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TITLE: IMPLEMENTOR'S GUIDES OF RECOMMENDATIONS OF WP 1/16 (LOW RATE SYSTEMS)

CONTENTS

	Page
1) Implementor's Guide of ITU-T Recommendation V.8bis	2
2) Implementor's Guide of ITU-T Recommendation V.18	4

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1) Implementor's Guide for ITU-T Recommendation V.8bis

1 Introduction

The amendments described in this document are essential for implementations of V.8bis. The modifications correct add important information and update references.

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3 Document History

Version	Date	Description
1	25 May 1999	Initial version - completed at the ITU-T Study Group meeting, Santiago, Chile, May 1999

4 References

- ITU-T Recommendation V.8bis (1998) - *Procedure for the identification and selection of common modes of operation between data circuit-terminating equipments (DCES) and between data terminal equipments (DTSs) over the public switched telephone network and on leased point to point telephone-type circuits.*

5 Additions to V.8bis

The following changes and additions are made to Recommendation V.8bis:

In section 2: References

Add:

- ITU-T Recommendation V.91 (1999) - *A digital modem operating at data signalling rates of up to 64 000 bit/s for use in a 4-wire circuit switched connection and on leased point-to-point 4-wire digital circuits.*

The reference to ITU-T Recommendation T.35 is changed to:

- ITU-T Recommendation T.35 (1999) - *Procedure for the allocation of ITU-T defined codes for non-standard facilities.*

In section 8.2: Information field length

The note at the bottom of Figure 10/V.8bis is changed to read:

NOTE - The T.35 country code is no longer limited to one octet in length. See Recommendation T.35 (1999).

In section 8.4.2: MS, CL, and CLR messages

The following sub-table is to be added to Table 6-3/V.8bis:

Standard information field – Data {NPar(2)} coding – Octet 4

Data NPar(2)s	8	7	6	5	4	3	2	1
Rec. V.91	x	x	x	x	x	x	x	1
Reserved for allocation by the ITU-T	x	x	x	x	x	x	1	x
Reserved for allocation by the ITU-T	x	x	x	x	x	1	x	x
Reserved for allocation by the ITU-T	x	x	x	x	1	x	x	x
Reserved for allocation by the ITU-T	x	x	x	1	x	x	x	x
Reserved for allocation by the ITU-T	x	x	1	x	x	x	x	x
No parameters in this octet	x	x	0	0	0	0	0	0

2) Implementor's Guide for ITU-T Recommendation V.18

1 Introduction

The amendments described in this document are essential for implementations of V.18.

The modifications correct minor errors and add important information.

Revised Appendix 3/V.18 contains informative material on how to apply V.18, V.8 and V.8bis procedures successfully in different situations and environments. Since these procedures are regarded as important for successful operation, they are planned to be made normative. The V.8bis procedures are planned to be strongly recommended but still optional. The way to perform them, when used, is to be described in a normative way.

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3 Document History

Version	Date	Description
1	25 September 1998	Initial version - completed at the ITU-T Study Group meeting, Geneva, September 1998
2	24 May 1999	Corrections to Annexes A and E. Declaration of known problem. SG 16, Santiago, May 1999

4 References

- ITU-T Recommendation V.18 (1998) - *Operational and Interworking requirements for DCEs operating in the text telephone mode.*

5 Modifications to the main body including the annexes of V.18 Operational and Interworking requirements for DCEs operating in the text telephone mode

5.1 Modification to section 5 of Recommendation V.18

Description

Since V.8 procedures are added in Appendix 3, this addition should be mentioned in the main body of the Recommendation.

[Begin Correction V.18]

The next to last paragraph in section 5 is changed from "This section specifies ... and Appendix 3." to read:

"This section specifies the automoding procedures for the cases when all the following statements are true:

- V.8 procedures are not supported.
- V.8bis procedures are not supported.
- It is evident that the DCE is either the calling or the answering party (i.e. it is activated from the beginning of a call).

Appendix 3 gives guidance on the procedures, specifically for cases when at least one of the following statements is true.

- V.8 procedures are supported.
- V.8bis procedures are supported.
- It is not evident if the DCE shall use procedures for originating or answering mode (e.g. activated from voice mode).

The possibility to use of V.8bis procedures is also described in section 6.

[End Correction V.18]

5.2 Minor corrections to the annexes

[Begin Correction V.18 annexes]

In Table A.1/V.18 modify:

For 5-bit 01110 in FIGS mode, change the T.50 code to 011 1010.

In Table A.2/V.18 modify:

For 7-bit 010 0111 change the 5-bit code to 01011 single quote.

For 7-bit 110 0000 change the 5-bit code to 01011 single quote.

For 7-bit 010 1010 change the graphical representation to an asterisk *.

5.3 Modification to Annex E; Minitel

Modify the init string response from a call mode terminal for scroll mode to be Acknowledge scroll and lowercase mode.

i.e.

Acknowledge scroll and lowercase mode (1B, 3A, 73, 4A)

In V.18 Annex E, section E.2. In last sentence, change "Prestel" to "Minitel". It should read: "... it should be assumed that the answering terminal is a Minitel terminal."

5.4 Modification to V.18 Annex F

In V.18 Annex F, section F.5. In second sentence, change "BS(0/7)" to "BS(0/8)".

5.5 Modification to V.18 Annex F

In V.18 Annex F, section F.4. Add new sentence at end of section F.4: "Received parity should be ignored."

5.6 Modification to V.18 Annex B

Add new section B.3.

B.3 Timing

The DCE shall detect DTMF characters at least 40 ms in length with silent intervals of at least 40 ms.

The DCE shall transmit DTMF characters at least 70 ms in length with silent intervals of at least 50 ms.

[End Correction V.18 annexes]

6 Problem report

One unsolved problem is reported.

[Begin problem report]

The signal XCI, defined in V.18 section 3.11, intended for stimulating called plain Minitel terminals, does not cause all types of plain Minitel terminals to respond.

An alternative definition of XCI is needed. One alternative is briefly tested with better result. It needs verification against a set of Minitel terminal types before it can be introduced as a correction to Recommendation V.18.

The problem does not concern communication with Minitel terminals specifically designed for text telephony.

[End V.18 problem report]
