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AMENDMENT 1
1992-12-15

Information processing systems – Open Systems Interconnection – File Transfer, Access and Management –

iTeh **STANDARD PREVIEW**
Part 4 :
(~~standard iTEH~~)

~~ISO 8571-4:1988/Amd.1:1992~~
<https://standards.iteh.ai/catalog/standards/sist/c4929aa8-tdfl-4551-a61c-1695f26020d8/iso-8571-4-1988-amd-1-1992>

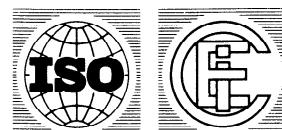
*Technologies de l'information – Interconnexion de systèmes ouverts (OSI) –
Transfert, accès et gestion de fichiers –*

Partie 4 : Spécification du protocole de fichiers

AMENDEMENT 1 : Gestion du système de fichiers

INTERRAZA LTD ITALIA

ISO



Reference number
ISO 8571-4:1988/Amd.1:1992 (E)

Foreword

ISO (the International Organization for Standardization) and IEC (the International Electrotechnical Commission) form the specialized system for worldwide standardization. National bodies that are members of ISO or IEC participate in the development of International Standards through technical committees established by the respective organization to deal with particular fields of technical activity. ISO and IEC technical committees collaborate in fields of mutual interest. Other international organizations, governmental and non-governmental, in liaison with ISO and IEC, also take part in the work.

In the field of information technology, ISO and IEC have established a joint technical committee, ISO/IEC JTC 1. Draft International Standards adopted by the joint technical committee are circulated to national bodies for voting. Publication as an International Standard requires approval by at least 75 % of the national bodies casting a vote.

Amendment 1 to International Standard ISO 8571-4:1988 was prepared by Joint Technical Committee ISO/IEC JTC 1, *Information technology*.

ISO 8571-4 consists of the following parts, under the general title *Information processing systems – Open Systems Interconnection – File Transfer, Access and Management*

[ISO 8571-4:1988/Amd.1:1992](#)

<https://standards.iteh.ai/catalog/standards/sisv/c4929aa8-idfl-4551-a61c-1695f26020d8/iso-8571-4-1988-amd-1-1992>

- *Part 1 : General introduction*
- *Part 2 : Virtual Filestore Definition*
- *Part 3 : File Service Definition*
- *Part 4 : File Protocol Specification*
- *Part 5 : Protocol Implementation Conformance Statement Proforma*

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Information processing systems – Open Systems Interconnection – File Transfer, Access and Management –

Part 4 : File Protocol Specification

AMENDMENT 1 : Filestore Management

NOTE – This amendment has additional subclauses and tables to ISO 8571 which are indicated by the use of lower case Roman letters beginning with "a" and imply ordering alphabetically, following the clause with the same numerical value in ISO 8571. These and all subsequent subclauses, tables, and cross references will be renumbered in subsequent editions.

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(amend 4th paragraph, page 1)

0 Introduction

(amend 3rd paragraph, page 1)

[ISO 8571-4:1988/Am.1
https://standards.iteh.ai/catalog/standards/iso/iso8571-4:1988/amd.1:1992](https://standards.iteh.ai/catalog/standards/iso/iso8571-4:1988/amd.1:1992)

ISO 8571 defines services for file transfer, access and management. It also specifies a protocol available within the application layer of the Reference Model. The service defined is of the category Application Service Element (ASE). It is concerned with identifiable bodies of information which can be treated as files, stored and managed within open systems, or passed between application processes.

ISO 8571 defines a basic file service. It provides sufficient facilities to support file transfer, file access, and management of files stored on open systems. ISO 8571 does not specify the interfaces to a file transfer, access or management facility within the local system.

(append after subclause 8.2, page 8)

NOTE – This amendment adds the following file initiating entity actions. The detailed actions are listed below and detailed in the state table (Annex A).

8.2a Group Selection (Group Manipulation)

The initiating entity actions for Group Selection are described in Annex a.

8.2b Change Current Name Prefix (Limited Filestore Management)

The initiating entity actions for Change Current Name Prefix are described in Annex a.

8.2c List File Directory (Limited Filestore Management)

The initiating entity actions for List File Directory are described in Annex a.

8.2d Group Deletion (Group Manipulation)

The initiating entity actions for Group Deletion are described in Annex a.

8.2e Group Move (Group Manipulation)

The initiating entity actions for Group Move are described in Annex a.

8.2f Group Copy (Group Manipulation)

The initiating entity actions for Group Copy ISO 8571-4:1988/Amd.1:1992 are described in Annex a. <https://standards.iteh.ai/catalog/standards/sist/c40/9aa8-1d11-4551-a61c-1695f26020d8/iso-8571-4-1988-amd-1-1992>

8.2g Group List (Group Manipulation)

The initiating entity actions for Group List are described in Annex a.

8.2h Group Change Attributes (Enhanced Filestore Management)

The initiating entity actions for Group Change Attributes are described in Annex a.

8.2i Select-Another Object (group Manipulation)

The initiating entity actions for Select-Another Object are described in Annex a.

8.2j Move Object (Object Manipulation)

The initiating entity actions for Move Object are described in Annex a.

8.2k Copy Object (Object Manipulation)

The initiating entity actions for Copy Object are described in Annex a.

8.2l File-Directory Creation (Enhanced Filestore Management)

The initiating entity actions for File-Directory Creation are described in Annex a.

8.2m Reference Creation (Enhanced Filestore Management)

The initiating entity actions for Reference Creation are described in Annex a.

8.2n Reference Deletion (Enhanced Filestore Management)

The initiating entity actions for Reference Deletion are described in Annex a.

8.2o Read Reference Attributes (Enhanced Filestore Management)

The initiating entity actions for Read Reference Attributes are described in Annex a.

8.2p Change Reference Attributes (Enhanced Filestore Management)

The initiating entity actions for Change Reference Attributes are described in Annex a.

(append after subclause 9.2, page 15)

NOTE – This amendment adds the following file responding entity actions. The detailed actions are listed below and detailed in the state table (Annex A).

9.2a Group Selection (Group Manipulation)

The responding entity actions for Group Selection are described in Annex a.

9.2b Change Current Name Prefix (Limited Filestore Management)

The responding entity actions for Change Current Name Prefix are described in Annex a.

9.2c List File Directory (Limited Filestore Management)

The responding entity actions for List File Directory are described in Annex a.

9.2d Group Deletion (Group Manipulation)

The responding entity actions for Group Deletion are described in Annex a.

9.2e Group Move (Group Manipulation)

The responding entity actions for Group Move are described in Annex a.

9.2f Group Copy (Group Manipulation)

The responding entity actions for Group Copy are described in Annex a.

9.2g Group List (Group Manipulation)

The responding entity actions for Group List are described in Annex a.

9.2h Group Change Attributes (Enhanced Filestore Management)

The responding entity actions for Group Change Attributes are described in Annex a.

9.2i Select-Another Object (Group Manipulation)

The responding entity actions for Select-Another Object are described in Annex a.

9.2j Move Object (Object Manipulation)

The responding entity actions for Move Object are described in Annex a.

9.2k Copy Object (Object Manipulation)

The responding entity actions for Copy Object are described in Annex a.

9.2l File-Directory Creation (Enhanced Filestore Management)

The responding entity actions for File-Directory Creation are described in Annex a.

9.2m Reference Creation (Enhanced Filestore Management)

The responding entity actions for Reference Creation are described in Annex a.

9.2n Reference Deletion (Enhanced Filestore Management)

The responding entity actions for Reference Deletion are described in Annex a.

9.2o Read Reference Attributes (Enhanced Filestore Management)

The responding entity actions for Read Reference Attributes are described in Annex a.

9.2p Change Reference Attributes (Enhanced Filestore Management)

The responding entity actions for Change Reference Attributes are described in Annex a.

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Section five: Abstract Syntax

20.3 ASN.1 Module Definition

(amend Figure 7, page 33)

```

1
2
3 ISO8571-FTAM DEFINITIONS ::= BEGIN
4   PDU ::= CHOICE { FTAM-Regime-PDU, File-PDU, Bulk-Data-PDU, FSM-PDU }
5
6   FTAM-Regime-PDU ::= CHOICE {
7     f-initialize-request      [0] IMPLICIT F-INITIALIZE-request,
8     f-initialize-response    [1] IMPLICIT F-INITIALIZE-response,
9     f-terminate-request      [2] IMPLICIT F-TERMINATE-request,
10    f-terminate-response    [3] IMPLICIT F-TERMINATE-response,
11    f-u-abort-request       [4] IMPLICIT F-U-ABORT-request,
12    f-p-abort-request       [5] IMPLICIT F-P-ABORT-request }
13
14
15  F-INITIALIZE-request ::= SEQUENCE {
16    protocol-version        Protocol-Version DEFAULT { version-1 },
17    implementation-information Implementation-Information OPTIONAL,
18    presentation-context-management [2] IMPLICIT BOOLEAN DEFAULT FALSE,
19    service-class            Service-Class DEFAULT { transfer-class },
20    -- Only the valid combinations as specified in ISO 8571-3 are allowed.
21    functional-units         Functional-Units,
22    attribute-groups          Attribute-Groups DEFAULT {}  

23    shared-ASE-information    Shared-ASE-Information OPTIONAL,  

24    ftam-quality-of-service   FTAM-Quality-of-Service,  

25    contents-type-list        Contents-Type-List OPTIONAL,  

26    initiator-identity       User-Identity OPTIONAL,  

27    account                  Account OPTIONAL,  

28    filestore-password        Password OPTIONAL,  

29    checkpoint-window         [8] IMPLICIT INTEGER DEFAULT 1 }
30    -- If the recovery or restart data transfer functional units are
31    -- not available, the checkpoint-window parameter shall not be sent.
32
33  F-INITIALIZE-response ::= SEQUENCE {
34    state-result             State-Result DEFAULT success,
35    action-result            Action-Result DEFAULT success,
36    protocol-version         Protocol-Version DEFAULT { version-1 },
37    implementation-information Implementation-Information OPTIONAL,
38    presentation-context-management [2] IMPLICIT BOOLEAN DEFAULT FALSE,
39    service-class            Service-Class DEFAULT { transfer-class },
40    -- Only the valid combinations as specified in ISO 8571-3 are allowed.
41    functional-units         Functional-Units,
42    attribute-groups          Attribute-Groups DEFAULT {}  

43    shared-ASE-information    Shared-ASE-Information OPTIONAL,  

44    ftam-quality-of-service   FTAM-Quality-of-Service,  

45    contents-type-list        Contents-Type-List OPTIONAL,

```

```

46     diagnostic           Diagnostic OPTIONAL,
47     checkpoint-window    [8] IMPLICIT INTEGER DEFAULT 1 }
48     -- If the recovery or restart data transfer functional units are
49     -- not available, the checkpoint-window parameter shall not be sent.
50
51 Protocol-Version ::= [0] IMPLICIT BIT STRING
52     { version-1 (0),
53       version-2 (1) }
54
55 Implementation-Information ::= [1] IMPLICIT GraphicString
56     -- This parameter is provided solely for the convenience of implementors
57     -- needing to distinguish between implementations of a specific version number
58     -- of different equipment, it shall not be the subject of conformance test.
59
60 Service-Class ::= [3] IMPLICIT BIT STRING
61     { unconstrained-class (0),
62       management-class (1),
63       transfer-class (2),
64       transfer-and-management-class (3),
65       access-class (4) }
66
67 Functional-Units ::= [4] IMPLICIT BIT STRING
68     { read (2),
69       write (3),
70       file-access (4),
71       limited-file-management (5),
72       enhanced-file-management (6),
73       grouping (7),
74       fadu-locking (8),
75       recovery (9),
76       restart-data-transfer (10),
77       limited-filestore-management (11),
78       enhanced-filestore-management (12),
79       object-manipulation (13),
80       group-manipulation (14) }
81     -- Values 2 to 14 are chosen to align with numbering scheme used in ISO 8571-3.
82
83 Attribute-Groups ::= [5] IMPLICIT BIT STRING
84     { storage (0),
85       security (1),
86       private (2),
87       extension (3) }
88     -- The extension bit is defined if and only if the limited-filestore-management
89     -- or the group-manipulation functional units are available.
90
91 FTAM-Quality-of-Service ::= [6] IMPLICIT INTEGER
92     { no-recovery (0),
93       class-1-recovery (1),
94       class-2-recovery (2),
95       class-3-recovery (3) }
96
97 Contents-Type-List ::= [7] IMPLICIT SEQUENCE OF CHOICE
98     { document-type-name   Document-Type-Name,
99       abstract-syntax-name Abstract-Syntax-Name }

```

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```

154 account Account OPTIONAL }

155

156 F-SELECT-response ::= SEQUENCE {
157   state-result State-Result DEFAULT success,
158   action-result Action-Result DEFAULT success,
159   attributes Select-Attributes,
160   referent-indicator Referent-Indicator OPTIONAL,
161   -- This parameter can only be sent when the
162   -- limited-filestore-management functional unit is available.
163   shared-ASE-information Shared-ASE-Information OPTIONAL,
164   diagnostic Diagnostic OPTIONAL }

165

166 F-DESELECT-request ::= SEQUENCE {
167   shared-ASE-information Shared-ASE-Information OPTIONAL }

168

169 F-DESELECT-response ::= SEQUENCE {
170   action-result Action-Result DEFAULT success,
171   charging Charging OPTIONAL,
172   -- Present if and only if the account field was present on
173   -- the PDU which established the selection regime.
174   shared-ASE-information Shared-ASE-Information OPTIONAL,
175   diagnostic Diagnostic OPTIONAL }

176

177 F-CREATE-request ::= SEQUENCE {
178   override [0] IMPLICIT Override DEFAULT create-failure,
179   initial-attributes Create-Attributes,
180   create-password Password OPTIONAL,
181   requested-access Access-Request,
182   access-passwords Access-Passwords OPTIONAL,
183   path-access-passwords Path-Access-Passwords OPTIONAL,
184   -- This parameter can only be sent when the
185   -- limited-filestore-management or the object-manipulation or
186   -- the group-manipulation functional units are available.
187   concurrency-control Concurrency-Control OPTIONAL,
188   shared-ASE-information Shared-ASE-Information OPTIONAL,
189   account Account OPTIONAL }

190

191 F-CREATE-response ::= SEQUENCE {
192   state-result State-Result DEFAULT success,
193   action-result Action-Result DEFAULT success,
194   initial-attributes Create-Attributes,
195   shared-ASE-information Shared-ASE-Information OPTIONAL,
196   diagnostic Diagnostic OPTIONAL }

197

198 F-DELETE-request ::= SEQUENCE {
199   shared-ASE-information Shared-ASE-Information OPTIONAL }

200

201 F-DELETE-response ::= SEQUENCE {
202   action-result Action-Result DEFAULT success,
203   shared-ASE-information Shared-ASE-Information OPTIONAL,
204   charging Charging OPTIONAL,
205   diagnostic Diagnostic OPTIONAL }

206

207 F-READ-ATTRIB-request ::= SEQUENCE {

```

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```

208 attribute-names [0] IMPLICIT Attribute-Names,
209 attribute-extension-names [1] IMPLICIT Attribute-Extension-Names
210                                     OPTIONAL }

211 -- This parameter can only be sent when the
212 -- limited-filestore-management functional unit is available.

213

214 F-READ-ATTRIB-response ::= SEQUENCE {
215   action-result           Action-Result DEFAULT success,
216   attributes              Read-Attributes OPTIONAL,
217   -- Password values within the access control can not be read by means
218   -- of the read attribute action. Whether other parts of the access
219   -- control object attribute can be read by means of the read
220   -- attribute action is decided locally by the responding entity, and
221   -- it shall not be the subject of conformance test.
222   diagnostic               Diagnostic OPTIONAL }

223

224 F-CHANGE-ATTRIB-request ::= SEQUENCE {
225   attributes             Change-Attributes }

226

227 F-CHANGE-ATTRIB-response ::= SEQUENCE {
228   action-result           Action-Result DEFAULT success,
229   attributes              Change-Attributes OPTIONAL,
230   -- Password values within access control attribute are never returned.
231   -- Other attributes are returned as an implementation choice.
232   diagnostic               Diagnostic OPTIONAL }

233
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234 F-OPEN-request ::= SEQUENCE { (standards.iteh.ai)
235   processing-mode         [0] IMPLICIT BIT STRING
236   { f-read    (0),
237     f-insert  (1),
238     f-replace (2),
239     f-extend   (3),
240     f-erase    (4) } DEFAULT { f-read },
241   contents-type          [1] CHOICE {
242     unknown      [0] IMPLICIT NULL,
243     proposed     [1] Contents-Type-Attribute },
244   concurrency-control    Concurrency-Control OPTIONAL,
245   shared-ASE-information Shared-ASE-Information OPTIONAL,
246   enable-fadu-locking    [2] IMPLICIT BOOLEAN DEFAULT FALSE,
247   -- If the fadu-locking functional unit is not available, the
248   -- enable-fadu-locking parameter shall not be sent.
249   activity-identifier    Activity-Identifier OPTIONAL,
250   -- Only used in the recovery functional unit.
251   recovery-mode          [3] IMPLICIT INTEGER
252   { none    (0),
253     at-start-of-file (1),
254     at-any-active-checkpoint (2) }
255   DEFAULT none,
256   -- If the recovery or restart data transfer functional units are not
257   -- available, the recovery-mode parameter shall not be sent.
258   remove-contexts         [4] IMPLICIT SET OF Abstract-Syntax-Name OPTIONAL,
259   define-contexts         [5] IMPLICIT SET OF Abstract-Syntax-Name OPTIONAL}

260

261 F-OPEN-response ::= SEQUENCE {

```

262 state-result
 263 action-result
 264 contents-type
 265 concurrency-control
 266 shared-ASE-information
 267 diagnostic
 268 recovery-mode

State-Result DEFAULT success,
 Action-Result DEFAULT success,
 [1] Contents-Type-Attribute,
 Concurrency-Control OPTIONAL,
 Shared-ASE-Information OPTIONAL,
 Diagnostic OPTIONAL,
 [3] IMPLICIT INTEGER

269 { none (0),
 270 at-start-of-file (1),
 271 at-any-active-checkpoint (2)
 272 }
 DEFAULT none,
 -- If the recovery or restart data transfer functional units are not
 -- available, the recovery-mode parameter shall not be sent.
 275 presentation-action [6] IMPLICIT BOOLEAN DEFAULT FALSE }

276 -- This flag is set if the responder is going to follow this response
 277 -- by a P-ALTER-CONTEXT exchange.
 278

279 F-CLOSE-request ::= SEQUENCE {

280 action-result Action-Result DEFAULT success,
 281 shared-ASE-information Shared-ASE-Information OPTIONAL,
 282 diagnostic Diagnostic OPTIONAL }

283

284 F-CLOSE-response ::= SEQUENCE {

285 action-result Action-Result DEFAULT success,
 286 shared-ASE-information Shared-ASE-Information OPTIONAL,
 287 diagnostic Diagnostic OPTIONAL }

288

289 F-BEGIN-GROUP-request ::= SEQUENCE {

290 threshold ISO 8571-4:1988/amd.1:1992

291 https://standards.iteh.ai/catalog/standards/sist/c4929aa8-fdf1-4551-a61c-
 292 F-BEGIN-GROUP-response ::= SEQUENCE ISO 8571-4:1988/amd.1:1992

293 -- No elements defined, shall be empty.
 294

295 F-END-GROUP-request ::= SEQUENCE {}

296 -- No elements defined, shall be empty.
 297

298 F-END-GROUP-response ::= SEQUENCE {}

299 -- No elements defined, shall be empty.
 300

301 F-RECOVER-request ::= SEQUENCE {

302 activity-identifier Activity-Identifier,
 303 bulk-transfer-number [0] IMPLICIT INTEGER,
 304 requested-access Access-Request,
 305 access-passwords Access-Passwords OPTIONAL,
 306 path-access-passwords Path-Access-Passwords OPTIONAL,

307 -- This parameter can only be sent when the
 308 -- limited-filestore-management or the object-manipulation or
 309 -- the group-manipulation functional units are available.
 310 recovery-point [2] IMPLICIT INTEGER DEFAULT 0,
 311 -- Zero indicates beginning of file
 312 -- Point after last checkpoint indicates end of file
 313 -- The recovery-point parameter shall only be sent by the entity that
 314 -- was receiving data at the time of failure.
 315 remove-contexts [3] IMPLICIT SET OF Abstract-Syntax-Name OPTIONAL,

```

316 define-contexts [4] IMPLICIT SET OF Abstract-Syntax-Name OPTIONAL }
317
318 F-RECOVER-response ::= SEQUENCE {
319   state-result State-Result DEFAULT success,
320   action-result Action-Result DEFAULT success,
321   contents-type [1] Contents-Type-Attribute,
322   recovery-point [2] IMPLICIT INTEGER DEFAULT 0,
323   -- Zero indicates beginning of file.
324   -- Point after last checkpoint indicates end of file.
325   -- The recovery-point parameter shall only be sent by the entity that
326   -- was receiving data at the time of failure.
327   diagnostic Diagnostic OPTIONAL,
328   presentation-action [6] IMPLICIT BOOLEAN DEFAULT FALSE }
329   -- This flag is set if the responder is going to follow this response
330   -- by a P-ALTER-CONTEXT exchange.
331
332 F-LOCATE-request ::= SEQUENCE {
333   file-access-data-unit-identity FADU-Identity,
334   fadu-lock FADU-Lock OPTIONAL }
335
336 F-LOCATE-response ::= SEQUENCE {
337   action-result Action-Result DEFAULT success,
338   file-access-data-unit-identity FADU-Identity OPTIONAL,
339   diagnostic Diagnostic OPTIONAL }
340
341 F-ERASE-request ::= SEQUENCE {
342   file-access-data-unit-identity FADU-Identity }
343
344 F-ERASE-response ::= SEQUENCE { ISO 8571-4:1988/Amd 1:1992
345   action-result https://standards.iteh.ai/Action-Result DEFAULT success,1695f260
346   diagnostic 1695f260Diagnostic OPTIONAL }-1-1992
347
348 Bulk-Data-PDU ::= CHOICE {
349   f-read-request [32] IMPLICIT F-READ-request,
350   f-write-request [33] IMPLICIT F-WRITE-request,
351   -- There is no F-DATA FPDU, the contents of a file
352   -- are transferred in a different presentation context
353   -- and there is therefore no need to define the types
354   -- of file contents in the FTAM PCI abstract syntax.
355   -- File contents data are carried in values of the
356   -- data type Data-Element as defined in ISO 8571-2.
357   f-data-end-request [34] IMPLICIT F-DATA-END-request,
358   f-transfer-end-request [35] IMPLICIT F-TRANSFER-END-request,
359   f-transfer-end-response [36] IMPLICIT F-TRANSFER-END-response,
360   f-cancel-request [37] IMPLICIT F-CANCEL-request,
361   f-cancel-response [38] IMPLICIT F-CANCEL-response,
362   -- There is no F-CHECK PDU.
363   f-restart-request [39] IMPLICIT F-RESTART-request,
364   f-restart-response [40] IMPLICIT F-RESTART-response }
365
366 F-READ-request ::= SEQUENCE {
367   file-access-data-unit-identity FADU-Identity,
368   access-context Access-Context,
369   fadu-lock FADU-Lock OPTIONAL }

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370
371 F-WRITE-request ::= SEQUENCE {
372   file-access-data-unit-operation      [0] IMPLICIT INTEGER
373   { insert  (0),
374     replace (1),
375     extend  (2) },
376   file-access-data-unit-identity
377   fadu-lock                           FADU-Identity,
378                                         FADU-Lock OPTIONAL }

379 F-DATA-END-request ::= SEQUENCE {
380   action-result                      Action-Result DEFAULT success,
381   diagnostic                         Diagnostic OPTIONAL }

382
383 F-TRANSFER-END-request ::= SEQUENCE {
384   shared-ASE-information            Shared-ASE-Information OPTIONAL }

385
386 F-TRANSFER-END-response ::= SEQUENCE {
387   action-result                     Action-Result DEFAULT success,
388   shared-ASE-information           Shared-ASE-Information OPTIONAL,
389   diagnostic                        Diagnostic OPTIONAL }

390
391 F-CANCEL-request ::= SEQUENCE {
392   action-result                     Action-Result DEFAULT success,
393   shared-ASE-information           Shared-ASE-Information OPTIONAL,
394   diagnostic                        Diagnostic OPTIONAL }

395
396 F-CANCEL-response ::= SEQUENCE {
397   action-result                     Action-Result DEFAULT success,
398   shared-ASE-information           Shared-ASE-Information OPTIONAL,
399   diagnostic                        Diagnostic OPTIONAL }

400
401 F-RESTART-request ::= SEQUENCE {
402   checkpoint-identifier            [0] IMPLICIT INTEGER }

403
404 F-RESTART-response ::= SEQUENCE {
405   checkpoint-identifier            [0] IMPLICIT INTEGER }

406
407 Abstract-Syntax-Name ::= [APPLICATION 0] IMPLICIT OBJECT IDENTIFIER

408
409 Access-Context ::= [APPLICATION 1] IMPLICIT SEQUENCE {
410   access-context                  [0] IMPLICIT INTEGER
411   { hierarchical-all-data-units  (0),          -- HA
412     hierarchical-no-data-units  (1),          -- HN
413     flat-all-data-units        (2),          -- FA
414     flat-one-level-data-units (3),          -- FL
415     flat-single-data-unit    (4),          -- FS
416     unstructured-all-data-units (5),          -- UA
417     unstructured-single-data-unit (6) },        -- US
418   level-number                   [1] IMPLICIT INTEGER OPTIONAL }
419   -- Present if and only if flat-one-level-data-units
420   -- (access context FL) is selected.
421   -- As defined in ISO 8571-2.

422
423 Access-Passwords ::= [APPLICATION 2] IMPLICIT SEQUENCE {

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424   read-password          [0] IMPLICIT Password,
425   insert-password         [1] IMPLICIT Password,
426   replace-password        [2] IMPLICIT Password,
427   extend-password         [3] IMPLICIT Password,
428   erase-password          [4] IMPLICIT Password,
429   read-attribute-password [5] IMPLICIT Password,
430   change-attribute-password [6] IMPLICIT Password,
431   delete-password         [7] IMPLICIT Password,
432   pass-passwords          [8] IMPLICIT Pass-Passwords OPTIONAL,
433   link-password           [9] IMPLICIT Password OPTIONAL }

434 -- The pass-passwords and the link-password must be included in the
435 -- access-passwords if and only if the limited-filestore-management
436 -- or the object-manipulation or the group-manipulation functional
437 -- units are available.

438 Access-Request ::= [APPLICATION 3] IMPLICIT BIT STRING
439   { read    (0),
440     insert   (1),
441     replace  (2),
442     extend   (3),
443     erase    (4),
444     read-attribute (5),
445     change-attribute (6),
446     delete-object (7) }

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448 (standards.iteh.ai)
449 Account ::= [APPLICATION 4] IMPLICIT GraphicString
450
451 Action-Result ::= [APPLICATION 5] IMPLICIT INTEGER
452   { success 857(0)1988/Amd 1:1992
453     transient-error 857(1)ds/sist/c4929aa8-fdf1-4551-a61c-
454     permanent-error 857(2) }988-AMD-1-1992
455
456 Activity-Identifier ::= [APPLICATION 6] IMPLICIT INTEGER
457
458 Application-Entity-Title ::= [APPLICATION 7] ACSE-1.AE-title
459 -- As defined in ISO 8650.
460
461 Change-Attributes ::= [APPLICATION 8] IMPLICIT SEQUENCE {
462   -- Kernel Group
463   pathname                  Pathname-Attribute OPTIONAL,
464   -- Storage group
465   storage-account            [ 3] Account-Attribute OPTIONAL,
466   object-availability        [12] Object-Availability-Attribute OPTIONAL,
467   future-object-size         [14] Object-Size-Attribute OPTIONAL,
468   -- Security group
469   access-control             [15] Access-Control-Change-Attribute OPTIONAL,
470   path-access-control        [21] Access-Control-Change-Attribute OPTIONAL,
471   -- This parameter can only be sent when the
472   -- enhanced-filestore-management functional unit is available.
473   legal-qualification        [16] Legal-Qualification-Attribute OPTIONAL,
474   -- Private group
475   private-use                [17] Private-Use-Attribute OPTIONAL,
476   -- Attribute Extensions group
477   attribute-extensions       [22] IMPLICIT Attribute-Extensions OPTIONAL }

```

```

478    -- This parameter can only be sent when the
479    -- enhanced-filestore-management functional unit is available.
480 -- Atleast one attribute shall be present in the Change-Attributes
481 -- parameter on the request PDU.
482
483 Charging ::= [APPLICATION 9] IMPLICIT SEQUENCE OF SEQUENCE {
484     resource-identifier          [0] IMPLICIT GraphicString,
485     charging-unit                [1] IMPLICIT GraphicString,
486     charging-value               [2] IMPLICIT INTEGER }
487
488 Concurrency-Control ::= [APPLICATION 10] IMPLICIT SEQUENCE
489     { read                      [0] IMPLICIT Lock,
490      insert                     [1] IMPLICIT Lock,
491      replace                    [2] IMPLICIT Lock,
492      extend                     [3] IMPLICIT Lock,
493      erase                      [4] IMPLICIT Lock,
494      read-attribute              [5] IMPLICIT Lock,
495      change-attribute            [6] IMPLICIT Lock,
496      delete-object               [7] IMPLICIT Lock }
497
498 Lock ::= INTEGER
499     { not-required   (0),
500       shared        (1),
501       exclusive     (2),
502       no-access     (3) }

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504 Constraint-Set-Name ::= [APPLICATION 11] IMPLICIT OBJECT IDENTIFIER
505
506 Create-Attributes ::= [APPLICATION 12] IMPLICIT SEQUENCE {
507 -- Kernel Group https://standards.iteh.ai/catalog/standards/sist/c4929aa8-fdf1-4551-a61c-1695f26020d8/iso8571-4#\_Toc4929aa8-fdf1-4551-a61c-1695f26020d8 Pathname-Attribute, 1992
508     pathname                  [18] IMPLICIT Object-Type-Attribute DEFAULT file,
509     object-type                [18] IMPLICIT Object-Type-Attribute DEFAULT file,
510     -- This parameter can be sent if and only if the
511     -- limited-filestore-management functional unit is available.
512     permitted-actions          [ 1] IMPLICIT Permitted-Actions-Attribute,
513     contents-type               [ 2] Contents-Type-Attribute,
514 -- Storage group
515     storage-account             [ 3] Account-Attribute OPTIONAL,
516     object-availability         [12] Object-Availability-Attribute OPTIONAL,
517     future-object-size          [14] Object-Size-Attribute OPTIONAL,
518 -- Security group
519     access-control              [15] Access-Control-Attribute OPTIONAL,
520     path-access-control         [21] Access-Control-Attribute OPTIONAL,
521     -- This parameter can be sent if and only if the
522     -- enhanced-filestore-management functional unit is available.
523     legal-qualification          [16] Legal-Qualification-Attribute OPTIONAL,
524 -- Private group
525     private-use                 [17] Private-Use-Attribute OPTIONAL,
526 -- Attribute Extensions group
527     attribute-extensions         [22] IMPLICIT Attribute-Extensions OPTIONAL }
528     -- This parameter can only be sent when the
529     -- limited-filestore-management functional unit is available.
530
531 Diagnostic ::= [APPLICATION 13] IMPLICIT SEQUENCE OF SEQUENCE {

```