status for the queue.

### Parent panels

- “List CICS Resources Entry panel” on page 97
- Any FM/CICS entry panel where you use a wildcard when specifying a CICS resource name.

### Child panels

- “Extrapartition Queue panel” on page 83
- “Intrapartition Queue panel” on page 93

### Related tasks

## Edit Entry panels

You use the Edit Entry panels to enter the name of a resource to be edited. You also use these panels to specify the name of the copybook or template that describes a logical view of the data set.

There are three different Edit Entry panels. The type of Edit Entry panel that FM/CICS displays depends on which **CICS Resource** you selected on the Primary Option Menu panel:

Table 4. Edit Entry panels

CICS Resource	Edit Entry panel displayed
File	Edit CICS File Entry panel
Temporary Storage	Edit Temporary Storage Entry panel
Transient Data	Edit Transient Data Entry panel

The Edit Entry panels are virtually identical to the corresponding Browse Entry panels with the following additional options:

- **Inplace edit**
- **Lock resource**
- **Name**
- **Create audit trail**

Each of the Edit Entry panels is shown below followed by a description of the four entry additional fields mentioned above. For an explanation of the other fields in this panel, see the field definitions in “Browse Entry panels” on page 65.

### Panel and field definitions

Process	Options	Help
FM/CICS	Edit CICS File Entry Panel	
Input CICS VSAM File:		
File name . . . . .	_____	
Sysid . . . . .	_____	
Start position . . . . .	_____	
Record limit . . . . .	_____	Record sampling _____
Inplace edit . . . . .	_____	Prevent inserts and deletes _____
Lock resource . . . . .	_____	Name _____
Copybook or Template:		
Data set name . . . . .	_____	
Member . . . . .	Blank or pattern for member list _____	
Processing Options:		
Copybook/template	Start position type	Enter "/" to select option
3 1. Above	1. Key	Edit template Type (1,2,S)
2. Previous	2. RBA	Include only selected records
3. None	3. Record number	Create audit trail
4. Create dynamic		
Command ==> _____ Applid _____		
F1=Help	F3=Exit	F4=Expand F7=Backward F8=Forward F10=Left
F11=Right	F12=Cancel	

Figure 22. Edit CICS File Entry panel

Process	Options	Help
FM/CICS	Edit Temporary Storage Entry Panel	
Input Temporary Storage Queue:		
Queue name . . . .	(Case sensitive)	
Sysid . . . . .		
Pool name . . . .		
Start position . .	Record number	
Record limit . . .	Record sampling	
Inplace edit . . .	Prevent inserts and deletes	
Lock resource . .	Name	
Copybook or Template:		
Data set name . .		
Member . . . . .	Blank or pattern for member list	
Processing Options:		
Copybook/template	Enter "/" to select option	
3 1. Above	Edit template Type (1,2,S)	
2. Previous	Include only selected records	
3. None	Create audit trail	
4. Create dynamic		
Command ==>		
F1=Help	F3=Exit	F4=Expand F7=Backward F8=Forward F10=Left
F11=Right	F12=Cancel	

Figure 23. Edit Temporary Storage Entry panel

Process	Options	Help
FM/CICS	Edit Transient Data Entry Panel	
Input Transient Data Queue:		
Queue name . . . .	(Case sensitive)	
Sysid . . . . .		
Start position . .	Record number	
Record limit . . .	Record sampling	
Inplace edit . . .	Prevent inserts and deletes	
Lock resource . .	Name	
Copybook or Template:		
Data set name . .		
Member . . . . .	Blank or pattern for member list	
Processing Options:		
Copybook/template	Enter "/" to select option	
3 1. Above	Edit template Type (1,2,S)	
2. Previous	Include only selected records	
3. None	Create audit trail	
4. Create dynamic		
Command ==>		
F1=Help	F3=Exit	F4=Expand F7=Backward F8=Forward F10=Left
F11=Right	F12=Cancel	

Figure 24. Edit Transient Data Entry panel

### Inplace edit

If you select this option, the edit session does not allow you to insert or delete records.

If Inplace edit is not selected for queues, then FM/CICS uses an auxiliary file to allow rewriting of the data.

You must select **Inplace edit** when using any of the following:

- A segmented record type data set (as indicated by your chosen template)
- Record sampling
- A record limit of "MEMORY"
- A VSAM data set defined as NOREUSE

**Lock resource**

Causes a CICS enqueue to be issued with the enqueue resource name specified in the corresponding **Name** field during the Edit session. The enqueue is issued on the local system that is running FM/CICS.

When editing TS and TD queues, FM/CICS also issues a CICS enqueue that occurs regardless of the Lock setting. The enqueue is issued on the **local system** that is running FM/CICS. This prevents concurrent update access against a TS or TD queue by multiple FM/CICS instances on the same system. FM/CICS uses the following naming convention for the internally generated CICS enqueue resource name: FMLOCK:xxsysidname where:

xx      TD or TS.

sysid    The ID of the CICS system where the resource resides. A blank value indicates the resource resides on the local system.

name    The name of the queue.

**Name** If the **Lock resource** field is selected, FM/CICS issues a CICS enqueue with the resource name specified in this field for the duration of the Edit session. FM/CICS issues the CICS enqueue with a resource length of 255 and pads all unused characters with blanks.

**Create audit trail**

Determines if FM/CICS generates an audit report of all successful modifications to data made during an Edit session.

The display of this option depends on whether SAF-rule controlled is in effect. See "SAF-rule controlled auditing" in the *File Manager User's Guide and Reference for DB2 Data*.

The ability to change this option depends on the installation options (in the FMN3POPT macro). The **Create audit trail** option can be:

- When your system administrator has enforced audit logging, the **Create audit trail** option in this panel is ignored.
- When your system administrator has not enforced audit logging, you can set this option on or off for any particular editing task. Type a "/" in the option entry field to generate audit reporting for the current Edit session.

For more information about setting the Audit Trail options, refer to the *File Manager Customization Guide* or see your systems administrator.

**Parent panels**

- "Primary Option Menu panels" on page 98

**Child panels**

The next panel displayed depends on the options selected in the Edit Entry panel.

**Related tasks**

- Chapter 3, "Viewing and changing CICS resources," on page 29

---

**Extrapartition Queue panel**

The Extrapartition Queue panel displays the CICS information for the associated queue. You can change the status of the queue from this panel.

## Extrapartition Queue panel

You can change the status fields on this panel and view the other information. If the status change fails, you are provided with the CICS command (func=) and error codes which are found in the command code section of the *CICS Application Programming Reference*. If the request fails, the displayed status represent the current status of the queue.

### Panel and field definitions

<u>P</u> rocess	<u>O</u> ptions	<u>H</u> elp
FM/CICS		
Extrapartition Queue CAFF		
General		
Status . . . . .	Open	Enabled
Sysid . . . . .	OPEN	ENABLED
DDname . . . . .	CAFF	
Disposition . . .	SHR	
Sysout Class . . .	*	
Record Format . .	V	
Record Length . .	133	
Blocksize . . . .	137	
Attributes . . . .	OUTPUT	IGNORERR
Command ===> _____		
Scroll <u>C</u> SR		

Figure 25. Extrapartition Queue panel

**Open** You can change the open status by overtyping the first character with an O to open, or C to close. The following status values can be displayed:

**OPEN** Queue is open  
**OPENING**  
Queue is being opened  
**CLOSED**  
Queue is closed  
**CLOSING**  
Queue is being closed

#### Enabled

You can change the enable status by overtyping the first character with an E to enable, or D to disable. The following status values can be displayed:

**DISABLED**  
Queue is disabled  
**DISABLING**  
Queue is being disabled  
**PENDING**  
Queue is being pending  
**ENABLED**  
Queue is enabled

**Sysid** This value is blank for the local system on which File Manager is running and represents the connection ID for remote resources.

#### DDname

8-character identifier (padded with blanks if necessary) that may refer to a data set name used in the startup JCL.



**Data set name**

A 1–44 character name that indicates an associated QSAM data set, or DUMMY data set.

**Disposition**

The disposition for the associated data set:

**MOD** The system first assumes that the data set exists. For an existing data set, MOD causes the read/write mechanism to be positioned after the last record in the data set. The read/write mechanism is positioned after the last record each time the data set is opened for output. If the system cannot find volume information for the data set on the DD statement, in the catalog, or passed with the data set from a previous step, the system assumes that the data set is being created in this job step. For a new data set, MOD causes the read/write mechanism to be positioned at the beginning of the data set.

**NOTAPPLIC**

The option does not apply because the queue is not open or is not an extrapartition queue.

**OLD** The data set existed before this job step.

**SHR** The data set existed before this job step and can be read by other concurrent jobs.

**Sysout Class**

A single character indicating the class attribute of the associated SYSOUT data set.

**Record Format**

FIXED or VARIABLE to indicate whether the queue has fixed or variable length records.

**Record Length**

The record length (in bytes) for queues having fixed-length records, or the maximum record length for queues having variable-length records.

**Blocksize**

The length of the block in bytes (in the range 1–32767).

**Attributes**

Describes attributes of the queue:

**BACKWARD**

The input queue is read backwards

**INPUT**

This is an input queue

**OUTPUT**

This is an output queue

**EMPTY**

The queue is empty

**FULL** The queue is full

**IGNORERR**

A block that causes an I/O error will be accepted

**SKIP** A block that causes an I/O the error will be skipped

## Extrapartition Queue panel

### LEAVE

The current tape is positioned to the logical end of the data set

### REREAD

The current tape is positioned to reprocess the data set

## Parent panels

- “CICS Transient Data Queue Selection List panel” on page 78

## Child panels

- None.

## Related tasks

---

## File Information panel

You use the File Information panel to display the CICS file control information for the associated file. You can change the status of the file and various attributes from this panel.

## Panel and field definitions

<u>P</u> rocess	<u>O</u> ptions	<u>H</u> elp
FM/CICS File Information FMKSDS5		
Changeable:	Open	Enabled
Status . . . . .	OPEN	ENABLED
Data Set Name . .	'FMN.CICS.TEST.KSDS.FIXED.RECOVER'	
Strings . . . . .	5	
Disposition	RLS access	Read Integrity
1 1. SHR	2 1. Not applicable	1 1. Not applicable
2. OLD	2. No RLS	2. Consistent
	3. RLS	3. Repeatable
General:		4. Uncommitted
Sysid . . . . .		
Type . . . . .	KSDS	
Key position . .	0	
Key length . . .	11	
LSR Pool value .	0	
Record size . . .	80	
Journal number .	0	
Attributes . . .	FWDRECOV RECOV LOCKING	
Command ==> Scroll CSR		

Figure 26. File Information panel

## Changeable

This section of the panel contains file attributes that you can alter. Any change causes a close of the file, followed by an attempted change with attributes you have requested. If the request fails, you are provided with the CICS command (func=) and error codes which can be located in the *CICS Application Programming Reference* under the command code section. If the request fails, the displayed attributes represent the current status of the file.

- Open** You can change the open status by overtyping the first character with "O" to open, or "C" to close. The following status values can be displayed:
- OPEN** File is open.

**OPENING**

File is being opened.

**CLOSED**

File is closed.

**CLOSING**

File is being closed.

**CLOSEREQ**

A close has been requested.

**Enabled**

You can change the enable status by overtyping the first character with "E" to enable, or "D" to disable. The following status values can be displayed:

**DISABLED**

File is disabled.

**DISABLING**

File is being disabled.

**ENABLED**

File is enabled.

**UNENABLED**

File is closed unenabled.

**UNENABLING**

File is being unenabled.

**Read** This field has either the value READ or blanks. To change the status, type "R" in the first byte to set the status, or clear the field to disallow READ to the file.

**Note:** The read status can only be cleared when **Browse**, **Update**, and **Delete** are also cleared.

**Update**

This field has either the value UPDATE or blanks. To change the status, type "U" in the first byte to set the status, or clear the field to disallow updates to the file.

**Add** This field has either the value ADD or blanks. To change the status, type "A" in the first byte to set the status, or clear the field to disallow ADDs to the file.

**Browse**

This field has either the value BROWSE or blanks. To change the status, type "B" in the first byte to set the status, or clear the field to disallow BROWSE to the file.

**Delete** This field has either the value DELETE or blanks. To change the status, type "D" in the first byte to set the status, or clear the field to disallow DELETES to the file.

**Data Set Name**

This field contains the associated data set name. You can enter a fully-qualified or generic data set name to change the name. In a generic data set name, use the percent (%) sign to represent a single character, and an asterisk (\*) to represent any number of characters within one qualifier. Two asterisks (\*\*) represent any number of qualifiers.

**Strings**

This field contains the string number value associated with a VSAM file. It is a value within the range 1–255.

### Disposition

You can change the disposition by changing the selection number:

- 1 DISP=SHR
- 2 DISP=OLD

### RLS Access

You can change the RLS access value by changing the selection number:

- 1 Does not apply to remote or BDAM data set.
- 2 The data set is not accessed in RLS mode.
- 3 The data set is accessed in RLS mode.

**Note:** You may get errors opening a file on CICS systems where RLS is not supported.

### Read Integrity

You can change the read integrity by changing the selection number:

- 1 Does not apply to VSAM accessed in non-RLS mode, remote, BDAM, or CFDT files.
- 2 Consistent. Read requests for this file are subject to consistent read integrity (unless otherwise specified on the read request).
- 3 Repeatable. Read requests for this file are subject to repeatable read integrity (unless otherwise specified on the read request).
- 4 Uncommitted. No read integrity for this file.

### General:

The following fields are values that cannot be changed for the associated CICS file:

#### SYSID

Blank for the local system on which File Manager is running and represents the connection ID for remote resources.

**Type** VSAM or BDAM for closed files. If a VSAM file is open, this field contains KSDS, ESDS, AIX, PATH, RRDS, VRRDS values describing the type of VSAM file. For CICS data tables, **Type** contains TABL.

#### Key position

Shown for VSAM files with a keylength > 0 and is the starting position of the key.

#### Key length

Shown for VSAM files with a keylength > 0 and is the key length.

#### LSR Pool value

Number indicating the VSAM LSR pool associated with this file. In the range 1–8.

#### Record size

Maximum record size for variable files or record length for fixed files.

#### Journal number

A number between 1 and 99 corresponding to the number of the

journal to which CICS writes information required for auto journaling. A value of 0 indicates JOURNAL(NO) is specified for the file.

**Attributes**

The following literals are displayed describing various attributes of the file:

**Emptyreq**

A reusable VSAM file is reset on open.

**Load** The coupling facility data table is, or is to be, preloaded from a source data set.

**FWDRECOV**

The file is forward recoverable.

**RECOV**

The file is recoverable.

**CFTABLE**

Coupling facility data table.

**CICSTABLE**

CICS-maintained data table.

**USERTABLE**

User-maintained data table.

**KEYED**

The data is addressed by physical keys

**CONTENTION**

The coupling facility data table is updated using the contention model.

**LOCKING**

The coupling facility data table is updated using the locking model.

**EXTENDED**

This VSAM data set uses extended relative byte addressing.

**Table name**

Shown for coupling facility data tables and is the coupling facility data table name.

**Table pool**

Shown for coupling facility data tables and is the name of the coupling facility data table pool in which the coupling facility data table resides.

**Max records**

Shown for data tables and indicates the maximum number of records that the data table for this file can hold. A value of 0 may indicate the resource was defined with NOLIMIT.

**Parent panels**

- “CICS File Selection List panel” on page 75

**Child panels**

- None.

## File Manager for CICS Logon panels

There are two forms of the File Manager for CICS Logon panel: one to submit a batch job that invokes FM/CICS (displayed when START=BATCH is in effect at logon), and one for non-batch invocation of FM/CICS (displayed when START=TASK is in effect at logon).

### Panel and field definitions

```

----- File Manager for CICS Logon -----

Enter Logon parameters

Userid . . . . . FMNUSER

Password . . . . .          New Password . . .

Node . . . . . PTHAPD0      (Machine the job is to be run on)

Procedure. . . . . FMN3CICB  (Procedure to run File Manager)

Profile data set . . . FMNUSER.IPV.IPVPROF

Prefix . . . . . FMNUSER    (Default prefix for data sets)

Jobcard
//FM&TERM.B JOB (,,,,)&USER,
//      MSGCLASS=A,MSGLEVEL=(1,1),CLASS=A

F1=Help  F3=Logoff  F4=Reset  F5=Wait  F6=Default  F12=Cancel
Enter=Submit

```

Figure 27. File Manager for CICS Logon panel - batch invocation

```

----- File Manager for CICS Logon -----

Enter Logon parameters

Userid . . . . . FMNUSER

Password . . . . .          New Password . . .

Profile data set . . . FMNUSER.IPV.IPVPROF

Prefix . . . . . FMNUSER    (Default prefix for data sets)

Port . . . . . 2054

Host name

F1=Help  F3=Logoff  F4=Reset  F6=Default  F12=Cancel

```

Figure 28. File Manager for CICS Logon panel - non-batch invocation

### Userid

A 1–7 character MVS userid. For batch invocation, this is the owner of the submitted job. This is specified when invoking the File Manager transaction.

**Password**

The current password for the MVS userid. The password is not visible during logon.

**New Password**

A new password (if you want to change the current password for the MVS userid).

**Node** (Batch invocation only.) The 1–8 character machine Node on which the job is to run. A `/*ROUTE XEQ node.user` statement is added after the job card to run the job on the specified machine.

**Procedure**

(Batch invocation only.) The 1–8 character procedure name that has been setup to run File Manager on your system. The default procedure is FMN3CICB.

**Profile data set**

The profile data set used to save session information for subsequent invocations.

**Prefix** 1–8 character value used as the prefix high-level qualifier when specifying unquoted data sets during the File Manager session.

**Jobcard**

(Batch invocation only.) The jobcard used for the submitted job. The jobcard can use the following variables which are substituted when the job is submitted:

**&TERM**

The current 1–4 character terminal ID is substituted.

**&USER**

The current 1–7 character MVS userid is substituted.

**Note:**

1. You can terminate the variable with a period which will also be removed during substitution.
2. The jobcard should be unique and assigned to a class where it will run immediately.

**Port** (Non-batch invocation only.) Port number which used to connect to the PDTCC Server. This value is defined in the FMN3POPT options module currently loaded.

**Host name**

(Non-batch invocation only.) Host name of the system where the PDTCC Server is running. This value is defined in the FMN3POPT options module currently loaded. If a host name is blank, then File Manager for CICS obtains and uses the host name of the current system.

The function keys are:

**F1** Help panel.

**F3** Exit. Exit File Manager and save logon parameters.

**F4** Reset. Restore logon parameters as at start of session.

**F5** (Non-batch invocation only.) Wait. Use this to tell File Manager to wait another 20 seconds when the batch job has not been responding.

**F6** Default: Change the logon parameters to the installation defaults.

**F12** Cancel. Exit File Manager without saving logon parameters.

### Parent panels

- CICS logon panel

### Child panels

- “Primary Option Menu panels” on page 98

### Related tasks

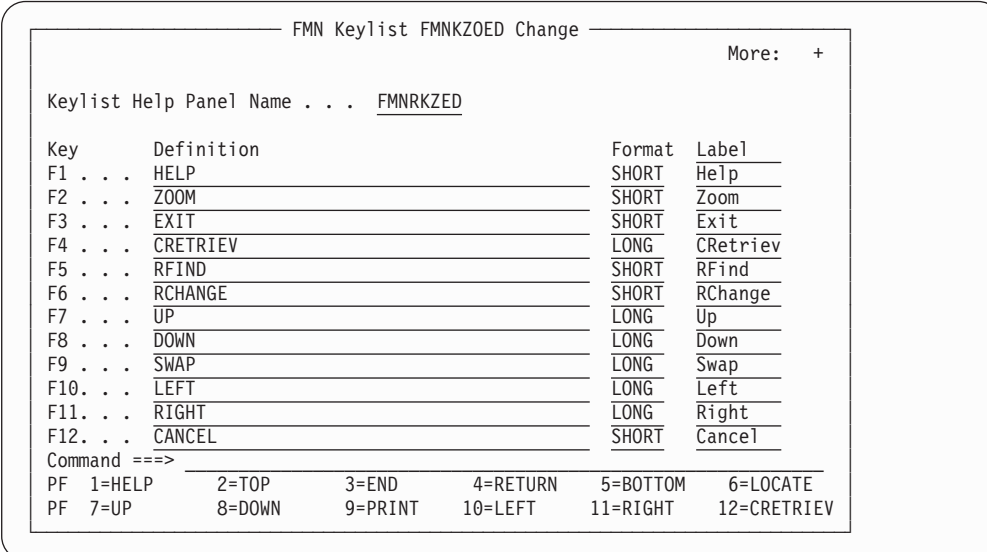
“Starting FM/CICS” on page 5.

---

## FMN Keylist Change panel

You use the FMN Keylist Change panel to display and modify the keys for the current function.

### Panel and field definitions



FMN Keylist FMNKZ0ED Change More: +

Keylist Help Panel Name . . . FMNRKZED

Key	Definition	Format	Label
F1 . . .	HELP	SHORT	Help
F2 . . .	ZOOM	SHORT	Zoom
F3 . . .	EXIT	SHORT	Exit
F4 . . .	CRETRIEV	LONG	CRetriev
F5 . . .	RFind	SHORT	RFind
F6 . . .	RCHANGE	SHORT	RChange
F7 . . .	UP	LONG	Up
F8 . . .	DOWN	LONG	Down
F9 . . .	SWAP	LONG	Swap
F10 . . .	LEFT	LONG	Left
F11 . . .	RIGHT	LONG	Right
F12 . . .	CANCEL	SHORT	Cancel

Command ==>

PF 1=HELP	2=TOP	3=END	4=RETURN	5=BOTTOM	6=LOCATE
PF 7=UP	8=DOWN	9=PRINT	10=LEFT	11=RIGHT	12=CRETRIEV

Figure 29. FMN Keylist Change panel

You can change the current key list values by the values displayed. You can scroll up and down to view all the function key values.

The fields shown on the Function keys change panel are:

#### Keylist help panel name

The name of the help panel for this keylist.

**Key** Function key

#### Definition

The command for each assigned function key.

#### FORMAT

You can enter one of the following values:



**LONG**

Indicates that you want this key label to display only when you request the long form of the function key area. Long is the default.

**SHORT**

Indicates that you want this key label to display when you request either the short or long form of the function key area.

**NO**

Indicate that the key label should never be displayed in the function key area.

**Label** Enter the label you want to appear with each assigned function key.

**Parent panels**

- Any FM/CICS panel.

**Child panels**

- None.

**Related tasks**

- “Changing the current key list values” on page 24

## Intrapartition Queue panel

You use the Intrapartition Queue panel to display the CICS information for the associated queue. You can change the status of the queue from this panel.

**Panel and field definitions**

<u>P</u> rocess	<u>O</u> ptions	<u>H</u> elp
FM/CICS	Intrapartition Queue CSZX	
Changeable:	Enabled	
Status . . . . .	ENABLED	
Transaction . . .	CZUX	
Terminal . . . .		
User . . . . .	CICSUSER	
Trigger level . .	1	
Facility		
1 1. No Terminal		
2. Terminal		
General:		
Sysid . . . . .		
Number of items .	0	
Attributes . . .	NOTRECOVERABLE	
Command ==> _____ Scroll <u>C</u> SR		

Figure 30. Intrapartition Queue panel

**Changeable fields**

This section of the panel contains queue attributes that you can alter. Any change causes the associated queue to be disabled followed by an attempted change with attributes you have requested. If the request fails, you are provided with the CICS command (func=) and error codes which can be found in command code section of the *CICS Application*

## Intrapartition Queue panel

*Programming Reference.* If the request fails, the displayed attributes represent the current status of the queue.

### Enabled

You can change the enable status by overtyping the first character with an E to enable, or D to disable. The following status values can be displayed:

#### DISABLED

Queue is disabled

#### DISABLING

Queue is being disabled

#### PENDING

Queue is being pending

#### ENABLED

Queue is enabled

### Transaction

The 1–4 character transaction to be executed when CICS initiates a task automatically to process the queue. You can overwrite the transaction ID with valid CICS transaction characters.

### Terminal

The 1–4 character terminal or session associated with the queue. If the facility is set to terminal, then you can overwrite this value with a valid terminal ID.

**User** The 1–8 character user identifier associated with the queue. If the facility is a not a terminal, you can overwrite this value with valid user ID.

### Trigger level

The number of items the queue must reach before automatic transaction initiation (ATI) occurs. You can overwrite this value with a valid number.

### Facility

Indicates whether a terminal is associated with queue:

- 1 No terminal associated with queue
- 2 Terminal associated with queue

### General

The following fields cannot be changed for the associated CICS queue:

**Sysid** Blank for the local system on which File Manager is running, and represents the connection ID for remote resources.

### Number of items

The number of items currently on this queue.

### Attributes

Describes attributes of the queue:

#### QUEUE

The UOW is in doubt and waiting; any locks held by the UOW for this queue remain active until the final state of the UOW is known. This means that tasks are suspended rather than receiving the LOCKED response. When the final state of the UOW is known, any changes that it has made are committed or backed out. Until then, any further requests of the following types that need one of the active locks must wait:

**READQ**

The in doubt UOW has issued READQ or DELETEQ requests.

**WRITEQ**

The in doubt UOW has issued WRITEQ or DELETEQ requests.

**DELETEQ**

The in doubt UOW has issued READQ, WRITEQ, or DELETEQ requests.

**REJECT**

The UOW is in doubt and waiting, and any locks held by the UOW for this queue are retained until the final state of the UOW is known. When the final state is known, any changes it has made are committed or backed out. Until then, any further requests that need one of the retained locks are rejected, and a LOCKED condition is returned. REJECT causes LOCKED to be raised in exactly the same circumstances as those in which QUEUE causes a transaction to wait.

**WAIT** The UOW is to wait and any action required while waiting is determined by the WAITACTION option.

**NOWAIT**

The UOW is not to wait, and any changes made to recoverable resources are to be backed out or committed, as specified by the ACTION attribute on the transaction resource definition.

**LOGICAL**

The queue is logically recoverable.

**NOTRECOVERABLE**

The queue is not recoverable.

**PHYSICAL**

The queue is physically recoverable.

**Parent panels**

- “CICS Transient Data Queue Selection List panel” on page 78

**Child panels**

- None.

**Related tasks**

---

## IPDCC Settings panel

You use the IPDCC (IBM Problem Determination Tools Common Components) Settings panel to change various options and terminal characteristics that affect the way information is displayed on your screen.

## Panel and field definitions

Command ==> \_\_\_\_\_ IPDCC \_\_\_\_\_

Options:

- Enter "/" to select option
- / Command line at bottom
- / Panel display CUA mode
- / Tab to action bar choices
- Graphic border

Terminal Characteristics:

Screen format	2	1. Data	2. Std	3. Max
Terminal type	I	1. 3270	2. 3270KN	
PF 1=HELP	2=TOP	3=END	4=RETURN	5=BOTTOM
PF 7=UP	8=DOWN	9=PRINT	10=LEFT	11=RIGHT
				12=RETRIEV

Figure 31. IPDCC (IBM Problem Determination Tools Common Components) Settings panel

### Command line at bottom

Determines whether the command line and long message line appear at the bottom of your panel.

### Panel display CUA mode

Determines whether the panel is displayed in CUA mode and action bars are displayed.

### Tab to action bar choices

Determines whether the Tab key positions the cursor on action bar choices when not running in GUI mode.

### Graphic Border

Determines whether you can force dotted lines if the action bar separator line or borders are not displayed correctly.

### Screen Format

Determines the screen formatting. The supported formats are:

#### DATA (1)

Alternate screen sizes are used for expandable panels only.

#### STD (2)

Always format 24 lines by 80 characters

#### MAX (3)

Always uses the alternate screen size

### Terminal Type

Determines the terminal type. The supported types are as follows:

#### 3270 (1)

Terminal does not support Japanese Katakana characters.

#### 3270KN (2)

Terminal supports Japanese Katakana characters.

## Parent panels

- Any FM/CICS panel.

## Child panels

- None.

## Related tasks

- "Changing terminal characteristics" on page 23

## List CICS Resources Entry panel

You use the List CICS Resources Entry panel to list the resources matching the entered name, sysid, and TS pool.

### Panel and field definitions

ProcessOptionsHelp

FM/CICSList CICS Resources Entry Panel

CICS File, Transient Data, Temporary Storage Queue, or Enqueue Name:

Resource name . . .

Sysid . . . . .

TS pool name . . .

Processing Options:

CICS Resource

1

1. File

2. Temporary Storage (Case sensitive)

3. Transient Data (Case sensitive)

4. Enqueue

Command ==>Applid

F1=HelpF3=ExitF4=ExpandF7=BackwardF8=ForwardF10=LeftF11=RightF12=Cancel

Figure 32. List CICS Resources Entry panel

#### Resource name

A 1–36 character resource name used in conjunction with **Sysid** to produce a list of matching resources. It can also be used in conjunction with **TS pool name** for TS queues.

You can enter a fully-qualified or generic resource name. In a generic resource, use the % sign to represent a single character, and an asterisk (\*) to represent any number of characters.

If Temporary Storage or Transient Data is selected as the CICS resource type, the value entered in the **Resource name** input field is case sensitive.

**Sysid** The ID of the CICS systems where the resource resides. A blank value defaults to the local system.

You can enter a fully qualified or generic sysid. In a generic sysid, use the % sign to represent a single character, and an asterisk (\*) to represent any number of characters.

#### TS pool name

Pool Name (TS Data sharing only) (Default blanks) This is used to specify the pool name of a shared temporary storage pool and temporary storage processing is shipped to the temporary storage server that manages the pool. You can enter a fully qualified or generic pool name. In a generic pool name use the % sign to represent a single character, and an asterisk \* to represent any number of characters. If you specify a SYSID value and a TS Pool name then a list of queues that match either is produced from which you can select the appropriate queue for processing.

## List CICS Resources Entry panel

### CICS Resource

CICS resource processing type:

1. **File** CICS files
2. **Temporary Storage**  
CICS temporary storage queues
3. **Transient Data**  
CICS transient data queues
4. **Enqueue**  
CICS enqueues

### Parent panels

- “Utility Functions panel” on page 108

### Child panels

- “CICS File Selection List panel” on page 75
- “CICS Temporary Storage Selection List panel” on page 77
- “CICS Transient Data Queue Selection List panel” on page 78
- “CICS Enqueue Selection List panel” on page 73

### Related tasks

- Chapter 6, “Working with lists of CICS resources,” on page 39
- Chapter 7, “Working with CICS enqueues,” on page 45

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## Primary Option Menu panels

The Primary Option Menu panel is the starting point for all FM/CICS operations.

## Panel and field definitions

Process	Options	Help
FM/CICS	Primary Option Menu	
0 Settings	Set processing options	User ID . : JOHNLEV
1 Browse	Browse data	Appl ID . : FMN3
2 Edit	Edit data	CICS User : CICSUSER
3 Utilities	Perform utility functions	CICS Appl : C62D2FM3
4 Templates	Template and copybook utilities	Date. . . : 2008/06/12
FM FM	File Manager z/OS	
FI FM/IMS	File Manager for IMS z/OS	
FD FM/DB2	File Manager for DB2 z/OS	
X Exit	Terminate FM/CICS	
Processing Options:		
CICS Resource		
1	1. File	
-	2. Temporary Storage	
	3. Transient Data	
Command ==>		
F1=Help	F3=Exit	F4=CRetriev F7=Backward F8=Forward F10=Actions
F12=Cancel		

Figure 33. File Manager Primary Option Menu panel

**0 Settings**

Displays the Set Processing Options panel.

**1 Browse**

Displays one of the Browse Entry panels. The type of Browse Entry panel displayed is determined by the setting of the **CICS Resource** field.

**2 Edit** Displays one of the Edit Entry panels. The type of Edit Entry panel displayed is determined by the setting of the **CICS Resource** field.

**3 Utilities**

Displays the Utility Functions panel.

**4 Templates**

Displays the File Manager "base" Template Workbench panel.

**FM FM**

Displays the File Manager "base" Primary Option Menu panel.

**FI FM/IMS**

Displays the File Manager IMS Component Primary Option Menu panel.

**FD FM/DB2**

Displays the File Manager DB2 Component Primary Option Menu panel.

**X Exit** Exits from FM/CICS.

**CICS Resource**

The type of CICS resource you want to work with:

**1. File** Select this option to work with CICS files.

**2. Temporary Storage**

Select this option to work with CICS temporary storage queues.

## Primary Option Menu panels

### 3. Transient Data

Select this option to work with CICS transient data queues.

The FM and FM/IMS options **only** appear on the Primary Option Menu if your user ID is authorized.

If you are running FM/CICS under ISPF, a modified FM/CICS Primary Option Menu panel is displayed.

Process	Options	Help
FM/CICS	Primary Option Menu	
1 View	View data	User ID . : JOHNLEV
2 Edit	Edit data	Date. . . : 2012/06/12
3 Print	Print data	Time.....: 14:17
4 List	List resources	
X Exit	Terminate FM/CICS	
Processing Options:		
CICS Resource		
1	1. File	
-	2. Temporary Storage	
	3. Transient Data	
Command ==>		
F1=Help	F3=Exit	F4=CRetrie F7=Backward F8=Forward F10=Actions
F12=Cancel		

Figure 34. FM/CICS File Manager Primary Option Menu panel (when using ISPF)

#### 1 View

Displays one of the View Entry panels. The type of View Entry panel displayed is determined by the setting of the **CICS Resource** field.

**2 Edit** Displays one of the Edit Entry panels. The type of Edit Entry panel displayed is determined by the setting of the **CICS Resource** field.

**3 Print** Displays one of the Print Entry panels. The type of Print Entry panel displayed is determined by the setting of the **CICS Resource** field.

**4 List** Displays the List CICS Resources Entry panel.

**X Exit** Exits from FM/CICS.

#### CICS Resource

Same as definition for “Primary Option Menu panels” on page 98.

## Parent panels

“File Manager for CICS Logon panels” on page 90

## Child panels

- “Set Processing Options panel” on page 106
- “Browse Entry panels” on page 65
- “Edit Entry panels” on page 81
- “Print Entry panels” on page 101
- “List CICS Resources Entry panel” on page 97



- “Utility Functions panel” on page 108
- “Set DBCS Format panel” in the *File Manager User’s Guide and Reference*
- “Print Audit Trail panel” in the *File Manager User’s Guide and Reference*
- “Copybook View and Print: Entry panel” in the *File Manager User’s Guide and Reference*

### Related tasks

- “Starting FM/CICS” on page 5
- “Specifying resource names in File Manager for z/OS (“base”)” on page 26
- “Running File Manager “base” functions against CICS resources” on page 26
- Chapter 4, “Working with FM/CICS utilities,” on page 35

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## Print Entry panels

You use the Print Entry panels to enter the name of a resource to be browsed. You also use these panels to specify the name of the copybook or template that describes a logical view of the data set.

There are three different Print Entry panels. The type of Print Entry panel that FM/CICS displays depends on which **CICS Resource** you selected on the previous panel (Utility Functions or Primary Option Menu):

*Table 5. Print Entry panels*

CICS Resource	Print Entry panel displayed
File	Print CICS File Entry panel
Temporary Storage	Print Temporary Storage Entry panel
Transient Data	Print Transient Data Entry panel

Each of the Print Entry panels is shown below, followed by a list of entry fields covering all three panels. Most of the entry fields are common to all three panels. Where an entry field is not common to all three panels, the panel to which it applies is indicated.

## Panel and field definitions

Process	Options	Help
FM/CICS                      Print CICS File Entry Panel		
Input CICS VSAM File:		
File name . . . . .	_____	
Sysid . . . . .	_____	
Start key . . . . .	_____	key or slot
Skip count . . . . .	_____	number of records to be skipped
Print count . . . . .	ALL _____	number of records to be printed
Copybook or Template:		
Data set name . . . . .	_____	
Member . . . . .	_____	(Blank or pattern for member list)
Processing Options:		
Print Option	Copybook/template/access	Enter "/" to select option
1. Char	3 1. Above	Edit template    Type (1,2,S)
2. Hex	2. Previous	Use proc _____
3. Sngl	3. None	
4. Tabl	4. Create dynamic	Additional print options
Command ==> _____ Applid _____		
F1=Help	F3=Exit    F4=Expand    F7=Backward    F8=Forward    F10=Actions	
F12=Cancel		

Figure 35. Print CICS File Entry panel

Process	Options	Help
FM/CICS                      Print Temporary Storage Entry Panel		
Input Temporary Storage Queue:		
Queue name . . . . .	_____	(Case sensitive)
Sysid . . . . .	_____	
Pool name . . . . .	_____	
Skip count . . . . .	_____	number of records to be skipped
Print count . . . . .	ALL _____	number of records to be printed
Copybook or Template:		
Data set name . . . . .	_____	
Member . . . . .	_____	(Blank or pattern for member list)
Processing Options:		
Print Option	Copybook/template/access	Enter "/" to select option
1. Char	3 1. Above	Edit template
2. Hex	2. Previous	Use proc _____
3. Sngl	3. None	
4. Tabl	4. Create dynamic	Additional print options
Command ==> _____ Applid _____		
F1=Help	F3=Exit    F4=Expand    F7=Backward    F8=Forward    F10=Actions	
F12=Cancel		

Figure 36. Print Temporary Storage Entry panel

Process	Options	Help
FM/CICS		
Print Transient Data Entry Panel		
Input Transient Data Queue:		
Queue name . . . . .	_____	(Case sensitive)
Sysid . . . . .	_____	
Skip count . . . . .	_____	number of records to be skipped
Print count . . . . .	<u>ALL</u>	number of records to be printed
Copybook or Template:		
Data set name . . . . .	_____	
Member . . . . .	_____	(Blank or pattern for member list)
Processing Options:		
Print Option	Copybook/template/access	Enter "/" to select option
1. Char	3 1. Above	Edit template
2. Hex	2. Previous	Use proc _____
3. Sngl	3. None	
4. Tabl	4. Create dynamic	Additional print options
Command ==> _____ Applid _____		
F1=Help	F3=Exit	F4=Expand F7=Backward F8=Forward F10=Actions
F12=Cancel		

Figure 37. Print Transient Data Entry panel

**File name (CICS resource: File only)**

The 1–8 character name of the file you want to print. It is used in conjunction with **Sysid** to produce a list of matching resources.

You can enter a fully-qualified or generic resource name. In a generic resource, use the percentage sign (%) to represent a single character, and an asterisk (\*) to represent any number of characters.

**Queue name (CICS resource: Temporary Storage only)**

The 1–16 character name of the temporary storage queue you want to print. It is used in conjunction with **Sysid** to produce a list of matching resources.

You can enter a fully-qualified or generic resource name. In a generic resource, use the percentage sign (%) to represent a single character, and an asterisk (\*) to represent any number of characters.

This input field is case sensitive.

To view or enter the hex value of a TS queue name, place the cursor on the field and enter the EXPAND primary command (or equivalent function key). Enter the HEX ON command from within the expand pop-up panel to view and enter hex values.

**Queue name (CICS resource: Transient Data only)**

The 1–4 character name of the transient data queue you want to print. It is used in conjunction with **Sysid** to produce a list of matching resources.

You can enter a fully-qualified or generic resource name. In a generic resource, use the percentage sign (%) to represent a single character, and an asterisk (\*) to represent any number of characters.

This field is case sensitive.

**Sysid** The ID of the CICS systems where the resource resides. A blank value defaults to the local system.

You can enter a fully-qualified or generic sysid. In a generic sysid, use the % sign to represent a single character, and an asterisk (\*) to represent any number of characters.

## Print Entry panels

### Pool name (CICS resource: Temporary Storage only)

The TS pool name of a shared temporary storage pool and temporary storage processing shipped to the temporary storage server that manages the pool.

You can enter a fully-qualified or generic pool name. In a generic pool name use the percentage sign (%) to represent a single character, and an asterisk (\*) to represent any number of characters.

If you specify a **Sysid** value and a TS Pool name, then a list of queues that match either is produced from which you can select the appropriate queue for processing.

### Start key (CICS resource: File only)

The starting key or slot location for a VSAM file

This field is scrollable and can be expanded with the EXPAND primary command (or equivalent function key). See "Scrollable input and display fields for long names" on page 11.

### Skip count

The number of records to be skipped before processing begins

### Print count

The number of records to be printed

### Copybook or Template: Data set name and Member

These fields identify either a copybook or a template to be used to select records and format the print output. If a copybook is specified, it is compiled to create a temporary template that can optionally be saved if edit was requested.

### Print Option

The format of the printed output:

**Char** Records are printed in character format.

**Hex** Records are printed in hexadecimal format. The DUMP processing option on the Set Processing Options panel determines how HEX data is printed. See "Set Processing Options panel" on page 106.

**Sngl** Single record format (one field on each line of the display). The left-hand side of the printout contains the field or header names. The right-hand side contains the field values formatted according to the field type. A template is required for this option.

In this print format, additional field information (redefined fields, field reference number, field type and length values, picture clause, start location, structure) can be printed depending on the Edit/Browse options. Numeric fields can be left-justified depending on the options.

**Tabl** Tabular format (fields printed across the display). The records are displayed in columns with field or heading names as column headers and the data formatted according to the field types. In this format, the display might be truncated depending on the current print width. A template is required for this option.

### Copybook/template/access

Use this option to specify if you want to use a template, or how records are to be printed.

**Above** FM/CICS uses the template specified on the panel. (If you specified a copybook, then File Manager compiles the copybook into a template before use.)

**Previous**

FM/CICS uses the last template you used to process this resource. If you have not previously used a template for this data set, a message is displayed and processing continues without using a template.

**None** FM/CICS does not use a template. SNGL and TABL print formats are not available.

**Create dynamic**

FM/CICS creates a dynamic template. You can now define fields and field creation attributes.

**Edit template**

FM/CICS opens the template you have specified for editing, before processing the panel.

**Note:** For details about using templates, see “Creating and editing templates” in the *File Manager User’s Guide and Reference*.

**Type (1,2,S)**

The type of editing you want to perform.

You can specify one of the following values:

- 1** Edit the Record Identification Criteria by field first
- 2** Edit the Record Selection Criteria by field first
- S** Edit the source definition for a template using the advanced copybook selection facility.

This option is ignored when editing a dynamic template.

**Use proc**

Use this option to specify a procedure to search and change the data, rather than using the Find and Change commands. When you select the option, you can perform one of these actions:

- Choose to create a temporary procedure for one-time use by entering a single asterisk (\*). FM/CICS displays an Edit panel, in which you can create the procedure.
- Specify the name of the member containing the procedure you want to use. The member must belong to the PDS allocated to ddname FMNEXEC. You can enter any of the following:
  - The name of the member.
  - A member name pattern (other than a single \*) to list all matching members. You can then select the required member by entering an S in the **Sel** field. A member name pattern can consist of any characters that are valid in a member name and the following two special pattern characters:

**asterisk (\*)**

Represents any number of characters. As many asterisks as required can appear anywhere in a member name. For example, if you enter \*d\*, a list of all members in the data set whose name contains “d” is displayed.

## Print Entry panels

### percent sign (%)

A place-holding character representing a single character. As many percent symbols as necessary can appear anywhere in a member name. For example, if you enter %%%%, a list of all members in the data set whose name is four characters in length is displayed.

**Note:** If you select this option but leave the **Use proc** member entry field blank, File Manager displays a member name list. You can then select the required member by entering S in the **Sel** field.

(Also, see “Supplying a procedure when using a File Manager panel” in the *File Manager User’s Guide and Reference*.)

### Additional print options

Displays the Print Options panel allowing you to specify additional print options.

### Parent panels

- “Utility Functions panel” on page 108

### Child panels

- “Print Options panel” in the *File Manager User’s Guide and Reference*

### Related tasks

- Chapter 5, “Printing a CICS resource,” on page 37

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## Set Processing Options panel

Lists the processing options available within FM/CICS. Selecting an option displays the relevant options panel.

## Panel and field definitions

Process	Options	Help
FM/CICS		
Set Processing Options		
1	Print	Print settings
2	System	System settings
3	Compiler	Language and compiler specifications
4	EDIT	Editor options
5	Sharing	VSAM Edit sharing options
6	Temporary	Temporary Data Set Allocations
7	Output	Output Data Set Allocations
8	Trace	Trace options
Command ==>		
F1=Help	F3=Exit	F4=CRetrieval F7=Backward F8=Forward F10=Actions
F12=Cancel		

Figure 38. Set Processing Options panel

### 1 Print

Displays the Set Print Processing Options panel

### 2 System

Displays the Set System Processing Options panel

### 3 Compiler

Language and compiler specifications

### 4 EDIT

Displays the Edit/Browse Options panel

### 5 Sharing

VSAM Edit Sharing Options panel

### 6 Temporary

Displays the Set Temporary Data Set Allocation Options panel

### 7 Output

Displays the Set Output Data Set Allocation Options panel

### 8 Trace

Displays the Set Trace options panel

## Parent panels

- “Primary Option Menu panels” on page 98

## Child panels

- “Set Print Options panel (option 0.1)” in the *File Manager User’s Guide and Reference*
- “Set System Processing Options panel” in the *File Manager User’s Guide and Reference*

## Set Processing Options panel

- “Language and Compiler Specifications panel” in the *File Manager User’s Guide and Reference*
- “Edit/Browse Options panel” in the *File Manager User’s Guide and Reference*
- “VSAM Edit Sharing Options panel” in the *File Manager User’s Guide and Reference*
- “Set Temporary Data Set Allocation Options” in the *File Manager User’s Guide and Reference*
- “Set Output Data Set Allocation Options” in the *File Manager User’s Guide and Reference*
- “Set Trace options” in the *File Manager User’s Guide and Reference*

### Related tasks

- “Setting your System Processing Options” on page 26
- “Setting your default processing options” on page 24

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## Utility Functions panel

Lists the utility functions available within FM/CICS. Selecting an option displays the relevant utility entry panel.

### Panel and field definitions

Process	Options	Help
FM/CICS		Utility Functions
0	DBCS	Set DBCS data format for print
2	Print	Print data
4	List	List resources
5	Printdsn	Browse FM/CICS print data set
6	Audit trail	Print audit trail report
7	Websphere MQ	List Websphere MQ managers and queues
Processing Options:		
CICS Resource		
1	1. File	
	2. Temporary Storage	
	3. Transient Data	
Command ===>		
F1=Help	F3=Exit	F4=CRetriev F7=Backward F8=Forward F10=Actions
F12=Cancel		

Figure 39. Utility Functions panel

#### 0 DBCS

Displays the Set DBCS Format panel

#### 2 Print

Displays the Print CICS File Entry panel

#### 4 List

Displays the List CICS Resources Entry panel



**5 Printdsn**

Displays print output in full-screen mode

**6 Audit trail**

Displays the Print Audit Trail panel

**7 Websphere MQ**

Displays the Websphere MQ Managers panel

For more information about accessing Websphere MQ queues, see the "base" *File Manager User's Guide*.

**Parent panels**

- "Primary Option Menu panels" on page 98

**Child panels**

- "Set DBCS Format panel" in the *File Manager User's Guide and Reference*
- "Print Entry panels" on page 101
- "List CICS Resources Entry panel" on page 97
- "Print Audit Trail panel" in the *File Manager User's Guide and Reference*
- "Copybook View and Print: Entry panel" in the *File Manager User's Guide and Reference*
- "WebSphere® MQ Managers panel" in the *File Manager User's Guide and Reference*

**Related tasks**

- Chapter 4, "Working with FM/CICS utilities," on page 35
- Chapter 6, "Working with lists of CICS resources," on page 39
- Chapter 7, "Working with CICS enqueues," on page 45

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## View Entry panels

You use the View Entry panels to enter the name of a resource to be edited. You also use these panels to specify the name of the copybook or template that describes a logical view of the data set.

**Note:** If you want to save any changes you make in an FM/CICS editor session, use the FM/CICS Edit Utility.

There are three different View Entry panels. The type of View Entry panel that FM/CICS displays depends on which **CICS Resource** you selected on the Primary Option Menu panel:

*Table 6. View Entry panels*

CICS Resource	View Entry panel displayed
File	View CICS File Entry panel
Temporary Storage	View Temporary Storage Entry panel
Transient Data	View Transient Data Entry panel

Each of the View panels is shown below, followed by a list of entry fields covering all three panels. Where an entry field is not common to all three panels, the panel to which it applies is indicated.

## Panel and field definitions

<u>P</u> rocess	<u>O</u> ptions	<u>H</u> elp
FM/CICS View CICS File Entry Panel		
Input CICS VSAM File:		
File name . . . . .	_____	
Sysid . . . . .	_____	
Start position . .	_____	
Record limit . . .	_____	Record sampling _
Copybook or Template:		
Data set name . .	_____	
Member . . . . .	_____	Blank or pattern for member list
Processing Options:		
Copybook/template	Start position type	Enter "/" to select option
3 1. Above	1. Key	Edit template Type (1,2,S)
- 2. Previous	2. RBA	- Include only selected records
3. None	3. Record number	
4. Create dynamic		
Command ==> _____ Applid _____		
F1=Help	F3=Exit F4=Expand F7=Backward F8=Forward	F10=Left
F11=Right	F12=Cancel	

Figure 40. View CICS File Entry panel

<u>P</u> rocess	<u>O</u> ptions	<u>H</u> elp
FM/CICS View Temporary Storage Entry Panel		
Input Temporary Storage Queue:		
Queue name . . . . .	_____	(Case sensitive)
Sysid . . . . .	_____	
Pool name . . . . .	_____	
Start position . .	_____	Record number
Record limit . . .	_____	Record sampling _
Copybook or Template:		
Data set name . .	_____	
Member . . . . .	_____	Blank or pattern for member list
Processing Options:		
Copybook/template	Enter "/" to select option	
3 1. Above	- Edit template	Type (1,2,S)
- 2. Previous	- Include only selected records	
3. None		
4. Create dynamic		
Command ==> _____ Applid _____		
F1=Help	F3=Exit F4=Expand F7=Backward F8=Forward	F10=Left
F11=Right	F12=Cancel	

Figure 41. View Temporary Storage Entry panel

Process	Options	Help
FM/CICS View Transient Data Entry Panel		
Input Transient Data Queue:		
Queue name . . . .	_____	(Case sensitive)
Sysid . . . . .	_____	
Start position . .	_____	Record number
Record limit . . .	_____	Record sampling _
Copybook or Template:		
Data set name . .	_____	
Member . . . . .	_____	Blank or pattern for member list
Processing Options:		
Copybook/template	Enter "/" to select option	
3 1. Above	_____	Edit template Type (1,2,S)
2. Previous	_____	Include only selected records
3. None		
4. Create dynamic		
Command ==> _____ Applid _____		
F1=Help	F3=Exit	F4=Expand F7=Backward F8=Forward F10=Left
F11=Right	F12=Cancel	

Figure 42. View Transient Date Entry panel

**File name (CICS resource: File only)**

The 1–8 character name of the file you want to browse. It is used in conjunction with **Sysid** to produce a list of matching resources.

You can enter a fully-qualified or generic resource name. In a generic resource, use the percentage sign (%) to represent a single character, and an asterisk (\*) to represent any number of characters.

**Queue name (CICS resource: Temporary Storage only)**

The 1–16 character name of the temporary storage queue you want to browse. It is used in conjunction with **Sysid** and **Pool name** to produce a list of matching resources.

You can enter a fully-qualified or generic resource name. In a generic resource, use the percentage sign (%) to represent a single character, and an asterisk (\*) to represent any number of characters.

**Queue name (CICS resource: Transient Data only)**

The 1–4 character name of the transient data queue you want to browse. It is used in conjunction with **Sysid** to produce a list of matching resources.

You can enter a fully-qualified or generic resource name. In a generic resource, use the percentage sign (%) to represent a single character, and an asterisk (\*) to represent any number of characters.

**Sysid** The ID of the CICS systems where the resource resides. A blank value defaults to the local system.

You can enter a fully qualified or generic sysid. In a generic sysid, use the % sign to represent a single character, and an asterisk (\*) to represent any number of characters.

**Pool name (CICS resource: Temporary Storage only)**

The TS pool name of a shared temporary storage pool and temporary storage processing shipped to the temporary storage server that manages the pool.

You can enter a fully-qualified or generic pool name. In a generic pool name use the percentage sign (%) to represent a single character, and an asterisk (\*) to represent any number of characters.

If you specify a **Sysid** value and a TS Pool name, then a list of queues that match either is produced from which you can select the appropriate queue for processing.

### Start position

Initial starting position for the data set to be browsed. The initial display is positioned at the specified record.

The default is the top of the data set. You can enter a negative record to indicate the number of records before the end of file. For example, to see just the last record on the file, enter -1 as the start point.

The format of the start position field is either numeric or character, depending upon the type of start position selected. For VSAM KSDS Key values, if the value you enter contains leading, embedded or trailing blanks, commas or quotation marks, it must be enclosed in quotation marks. You may also enter a hexadecimal string enclosed in quotation marks and preceded by X or x, for example, X'C1C2'.

For all other data set formats, a valid unsigned number must be entered.

To specify a starting position as the number of records before the end of file, enter a negative record number. For example, to see just the last record on the file, enter a start position of -1.

If you specify a starting position, you should also specify the **Start position type** in the Processing Options. If you do not, File Manager assumes that the value provided in the Starting position field is a record number.

### VSAM - KSDS: Key value

If the key is not matched, the record with a key greater than the value given is specified. If the key value is greater than the last record in the data set, the "Position not found" condition is returned.

### VSAM - ESDS: RBA (Relative Byte Address) Value

If the RBA is not matched, the record with a RBA greater than the value given is specified. If the RBA value is greater than that of the last record in the data set, the "Position not found" condition is returned.

### VSAM - RRDS: Slot value

If the slot number is greater than the last used slot in the data set, the "Position not found" condition is returned.

### Queues — temporary storage and transient data

For queues, the start position is the record number. If the specified record number is greater than the number of records in the queue, the "Position not found" condition is returned.

### Record limit

This field restricts the number of records retrieved from a data set (from the start point or top) resulting in an edit of a portion of the data set. You can use the keyword "MEMORY" as a record limit to restrict the number of records retrieved to as many as will fit comfortably in the available virtual storage.

The default start position is the top of the data set.

### **Record Sampling**

Indicates whether you want record sampling to be performed on the data set. If you select this option, FM/CICS displays the Record Sampling panel.

### **Copybook or Template**

Data set name and Member name of the template or copybook to be used to format your data.

**Note:** In the case of a copybook, this can be the name of a CA-Panvalet library, or a library accessed using the Library Management System Exit.

### **Copybook/template usage**

Indicates if you want to use a template for a logical view of the data.

- 1 Use the template specified on the panel (or compile the specified copybook into a template, and use that).
- 2 Use the last template associated with the data set.
- 3 No logical view is to be used by the function.
- 4 Create a dynamic template.

### **Start position type (CICS resource: File only)**

Determines how FM/CICS interprets the value provided in the Starting position field. If the Start position type is not specified, FM/CICS assumes that the value is a Record Number.

#### **1. KEY**

Only valid when the data set is a VSAM KSDS, VSAM AIX or VSAM PATH.

#### **2. RBA**

Only valid when the data set is a CICS VSAM ESDS.

#### **3. Record Number**

Default. Valid for any type of supported data set.

### **Edit template**

Indicates if you want to edit the template before use. You edit the template when you need to change format, selection, data create attributes, and reformatting information for output copy templates.

### **Type (1,2,S)**

The type of editing you want to perform.

You can specify one of the following values:

- 1 Edit the Record Identification Criteria by field first
- 2 Edit the Record Selection Criteria by field first
- S Edit the source definition for a template using the advanced copybook selection facility.

This option is ignored when editing a dynamic template.

### **Include only selected records**

When the FM/CICS editor session is either in-storage (a record limit of "MEMORY" is used) or when you have selected **Record Sampling**, only the records selected by template processing are included in the Edit or Browse session.

## View Entry panels

This option does not alter the operation of the FM/CICS editor session if a template is not used.

### Use I/O exit

Allows you to specify a user I/O exit for compressed or encrypted data sets.

This option has two fields. To select the option, enter “/” in the field to the left of Use I/O exit. With this selected, you can then specify which exit to use in the field to the right of the field label.

### Note:

1. The fields only display if File Manager is installed with the option **USEIOX=ENABLE**, and the **Exit enabled** field (in the Set System Processing Options panel) is set to YES. If a default is specified with either of those options, it is displayed in the field to the right of Use I/O exit.
2. I/O exits can only be used to process the data sets that you are using. They cannot be used to process the copybook or template that you are using to format the data set.

## Parent panels

- “Primary Option Menu panels” on page 98

## Child panels

The next panel displayed depends on the options selected in the View Entry panel.

## Related tasks

- Chapter 3, “Viewing and changing CICS resources,” on page 29

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## **Part 3. Appendixes**





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## Support resources and problem solving information

This section shows you how to quickly locate information to help answer your questions and solve your problems. If you have to call IBM support, this section provides information that you need to provide to the IBM service representative to help diagnose and resolve the problem.

For a comprehensive multimedia overview of IBM software support resources, see the IBM Education Assistant presentation “IBM Software Support Resources for System z Enterprise Development Tools and Compilers products” at <http://publib.boulder.ibm.com/infocenter/ieduasst/stgv1r0/index.jsp?topic=/com.ibm.iea.debugt/debugt/6.1z/TrainingEducation/SupportInfoADTools/player.html>.

- “Searching IBM support Web sites for a solution”
- “Obtaining fixes” on page 118
- “Receiving support updates through e-mail notification” on page 119
- “Receiving support updates through RSS feeds” on page 120
- “If you need to contact IBM Software Support” on page 120

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### Searching IBM support Web sites for a solution

You can search the available knowledge bases to determine whether your problem was already encountered and is already documented.

- “Searching the information center”
- “Searching product support documents”
- “IBM Support Assistant” on page 118

### Searching the information center

You can find this publication and documentation for many other products in the IBM System z Enterprise Development Tools & Compilers information center at <http://publib.boulder.ibm.com/infocenter/pdthelp/v1r1/index.jsp>. Using the information center, you can search product documentation in a variety of ways. You can search across the documentation for multiple products, search across a subset of the product documentation that you specify, or search a specific set of topics that you specify within a document. Search terms can include exact words or phrases, wild cards, and Boolean operators.

To learn more about how to use the search facility provided in the IBM System z Enterprise Development Tools & Compilers information center, you can view the multimedia presentation at <http://publib.boulder.ibm.com/infocenter/pdthelp/v1r1/index.jsp?topic=/com.ibm.help.doc/InfoCenterTour800600.htm>.

### Searching product support documents

Use the System z Enterprise Development Tools & Compilers information center or the IBM support site at [www.ibm.com/software/support](http://www.ibm.com/software/support) to search for the latest, most complete information that might help you resolve your problem.

When you access the IBM support site, you can specify any of the following products for which you want information to be displayed:

- Application Performance Analyzer for z/OS
- Debug Tool for z/OS
- Enterprise COBOL for z/OS
- Enterprise PL/I for z/OS
- Fault Analyzer for z/OS
- File Manager for z/OS
- Optim Move for DB2
- WebSphere Developer Debugger for System z
- Workload Simulator for z/OS and OS/390 Support

When you access the IBM support site, you can also use the IBM Support Portal to customize the support information to be displayed and save product names that you specify. There is also a search facility provided with the IBM Support Portal that allows you to narrow the search scope and search only product support documents for the products that you specify. The IBM Support Portal can be accessed through the IBM support site at [www.ibm.com/software/support](http://www.ibm.com/software/support) or directly at [www.ibm.com/support/entry/portal](http://www.ibm.com/support/entry/portal). For information about customizing your IBM support site experience using the IBM Support Portal, refer to [https://www.ibm.com/blogs/SPNA/entry/the\\_ibm\\_support\\_portal\\_videos?lang=en\\_us](https://www.ibm.com/blogs/SPNA/entry/the_ibm_support_portal_videos?lang=en_us).

## IBM Support Assistant

The IBM Support Assistant (also referred to as ISA) is a free local software serviceability workbench that helps you resolve questions and problems with IBM software products. It provides quick access to support-related information. You can use the IBM Support Assistant to help you in the following ways:

- Search through IBM and non-IBM knowledge and information sources across multiple IBM products to answer a question or solve a problem.
- Find additional information through product and support pages, customer news groups and forums, skills and training resources and information about troubleshooting and commonly asked questions.

In addition, you can use the built in Updater facility in IBM Support Assistant to obtain IBM Support Assistant upgrades and new features to add support for additional software products and capabilities as they become available.

For more information, and to download and start using the IBM Support Assistant for IBM System z Enterprise Development Tools & Compilers products, please visit [http://www.ibm.com/support/docview.wss?rs=2300&context=SSFMHB&dc=D600&uid=swg21242707&loc=en\\_US&cs=UTF-8&lang=en](http://www.ibm.com/support/docview.wss?rs=2300&context=SSFMHB&dc=D600&uid=swg21242707&loc=en_US&cs=UTF-8&lang=en).

General information about the IBM Support Assistant can be found on the IBM Support Assistant home page at <http://www.ibm.com/software/support/isa>.

---

## Obtaining fixes

A product fix might be available to resolve your problem. To determine what fixes and other updates are available, the following information is available from the IBM support site. You can also view the following information from the IBM Support Portal when you specify the applicable products.

- Latest PTFs for Application Performance Analyzer for z/OS
- Latest PTFs for Debug Tool for z/OS

- Latest PTFs for Fault Analyzer for z/OS
- Latest PTFs for File Export for z/OS
- Latest PTFs for File Manager for z/OS
- Latest fixes for Optim Move for DB2
- Latest PTFs for WebSphere Studio Asset Analyzer for Multiplatforms
- Latest PTFs for Workload Simulator for z/OS and OS/390

When you find a fix that you are interested in, click the name of the fix to read its description and to optionally download the fix.

The IBM Support Portal is a way for you to specify specific products for which you want to display support information. The Support Portal can be accessed through the IBM support site at [www.ibm.com/software/support](http://www.ibm.com/software/support) or directly at [www.ibm.com/support/entry/portal](http://www.ibm.com/support/entry/portal). For information about how to customize your IBM support site experience using the IBM Support Portal, refer to [https://www.ibm.com/blogs/SPNA/entry/the\\_ibm\\_support\\_portal\\_videos?lang=en\\_us](https://www.ibm.com/blogs/SPNA/entry/the_ibm_support_portal_videos?lang=en_us).

For more information about the types of fixes that are available, see the *IBM Software Support Handbook* at <http://techsupport.services.ibm.com/guides/handbook.html>.

---

## Receiving support updates through e-mail notification

To receive e-mail notifications about fixes and other software support news, follow the steps below. Additional information is provided at <http://www.ibm.com/support/docview.wss?rs=615&uid;=swg21172598>.

1. Go to the IBM software support site at <http://www.ibm.com/software/support>.
2. Click **Request e-mail updates** in the **Additional support links** section of the page.
3. Click any **My Notifications** link on the page that is displayed.
4. If you have already registered for **My notifications**, sign in and skip to the next step. If you have not registered, click **register now**. Complete the registration form using your e-mail address as your IBM ID and click **Submit**.
5. In the **My notifications** tool, click the **Subscribe** tab to specify products for which you want to receive e-mail updates.
6. To specify Problem Determination Tools products, click **Other software** and then select the products for which you want to receive e-mail updates, for example, **Debug Tool for z/OS** and **File Manager for z/OS**.
7. To specify a COBOL or PL/I compiler, click **Rational®** and then select the products for which you want to receive e-mail updates, for example, **Enterprise COBOL for z/OS**.
8. After selecting all products that are of interest to you, scroll to the bottom of the list and click **Continue**.
9. Determine how you want to save your subscription. You can use the default subscription name or create your own by entering a new name in the **Name** field. It is recommended that you create your own unique subscription name using a something easily recognized by you. You can create a new folder by entering a folder name in the **New** field or select an existing folder from the pull-down list. A folder is a container for multiple subscriptions.
10. Specify the types of documents you want and the e-mail notification frequency.

11. Scroll to the bottom of the page and click **Submit**.

To view your current subscriptions and subscription folders, click **My subscriptions**.

If you experience problems with the **My notifications** feature, click the **Feedback** link in the left navigation panel and follow the instructions provided.

---

## Receiving support updates through RSS feeds

To receive RSS feeds about fixes and other software support news, go to the following web site and select the products in which you are interested:

- <http://www.ibm.com/software/support/rss/other/index.html>.

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## If you need to contact IBM Software Support

IBM Software Support provides assistance with product defects.

Before contacting IBM Software Support, your company must have an active IBM software maintenance contract, and you must be authorized to submit problems to IBM. The type of software maintenance contract that you need depends on the type of product you have:

- For IBM distributed software products (including, but not limited to, Tivoli®, Lotus®, and Rational products, as well as DB2 and WebSphere products that run on Windows, or UNIX operating systems), enroll in Passport Advantage® in one of the following ways:

### Online

Go to the Passport Advantage Web site at [http://www.lotus.com/services/passport.nsf/WebDocs/Passport\\_Advantage\\_Home](http://www.lotus.com/services/passport.nsf/WebDocs/Passport_Advantage_Home) and click **How to Enroll**.

### By phone

For the phone number to call in your country, go to the IBM Software Support Web site at <http://techsupport.services.ibm.com/guides/contacts.html> and click the name of your geographic region.

- For customers with Subscription and Support (S & S) contracts, go to the Software Service Request Web site at <https://techsupport.services.ibm.com/ssr/login>.
- For customers with IBMLink, CATIA, Linux, S/390®, iSeries®, pSeries, zSeries, and other support agreements, go to the IBM Support Line Web site at <http://www.ibm.com/services/us/index.wss/so/its/a1000030/dt006>.
- For IBM eServer™ software products (including, but not limited to, DB2 and WebSphere products that run in zSeries, pSeries, and iSeries environments), you can purchase a software maintenance agreement by working directly with an IBM sales representative or an IBM Business Partner. For more information about support for eServer software products, go to the IBM Technical Support Advantage Web site at <http://www.ibm.com/servers/eserver/techsupport.html>.

If you are not sure what type of software maintenance contract you need, call 1-800-IBMSERV (1-800-426-7378) in the United States. From other countries, go to the contacts page of the *IBM Software Support Handbook* on the Web at <http://techsupport.services.ibm.com/guides/contacts.html> and click the name of your geographic region for phone numbers of people who provide support for your location.

To contact IBM Software support, follow these steps:

1. "Determining the business impact"
2. "Describing problems and gathering information"
3. "Submitting problems" on page 122

## Determining the business impact

When you report a problem to IBM, you are asked to supply a severity level. Therefore, you need to understand and assess the business impact of the problem that you are reporting. Use the following criteria:

### Severity 1

The problem has a **critical** business impact. You are unable to use the program, resulting in a critical impact on operations. This condition requires an immediate solution.

### Severity 2

The problem has a **significant** business impact. The program is usable, but it is severely limited.

### Severity 3

The problem has **some** business impact. The program is usable, but less significant features (not critical to operations) are unavailable.

### Severity 4

The problem has **minimal** business impact. The problem causes little impact on operations, or a reasonable circumvention to the problem was implemented.

## Describing problems and gathering information

When describing a problem to IBM, be as specific as possible. Include all relevant background information so that IBM Software Support specialists can help you solve the problem efficiently.

To save time, if there is a Mustgather document available for the product, refer to the Mustgather document and gather the information specified. Mustgather documents contain specific instructions for submitting your problem to IBM and gathering information needed by the IBM support team to resolve your problem. To determine if there is a Mustgather document for this product, go to the product support page and search on the term Mustgather. At the time of this publication, the following Mustgather documents are available:

- Mustgather: Read first for problems encountered with Application Performance Analyzer for z/OS: [http://www.ibm.com/support/docview.wss?rs=2300&context=SSFMHB&q1=mustgather&uid=swg21265542&loc=en\\_US&cs=utf-8&lang=en](http://www.ibm.com/support/docview.wss?rs=2300&context=SSFMHB&q1=mustgather&uid=swg21265542&loc=en_US&cs=utf-8&lang=en)
- Mustgather: Read first for problems encountered with Debug Tool for z/OS: [http://www.ibm.com/support/docview.wss?rs=615&context=SSGTSD&q1=mustgather&uid=swg21254711&loc=en\\_US&cs=utf-8&lang=en](http://www.ibm.com/support/docview.wss?rs=615&context=SSGTSD&q1=mustgather&uid=swg21254711&loc=en_US&cs=utf-8&lang=en)
- Mustgather: Read first for problems encountered with Fault Analyzer for z/OS: [http://www.ibm.com/support/docview.wss?rs=273&context=SSXJAJ&q1=mustgather&uid=swg21255056&loc=en\\_US&cs=utf-8&lang=en](http://www.ibm.com/support/docview.wss?rs=273&context=SSXJAJ&q1=mustgather&uid=swg21255056&loc=en_US&cs=utf-8&lang=en)
- Mustgather: Read first for problems encountered with File Manager for z/OS: [http://www.ibm.com/support/docview.wss?rs=274&context=SSXJAV&q1=mustgather&uid=swg21255514&loc=en\\_US&cs=utf-8&lang=en](http://www.ibm.com/support/docview.wss?rs=274&context=SSXJAV&q1=mustgather&uid=swg21255514&loc=en_US&cs=utf-8&lang=en)

- Mustgather: Read first for problems encountered with Enterprise COBOL for z/OS: [http://www.ibm.com/support/docview.wss?rs=2231&context=SS6SG3&q1=mustgather&uid=swg21249990&loc=en\\_US&cs=utf-8&lang=en](http://www.ibm.com/support/docview.wss?rs=2231&context=SS6SG3&q1=mustgather&uid=swg21249990&loc=en_US&cs=utf-8&lang=en)
- Mustgather: Read first for problems encountered with Enterprise PL/I for z/OS: [http://www.ibm.com/support/docview.wss?rs=619&context=SSY2V3&q1=mustgather&uid=swg21260496&loc=en\\_US&cs=utf-8&lang=en](http://www.ibm.com/support/docview.wss?rs=619&context=SSY2V3&q1=mustgather&uid=swg21260496&loc=en_US&cs=utf-8&lang=en)

If the product does not have a Mustgather document, please provide answers to the following questions:

- What software versions were you running when the problem occurred?
- Do you have logs, traces, and messages that are related to the problem symptoms? IBM Software Support is likely to ask for this information.
- Can you re-create the problem? If so, what steps were performed to re-create the problem?
- Did you make any changes to the system? For example, did you make changes to the hardware, operating system, networking software, and so on.
- Are you currently using a workaround for the problem? If so, be prepared to explain the workaround when you report the problem.

## Submitting problems

You can submit your problem to IBM Software Support in one of two ways:

### Online

Click **Open service request** on the IBM Software Support site at <http://www.ibm.com/software/support/probsub.html>. In the Other support tools section, select IBMLink to open an Electronic Technical Response (ETR). Enter your information into the appropriate problem submission form.

### By phone

Call 1-800-IBMSERV (1-800-426-7378) in the United States or, from other countries, go to the contacts page of the *IBM Software Support Handbook* at <http://techsupport.services.ibm.com/guides/contacts.html> and click the name of your geographic region.

If the problem you submit is for a software defect or for missing or inaccurate documentation, IBM Software Support creates an Authorized Program Analysis Report (APAR). The APAR describes the problem in detail. Whenever possible, IBM Software Support provides a workaround that you can implement until the APAR is resolved and a fix is delivered. IBM publishes resolved APARs on the Software Support Web site daily, so that other users who experience the same problem can benefit from the same resolution.

After a Problem Management Record (PMR) is open, you can submit diagnostic MustGather data to IBM using one of the following methods:

- FTP diagnostic data to IBM
- If FTP is not possible, email diagnostic data to [techsupport@mainz.ibm.com](mailto:techsupport@mainz.ibm.com). You must add PMR xxxxx bbb ccc in the subject line of your email. xxxxx is your PMR number, bbb is your branch office, and ccc is your IBM country code. Click here <http://itcenter.mainz.de.ibm.com/ecurep/mail/subject.html> for more details.

Always update your PMR to indicate that data has been sent. You can update your PMR online or by phone as described above.



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## Programming interface information

The User's Guide and Reference documents intended Programming Interfaces that allow the customer to write programs to obtain the services of File Manager.

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*File Manager Customization Guide*, SC19-4118  
*File Manager User's Guide and Reference*, SC19-4119  
*File Manager User's Guide and Reference for DB2 Data*, SC19-4120  
*File Manager User's Guide and Reference for IMS Data*, SC19-4121  
*File Manager User's Guide and Reference for CICS*, SC19-4122  
*File Manager Fact Sheet*, G325-2429  
*File Manager License Information*, GC19-4117  
*File Manager Program Directory*, GI10-8968

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### Related publications for Problem Determination Tools

*IBM Problem Determination Tools for z/OS Common Component Customization Guide and User Guide*, SC19-4159

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### Related publications for COBOL

*IBM COBOL Language Reference*, SC26-9046  
*IBM COBOL Programming Guide for OS/390 & VM*, SC26-9049

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### Related publications for PL/I

*IBM VisualAge PL/I Language Reference*, SC26-9476  
*IBM VisualAge PL/I for OS/390 Programming Guide*, SC26-9473

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### Related publications for CICS

*CICS Application Programming Reference*, SC34-6434  
*IP CICS Sockets Guide*, SC31-8807  
*CICS System Programming Reference*, SC34-6435  
*CICS System Definition Guide*, SC34-6428  
*CICS Resource Definition Guide*, SC34-6430

See the following publications for your version of CICS:

*CICS Transaction Server for z/OS Installation Guide*  
*CICS Transaction Server for z/OS CICS Customization Guide*  
*CICS Transaction Server for z/OS RACF Security Guide*  
*CICS Transaction Server for z/OS CICS Resource Definition Guide*

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### Related publications for z/OS

*z/OS DFSMS Access Method Services for Catalogs*, SC26-7394  
*z/OS DFSMS Object Access Method Application Programmer's Reference*, SC35-0425  
*z/OS DFSMS: Using Data Sets*, SC26-7410  
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*z/OS TSO/E Command Reference*, SA22-7782  
*z/OS TSO/E Programming Services*, SA22-7789

*z/OS TSO/E REXX Reference, SA22-7790*  
*z/OS TSO/E REXX User's Guide, SA22-7791*

---

# Index

## A

APF-authorized 7, 59

## B

base functions, running 26  
BDAM files 31  
Browse Entry panels 65  
browsing CICS resources  
    *See* viewing

## C

CA-Panvalet 13  
Change CUA Attributes panel 70  
CICS  
    checking level of connected  
        systems 8, 59  
    data table 31, 76, 88, 89  
    Enqueue Resource panel 71  
    Enqueue Selection List panel 73  
    File Selection List panel 75  
    files  
        viewing 31  
    resource  
        lists 39  
        locking 33  
        printing 37  
    resources  
        viewing 29  
    temporary storage  
        viewing 32  
    Temporary Storage Selection List  
        panel 77  
    Transient Data Queue Selection List  
        panel 78  
    transient data queues  
        viewing 33  
COBOL, processing option 26  
commands  
    reading syntax diagrams vi  
commands, issuing 12  
copybooks  
    stored in CA-Panvalet library 13  
    viewing CICS resources 31  
CUAATTR primary command 24, 57  
customer support  
    *See* Software Support

## D

data set  
    information 76, 79, 86  
    name  
        patterns 15  
        specifying on panel 13  
data table 31, 76, 88, 89  
decimal to hexadecimal converter 18, 57  
DOWN primary command 11

DX primary command 18, 57  
dynamic template, specifying 69, 113

## E

Edit Entry panel 81  
EDIT, processing option 26  
editor session, starting 31  
error messages, viewing 22  
errors  
    messages 47  
Exit 9  
exiting from FM/CICS 9  
Extrapartition Queue panel 83

## F

FI prefix 27  
File Information panel 86  
File Manager  
    CICS Logon panel 90  
    DB2, running under FM/CICS 27  
    flavors v  
    IMS, running under FM/CICS 27  
    level of connected CICS systems 59  
files, CICS  
    viewing 31  
FIND primary command 60  
first page, scrolling to 11  
fixes, obtaining 118  
flavors, of File Manager v  
FM/CICS  
    checking level of connected CICS  
        systems 8  
    checking version 7  
    customizing 22  
    exiting 9  
    function keys change panel 92  
    main functions 3  
    starting 5  
    using interface 9  
FM/CICS Primary Option Menu  
    panel 100  
FORWARD primary command 11  
fragments, syntax diagrams vi  
functions, FM/CICS 3

## H

help  
    accessing 19  
    fields 19  
    tutorial 20  
HEX primary command 61  
hexadecimal to decimal converter 18, 60  
HLASM, processing option 26

## I

IBM Support Assistant, searching for  
    problem resolution 118  
IMS component, running under  
    FM/CICS 27  
information centers, searching for  
    problem resolution 117  
interface, FM/CICS 9  
Internet  
    searching for problem resolution 117  
Intrapartition Queue panel 93  
IPDCC Settings panel 95

## K

key list values, changing 24  
KEYS primary command 24, 58  
keywords, syntax diagrams vi  
knowledge bases, searching for problem  
    resolution 117

## L

LANG, processing option 26  
last page, scrolling to 11  
List CICS Resources Entry panel 97  
lists, resources  
    finding string 39  
    refreshing 41  
    searching 40  
    selecting items 41  
    sorting 42  
    working with 39  
LOCATE primary command 61  
locking, CICS resource 33  
logical view, showing data without 69,  
    113

## M

member name  
    PDS, specifying on panel 13  
    specifying 16  
    specifying on panel 13  
messages  
    list 47

## N

notices 123

## O

Output, processing option 26

## P

- pages, scrolling to
  - first 11
  - last 11
- panel colors, changing 24
- panels
  - Browse Entry 65
  - Change CUA Attributes 70
  - CICS Enqueue Resource 71
  - CICS Enqueue Selection List 73
  - CICS File Selection List 75
  - CICS Temporary Storage Selection List 77
  - CICS Transient Data Queue Selection List 78
  - Edit Entry 81
  - Extrapartition Queue 83
  - File Information 86
  - File Manager CICS Logon 90
  - FM/CICS function keys change 92
  - FM/CICS Primary Option Menu 100
  - Intrapartition Queue 93
  - IPDCC Settings 95
  - List CICS Resources Entry 97
  - moving between 10
  - Primary Option Menu 98
  - Print Entry 101
  - Set Processing Options 106
  - showing more information 10
  - Utility Functions 108
  - View Entry 109
- PFSHOW primary command 22, 58
- PK keys, hiding or showing 22
- PL/I, processing option 26
- pool name, specifying 13
- POOLNAME, specifying 12
- prefix
  - commands 12
  - resource name 27
- primary commands
  - CUAATTR 24, 57
  - DOWN 11
  - FIND 60
  - FORWARD 11
  - general 12
  - KEYS 24, 58
  - LOCATE 61
  - PFSHOW 22, 58
  - REFRESH 61
  - RFIND 62
  - SELECT 62
  - SETTINGS 23, 59
  - SORT 63
  - UP 11
- Primary Option Menu panel 98
- Print Entry panel 101
- Print, processing option 26
- printing, CICS resource 37
- problem determination
  - describing problems 121
  - determining business impact 121
  - submitting problems 122
- processing options 24
- PTF level, displaying FM/CICS 7, 59

## Q

- quoted strings, specifying 18

## R

- REFRESH primary command 61
- refreshing current selection list 41
- release, displaying FM/CICS 7, 59
- repeatable items, syntax diagrams vi
- repeating search 62
- resource attributes
  - changing 41
- resources
  - CICS
    - locking 33
    - viewing 29
  - names
    - distinguishing from data set name 27
    - specifying in base File Manager 26
    - specifying in FM/CICS 12
  - printing 37
  - selection list 13
  - working with lists 39
- RFIND primary command 62

## S

- scrolling
  - in panels 11
  - to first page 11
  - to last page 11
- search
  - primary sort order column 40
  - repeating 62
- SELECT primary command 62
- selecting items from list 41
- Set Processing Options panel 106
- SETTINGS primary command 23, 59
- Sharing, processing option 26
- Software Support
  - contacting 120
  - describing problems 121
  - determining business impact 121
  - receiving updates 119, 120
  - submitting problems 122
- SORT primary command 63
- sorting lists 42
- starting FM/CICS 5
- string
  - delimiters 18
  - entering when quoted 18
  - finding 39
- syntax diagrams, how to read vi
- SYSID, specifying 13
- system processing options 26
- System, processing option 26

## T

- TD prefix 27
- templates
  - editing before use 69, 113
  - viewing CICS resources 31

- temporary storage
  - viewing 32
- Temporary, processing option 26
- terminal, changing characteristics 23
- trademarks 125
- transient data queues
  - viewing 33
- TS
  - pool name, specifying 13
  - prefix 27

## U

- unprintable characters, HEX primary command 61
- unprintable characters, viewing
  - refreshing 40
- UP primary command 11
- utilities
  - base File Manager 35
  - FM/CICS 35
- Utility Functions panel 108

## V

- variables, syntax diagrams vi
- VER primary command 7, 59
- VERCICS primary command 8, 59
- version, FM/CICS, checking 7
- View Entry panel 109
- viewing
  - CICS
    - files 31
    - resources 29
  - transient data queues 33

## X

- XD primary command 18, 60





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