

# **TR-115**

## **VDSL2 Functionality Test Plan**

**Issue: 2 Corrigendum 1**  
**Issue Date: March 2014**

**Notice**

The Broadband Forum is a non-profit corporation organized to create guidelines for broadband network system development and deployment. This Broadband Forum Technical Report has been approved by members of the Forum. This Broadband Forum Technical Report is not binding on the Broadband Forum, any of its members, or any developer or service provider. This Broadband Forum Technical Report is subject to change, but only with approval of members of the Forum. This Technical Report is copyrighted by the Broadband Forum, and all rights are reserved. Portions of this Technical Report may be copyrighted by Broadband Forum members.

**THIS SPECIFICATION IS BEING OFFERED WITHOUT ANY WARRANTY WHATSOEVER, AND IN PARTICULAR, ANY WARRANTY OF NONINFRINGEMENT IS EXPRESSLY DISCLAIMED. ANY USE OF THIS SPECIFICATION SHALL BE MADE ENTIRELY AT THE IMPLEMENTER'S OWN RISK, AND NEITHER the Forum, NOR ANY OF ITS MEMBERS OR SUBMITTERS, SHALL HAVE ANY LIABILITY WHATSOEVER TO ANY IMPLEMENTER OR THIRD PARTY FOR ANY DAMAGES OF ANY NATURE WHATSOEVER, DIRECTLY OR INDIRECTLY, ARISING FROM THE USE OF THIS SPECIFICATION.**

Broadband Forum Technical Reports may be copied, downloaded, stored on a server or otherwise re-distributed in their entirety only, and may not be modified without the advance written permission of the Broadband Forum.

The text of this notice must be included in all copies of this Broadband Forum Technical Report.

**Issue History**

<b>Issue Number</b>	<b>Approval Date</b>	<b>Publication Date</b>	<b>Issue Editor</b>	<b>Changes</b>
1	November 2009	November 2009	Michael Hanrahan, Huawei	Original
2	July 2012	July 2012	Michael Hanrahan, Huawei	Next revision
2 Amendment 1	28 May 2013	1 June 2013	Aleksandra Kozarev, Lantiq	Next revision
2 Corrigendum 1	3 March 2014	3 April 2014	Aleksandra Kozarev, Lantiq	Next revision

Comments or questions about this Broadband Forum Technical Report should be directed to [help@broadband-forum.org](mailto:help@broadband-forum.org)

**Editor:** Aleksandra Kozarev Lantiq

**MT WG Chair** Les Brown Huawei Technologies  
**Vice Chairs** Lincoln Lavoie UNH InterOperability Lab  
 Massimo Sorbara Ikanos Communications

**TABLE OF CONTENTS**

**EXECUTIVE SUMMARY .....5**

**1 PURPOSE AND SCOPE.....6**

**2 CORRECTION TO TABLE 53/TR-115 ISSUE 2 .....7**

## **Executive Summary**

This document contains corrections to *TR-115 Issue 2*.

The following table is modified:

- *Table 53 (Full Initialization Count and Failed Full Initialization Count Test)* in Section 7.9

## **1 Purpose and Scope**

The corrections specified in the following section apply to *TR-115 Issue 2*.

## 2 Correction to Table 53/TR-115 Issue 2

Revise Table 53 in Section 7.9/TR-115 Issue 2 as follows:

**Table 53 - Full Initialization Count and Failed Full Initialization Count Test**

<b>Test Configuration</b>	<p>(1) See Section 4.1 for the test configuration.</p> <p>(2) As per VDSL2 band-profile to be tested, configure the SUT according to Section 4.2 in FX_I_040_006 specific line-setting defined in Table 13.</p> <p>(3) Additional test conditions: optional OLR (SRA, SOS) SHALL not be used.</p> <p>(4) Connect VTU-R and VTU-O with 0 length loop and no noise injected.</p>
<b>Method of Procedure</b>	<p>(1) Wait 1 minute following synchronization.</p> <p>(2) Record the initial values of the Full initialization count and the Failed full initialization count at the VTU-O.</p> <p>(3) Disconnect the line for at least 7 seconds.</p> <p>(4) Wait for the modem to retrain.</p> <p>(5) Wait for 1 minute following synchronization.</p> <p>(6) Reconnect the line but with 900m length loop.</p> <p>(7) Wait for 90s.</p> <p><del>(8)</del> <b>(8)</b> Reconnect the line with 0 length loop and <b>wait for the modem to train.</b></p> <p><del>(9)</del> <b>(9)</b> <del>R</del>Repeat MOP(1) and MOP(3) to MOP(<del>7</del><b>8</b>) four times.</p> <p><del>(9)</del><b>(10)</b> <b>Wait 60 seconds and R</b>record the value of Full initialization count and Failed full initialization count reported by VTU-O.</p> <p><del>(10)</del><b>(11)</b> Calculate the increase of these performance counters (Full initialization count and Failed full initialization count) at the VTU-O as the difference between the values from MOP(<del>9</del><b>10</b>) and MOP(2).</p>
<b>Expected Result</b>	<p>(1) The increase of the Full initialization count SHALL be <math>\geq</math> <u>15</u>.</p> <p>(2) The difference between the increase of Full initialization count and the increase of Failed full initialization count SHALL <b>be</b> <u>510</u>.</p> <p>(3) The increase of the Failed full initialization count SHALL be <math>\geq</math> 5.</p>

End of Broadband Forum Technical Report TR-115