

TR-114 VDSL2 Performance Test Plan

Issue: 3 Amendment 4 Issue Date: June 2018

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Issue History

Issue Number	Approval Date	Publication Date	Issue Editor	Changes	
1	November 2009	November 2009	Arlynn Wilson,	Original	
			ADTRAN		
2	26 November	17 December	Aleksandra	See Executive	
	2012	2012	Kozarev, Lantiq	Summary	
3	13 March 2017	13 March 2017	Aleksandra	See Executive	
			Kozarev, Intel	Summary	
3 Amendment 1	8 May 2017	9 June 2017	Aleksandra	See Executive	
			Kozarev, Intel	Summary	
3 Amendment 2	16 March 2018	10 May 2018	Aleksandra	See Executive	
			Kozarev, Intel	Summary	
3 Amendment 3	TBD	TBD	Aleksandra	See Executive	
			Kozarev, Intel	Summary	
3 Amendment 4	13 June 2018	8 August 2018	Aleksandra	See Executive	
			Kozarev, Intel	Summary	

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	PDATE TO SECTION B.15.2 Rate adaptive performance tests for BA17ade vertransmission enabled	

Executive Summary

See Executive Summary/TR-114 Issue 3.

Content of TR-114 Issue 3 Amendment 4 is as follows:

- 1. Update to SECTION B.1.1
- 2. Update to SECTION B.15.2

1 Purpose and Scope

1.1 Purpose

See Purpose/TR-114 Issue 3.

1.2 Scope

See Scope/TR-114 Issue 3.

Performance tests applicable to BA17ade_D&UPBO band profile, retransmission enabled Class 1 implementations.

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 be in RFC 2119 [2].

SHALL This word, or the term "REQUIRED", means that the definition is an

absolute requirement of the specification.

SHALL NOT This phrase means that the definition is an absolute prohibition of the

specification.

SHOULD This word, or the adjective "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.

SHOULD NOT 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.

MAY This word, or the adjective "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.

See References/TR-114 Issue 3.

Doc	ument	Title	Source	Year
[1]	<u>TR-114</u> <u>Issue 3</u>	VDSL2 Performance Test Plan	BBF	2017
[2]	RFC 2119	Key words for use in RFCs to Indicate Requirement Levels	IETF	1997

2.3 Definitions

See *Definitions/TR-114 Issue* 3.

2.4 Abbreviations

See Abbreviations/TR-114 Issue 3.

3 Technical Report Impact

3.1 Energy Efficiency

TR-114 Issue 3 Amendment 4 has no impact on Energy Efficiency.

3.2 Security

TR-114 Issue 3 Amendment 4 has no impact on Security.

3.3 Privacy

Any issues regarding privacy are not affected by TR-114 Issue 3 Amendment 4.

4 UPDATE TO SECTION B.1.1 Pass/fail criteria for Annex B testing

In section B.1.1 in TR-114 Issue 3 modify Table 70 (Data rate pass/fail requirements for rate adaptive testing) as follows:

Table 70: Data rate pass/fail requirements for rate adaptive testing

Section number	Number of test cases	10% limit		
B.3	20	2		
B.5	20	2		
B.6	16	2		
B.7	16	2		
B.9	16	2		
B.13	16	2		
B.14	16	2		
B.15	16	2		
B.16	16	2		
B.15.1	10	1		
B.15.2 (Class 1)	<u>10</u>	1		
Section number	Number of test cases (per table)	10% limit (per table)		
B.4	6	1		
B.8	6	1		

5 UPDATE TO SECTION B.15.2 Rate adaptive performance tests for BA17ade with DPBO and UPBO, retransmission enabled

Modify section B.15.2 in TR-114 Issue 3 as follows:

B.15.2 Rate adaptive performance tests for BA17ade with DPBO and UPBO, retransmission enabled

The tests with retransmission-enabled profiles are designed to be passed by implementations with a MAXDELAYOCTET-split parameter (MDOSPLIT) set to 80%.

Table 120: Class 1 Performance tests with BA17ade_D&UPBO_RA_R-17/2/41_150_150 is for further study.

<u>10 individual tests – 9 SHALL be passed</u>

<u>Table 120: Class 1 Performance tests with BA17ade_D&UPBO_RA_R-17/2/41_150_150</u>

	BA17ade_D&UPBO_RA_R-17/2/41_150_150									
~	<u>Downstream</u>				<u>Upstream</u>					
th	Actual net data rate			انه	Actual net data rate		rate os)	iin, IB)		
o lo	<u>(kbps)</u>			a rat bps) rgin,		<u>(kbps)</u>				
Loop Length (m, TP100 loop)	Expected	Measured	Pass/Fail	Actual data rate (ETR) (kbps)	Noise Margin Reported (dB	Expected	Measured	Pass/Fail	Actual data rate (ETR) (kbps)	Noise Margin, Reported (dB)
<u>150</u>	56403					20080				
<u>450</u>	41437					14726				
<u>1050</u>	24178					<u>4992</u>				
<u>1200</u>	21004					4271				
<u>1500</u>	<u>14167</u>					<u>1845</u>				

Table 121: Class 2 Performance tests with BA17ade_D&UPBO_RA_R-17/2/41_150_150 is for further study.

End of Broadband Forum Technical Report TR-114 Issue 3 Amendment 4