INTERNATIONAL TELECOMMUNICATION UNION

ITU-T

TELECOMMUNICATION
STANDARDIZATION SECTOR
OF ITU

Amendment 1

T.434

(08/95)

TERMINALS FOR TELEMATIC SERVICES

BINARY FILE TRANSFER FORMAT FOR THE TELEMATIC SERVICES

ANNEX B: DIAGNOSTIC MESSAGES

Amendment 1 to
ITU-T Recommendation T.434

(Previously "CCITT Recommendation")

FOREWORD

The ITU-T (Telecommunication Standardization Sector) is a permanent organ of the International Telecommunication Union (ITU). The ITU-T is responsible for studying technical, operating and tariff questions and issuing Recommendations on them with a view to standardizing telecommunications on a worldwide basis.

The World Telecommunication Standardization Conference (WTSC), which meets every four years, establishes the topics for study by the ITU-T Study Groups which, in their turn, produce Recommendations on these topics.

The approval of Recommendations by the Members of the ITU-T is covered by the procedure laid down in WTSC Resolution No. 1 (Helsinki, March 1-12, 1993).

Amendment 1 to ITU-T Recommendation T.434, was prepared by ITU-T Study Group 8 (1993-1996) and was approved under the WTSC Resolution No. 1 procedure on the 11th of August 1995.

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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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SUMMARY

Amendment 1 to Recommendation T.434 contains a new annex, i.e. Annex B: "Diagnostic messages" which defines the format of diagnostic messages when the diagnostic message facility is used in applications using Recommendation T.434. Diagnostic messages may be issued by the receiving terminal in a file transfer if some difficulties in completing the procedure are encountered informing the sending terminal about the type of problem.

BINARY FILE TRANSFER FORMAT FOR THE TELEMATIC SERVICES

Annex B
(to Recommendation T.434)

Diagnostic messages

B.1 Introduction

Some applications using the T.434 binary file transfer format have facilities for the exchange of diagnostic messages between the sending and receiving terminal (e.g. Group 3 facsimile). This annex defines the components which form the diagnostic parameter. It details the valid values and their meaning for each component.

B.2 Form of the diagnostic message

The value of the diagnostic parameter is structured into the following items:

1) An error type indicating "permanent error" or "transient error" or "informative". A permanent error occurs every time the sequence of events is repeated, and implies the failure of at least the present operation being performed. A transient error may not re-occur if the sequence is repeated but does imply the failure of the operation being performed. An informative error does not require recovery and does not affect the current state of the file service. See Tables B.1 and B.2.

2) An error identifier categorizing errors in terms of concepts defined in the virtual filestore definition or in terms of Recommendation X.200.

3) Optionally, a text message in natural language giving further details of the cause of the error, it may include not standardized concepts relating to the local system environment of the filestore provider. The values are of the type GraphicString.

TABLE B.1/T.434

Error types

Error type value	Error type
0	Informative
1	Transient
2	Permanent

TABLE B.2/T.434

BFT diagnostic messages

Type			Identifier	Reason
	1	2	0	No reason
0	1	2	1	Responder error (unspecific)
	1	2	2	System shutdown
0	1	2	7	Initiator error (unspecific)
0	1	2	9	Temporal insufficiency (unspecific)
		2	1000	Conflicting parameter values
		2	1001	Unsupported parameter values
		2	1002	Mandatory parameter no set
		2	1003	Unsupported parameter
		2	1004	Duplicated parameter
		2	1005	Illegal parameter type
		2	1006	Unsupported parameter types
	1	2	1013	Timeout
	1	2	3000	Filename not found
	1	2	3004	Non-existent file
	1	2	3005	File already exists
0	1	2	3006	File cannot be created
	1	2	3012	File busy
	1	2	3013	File not available
0			3017	Filename truncated
	1	2	3019	Bad account
0	1	2	4000	Attribute non-existent
	1	2	4003	Attribute not supported
		2	4004	Bad attribute name
		2	4005	Bad attribute value
0	1	2	5028	Local failure (unspecific)
0	1	2	5029	Local failure – filespace exhausted
0	1	2	5030	Local failure – data corrupted
0	1	2	5031	Local failure – device failure
		2	5032	Future file size exceeded
0			5034	Future file size increased

B.3 Transfer of BFT diagnostic messages in DTAM transparent mode

In DTAM Transparent Mode, the parameters defined in B.2 are offered to be sent as diagnostic messages from the receiving equipment to the sender in the case of Binary File Transfer in the Group 4 Telefax environment. These messages are reserved to be sent in the case of errors only. If the communicating partners are able to continue the association by transfer of other files or Fax documents depending on the implementations, the use of diagnostic messages is optional.

The diagnostic messages are carried by the S-SYNC-MINOR resp./conf. user data. The supply of the S-SYNC-MINOR user data is done by the receiving equipment without involvement of the DTAM service. The reception and interpretation of the diagnostic message by the sender of the file is also done outside the responsibility of the DTAM service and DTAM protocol machine.

Table B.3 contains a bit assignment for the diagnostic messages in the first octet of the S-SYNC-MINOR resp./conf. user data.

TABLE B.3/T.434

No reason	00000010
Responder error (unspecific)	00000011
System shutdown	00000100
Initiator error (unspecific)	00000101
Temporal insufficiency of ressources	00000110
Conflicting parameter values	00000111
Unsupported parameter values	00001000
Mandatory parameter not set	00001001
Unsupported parameter	00001010
Duplicated parameter	00001011
Illegal parameter type	00001100
Unsupported parameter types	00001101
Timeout	00001110
Filename not found	00001111
Non-existent file	00010000
File already exists	00010001
File cannot be created	00010010
File busy	00010011
File not available	00010100
Filename truncated	00010101
Bad account	00010110
Attribute non-existent	00010111
Attribute not supported	00011000
Bad attribute name	00011001
Bad attribute value	00011010
Local failure (unspecific)	00011011
Local failure – filespace exhausted	00011100
Local failure – data corrupted	00011101
Local failure – device failure	00011110
Future file-size exceeded	00011111
Future file-size increased	00100000