

# **TR-100**

## **ADSL2/ADSL2plus Performance Test Plan**

**Issue: 3 Amendment 1**  
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**Issue History**

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## **Executive Summary**

See *Executive Summary/TR-100 Issue 3*.

TR-100 introduces an additional parameter FORCEINP that needs to be configured as common line setting. This parameter is set to the value TRUE.

The following is modified:

- Section 2.5 G.997.1 Parameters
- Table 8-1 Common line settings

## **1 Purpose and Scope**

### **1.1 Purpose**

*See Section 1.1/TR-100 Issue3.*

### **1.2 Scope**

*See Section 1.2/TR-100 Issue 3.*

## 2 References and Terminology

### 2.1 Conventions

In this Technical Report, several words are used to signify the requirements of the specification. These words are always capitalized. More information can be found in RFC 2119 [2].

<b>SHALL</b>	This word, or the term “REQUIRED”, means that the definition is an absolute requirement of the specification.
<b>SHALL NOT</b>	This phrase means that the definition is an absolute prohibition of the specification.
<b>SHOULD</b>	This word, or the term “RECOMMENDED”, means that there could exist valid reasons in particular circumstances to ignore this item, but the full implications need to be understood and carefully weighed before choosing a different course.
<b>SHOULD NOT</b>	This phrase, or the phrase "NOT RECOMMENDED" means that there could exist valid reasons in particular circumstances when the particular behavior is acceptable or even useful, but the full implications need to be understood and the case carefully weighed before implementing any behavior described with this label.
<b>MAY</b>	This word, or the term “OPTIONAL”, means that this item is one of an allowed set of alternatives. An implementation that does not include this option SHALL be prepared to inter-operate with another implementation that does include the option.

### 2.2 References

The following references are of relevance to this Technical Report. At the time of publication, the editions indicated were valid. All references are subject to revision; users of this Technical Report are therefore encouraged to investigate the possibility of applying the most recent edition of the references listed below.

A list of currently valid Broadband Forum Technical Reports is published at [www.broadband-forum.org](http://www.broadband-forum.org).

See *Section 2.2/TR-100 Issue 3*.

Document	Title	Source	Year
[1] TR-100 Issue 3	<i>ADSL2/ADSL2plus Performance Test Plan Issue 3</i>	BBF	2014
[2] RFC 2119	<i>Key words for use in RFCs to Indicate Requirement Levels</i>	IETF	1997

- |     |         |  |     |      |
|-----|---------|--|-----|------|
| [3] | G.992.3 | <i>Recommendation ITU-T G.992.3 (04/2009), Asymmetric digital subscriber line transceivers 2 (ADSL2), including all in force amendments and corrigenda.</i>                | ITU | 2009 |
| [4] | G.997.1 | <i>Recommendation ITU-T G.997.1 (04/2009), Physical Layer Management for Digital Subscriber Line (DSL) Transceivers, including all in force amendments and corrigenda.</i> | ITU | 2009 |

### 2.3 Definitions

The following terminology is used throughout this Technical Report.

See *Section 2.3/TR-100 Issue 3*.

### 2.4 Abbreviations

This Technical Report uses the following abbreviations:

See *Section 2.4/TR-100 Issue 3*.

### 2.5 G.997.1 Parameters

This Technical Report uses the following G.997.1 Parameters:

See *Section 2.5/TR-100 Issue 3*.

<i>Parameter</i>	<i>Section in G.997.1[4]</i>
<i>FORCEINP</i>	<i>7.3.2.5</i>



### **3 Technical Report Impact**

#### **3.1 Energy Efficiency**

TR-100 has no impact on energy efficiency.

#### **3.2 IPv6**

TR-100 has no impact on IPv6.

#### **3.3 Security**

TR-100 has no impact on security.

#### **3.4 Privacy**

Any issues regarding privacy are not affected by TR-100.

## 4 Changes relative to TR-100 Issue 3

Add parameter to section 2.5 G.997.1 Parameters:

<i>Parameter</i>	<i>Section in G.997.1[4]</i>
<a href="#">FORCEINP</a>	<a href="#">7.3.2.5</a>

Update Table 8-1 Common line settings as follows:

**Table 8-1: Common Line Settings**

<b>Parameter</b>	<b>Setting</b>	<b>Description</b>
PMode	all off	no automatic transition to low power states
Latency/Bearer	Single latency/one Bearer	Single latency path and Single Frame Bearer operation
MSGMINds/us	6 kbps	
TARSNRMds/us	6 dB	standard value
MAXSNRMds/us	no limitation or at least 31dB	no additional power reduction in these tests
MINSNRMds/us	0 dB	no influence on pass/fail criteria
MAXNOMPSDds	-40 dBm/Hz	G.992.3 default value
MAXNOMPSDus	-38 dBm/Hz	G.992.3 default value
NOMPSDds	-40 dBm/Hz	G.992.3 default value
NOMPSDus	-38 dBm/Hz	G.992.3 default value
MAXNOMATPds	19.9 dBm 19.3 dBm	Annex-A G.992.3/5 default value (A.1.3.2) Annex-B/J G.992.3/5 default value (B.1.3.2/J.1.3.2)
MAXNOMATPus	12.5 dBm 13.3 dBm 13.4 dBm	Annex-A G.992.3/5 default value (A.2.2.2) Annex-B G.992.3/5 default value (B.2.2.2) Annex-J G.992.3/5 default value (J.2.2.2)
CARMASKds	default	Test case dependant
CARMASKus	default	Test case dependant
PSDMASKds	default	only applicable for G.992.5
RFIBANDSds	none	only applicable for G.992.5
MAXBER	1e-7	

<b>Parameter</b>	<b>Setting</b>	<b>Description</b>
<a href="#">FORCEINP</a>	<a href="#">TRUE</a>	<a href="#">Framer settings SHALL be selected such that the INP computed according to the INP no erasure formula specified in Table 7-7/G.992.3[3] <math>\geq</math> minimal INP requirement</a>

End of Broadband Forum Technical Report TR-100