

ISO 8571-1:1988-10 (E)

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

Contents	Page
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
Section one: FTAM general concepts	
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
Section two: Virtual Filestore - General Concepts	
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
Section three: Overview of the file service and file protocol	
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