ISO 8571-2:1988-10 (E)

Information processing systems; Open Systems Interconnection; file transfer, access and management; Part 2: Virtual Filestore Definition

Contents

Page

0 Introduction 1

1 Scope and field of application 1

2 References 1

3 Definitions 2

4 Abbreviations 2

Section one: The file store model

5 Basic concepts 3

6 File selection 4

7 File structures 4
7.1 File access structure 4
7.2 Abstract structure definition 5
7.3 Abstract syntax definition 5
7.4 File transfer structure 5
7.5 Access context 5
7.6 Identification structure 7
7.7 Constraint sets 7

8 Actions on files 7
8.1 Relation to bulk data transfer 8
8.2 Read bulk data transfer 8
8.3 Write bulk data transfer 8

9 Attributes 8
9.1 Attribute scope 8
9.2 Scalar, vector and set attributes 9
9.3 Attribute values 9
9.4 Support of file attributes 9

Section two: Actions on the File store

10 Actions on complete files 10
10.1 Create file 10
10.2 Select file 10
10.3 Change attribute 10
10.4 Read attribute 10
10.5 Open file 10
10.6 Close file 10
10.7 Delete file 10
10.8 Deselect file 10

11 Actions for file access 10
11.1 Locate 10
11.2 Read 10

11.3 Insert 10
11.4 Replace 10
11.5 Extend 11
11.6 Erase 11
11.7 File actions and current location 11

Section three: Attribute definitions

12 File Attributes 12
12.1 Filename 12
12.2 Permitted actions 12
12.3 Contents type 12
12.4 Storage account 12
12.5 Date and time of creation 13
12.6 Date and time of last modification 13
12.7 Date and time of last read access 13
12.8 Date and time of last attribute modification 13
12.9 Identity of Creator 13
12.10 Identity of last modifier 13
12.11 Identity of last reader 13
12.12 Identity of last attribute modifier 13
12.13 File availability 13
12.14 Filesize 14
12.15 Future filesize 14
12.16 Access control 14
12.17 Legal qualifications 15
12.18 Private use 15

13 Activity attributes 15
13.1 Active Contents type 15
13.2 Current access request 15
13.3 Current Initiator identity 15
13.4 Current location 15
13.5 Current processing mode 15
13.6 Current Galling application entity title 15
13.7 Current responding application entity title 15
13.8 Current account 16
13.9 Current concurrency control 16
13.10 Current locking style 16
13.11 Current access passwords 16
13.12 Active legal qualification 16

14 Attribute groups 16
14.1 Kernel group 16
14.2 Storage group 16
14.3 Security group 17
14.4 Private Group 17

15 Minimum attribute ranges 17

Annexes

A File access structure constraint sets 19

B Document types 28

C Reading of structured flies 41

D Insertion in a structured file 43

E ASN.1 cross reference 47

Figures

1 Relationship of files, attributes and associations 3

2 The Access Structure as a Tree Structure 4

3 ASN.1 definition of file Contents 5

4 ASN.1 definition of file structure 6

5 Unstructured file transfer 41

6 Rat file transfer 41

7 Hierarchical file transfer 42

8 Source of transferred data 43

9 Initial State of destination file 43

10 Final State of insert as sisters to A 43

11 Final State of insert as children of C (normal) 44

12 Final State of insert as children of C (variant) 45

13 Final State of insert subtree as sister 45

14 Final State of insert subtree as child 46

15 Initial State of ordered flat file 46

16 Final State of merge of ordered flat files 46

Tables

1 Relationship of files, attributes and associations 3

2 The Access Structure as a Tree Structure 4

3 ASN.1 definition of file Contents 5

4 ASN.1 definition of file structure 6

5 Unstructured file transfer 41

6 Rat file transfer 41

7 Hierarchical file transfer 42

8 Source of transferred data 43

9 Initial State of destination file 43

10 Final State of insert as sisters to A 43

11 Final State of insert as children of C (normal) 44

12 Final State of insert as children of C (variant) 45

13 Final State of insert subtree as sister 45

14 Final State of insert subtree as child 46

15 Initial State of ordered flat file 46

16 Final State of merge of ordered flat files 46