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### Issue History

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# Testing of G.993.2 Self-FEXT Cancellation (vectoring) TR-249 Issue 1 Amendment 1

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Executive Summary

TR-249 Issue 1 [1] provides a set of performance and functional requirements for vectoring capable VDSL2 implementations according to ITU-T Recommendation G.993.5. This Amendment to TR-249 Issue 1 enhances the performance targets defined in TR-249 Issue 1 (expressed as “SHOULD”) into requirements (expressed as “SHALL”).
1 Purpose and Scope

1.1 Purpose

See Section 1.1/TR-249 Issue 1.

1.2 Scope

See Section 1.2/TR-249 Issue 1.
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 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.

**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 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-249 Issue 1.

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<td>[2] RFC 2119</td>
<td>Key words for use in RFCs to Indicate Requirement Levels</td>
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2.3 Definitions

The following terminology is used throughout this Technical Report.

See Section 2.3/TR-249 Issue 1.

2.4 Abbreviations

This Technical Report uses the following abbreviations:

See Section 2.4/TR-249 Issue 1.

2.5 G.997.1 Parameters

This Technical Report uses the following G.997.1 Parameters:

See Section 2.5/TR-249 Issue 1.
3 Technical Report Impact

3.1 Energy Efficiency

TR-249 has no impact on energy efficiency.

3.2 IPv6

TR-249 has no impact on IPv6.

3.3 Security

TR-249 has no impact on security.

3.4 Privacy

Any issues regarding privacy are not affected by TR-249.
4 Changes relative to TR-249 Issue 1

NOTE – Section numbering below refers to sections as numbered in TR-249 Issue 1.

8.1.4 Pass/Fail criteria
For the test to pass, all of the following 6 performance criteria SHOULD SHALL be met: ...

8.2.4 Pass/Fail criteria
For the test to pass, the 6 performance criteria defined in section 8.1.4 SHOULD SHALL be met, with replacing “N” with “N-Nlegacy”.

8.3.4 Pass/Fail criteria
For the test to pass, the 3 downstream performance criteria defined in section 8.1.4 SHOULD SHALL be met over the set of N-Nfriendly vectored lines.

8.4.4 Pass/Fail criteria
For the test to pass, the 6 performance criteria defined in section 8.1.4 SHOULD SHALL be met.

8.5.4 Pass/Fail criteria
For the test to pass, the 6 performance criteria defined in section 8.1.4 SHOULD SHALL be met.

End of Broadband Forum Technical Report TR-249