

# ISO 8571-1:1988-10 (E)

## Information processing systems; Open Systems Interconnection; file transfer, access and management; Part 1: General introduction

---

<b>Contents</b>	<b>Page</b>
0 Introduction .....	1
1 Scope and field of application .....	1
2 References .....	1
3 Reference model definitions .....	1
4 Service conventions definitions .....	2
5 FT AM definitions .....	2
5.1 General .....	2
5.2 Architectural .....	2
5.3 Filestore schema .....	3
5.4 Filestore access .....	3
5.5 File structure .....	3
5.6 Constraint set .....	3
5.7 Document types .....	4
6 Abbreviations .....	4
<b>Section one: FTAM general concepts</b>	
7 OSI architectural background .....	5
8 Nature of the file service .....	6
8.1 Control of file activity .....	6
8.2 Asymmetry of the dialogue .....	6
8.3 External file service and internal file service .....	6
8.4 Service classes and functional units .....	7
9 Functions associated with the file service .....	7
9.1 Control of actions .....	7
9.2 Accounting .....	8
9.3 Concurrency control .....	8
9.4 Access control .....	9
9.5 Commitment .....	10
10 Service providers supporting FTAM .....	10
10.1 ACSE - application contexts and the FT AM environment .....	10
10.2 Presentation Service .....	10
10.3 Session Service .....	10
<b>Section two: Virtual Filestore - General Concepts</b>	
11 Virtual filestore .....	12
11.1 Need for a filestore modal .....	12
11.2 Mapping the virtual filestore definition .....	12
11.3 Form of the virtual filestore .....	13
11.4 Attribute dynamics .....	14
11.5 Filestore schema .....	14
12 File structures .....	14
12.1 Categories of Structure .....	14
12.2 File access structure .....	15
12.3 Presentation structure .....	15
13 Constraint sets .....	16
14 Document types .....	16
<b>Section three: Overview of the file service and file protocol</b>	
15 File service .....	17
15.1 FTA M regime initialization phase .....	17
15.2 Filestore management phase .....	17
15.3 File selection phase .....	17

15.4 File management phase .....	18
15.5 File open phase .....	18
15.6 Data access phase .....	18
15.7 File close phase .....	18
15.8 File deselection phase .....	18
15.9 FTAM regime termination phase .....	18
16 Mechanisms in the file protocol .....	18
16.1 Protocol state machine .....	18
16.2 Grouping of protocol data units .....	18
16.3 Transparency .....	18
16.4 Checkpoint insertion .....	19
16.5 Diagnostics and results .....	19
16.6 Docket handling and non-volatile storage .....	19
16.7 Error recovery mechanisms .....	19

## Annexes

A Examples of the use of FT AM .....	20
B Summary of information objects identified in ISO 8571 .....	25

## Figures

1 Row of information between RSE and OSI E .....	5
2 Logical and actual flows of information in file transfer .....	6
3 Example of the dialogue between file entities .....	6
4 Structuring a file protocol entity .....	7
5 Restrictions on the possible actions .....	8
6 Mapping between real systems and open systems .....	12
7 Virtual filestore schema .....	13
8 An example of a file access structure .....	14
9 Transmission of an unstructured text file .....	15
10 File service regimes and related primitives .....	17
11 Sending a file to a remote system .....	21
12 Remote database access .....	22
13 Use of FTAM in a LAN fileserver .....	23
14 File management .....	24