



Addendum to WBA-VDSL2

Simplified OLO-CPE Test Plan

Submitted to BIPT on 28/10/2016
Sensitivity **Unrestricted**

Table of contents

Table of contents.....	2
1. Purpose of the addendum	3
2. Scope of this addendum	3
3. Planning	4
4. Operational impacts	4
5. Pricing	4
6. Adaptations on WBA-VDSL2 documents	5

1. Purpose of the addendum

The present addendum has been submitted to the BIPT in order to announce a simplification of the OLO CPE Test Plan and the launch by Proximus of OLO CPE certification services at published rates.

2. Scope of this addendum

The present addendum is applicable to the WBA VDSL2 services for Beneficiaries who operate or intend to operate OLO CPEs.

The simplified OLO CPE Test Plan still verifies that the OLO-CPE supports line configurations used into the Proximus VDSL2 network and still does not give guarantees about the correctness of CPE behaviour, nor CPE performances. The current certification cycle has been simplified by having reduced the number of tests and the introduction of OLO CPE certification services by Proximus.

Proximus developed different OLO CPE certification services in order to suit all most common use cases:

1. A **Full certification** with the simplified Test Plan is the mandatory approach for the introduction of a new OLO CPE.
2. An **Administrative** certification allows the whitelisting of an upgraded CPE firmware which contains only functional changes or an upgraded CPE hardware which reuses a certified data pump (hardware & firmware).
3. A **Field trial** certification is suited for the recertification of an upgraded data pump which is already largely present in the Proximus VDSL2 network. A Field trial is performed as a bilaterally agreed multi-stage approach with a gradual roll-out of the new OLO-CPE firmware while Proximus monitors the VDSL2 network on “harm to the network” .
4. A **Fast track** field trial certification is available for the quick recertification of an urgent firmware upgrade; e.g. to solve security issues.
5. A **Basic synchronisation check** towards a new major or strategic DSLAM firmware version is available to check if an upcoming DSLAM firmware upgrade requires a CPE firmware upgrade or not. The check includes the different synchronisation checks required for the upgrade (e.g. a first check against the engineering version of the new DSLAM firmware and a second check against the final version of the new DSLAM firmware.
6. Limited capacity for **ad-hoc** tests in the Proximus lab can be made available to solve issues detected during certification tests which require the Proximus vectoring testing environment.
7. A **Partial recertification** check will be included in the updated Test Plan – e.g. linked to a planned Major- or Strategic DSLAM firmware upgrade – if a partial recertification for OLO CPEs which are already certified suffices. Similarly an OLO can discuss bilaterally a partial recertification process in case the OLO-CPE firmware is upgraded with changes to the VDSL2 datapump. The redaction of an updated Test Plan – e.g. linked to a planned Major or Strategic DSLAM firmware upgrade – might

include a specific proposal for a partial recertification for OLO CPEs which are already whitelisted if it deems unnecessary to perform a full recertification.

The simplification of the current OLO CPE Test Plan was achieved as follows:

- A drastic reduction of the number of tests on the legacy NVLT-D line card as a majority of these cards is being replaced by the NDLT-G card which supports vectoring. Only a limited number of Synchronisation checks on the NVLT-D line card is maintained.
- A significant reduction of the number of Synchronisation- and Upstream Power Back Off tests on the NDLT-G-card in the three modes (legacy, Vector Friendly and Vectored).
- A reduction of testing time for the Multi-line vectoring tests by the removal of the Line Reset tests and the OFF/ON tests.

3. Planning

A dry run for the **Field trial** certification service has been organized and resulted already in the whitelisting of additional OLO CPEs.

Any of the offered certification services can be ordered as from the date of approval of this addendum.

4. Operational impacts

There are no impacts on the current ordering- and repair processes on WBA-VDSL2 lines.

Proximus authorizes OLOs to label certified OLO CPEs with the mention « Authorized on the VDSL2 network of Proximus »

5. Pricing

The pricing of the OLO-CPE certification services will be available as a separate document which is published on the Personal Page of Proximus Wholesale's website. The table below gives an overview of the tariffs which will be applicable upon launch. Any change of the tariffs will be subject to BIPT approval.

Type of certification	Tariff
1. Full certification	
2. Administrative certification	
3. Field trial certification	
4. Fast track Field trial	

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|--|--------------|
| 5. Basic synchronisation check | Confidential |
| 6. Ad-hoc tests in the Proximus VDSL2 lab (only project based) | |

6. Adaptations on WBA-VDSL2 documents

The modifications of Annex 7 of the WBA VDSL2 reference offer are highlighted in "Track Change". Those adaptations refer to the consolidated version of the WBA offer (WBA VDSL2 reference offer (version 13)), published on the Proximus website, at

http://www.proximuswholesale.be/dam/cdn/sites/wholesale/document/access/WBA_VDSL2_V13_approved-by-BIPT-on-220116_withoutTC.zip/WBA_VDSL2_V13_approved%20by%20BIPT%20on%20220116_withoutTC.zip

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