

TELECOMMUNICATION STANDARDIZATION SECTOR OF ITU

T.434Amendment 1
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SERIES T: TERMINALS FOR TELEMATIC SERVICES

Binary file transfer format for the telematic services

Amendment 1: Extensions of BFT format

ITU-T Recommendation T.434 - Amendment 1

(Previously CCITT Recommendation)

ITU-T T-SERIES RECOMMENDATIONS TERMINALS FOR TELEMATIC SERVICES

 $For {\it further details, please refer to ITU-TList of Recommendations.}$

ITU-T RECOMMENDATION T.434

BINARY FILE TRANSFER FORMAT FOR THE TELEMATIC SERVICES

AMENDMENT 1

Extension of BFT format

Summary

This Amendment contains some changes to the main body and to Annex A of Recommendation T.434 to extend the binary file transfer format. The extension is to introduce two new attributes: store-and-forward and file-retrieval. Store-and-forward attribute indicates information used by store-and-forward system. It contains characteristics of a document that is transferred, routing information and delivery information. File-and-retrieval attribute contains information for archiving, management and manipulation of documents.

Source

Amendment 1 to ITU-T Recommendation T.434 was prepared by ITU-T Study Group 8 (1997-2000) and was approved under the WTSC Resolution No. 1 procedure on the 18th of June 1998.

FOREWORD

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The approval of Recommendations by the Members of the ITU-T is covered by the procedure laid down in WTSC Resolution No. 1.

In some areas of information technology which fall within ITU-T's purview, the necessary standards are prepared on a collaborative basis with ISO and IEC.

NOTE

In this Recommendation, the expression "Administration" is used for conciseness to indicate both a telecommunication administration and a recognized operating agency.

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As of the date of approval of this Recommendation, the ITU had not received notice of intellectual property, protected by patents, which may be required to implement this Recommendation. However, implementors are cautioned that this may not represent the latest information and are therefore strongly urged to consult the TSB patent database.

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BINARY FILE TRANSFER FORMAT FOR THE TELEMATIC SERVICES

AMENDMENT 1

Extension of BFT format

(Geneva, 1998)

1) Table 1/T.434

Replace Table 1 with the following:

Table 1/T.434 – File attributes

Attribute name protocol version filename permitted actions contents type storage account date and time of creation date and time of last modification date and time of last read access identity of creator identity of last modifier identity of last reader filesize future filesize access control legal qualifications private use structure application reference machine operating system recipient character set compression environment pathname store-and-forward user visible string file retrieval data file content

2) New subclauses 5.17/T.434 and 5.18/T.434

After subclause 5.16, add the following:

5.17 Store-and-forward syntax

The store-and-forward attribute conveys information that store-and-forward system makes use of. The value of the store-and-forward attribute is of type Store-And-Forward-Attribute.

store-and-forward [27] IMPLICIT Store-And-Forward-Attribute OPTIONAL

Store-And-Forward-Attribute ::= SEQUENCE {

store-and-forward-request [0] IMPLICIT Store-And-Forward-Request OPTIONAL,

- -- The store-and-forward request attribute conveys information from the originator and concerning
- -- the recipients. The value of the store-and-forward request attribute is of type Store-And-Forward-
- -- Request defined in 5.17.1.
- delivery-information [1] IMPLICIT Delivery-Information OPTIONAL }
 - -- The delivery information attribute conveys additional information of delivery from
 - -- store-and-forward system to designated terminal. The value of the delivery information request
 - -- attribute is of type Delivery-Information defined in 5.17.13.

5.17.1 Store-and-forward request syntax

The store-and-forward request syntax is defined below:

Store-And-Forward-Request ::= SEQUENCE {

document-characteristics [0] IMPLICIT Doc-Characteristics OPTIONAL,

- -- The document characteristics attribute contains information describing what kind of document
- -- is transferred from the originator. The value of the document characteristics attribute is of type
- -- Doc-Characteristics defined in 5.17.2.

communication [1] IMPLICIT Communication OPTIONAL }

- -- The communication attribute contains routing information. The value of the communication
- -- attribute is of type Communication defined in 5.17.3.

5.17.2 Doc-Characteristics syntax

The doc-characteristics syntax is defined below:

Doc-Characteristics ::= SEQUENCE {

document-name [0] IMPLICIT GraphicString OPTIONAL,

-- The document name attribute indicates the name of the document.

version [1] IMPLICIT GraphicString OPTIONAL,

-- The version attribute indicates the version of the document.

document-type [2] IMPLICIT GraphicString OPTIONAL,

-- The document type attribute indicates the category that the document is put into.

edition [3] IMPLICIT GraphicString OPTIONAL,

-- The edition attribute indicates the edition of the document.

reference [4] IMPLICIT GraphicString OPTIONAL,

-- The reference attribute is used for setting a code for identifying the document.

subject [5] IMPLICIT GraphicString OPTIONAL,
-- The subject attribute indicates the topic of the document.

format [6] IMPLICIT GraphicString OPTIONAL,

-- The format attribute indicates the paper size of the document.

copyrights [7] IMPLICIT GraphicString OPTIONAL,

-- The copyrights attribute indicates who has the copyrights of the document.

keywords [8] IMPLICIT GraphicString OPTIONAL,

-- The keywords attribute indicates the words representing the contents of the document.

abstract [9] IMPLICIT GraphicString OPTIONAL,

-- The abstract attribute contains the summary of the document.

language [10] IMPLICIT GraphicString OPTIONAL,

-- The language attribute indicates what language is used in the document.

private [11] IMPLICIT Private-Use-Attribute OPTIONAL }

-- The meaning of the private attribute is not defined. The Private-Use-Attribute syntax is defined

-- in 5.9.

5.17.3 **Communication syntax**

5.17.4

5.17.5

5.17.6

5.17.7

Sub-Address

The communication syntax is defined below:

Communication ::= SEQUENCE { general-priority [0] **IMPLICIT Priority DEFAULT (normal),** -- The general priority attribute indicates the general priority of transmitting the document to its -- destinations. The value of the general priority attribute is of type Priority defined -- in 5.17.4. NORMAL is the default value. originator-name [1] IMPLICIT GraphicString OPTIONAL, -- The originator name attribute indicates who originates the document. originator-T30-ID [2] IMPLICIT T30-Identity OPTIONAL, -- The value of the originator -- T30-ID attribute is of type T30-Identity defined in 5.17.5. [3] IMPLICIT Number-of-Fax OPTIONAL, originator-fax-number -- The originator fax number attribute indicates the number of the terminal from which the -- document originates. The value of the originator fax number attribute is of type Number-of-Fax -- defined in 5.17.6. originator-sub-address [4] IMPLICIT Sub-Address OPTIONAL, -- The value of the originator sub-address attribute is of type Sub-Address defined in 5.17.7. [5] IMPLICIT GeneralizedTime OPTIONAL, submission-date -- The submission date attribute indicates when the document is submitted to the store-and-forward -- system. The value of the submission date attribute is of type GeneralizedTime described in 5.5. pages-number [6] IMPLICIT INTEGER OPTIONAL, -- The pages number attribute indicates the total number of pages in the document. [7] IMPLICIT GraphicString OPTIONAL, document-recovery -- The document recovery attribute is used for the reference of the failed previous session. [8] IMPLICIT GraphicString OPTIONAL, password -- The password attribute conveys the word used for authenticating the originator of the document. [9] IMPLICIT SEQUENCE OF Receiving-Fax OPTIONAL, receiving-fax -- The receiving fax attribute contains information about destinations. It is a sequence of -- Receiving-Fax defined in 5.17.8. communication-private [10] Private-Use-Attribute OPTIONAL } -- The meaning of the communication private attribute is not defined. The Private-Use-Attribute is -- defined in 5.9. **Priority syntax** The priority is defined below: **Priority** ::= ENUMERATED { normal -- Normal indicates that the priority of transmission is not specified. nonurgent (1), -- Nonurgent indicates that delayed transmission is acceptable. urgent **(2)** } -- Urgent indicates that the document should be transmit urgently. T30-Identity syntax The T30-Identity is defined below: ::= GraphicString -- The originator T30-ID attribute is set using the TSI parameter from T.30. Number of fax syntax The number of fax is defined below: Number-of-Fax ::= GraphicString -- Number of fax takes E164 format. **Sub-Address syntax** The Sub-address is defined below:

The originator *sub-address* attribute indicates the *sub-address* of the terminal from which the -- document originates. The syntax of sub-address is defined in T.30.

::= GraphicString

5.17.8 Receiving fax syntax

The Receiving fax is defined below:

Receiving-Fax ::= SEQUENCE {

fax-number [0] IMPLICIT Number-of-Fax,

- -- The fax number attribute indicates the number of the designated terminal. The value of fax
- -- number is of type Number-of-Fax defined in 5.17.6.

recipient [1] IMPLICIT SEQUENCE OF Recipient-Information OPTIONAL }

- -- The recipient attribute contains information used for communication with the terminals of
- -- the recipients. It is a sequence of Recipient-Information defined in 5.17.9.

5.17.9 Recipient information syntax

The recipient information is defined below:

Recipient-Information

::= SEQUENCE {

name

e [0] IMPLICIT GraphicString,
-- The name attribute indicates the name of the recipient.

type

[1] IMPLICIT Copy DEFAULT {principal},

- -- The type attribute indicates the priority of the recipient who receives the document.
- -- The value of the type attribute is of type Copy defined in 5.17.10. PRINCIPAL is
- -- the default value.

priority-of-copy

[2] IMPLICIT Priority DEFAULT {normal},

- -- The priority of copy attribute indicates the priority of transmitting the document to the
- -- recipient. The value of the priority of copy attribute is of type Priority defined in 5.17.4.
- -- NORMAL is the default value.

latest-delivery-time

[3] IMPLICIT GeneralizedTime OPTIONAL,

- -- The latest delivery time attribute indicates what time the document should be delivered by.
- -- The value of the latest delivery time attribute is of type GeneralizedTime described in 5.5.

deferred-delivery-time

[4] IMPLICIT GeneralizedTime OPTIONAL,

- -- The deferred delivery time attribute indicates what time the document should be delivered after.
- -- The value of the deferred delivery time attribute is of type GeneralizedTime described in 5.5.

sub-addressing-copy

[5] IMPLICIT Sub-Address-Copy OPTIONAL,

- -- The sub-address copy attribute indicates the address information for forwarding. The value of the
- -- sub-address copy attribute is of type Sub-Address-Copy defined in 5.17.11.

report-request

[6] IMPLICIT Report DEFAULT {no-report},

- -- The report request attribute indicates whether the originator requested to deliver report.
- -- The value of the report attribute is of type Report defined in 5.17.12. NO-REPORT is
- -- the default value.

complement

[7] Private-Use-Attribute OPTIONAL}

-- The meaning of complement attribute is not defined. The Private-Use-Attribute syntax is defined

(2),

-- in 5.9.

5.17.10 Copy syntax

The copy is defined below:

Copy ::= ENUMERATED {

principal (0)

-- Principal indicates the primary recipient of the document.

py (1

-- Copy indicates an informational recipient of the document.

blind-copy

-- Blind copy indicates an additional recipient of the document.

forward (3)

-- Forward indicates a recipient who is forwarded the document.

5.17.11 Sub-address copy syntax

The sub-address copy is defined below:

Sub-Address-Copy ::= CHOICE {

name [0] IMPLICIT GraphicString,

-- The name attribute indicates the recipient name that the document is forwarded to.

number [1] IMPLICIT Number-of-Fax,

- -- The number attribute indicates the number that the document is forwarded to. The value of the
- -- number attribute is of type Number-of-Fax defined in 5.17.6.

T30-ID

[2] IMPLICIT T30-Identity,

- -- The T30-ID attribute is used for setting parameter from T.30. The value of the
- -- T30-ID is of type T30-Identity defined in 5.17.5.

sub-address

[3] IMPLICIT Sub-Address,

- -- The sub-address attribute indicates sub-addresses that the document is forwarded to.
- -- The value of the sub-address attribute is of type Sub-Address defined in 5.17.7.

list

[4] IMPLICIT GraphicString,

-- The list attribute is used for broadcasting list that contains forwarding addresses.

short-number

[5] IMPLICIT GraphicString,

-- The short number attribute indicates an abbreviated local number such as one touch dial number.

reference-number

[6] IMPLICIT GraphicString,

- -- The reference number attribute indicates the number that identifies the stored document in
- -- the store-and-forward system.

}

5.17.12 Report syntax

The report is defined below:

Report

::= ENUMERATED {

no-report

(0),

-- No report indicates that a report is not requested.

no-delivery-report

(1),

- -- No delivery report indicates that a report is requested in the event of that the
- -- document is not delivered completely.

report-requested

(2) }

-- Report requested indicates that a report is requested.

5.17.13 Delivery information syntax

The delivery information is defined below:

Delivery-Information

::= IMPLICIT SEQUENCE OF SEQUENCE {

date-and-time-of-sending

- [0] IMPLICIT GeneralizedTime OPTIONAL,
- -- system begins to receive the document from the originating terminal. The value of the date
- -- and time of sending attribute is of type GeneralizedTime described in 5.5.

-- The date and time of sending attribute is a time stamp the store-and-forward

originator-fax-number

[1] IMPLICIT GraphicString OPTIONAL,

- -- The originator fax number attribute indicates the number of the terminal from which the
- -- document originates.

file-number

[2] IMPLICIT INTEGER OPTIONAL,

-- The file number attribute indicates the ordinal number of the file in a series of files.

whole-number

[3] IMPLICIT INTEGER OPTIONAL,

-- The whole number attribute indicates the total number of the files.

last-file-indication

[4] IMPLICIT GraphicString OPTIONAL,

-- The last file indication attribute identifies the final file in a series of files.

delivery-re-try-indication

[5] IMPLICIT GraphicString OPTIONAL,

- -- The delivery re-try indication attribute identifies that the store-and-forward system tried to
- -- deliver the files more than twice.

charge-address

[6] IMPLICIT GraphicString OPTIONAL,

- -- The charge address attribute indicates the address that is charged for the communication
- -- by the store-and-forward system.

information-fee

[7] IMPLICIT GraphicString OPTIONAL,

- $\hbox{\it -- The information fee attribute is used for the fee when the originator makes use of the toll}\\$
- -- information providing service.

$original \hbox{-} file \hbox{-} form at$

[8] IMPLICIT General-Identifier OPTIONAL,

- -- The original file format attribute indicates the files structure when the files were received by the
- -- store-and-forward system.

terminal-file-format

[9] IMPLICIT General-Identifier OPTIONAL,

- -- The terminal file format attribute indicates the files structure when the files were delivered to
- -- the destination by the store-and-forward system.

delivery-time-designate-indication

[10] IMPLICIT GraphicString OPTIONAL,

-- The delivery time designate indication attribute identifies the scheduled delivery.

addressee

[11] IMPLICIT GraphicString OPTIONAL }

-- The addressee attribute is used for the addressee information.

5.18 File and retrieval syntax (for further study)

The File and retrieval attribute is used for archiving, management and manipulation of documents.

file-retrieval

[31] IMPLICIT File-Retrieval-Attribute OPTIONAL

3) Annex A/T.434

Amend the BFT abstract syntax as shown below:

Annex A

BFT abstract syntax definition

BFT-FORMAT { itut(0) recommendation(8) tseries(20) bft(434) version (2)} BEGIN

-- EXPORTS Everything

IMPORTS;

BINARY-DATA-Message ::= [APPLICATION 23]

IMPLICIT SEQUENCE OF SEQUENCE { [28] Protocol-Version DEFAULT {version-1},

protocol-version [0] IMPLICIT Filename-Attribute OPTIONAL, filename IMPLICIT Permitted-Actions-Attribute OPTIONAL, permitted-actions [1]

contents-type [2] Contents-Type-Attribute OPTIONAL,

- -- DEFAULT { UNSTRUCTURED BINARY }
- -- not specifying this attribute implies that data-file-content
- -- is unstructured binary

storage-account IMPLICIT GraphicString OPTIONAL, date-and-time-of-creation [4] IMPLICIT GeneralizedTime OPTIONAL, date-and-time-of-last-modification [5] IMPLICIT GeneralizedTime OPTIONAL, date-and-time-of-last-read-access [6] IMPLICIT GeneralizedTime OPTIONAL,

-- 7 is reserved for date-and-time-of-last-attribute-modification

identity-of-creator [8] IMPLICIT GraphicString OPTIONAL, identity-of-last-modifier [9] IMPLICIT GraphicString OPTIONAL, identity-of-last-reader [10] IMPLICIT GraphicString OPTIONAL,

-- 11 is reserved for identity-of-last-attribute-modifier

-- 12 is reserved for file-availability

filesize [13] IMPLICIT INTEGER OPTIONAL, future-filesize [14] IMPLICIT INTEGER OPTIONAL, access-control [15] Access-Control-Attribute OPTIONAL,

-- the use of this attribute is for further study

legal-qualifications [16] IMPLICIT GraphicString OPTIONAL, private-use [17] Private-Use-Attribute OPTIONAL,

[18] IMPLICIT OBJECT IDENTIFIER OPTIONAL, structure

application-reference [19] General-Identifier OPTIONAL,

[20] IMPLICIT SEQUENCE OF GraphicString OPTIONAL, machine [21] IMPLICIT OBJECT IDENTIFIER OPTIONAL, operating-system [22] IMPLICIT SEQUENCE OF GraphicString OPTIONAL, recipient character-set [23] IMPLICIT OBJECT IDENTIFIER OPTIONAL,

[24] General-Identifier OPTIONAL, compression

- -- Indicates an optional compression applied to the content
- -- octets of the attribute data-file-content

[25] IMPLICIT SEQUENCE OF GraphicString OPTIONAL, environment pathname [26] IMPLICIT SEQUENCE OF GraphicString OPTIONAL, store-and-forward [27] IMPLICIT Store-And-Forward-Attribute OPTIONAL, user-visible-string [29] IMPLICIT SEQUENCE OF GraphicString OPTIONAL, [31] IMPLICIT File-Retrieval-Attribute OPTIONAL, file-retrieval

-- the use of this attribute is for further study

data-file-content [30] CHOICE ::= {EXTERNAL, ANY OPTIONAL

```
-- See Annex B of ISO 8571-2 for more information
                                         CHOICE {
                                                  [1] OBJECT IDENTIFIER,
    document-type-name
                                                  [0] ANY OPTIONAL }
    parameter
    -- The actual types to be used for values of the parameter field are defined in the document-type-name.
    -- They may consist of an object identifier assigned to the document type, or be
    -- UNSTRUCTURED TEXT.
                                              ::= INTEGER {
Entity-Reference
    no-categorization-possible
                                                              (0),
    initiating-file-service-user
                                                             (1),
    initiating-file-protocol-machine
                                                             (2),
    service\hbox{-}supporting\hbox{-}the\hbox{-}file\hbox{-}protocol\hbox{-}machine
                                                             (3),
    responding-file-protocol-machine
                                                             (4),
    responding-file-service-user
                                                             (5) }
Filename-Attribute
                                    ::= SEQUENCE OF GraphicString
General-Identifier
                                         CHOICE { OBJECT IDENTIFIER,
                                                   IMPLICIT SEQUENCE OF GraphicString }
Password
                                         CHOICE { GraphicString,
                                                   OCTET STRING }
                                    ::= BIT STRING {
Permitted-Actions-Attribute
-- Actions available
    read
                                                             (0),
    insert
                                                             (1),
    replace
                                                             (2),
    extend
                                                             (3),
    erase
                                                             (4) } (size (2...2))
Private-Use-Attribute
                                     ::= SEQUENCE {
                                     manufacturer-values [0] ANY OPTIONAL}
Protocol-Version
                                        IMPLICIT BIT STRING { version-2 (1) }
User-Identity
                                    ::= GraphicString
Store-And-Forward-Attribute
                                         SEQUENCE {
    store-and-forward-request
                                         IMPLICIT Store-And-Forward-Request OPTIONAL,
                                     [0]
                                    [1] IMPLICIT Delivery-Information OPTIONAL }
    delivery-information
Store-And-Forward-Request
                                     ::= SEQUENCE {
                                         IMPLICIT Doc-Characteristics OPTIONAL,
    document-characteristics
                                    [0]
    communication
                                    [1] IMPLICIT Communication OPTIONAL }
Doc-Characteristics
                                         SEQUENCE {
                                     [0] IMPLICIT GraphicString OPTIONAL,
    document-name
                                    [1] IMPLICIT GraphicString OPTIONAL,
    version
    document-type
                                        IMPLICIT GraphicString OPTIONAL,
                                    [2]
                                    [3] IMPLICIT GraphicString OPTIONAL,
    edition
    reference
                                    [4] IMPLICIT GraphicString OPTIONAL,
    subject
                                    [5]
                                        IMPLICIT GraphicString OPTIONAL,
    format
                                     [6]
                                        IMPLICIT GraphicString OPTIONAL,
                                         IMPLICIT GraphicString OPTIONAL,
    copyrights
                                    [7]
    keywords
                                         IMPLICIT GraphicString OPTIONAL,
                                    [8]
                                         IMPLICIT GraphicString OPTIONAL,
    abstract
                                    [9]
                                    [10] IMPLICIT GraphicString OPTIONAL,
    language
    private
                                    [11] IMPLICIT Private-Use-Attribute OPTIONAL }
Communication
                                     ::= SEOUENCE {
                                        IMPLICIT Priority DEFAULT {normal},
    general-priority
                                    [0]
    originator-name
                                         IMPLICIT GraphicString OPTIONAL,
                                    [1]
                                    [2] IMPLICIT T30-Identity OPTIONAL,
    originator-T30-ID
                                    [3] IMPLICIT Number-of-Fax OPTIONAL,
    originator-fax-number
                                    [4] IMPLICIT Sub-Address OPTIONAL,
    originator-sub-address
    submission-date
                                    [5] IMPLICIT GeneralizedTime OPTIONAL,
    pages-number
                                    [6] IMPLICIT INTEGER OPTIONAL,
    document-recovery
                                    [7] IMPLICIT GraphicString OPTIONAL,
    password
                                    [8] IMPLICIT GraphicString OPTIONAL,
```

Contents-Type-Attribute

```
[9] IMPLICIT SEQUENCE OF Receiving-Fax OPTIONAL,
    receiving-fax
    communication-private
                                    [10] Private-Use-Attribute OPTIONAL }
                                    ::= ENUMERATED {
Priority
-- Priority takes following status:
                                                  (0),
    normal
    nonurgent
                                                  (1),
    urgent
                                                  (2) }
T30-Identity
                                        GraphicString
Number-of-Fax
                                        GraphicString
Sub-Address
                                        GraphicString
Receiving-Fax
                                        SEQUENCE {
    fax-number
                                        IMPLICIT Number-of-Fax,
    recipient
                                        IMPLICIT SEQUENCE OF Recipient-Information OPTIONAL }
Recipient-Information
                                        SEQUENCE {
                                    ::=
                                    [0]
                                        IMPLICIT GraphicString,
    name
                                    [1] IMPLICIT Copy DEFAULT {principal},
    type
                                    [2] IMPLICIT Priority DEFAULT {normal},
    priority-of-copy
    latest-delivery-time
                                        IMPLICIT GeneralizedTime OPTIONAL,
                                    [3]
    deferred-delivery-time
                                    [4]
                                        IMPLICIT GeneralizedTime OPTIONAL,
    sub-addressing-copy
                                    [5]
                                        IMPLICIT Sub-Address-Copy OPTIONAL,
    report-request
                                    [6]
                                        IMPLICIT Report DEFAULT (no-report),
    compliment
                                    [7]
                                        Pivate-Use-Attribute OPTIONAL}
                                    ::= ENUMERATED {
Copy
-- Copy takes following status:
    principal
                                                  (0),
    copy
                                                  (1),
    blind-copy
                                                  (2),
    forward
                                                  (3) }
Sub-Address-Copy
                                    ::= CHOICE {
                                    [0] IMPLICIT GraphicString,
    name
    number
                                    [1]
                                        IMPLICIT Number-of-Fax,
    T30-ID
                                    [2]
                                        IMPLICIT T30-Identity,
    sub-address
                                    [3]
                                        IMPLICIT Sub-Address,
                                        IMPLICIT GraphicString,
-- name or broadcast list number
                                        IMPLICIT GraphicString,
    short-number
                                    [5]
    reference-number
                                        IMPLICIT GraphicString,
                                    [6]
                                                  }
Report
                                        ENUMERATED {
    no-report
                                                  (0),
    no-delivery-report
                                                  (1),
    report-requested
                                                  (2) }
Delivery-Information
                                    ::= IMPLICIT SEQUENCE OF SEQUENCE {
    date-and-time-of-sending
                                    [0]
                                        IMPLICIT GeneralizedTime OPTIONAL,
                                        IMPLICIT GraphicString OPTIONAL,
    originator-fax-number
                                    [1]
                                        IMPLICIT INTEGER OPTIONAL,
    file-number
                                    [2]
                                    [3] IMPLICIT INTEGER OPTIONAL,
    whole-number
    last-file-indication
                                    [4] IMPLICIT GraphicString OPTIONAL,
    delivery-re-try-indication
                                    [5] IMPLICIT GraphicString OPTIONAL,
    charge-address
                                    [6] IMPLICIT GraphicString OPTIONAL,
    information-fee
                                    [7] IMPLICIT GraphicString OPTIONAL,
    original-file-format
                                    [8] IMPLICIT General-Identifier OPTIONAL,
                                    [9] IMPLICIT General-Identifier OPTIONAL,
    terminal-file-format
    delivery-time-designate-indication
                                    [10] IMPLICIT GraphicString OPTIONAL,
    addressee
                                    [11] IMPLICIT GraphicString OPTIONAL,}
```

END

ITU-T RECOMMENDATIONS SERIES

Series A	Organization of the work of the ITU-T
Series B	Means of expression: definitions, symbols, classification
Series C	General telecommunication statistics
Series D	General tariff principles
Series E	Overall network operation, telephone service, service operation and human factors
Series F	Non-telephone telecommunication services
Series G	Transmission systems and media, digital systems and networks
Series H	Audiovisual and multimedia systems
Series I	Integrated services digital network
Series J	Transmission of television, sound programme and other multimedia signals
Series K	Protection against interference
Series L	Construction, installation and protection of cables and other elements of outside plant
Series M	TMN and network maintenance: international transmission systems, telephone circuits, telegraphy, facsimile and leased circuits
Series N	Maintenance: international sound programme and television transmission circuits
Series O	Specifications of measuring equipment
Series P	Telephone transmission quality, telephone installations, local line networks
Series Q	Switching and signalling
Series R	Telegraph transmission
Series S	Telegraph services terminal equipment
Series T	Terminals for telematic services
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Series V	Data communication over the telephone network
Series X	Data networks and open system communications
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Series Z	Programming languages