

Addendum to WBA
Main Body, Annex 2 Technical specifications and
Annex 4 Planning and operations
Additional line profiles

1. Purpose of the addendum

The use of the 998ADE17 bandplan - hereafter called "VDSL2 17 Mhz" - in VDSL2 (cfr "Addendum to BRUO Annex C Technical Specifications regarding VDSL2, Addendum of 11 September 2009") will allow Belgacom to introduce **additional VDSL2 line profiles**.

The present addendum describes the impact of the introduction of these additional line profiles on the Wholesale Broadband Access VDSL2 offer of Belgacom.

2. Scope of this addendum

This addendum is applicable to the WBA VDSL2 services with shared and with dedicated VLAN's, as described in the WBA VDSL2 offer.

3. Planning

The present addendum has been submitted for approval to the BIPT in order to become effective as from **01/09/2010**.

As from 16/08/2010, the new line profiles will be configured on **new WBA VDSL2 lines**, in line with the deployment rules defined in the offer.

The line profile of any **existing WBA VDSL2 line** on 01/09/2010 will be upgraded in accordance with the deployment rules defined in the offer. This upgrade will be realized progressively in the period between 01/09/2010 and 15/12/2010.

4. Adaptation on WBA documents

The sections of the WBA offer documents, which are impacted by this Addendum, are indicated in the subsequent paragraphs. Those adaptations refer to the latest versions of the documents, submitted to BIPT on November 18th, 2009.

WBA Main Body

In 3.6, the last bullet of the §33 must be replaced by :

- o Configuration by Belgacom of the VDSL2 line profile, according to the rules set forth in section 3.13, VDSL2 Deployment Rules:

LP name	Max Upstream	Max Downstream	Min Upstream	Min Downstream
LP701	2.000 Kbps	20.000 Kbps	640 Kbps	14.500 Kbps
LP702	2.000 Kbps	16.500 Kbps	640 Kbps	10.000 Kbps
LP703	1.000 Kbps	14.500 Kbps	640 Kbps	10.000 Kbps
LP704	512 Kbps	9.000 Kbps	256 Kbps	4.600 Kbps
LP705	6.000 Kbps	30.000 Kbps	640 Kbps	14.500 Kbps
LP706	6.000 Kbps	25.000 Kbps	640 Kbps	14.500 Kbps
LP707	6.000 Kbps	20.000 Kbps	640 Kbps	14.500 Kbps
LP708	4.000 Kbps	14.500 Kbps	640 Kbps	10.000 Kbps

In 3.13, the §63 must be replaced by :

63. The VDSL2 Line Profiles defined in §33 will be provisioned by Belgacom on an end user line according to the following deployment rules:

Att _{Loop} [dB]	Length _{Loop} [m]	Line Profile name
<0,4	<400	LP705
<0,7	<700	LP701
<1	<1.000	LP702

Where:

- o Att_{Loop} = the loop attenuation at 800 Hz between the ROP and the user premises,
- o Length_{Loop} = the loop length between the ROP and the user premises,
- o The conditions on loop attenuation and loop length must be fulfilled simultaneously to assign a specific Line Profile on an end user line.

WBA Annex 2 technical specifications

In 5.2, the whole section must be replaced by:

5.2DSL profiles at UNI (Layer1)

The following profiles are chosen by Belgacom, based on the line quality:

LP name	Max Upstream	Max Downstream	Min Upstream	Min Downstream
LP701	2.000 Kbps	20.000 Kbps	640 Kbps	14.500 Kbps
LP702	2.000 Kbps	16.500 Kbps	640 Kbps	10.000 Kbps
LP703	1.000 Kbps	14.500 Kbps	640 Kbps	10.000 Kbps
LP704	512 Kbps	9.000 Kbps	256 Kbps	4.600 Kbps
LP705	6.000 Kbps	30.000 Kbps	640 Kbps	14.500 Kbps
LP706	6.000 Kbps	25.000 Kbps	640 Kbps	14.500 Kbps
LP707	6.000 Kbps	20.000 Kbps	640 Kbps	14.500 Kbps
LP708	4.000 Kbps	14.500 Kbps	640 Kbps	10.000 Kbps

WBA Annex 4 Planning and operations

In section 10, the §81 must be replaced by :

- 81 Belgacom developed remote testing and monitoring tools allowing him to identify the VDSL2 perturbing lines. Based on the use of those tools Belgacom is authorized to take proactive actions in order to protect the other xDSL lines. Those actions could be, in function of the increasing severity of the perturbation: a change in the line profile, the lock of the xDSL port or the physical disconnection of the perturbing line. Specifically relating to the change of line profile, Belgacom will downgrade:
- the LP701 to LP702, LP703 or LP704,
 - the LP702 to LP703 or LP704,
 - the LP705 to LP706, 707, 708 or 704.

The choice of the line profile will relate to the severity of the perturbation. The Customer will always be proactively informed by Belgacom of the monitoring of the line and of the resulting action taken by Belgacom.

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