



**SLOVENSKI STANDARD**  
**SIST ETS 300 075:2003/A1 E2:2003**  
**01-december-2003**

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Terminal Equipment (TE); Processable data; File transfer

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Ta slovenski standard je istoveten z: **ETS 300 075/A1 Edition 2**

[SIST ETS 300 075:2003/A1 E2:2003](https://standards.iteh.ai/catalog/standards/sist/f7c794f9-6a6b-4bf8-b41d-9171b8619779/sist-ets-300-075-2003-a1-e2-2003)

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**ICS:**

33.160.99	Druga avdio, video in avdiovizuelna oprema	Other audio, video and audiovisual equipment
35.180	Terminalska in druga periferna oprema IT	IT Terminal and other peripheral equipment

**SIST ETS 300 075:2003/A1 E2:2003**      **en**

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# AMENDMENT

**ETS 300 075**

**A1**

**November 1995**

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Source: ETSI TC-TE

Reference: RE/TE-01058

ICS: 33.040

**Key words:** processable data, file transfer

This amendment A1 modifies  
the European Telecommunication Standard ETS 300 075 (1994) - Second Edition  
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**Terminal Equipment (TE);**  
<https://standards.iteh.ai/catalog/standards/sist/17c794f9-6a6b-4bf8-b41d-9171b8619774/ets-300-075-1994-2>  
**Processable data;**

**File transfer**

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## Foreword

This amendment to ETS 300 075 (1994), second edition, has been produced by the Terminal Equipment (TE) Technical Committee of the European Telecommunications Standards Institute (ETSI).

Transposition dates	
Date of adoption of this ETS:	13 October 1995
Date of latest announcement of this ETS (doa):	29 February 1996
Date of latest publication of new National Standard or endorsement of this ETS (dop/e):	31 August 1996
Date of withdrawal of any conflicting National Standard (dow):	31 August 1996

## Amendments

The amendments are as follows:

**Page 15, clause 2, normative references. Add CCITT Recommendation T.51 (1992) as reference [8].**

[8] CCITT Recommendation T.51 (1992): "Latin based coded character sets for telematic services".

**Page 54, subclause 5.5.1.28. For applications that display the progress of the file transfer and calculate the remaining time, it would be helpful to know the exact amount of physical data to transfer. This can be achieved by an optional attribute in the file header. Subclause 5.5.1.28 is to be renumbered as subclause 5.5.1.29 with the following being inserted:**

[SIST ETS 300 075:2003/A1 E2:2003](#)

**5.5.1.28 Length of file during transmission** [ist/f7c794f9-6a6b-4bf8-b41d-9171b8619779/sist-ets-300-075-2003-a1-e2-2003](#)

This attribute indicates the size in bytes of the file content in compressed form. If the file is transferred in uncompressed form, this parameter, when present, shall be set equal to the file length parameter.

Modify table 2 in the re-numbered subclause 5.5.1.29 (status of file attributes) as follows:

Table 2

File Attributes	Application		Default Value
	Telesoftware	Printer	
File type	O	O	Text file
Execution order	O	-	Don't care
Transfer name	O	O	No
Filename	O	O	No
Date of last modification	O	O	No
File length	O	O	No
Destination code	O	-	Don't care
File coding	O	O	Depends on file type
Destination name	O	-	No
Cost	O	O	No
User field/Application reference	O	O	No
Load address (abs.)	O	-	No
Execute address (abs.)	O	-	No
Execute address (rel.)	O	-	No
Compression mode	O	O	No compression
Device	O	O	Don't care
File checksum	O	O	No
Author name	O	O	No
Future file length	O	O	No
Permitted actions	O	O	No
Legal qualification	O	O	No
Creation	O	O	No
Last read access	O	O	No
Identity of the last modifier	O	O	No
Identity of the last reader	O	O	No
Recipient	O	O	No
Telematic file transfer version	O	O	No
Length of file during transmission	O	O	No
O: Optional -: Irrelevant NOTE: Other attributes may be added to take into account the auxiliary device application requirements.			

Page 54, subclause 5.6.1, third and fifth paragraphs, replace the reference to subclause 5.5.1.17 by subclause 5.5.1.29 to read as follows:

All the attributes listed in subclause 5.5.1.29 may be used to characterize a file involved in a telesoftware application.

The attributes listed in subclause 5.5.1.29 may be used to characterize a file involved in a printer device application.

Page 66, subclause 6.2.5.1, tenth line, delete the bullet item "user abort of the access regime;" to read as shown below.

#### 6.2.5.1 Content of the T-End-Access TDU and the associated response

##### T-End-Access

Reason  
User data

##### T-Response-positive

User data

The use of the parameters is described in the service definition.

The Reason parameter in T-End-Access takes one of the following values:

- termination of the access regime requested by the service user:
  - reason not specified (default value);
  - insufficient primitives handled;
  - other reason (this last value may be followed by a string of no more than 62 displayable characters).

Page 78, subclause 7.1.1.1, amend the sentence to replace "table 5" by "table 4":

The first byte of a TDU identifies the TDU according to the coding in table 4.

Page 78, subclause 7.1.1.3, amend the first bullet point to replace "table 6" by "table 5":

- Parameter Identifier field (PI): a single byte identifying the parameter. The coding of PIs is specified in table 5;

Page 80, subclause 7.1.2.1.2, amend the final sentence on page 81 to read:

A T-associate response coded on one byte indicates that only the Basic kernel is supported by the receiver.

Page 94, table 6, subclause 7.3.2, modify the table to read as follows:

**Table 6: Coding of file attributes**

Attribute	PI
File type	2/0
Execution order	2/1
Transfer name	2/2
File name	2/3
Date	2/4
File length	2/5
Destination code	2/6
File coding	2/7
Destination name	2/8
Cost	2/9
User field/Application reference	2/10
Load address	2/11
Execute address (absolute)	2/12
Execute address (relative)	2/13
Compression mode	2/14
Device	2/15
File checksum	3/0
Author name	3/1
Future file length	3/2
Permitted actions	3/3
Legal qualification	3/4
Creation	3/5
Last read access	3/6
Identity of the last modifier	3/7
Identity of the last reader	3/8
Recipient	3/9
Telematic file transfer version	3/10
Length of file during transmission	3/11

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Page 96, subclause 7.3.2.8. The possible use of the file transfer protocol outside the Videotex area requires the identification of new contents and their encodings. One of them is the facsimile encoding according to ITU-T Recommendations T.4 and T.6.

For this purpose, extend the text file list in subclause 7.3.2.8 as follows:

Text file:	5/0	other code,
	5/1	As for 3/1 above (default value),
	5/2	Videotex code profile 2 (as defined by ETS 300 072 [2]),
	5/3	Videotex code profile 1 (as defined by ETS 300 072 [2]),
	5/4	Videotex code profile 3 (as defined by ETS 300 072 [2]),
	5/7	geometric,
	5/6	photographic,
5/7	sound.	
facsimile coded file:	6/0	ITU-T Recommendation T.4 encoding schemes,
	6/1	ITU-T Recommendation T.6 encoding schemes.



Subsequent bytes, if present, for "6/0" and "6/1" values are coded as follows:

The following byte identifies the compression mode:

2/0	no compression,
2/1	monodimensional compression -T.4 (default),
2/2	bidimensional compression with K=2 -T.4,
2/3	bidimensional compression with K=4 -T.4,
2/4	bidimensional compression with K=infinite -T.6.

The following byte identifies the paper length:

2/10	ISO A4 (default),
2/11	ISO B4,
2/12	ISO A3,
2/13	unlimited.

The following byte identifies the horizontal resolution:

3/0	R8 = 1 728 pels/215 mm for ISO A4 (default),
3/1	R8 = 2 048 pels/255 mm for ISO B4,
3/2	R8 = 2 432 pels/303 mm for ISO A3,
3/3	R16 = 3 456 pels/215 mm for ISO A4 (default),
3/4	R16 = 4 096 pels/255 mm for ISO B4,
3/5	R16 = 4 864 pels/303 mm for ISO A3.

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The following byte identifies the vertical resolution:

4/0	3,85 lines/mm,
4/1	7,7 lines/mm (default),
4/2	15,4 lines/mm.

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The following byte identifies inch-based resolutions:

5/0	200*200 pels/25,4 mm,
5/1	240*240 pels/25,4 mm,
5/2	300*300 pels/25,4 mm,
5/1	400*400 pels/25,4 mm.

Page 101, insert the following new subclause 7.3.2.28:

### 7.3.2.28 Length of the file during transmission

PI compressed file length	= 3/11
LI	= n < 9
PV	= n bytes

The value is a variable length parameter in which the actual number of bytes in the compressed file (the file length after performing the compression algorithm) is coded in an absolute binary form using all eight bits of each byte. If the parameter is coded in more than one byte, the first byte to be transmitted contains the most significant bits.

Page 8

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Page 106, final paragraph of subclause 7.4.3, modify the text to read as follows:

An elementary word is a byte sequence of no more than 12 bytes. Each byte can take any value according to CCITT Recommendation T.51 [7] in the range 2/1 and 7/14 excepted 2/8, 2/9, 2/11 and 2/15, moreover this word cannot contain more than one byte 2/10 (displayed "\*\*").

Page 106, subclause 7.4.4, re-name the title as follows:

7.4.4 Designation in T-load, T-Save, T-Rename, T-Delete and NewName in T-Rename

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Page 126, annex A, delete the current text and replace with the following:

## Annex A (informative): A compression algorithm

This compression is based on two compression algorithms named LZSS and adaptive Huffman compression. The LZSS is a dictionary based algorithm, and Huffman reduces the most frequent characters.

The following set of files is an example

- Lzhuf.c , compression algorithm
- Hufttbl.c, huffman Tables
- Crc32.c, CRC calculation
- all.h, general.h, ansi.h, include files

```

/*=====
 * lzhuf.c
 * LZSS and adaptive Huffman data compression
 *=====
*/
/*
 * written by Haruyasu Yoshizaki 11/20/1988
 * some minor changes 4/6/1989
 * comments translated by Haruhiko Okumura 4/7/1989
 * modified for Btx-FIF by InfoTeSys GmH 1991-11-04
 * - use malloc() instead of huge static areas
 * - files have to be opened outside of this module
 * - FCS-check included
 * - length field "long(Filesize)" has been removed from file
 * modified by Orsenna 15/06/1994
 * - comments added
 * - some minor changes
*/
/*=====
 * HEADER FILES *
 *=====*/
#include <stdio.h>
#include <stdlib.h>
#include <string.h>
#include "all.h"

/*=====
 * CONSTANTS *
 *=====*/
#ifndef EXIT_FAILURE
#define EXIT_FAILURE 0
#define EXIT_SUCCESS 1
#endif
#ifndef SEEK_SET
#define SEEK_SET 0
#define SEEK_END 2
#endif
/*
 * DIC_BIT_COUNT is the number of bits to encode a position in the dictionary
 */
#define DIC_BIT_COUNT 12
/*
 * The buffer size is equal to 1 << 12 = 4096
 */
#define WINDOW_SIZE (1 << DIC_BIT_COUNT)

```

```

/*
 * Lookahead buffer size (needs 6 bits) ; used for length encoding so
 * LENGTH_BIT_COUNT = 6
 */
#define LOOK_AHEAD_SIZE 60
/*
 * Threshold is a number to see from which length it's better to encode
 * with an index/length (12+6=18bits) or only a separate character (8 bits).
 * THRESHOLD = ((1+DIC_BIT_COUNT+LENGTH_BIT_COUNT)/9)
 * The length must be > to THRESHOLD to encode with an index/length.
 */
#define THRESHOLD 2
/*
 * NIL is used by the leafs of the tree.
 */
#define NIL WINDOW_SIZE
#define TEXT_BUF_LEN (WINDOW_SIZE + LOOK_AHEAD_SIZE - 1)
/*
 * kinds of characters (character code = 0..N_CHAR-1) :
 * # 256 'standard' codes (0..255)
 * # LOOK_AHEAD_SIZE is used for length codes
 * # - THRESHOLD because we start encoding length codes from THRESHOLD
 */
#define N_CHAR (256 - THRESHOLD + LOOK_AHEAD_SIZE)
/*
 * Size of table
 */
#define TABLE_SIZE (N_CHAR * 2 - 1)
/*
 * Position of root
 */
#define ROOT_NODE (TABLE_SIZE - 1)
/*
 * MAX_FREQ is used to update tree when the root frequency comes to
 * this value.
 */
#define MAX_FREQ 0x8000
/*=====*/
/* STATIC VARIABLES */
/*=====*/
static FILE *inFile, *outFile;
static int32 inpSize, outSize;
static char writeError[] = "Can't write.";
static uint8 *textBuffer;
static uint16 matchPosition; /* best position */
static int matchLength; /* best length */
static int16 *leftSon; /* [WINDOW_SIZE + 1]; */
/*
 * [WINDOW_SIZE+1..WINDOW_SIZE + 257 - 1] is used to conserve roots
 */
static int16 *rightSon; /* [WINDOW_SIZE + 257]; */
static int16 *dad; /* [WINDOW_SIZE + 1]; */
/*=====*/
/* STRUCTURE DEFINITIONS */
/*=====*/
/*
 * You can change the input and output buffer size, it's faster with big
 * buffer size.
 */
typedef struct LzhEnvStruct {
    uint8 inputBuffer[2048]; /* input buffer : 2Ko */
    int inputPosition;
    int inputMax;

```

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