



INTERNATIONAL TELECOMMUNICATION UNION

**ITU-T**

TELECOMMUNICATION  
STANDARDIZATION SECTOR  
OF ITU

**Amendment 1**  
**T.51**  
(08/95)

**TERMINALS FOR TELEMATIC SERVICES**

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**LATIN BASED CODED CHARACTER SETS  
FOR TELEMATIC SERVICES**

**Amendment 1 to  
ITU-T Recommendation T.51**

(Previously "CCITT Recommendation")

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## 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.51, 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 contains two new annexes, i.e. “Annex D, T51String” and “Annex E, References”.

## LATIN BASED CODED CHARACTER SETS FOR TELEMATIC SERVICES

(1995)

### Annex D

#### T51String

##### D.1 Scope

This annex describes the rules to be applied when Recommendation T.51 is referenced by other telematic recommendations for the simplified use of Recommendation T.51, e.g. the encoding of names, strings. The **T51String** defined by this annex serves as a reference model by restricting Recommendation T.51 to those elements of the code extension mechanisms, of the character sets and repertoire which are necessary to define such simplified character strings coded according to Recommendation T.51.

In the view of these restrictions, this annex is not specific to a defined telematic service.

##### D.2 Graphic character sets

The primary set of graphic characters (see Figure D.1) is identical with the set of graphic characters of International Reference Version (IRV) of the 7-bit coded character set of Recommendation T.50.

The supplementary set of graphic characters is specified in Figure D.2.

For the **T51String** the following applies:

- The primary set is designated as the G0 set and invoked in columns 2 to 7 of the code table.
- The supplementary set is designated as a G2 set. In the 8-bit environment the set is invoked in columns 10 to 15.
- In the **T51String** no designation and invocation sequences are allowed.
- All characters in column 4 of the supplementary set are non-spacing characters (diacritical marks).
- Unallocated code positions are reserved and shall not be used.
- The compatibility provisions described in 2.2.4, Notes 3, 4 and 6 are not applied.

##### D.3 Code extension techniques

In the 8-bit environment no code extension sequence is allowed. In the 7-bit environment the single shift function SS2 (code 1/9) is used to invoke one character from the G2 set. All other shift functions are not allowed.

##### D.4 Repertoire of the Latin based character set

The **T51String** repertoire is identical with the superset of the repertoire of the Latin based character set specified in Annex A/T.51. All combinations of diacritical marks with basic letters as specified in Figure A.2 are supported.

The notes and remarks from A.4/T.51 shall not apply.

##### D.5 Control functions

Invocation and designation sequences for control functions are not allowed. From columns 0 and 1 of the code table in use only the control characters CR – Carriage Return (0/13) and LF – Line Feed (0/10) can be used. They are specified in Recommendation T.50.

b <sub>7</sub>	0	0	0	0	1	1	1	1				
b <sub>6</sub>	0	0	1	1	0	0	1	1				
b <sub>5</sub>	0	1	0	1	0	1	0	1				
	0	1	2	3	4	5	6	7				
b <sub>4</sub>	b <sub>3</sub>	b <sub>2</sub>	b <sub>1</sub>									
0	0	0	0	00			SP	0	@	P	`	p
0	0	0	1	01			!	1	A	Q	a	q
0	0	1	0	02			"	2	B	R	b	r
0	0	1	1	03			#	3	C	S	c	s
0	1	0	0	04			\$	4	D	T	d	t
0	1	0	1	05			%	5	E	U	e	u
0	1	1	0	06			&	6	F	V	f	v
0	1	1	1	07			'	7	G	W	g	w
1	0	0	0	08			(	8	H	X	h	x
1	0	0	1	09			)	9	I	Y	i	y
1	0	1	0	10			*	:	J	Z	j	z
1	0	1	1	11			+	;	K	[	k	{
1	1	0	0	12			,	<	L	\	l	
1	1	0	1	13			-	=	M	]	m	}
1	1	1	0	14			.	>	N	^	n	~
1	1	1	1	15			/	?	O	_	o	

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FIGURE D.1/T.51  
**Primary set of graphic characters for T51String**

b <sub>7</sub>	0	0	0	0	1	1	1	1				
b <sub>6</sub>	0	0	1	1	0	0	1	1				
b <sub>5</sub>	0	1	0	1	0	1	0	1				
	0	1	2	3	4	5	6	7				
b <sub>4</sub>	b <sub>3</sub>	b <sub>2</sub>	b <sub>1</sub>									
0	0	0	0	00			NBSP	°	—	Ω	K	
0	0	0	1	01			ı	±	`	1	Æ	æ
0	0	1	0	02			¢	²	´	®	Ð	ð
0	0	1	1	03			£	³	^	©	á	â
0	1	0	0	04				×	~	™	Ĥ	ĥ
0	1	0	1	05			¥	μ	—	♪		ı
0	1	1	0	06				¶	˘	¬	IJ	ij
0	1	1	1	07			§	·	·	ı	Ł	ł
1	0	0	0	08			α	÷	¨		Ł	ł
1	0	0	1	09			‘	’			Ø	ø
1	0	1	0	10			“	”	°		Œ	œ
1	0	1	1	11			«	»	¸		◊	β
1	1	0	0	12			←	¼		⅛	Ɔ	Ɔ
1	1	0	1	13			↑	½	"	⅜	Ɔ	Ɔ
1	1	1	0	14			→	¾	˘	⅝	Ŋ	ŋ
1	1	1	1	15			↓	˘	˘	⅞	'n	SHY

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FIGURE D.2/T.51  
**Supplementary set of graphic characters for T51String**

## Annex E

### References

- CCITT Recommendation T.50 (1992), *International Reference Alphabet (IRA) (formerly International Alphabet No. 5 or IA5) Information technology – 7-bit coded character set for information interchange.*
- ITU-T Recommendation T.52 (1993), *Non-Latin coded character sets for telematic services.*
- ITU-T Recommendation T.53 (1994), *Character coded control functions for telematic services.*
- ITU-T Recommendation T.60 (1993), *Terminal equipment for use in the teletex service.*
- CCITT Recommendation T.61 (1988), *Character repertoire and code character sets for the international teletex service. (To be deleted.)*
- ITU-T Recommendation T.101 (1994), *International interworking for videotex services.*
- CCITT Recommendation X.208 (1988), *Specification of Abstract Syntax Notation One (ASN.1).*
- ISO/IEC 2022:1994, *Character code structure and extension techniques.*
- ISO/IEC 6937:1994, *Information technology – Coded graphic character set for text communication – Latin alphabet.*
- ISO, *International register of coded character sets to be used with escape sequences.*

### Editorial changes to CCITT Recommendation T.51 (09/92)

**In 1.1 (d) of T.51 (09/92) instead of:** “T.61” put “T.60/T.61”.

**In 1.2 of T.51 (09/92) delete the text after the last comma:** “, i.e. in Recommendations T.61 and T.101”.

**In 2.2.4, Note 3 and Note 4 of T.51 (09/92) replace:** “CCITT” by “ITU-T”.

**Add a new 3.2.18:**

#### **“3.2.18 Repertoire**

A specified set of characters that are represented by the combination of a coded character set.”

**Add new paragraph 1.10 with the following text:** The T51String is defined in Annex D.

**In Figure 1/T.51 in position 2/0 should appear:** SP.

**In Figure 2/T.51 in position 6/14 the character representation should be corrected to:** N.

**In Annex A, paragraph A.1 the second sentence should read as follows:** Each graphic character is identified by the identification system (see A.2).

**In Table A.1/T.51 first column third row should read:** Acute accent.

**In Figure A.1/T.51 the last row should be removed:** G = Greek alphabetic character.

**In A.4.2.3 second column second row should be:** Space.

NOTE – Some of the identifiers need to be revised (in collaboration with ISO/IEC JTC 1/SC2/WG3).