INTERNATIONAL TELECOMMUNICATION UNION

ITU-T

TELECOMMUNICATION
STANDARDIZATION SECTOR
OF ITU

V.44
Corrigendum 1
(03/2002)

SERIES V: DATA COMMUNICATION OVER THE TELEPHONE NETWORK

Error control

Data compression procedures

Corrigendum 1

ITU-T Recommendation V.44 (2000) – Corrigendum 1

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ITU-T Recommendation V.44

Data compression procedures

Corrigendum 1

Source

Corrigendum 1 to ITU-T Recommendation V.44 was prepared by ITU-T Study Group 16 (2001-2004) and approved under the WTSA Resolution 1 procedure on 29 March 2002.

FOREWORD

The International Telecommunication Union (ITU) is the United Nations specialized agency in the field of telecommunications. The ITU Telecommunication Standardization Sector (ITU-T) is a permanent organ of ITU. 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 Assembly (WTSA), which meets every four years, establishes the topics for study by the ITU-T study groups which, in turn, produce Recommendations on these topics.

The approval of ITU-T Recommendations is covered by the procedure laid down in WTSA Resolution 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.

INTELLECTUAL PROPERTY RIGHTS

ITU draws attention to the possibility that the practice or implementation of this Recommendation may involve the use of a claimed Intellectual Property Right. ITU takes no position concerning the evidence, validity or applicability of claimed Intellectual Property Rights, whether asserted by ITU members or others outside of the Recommendation development process.

As of the date of approval of this Recommendation, ITU had 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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Data Compression Procedures

Corrigendum 1

1)   Clauses 7.4, 7.4.1, and 7.4.2: Revision

Replace the following text:

The negotiation of these values may proceed in one of two ways, as indicated in the V.44 capability parameter value: either through the XID capability determination itself, or through negotiation after link establishment. XID negotiation is the default. A modem receiving an XID requesting XID parameter negotiation must respond with an XID with V.44 parameters; therefore a modem which has requested Parameter Mode negotiation in the XID sequence, but which has received an XID negotiation request, must further respond with an XID with V.44 parameters.

7.4.1   Negotiation through XID

In the User Data Subfield of the XID, the V.44 capability parameter indicates how the data compression parameters are to be negotiated; if it indicates that XID procedures are to be used, the values proposed by the sending entity are included later in the same subfield.

7.4.2   Negotiation after link establishment

If the V.44 capability parameter indicates that parameter negotiation is to take place after the error-corrected link is established, the control function performs this after link establishment and anytime thereafter, as it deems necessary. The control function shall insure that data transfer between the data compression peers is not in-progress, and that flow control is in-effect, prior to initiating parameter negotiation.

with the following:

The negotiation of these parameter values may be done either through XID negotiation, or through Parameter Mode negotiation after link establishment. XID negotiation is the default. Support of Parameter Mode negotiation is indicated in the V.44 capability parameter as shown in Table A.1.

A modem supporting Parameter Mode negotiation after link establishment shall also include V.44 compression parameters in its XID command frame (unless it intends to use default parameter values), since the responding modem may not support Parameter Mode negotiation.

7.4.1   Negotiation through XID

V.44 compression parameters are included in the User Data Subfield of the XID along with the V.44 capability parameter as shown in Table A.1.

If the responding modem does not support Parameter Mode negotiation, it shall indicate this in the XID frame and shall also include V.44 compression parameters, unless it intends to use default parameter values. The initiating modem shall then either use these parameter values and proceed with SABME, or disconnect. If V.44 compression parameters are not included in an XID command or response frame, V.44 default parameter values shall be assumed.

7.4.2   Negotiation after link establishment

If both modems indicate in their XIDs that Parameter Mode negotiation after link establishment is supported, the control function may perform Parameter Mode negotiation at any time after link establishment, as it deems necessary. The parameter values from the XID negotiation, or default values (if compression parameters were not included in the XID), shall be used until the first Parameter Mode negotiation. The control function shall ensure that data transfer between the data compression peers is not in-progress, and that flow control is in-effect, prior to initiating parameter negotiation.

END REPLACEMENT

2)   Clause 8

a)   Table 10/V.44, row 3, column 5: Revision

Replace:

"0   parameter negotiation via protocol (i.e. XID)

 1   parameter negotiation after link establishment"

with:

"0   Parameter Mode negotiation after link establishment not supported

 1   Parameter Mode negotiation after link establishment supported"

b)   Table 10/V.44 (concluded), column 6, in rows 2 and 3: Editorial correction

Replace:

"$\geq$512"

with:

"$\geq$ 512"

3)   Annex A

Table A.1/V.44, row 8, column 3: Revision

Replace:

"0   Parameter negotiation using XID exchange and parameters below.

 1   Parameter negotiation after link establishment."

with:

"0   Parameter Mode negotiation after link establishment not supported.

 1   Parameter Mode negotiation after link establishment supported."

4)   Appendix II

a)   Clause II.1, Stage 10, Encoder History, entry under 17

Replace:

"FF$_H$"

with:

"$\underline{FF}_{\underline{H}}$"

b)   Clause II.1, Stage 10, Decoder History, entry under 17

Replace:

"FF$_H$"

with:

"$\underline{FF}_{\underline{H}}$"

c)   Clauses II.1 and II.2

For improved readability, the different "Stages" (0 through 11 in II.1 and 0 through 5 in II.2) should be aligned to the top of a page. This layout arrangement will make it easier to see how the different parameters change as the stages progress.

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