

I n t e r n a t i o n a l T e l e c o m m u n i c a t i o n U n i o n

ITU-T

TELECOMMUNICATION
STANDARDIZATION SECTOR
OF ITU

G.997.1

Corrigendum 2
(10/2011)

SERIES G: TRANSMISSION SYSTEMS AND MEDIA,
DIGITAL SYSTEMS AND NETWORKS

Digital sections and digital line system – Access networks

Physical layer management for digital subscriber
line (DSL) transceivers

Corrigendum 2

Recommendation ITU-T G.997.1 (2009) –
Corrigendum 2



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

Recommendation ITU-T G.997.1

Physical layer management for digital subscriber line (DSL) transceivers

Corrigendum 2

Summary

Corrigendum 2 to Recommendation ITU-T G.997.1 (2009) contains the following corrections:

- Delete the redundant control of Minimum SOS bit rate by direction for each channel.
- Correct the inhibition rules of performance monitoring parameters.

History

Edition	Recommendation	Approval	Study Group
1.0	ITU-T G.997.1	1999-07-02	15
2.0	ITU-T G.997.1	2003-05-22	15
2.1	ITU-T G.997.1 (2003) Amd. 1	2003-12-14	15
2.2	ITU-T G.997.1 (2003) Amd. 2	2005-01-13	15
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4.1	ITU-T G.997.1 (2006) Cor. 1	2006-12-14	15
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5.2	ITU-T G.997.1 (2009) Amd. 1	2010-06-11	15
5.3	ITU-T G.997.1 (2009) Amd. 2	2010-11-29	15
5.4	ITU-T G.997.1 (2009) Amd. 3	2011-06-22	15
5.5	ITU-T G.997.1 (2009) Cor. 2	2011-10-29	15

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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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, implementers are cautioned that this may not represent the latest information and are therefore strongly urged to consult the TSB patent database at <http://www.itu.int/ITU-T/ipr/>.

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Recommendation ITU-T G.997.1

Physical layer management for digital subscriber line (DSL) transceivers

Corrigendum 2

1) Control per channel of Minimum SOS bit rate instead of by direction

Modify clause 7.3.2.1.6 and delete clause 7.3.2.1.7 as follows:

7.3.2.1.6 ~~Downstream~~ Minimum SOS Bit data rate (MIN-SOS-BRDR-ds)

This parameter specifies the minimum net data rate for the bearer channel required for a valid SOS request in the ~~downstream~~ direction of the bearer channel. The value shall be coded as an unsigned integer representing the data rate as a multiple of 8 kbit/s.

~~7.3.2.1.7 Upstream Minimum SOS Bit Rate (MIN-SOS-BR-us)~~

~~This parameter specifies the minimum net data rate required for a valid SOS request in the upstream direction. The value shall be coded as an unsigned integer representing the data rate as a multiple of 8 kbit/s.~~

Modify Tables 7-16 and 7-17 as follows:

Table 7-16 – Channel configuration profile

Category/Element	Defined in:	Q-Interface	U-C Interface	U-R Interface	T-/S-Interface
...					
MIN-SOS-BR <u>DR-ds</u>	7.3.2.1.6	R/W (O)	R (O)		
MIN-SOS-BR-us	7.3.2.1.7	R/W (O)			
...					

Table 7-17 – Support of channel configuration parameters per Recommendation

Category/Element	G.992.1	G.992.2	G.992.3	G.992.4	G.992.5	G.993.2
...						
MIN-SOS-BR <u>DR-ds</u>						Y
MIN-SOS-BR-us						Y
...						

2) Correction to inhibition rule of performance monitoring parameters

Modify clause 7.2.7.13 as follows:

7.2.7.13 Inhibiting performance monitoring parameters

For a given monitored entity, the accumulation of certain performance parameters is inhibited during periods of unavailability, during SESs or during seconds containing defects on that monitored entity. Inhibiting on a given monitored entity (e.g., ADSL ATM Data Path) is not

explicitly affected by conditions on any other monitored entity (xDSL line). The inhibiting rules are as follows:

- UAS and Failure Count parameters shall not be inhibited.
- INM parameters shall be inhibited during a 1-second interval, if it contains one or more LOS defects, or one or more SEF defects, or one or more LPR defects.
- SES-L, SES-LFE, ES-L, ES-LFE, LOSS-L and LOSS-LFE counters shall be inhibited only during unavailable time even if the unavailable time is declared retroactively.

NOTE – An implementation may count the SES-L, ES-L and LOSS-L during the contiguous SES-L leading to the declaration of UAS-L and subtract them at the onset of the declaration of UAS-L. The same may apply for the LOSS-LFE. See illustration in Figure 4 of [b-ITU-T M.2100].

- All other performance parameter counts shall be inhibited during UAS and SES. Inhibiting shall be retroactive to the onset of unavailable time and shall end retroactively to the end of unavailable time.
- ~~SES shall be inhibited during unavailable time even if the unavailable time is declared retroactively.~~

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