



## ETSI WG TM6

(ACCESS TRANSMISSION SYSTEMS ON METALLIC CABLES)

Permanent Document m06p09a07\_SpM-1\_LL

# Living List for Spectral Management SpM - part 1 revision of TR 101 830-1

This document is the living list of current issues connected with ETSI's spectral management report TR 101 830, part 1 (*Definitions and signal library*).

This work item is focussed on the revision of "Part 1", to add new signal descriptions suitable for VDSL2 in the subloop (with PSD shaping). The document is "working group approval" by TM6 in the meeting of January 2008, and is currently sent out for AbC until **30 april 2008**.

The draft is made available as m06p10a01\_SpM-1\_DR.pdf

**Why adding *dedicated* VDSL2 signals?** The VDSL2 signal descriptions in G993.2, combined with shaping mechanisms in G997.1, enable an infinite number of PSD masks (different bandplans, many profiles, parametric definition of PSD shaping, presence of notching, etc). This facilitates very flexible VDSL2 products, but is far too complex to be helpful for defining what signal limits are allowed in cables within various countries. It would require an advanced simulation tool to find out what the actual limits are.

The SpM-1 document can fill-in this gap by offering a library with a finite number of dedicated VDSL2 signal descriptions that are tailored to specific applications; at least those that are made available for usage within a European country. Since all of SpM-1 is *informative* in nature, ETSI does not impose anybody to make use of one of these descriptions. Using it is purely an issue of *national concern* and *national regulation*. However, many European players have an interest that such signal descriptions are technically correct and unambiguous.

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**2. STUDY POINTS PART 1(LIBRARY OF SIGNALS)**

SP	Title	Owner	Status
1-1	Descriptions for "VDSL2-NL1" signals ("over POTS")	Rob van den Brink (KPN/TNO)	Agreed
1-2	Descriptions for "VDSL2-NL2" signals ("over ISDN")	Rob van den Brink (KPN/TNO)	Agreed
1-3	Descriptions for "VDSL2-UK1" signals	John MacDonald (BT)	Agreed
1-4	Adding UBPO to the "VDSL2_NL" signal descriptions	Rob van den Brink (KPN/TNO)	Agreed
1-5			
1-6			
1-7			
1-8			

The current agreed procedure for changing the status of living list items is in Annex A of TM6 working methods.

**Part 1 study points****SP 1-1. Description for "VDSL2-NL1" signals ("over POTS")**

This study point is dedicated to a technically correct description of the VDSL2 signals being allowed in the Netherlands, which may share the line with POTS signals. (See also [www.kpn-wholesale.com](http://www.kpn-wholesale.com), at "documents|national|local loop services|reference offer SLU")

- 063t07r1, sept 2006, Description of "VDSL2-NL1" signals, for spectral management in the Netherlands – KPN/TNO

**SP 1-2. Description for "VDSL2-NL2" signals ("over ISDN")**

This study point is dedicated to a technically correct description of the VDSL2 signals being allowed in the Netherlands, which may share the line with ISDN signals. (See also [www.kpn-wholesale.com](http://www.kpn-wholesale.com), at "documents|national|local loop services|reference offer SLU")

- 064t25, nov 2006, Description of "VDSL2-NL2" signals, for spectral management in the Netherlands – KPN/TNO

**SP 1-3. Description for "VDSL2-UK1" signals**

This study point is dedicated to a technically correct description of the VDSL2 signals being allowed in the United Kingdom, compliant with the UK Access Network Frequency Plan (ANFPi3).

- 072t12, feb 2007, Description of "VDSL2-UK1" signals for spectral management in the United Kingdom – BT
- 074t17, nov 2007, Description of "VDSL2-UK" signals for spectral management in the United Kingdom (update) - BT

**SP 1-4. Adding UPBO to "VDSL2-NL" descriptions**

This study point is dedicated to add the missing paragraph on how to define upstream power backoff (UPBO) in a implementation independent way .

- 073t27r1, sep 2007, Addition of UPBO specifications to "VDSL2-NL" signal descriptions – KPN/TNO

**Text proposals, for inclusion in the revised SpM-1.**

[All agreed text has been moved to the draft](#)