ITU-T

TELECOMMUNICATION STANDARDIZATION SECTOR OF ITU **G.992.5**Amendment 5 (06/2008)

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Digital sections and digital line system – Access networks

Asymmetric Digital Subscriber Line (ADSL) transceivers – Extended bandwidth ADSL2 (ADSL2plus)

Amendment 5

Recommendation ITU-T G.992.5 (2005) – Amendment 5



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For further details, please refer to the list of ITU-T Recommendations.

Recommendation ITU-T G.992.5

Asymmetric Digital Subscriber Line (ADSL) transceivers – Extended bandwidth ADSL2 (ADSL2plus)

Amendment 5

Summary

Amendment 5 to Recommendation ITU-T G.992.5 contains the following items:

- Erasure decoding (new functionality)
- Impulse noise monitor (new functionality)
- C-REVERB PRBS (correction)
- Transmitter referred virtual noise (new functionality).
- Annex P on reduced transmit power requirements (new functionality).

The functionality added in Amendment 5 to Recommendation ITU-T G.992.3 also applies to Recommendation ITU-T G.992.5. Because Recommendation ITU-T G.992.5 is a delta to Recommendation ITU-T G.992.3, this amendment lists only the changes which are not implied by reference to Recommendation ITU-T G.992.3.

Source

Amendment 5 to Recommendation ITU-T G.992.5 (2005) was approved on 22 June 2008 by ITU-T Study Group 15 (2005-2008) under Recommendation ITU-T A.8 procedure.

FOREWORD

The International Telecommunication Union (ITU) is the United Nations specialized agency in the field of telecommunications, information and communication technologies (ICTs). 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.

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Recommendation ITU-T G.992.5

Asymmetric Digital Subscriber Line (ADSL) transceivers – Extended bandwidth ADSL2 (ADSL2plus)

Amendment 5

1 Erasure decoding

Add row at end of Table 9-30:

Table 9-30/G.992.5 – PMD test parameter ID values

Test parameter ID	Test parameter name	Length for single read	Length for multiple read	Length for block read
27 ₁₆	Far-end Actual Impulse Noise protection (INP_act)	4 octets	N/A	N/A

Add paragraph at end of clause 9.4.1.10:

In transferring the value of INP_act_n for each of the bearer channels, the INP_act₀ for bearer channel #0 shall be inserted into the message first, followed by INP_act₁, INP_act₂ and INP_act₃. The INP_act_n shall be coded as FF₁₆ to indicate bearer #n is disabled. Support of the INP_act test parameter reporting is optional. However, if in the last previous CLR message, the ATU-R set the 'erasure decoding reporting' bit (see Table 7-19 of ITU-T Rec. G.992.3 [5]) to ONE for the selected operating mode, then the ATU-R shall support INP_act test parameter reporting.

2 Impulse noise monitor

Add new § 9.4.1.11:

9.4.1.11 INM facility commands and responses

See clause 9.4.1.11 of ITU-T Rec. G.992.3 [5].

Add new Annex P. Annex O is intentionally left blank so Annex P stands for power.

Annex O

This annex is intentionally left blank.

Annex P

Reduced downstream aggregate transmit power requirements

See Annex P of ITU-T Rec. G.992.3 [5].

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