
TITLE **SpM-1 & SpM-2 meeting report.**

PROJECTS SpM-1 & SpM-2

SOURCE: Rapporteur

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STATUS for inclusion in the TM6 meeting report

4.8 Spectral Management (TR 101 830)

The rapporteur of part 1 and part 2 compiled the partial report of this section in WD14

4.8.1 DTS/TM-06042 Spectral Management (TR 101 830-1 Part 1: Definitions and Signal Library)

The most recent version is V1.4.1, and was published by ETSI in march 2006. A work item to revise this document was opened during the sept 2006 meeting of TM6, mainly to add VDSL2 signal descriptions.

4.8.1.1 Work Plan

The Rapporteur, Rob van den Brink (TNO/KPN), chaired this session and presented his work plan in WD04. There were no objections raised against this work plan.

- TD25 KPN/TNO Description of "VDSL2-NL2" signals (over ISDN)

4.8.1.2 Contributions

In **TD25**, KPN/TNO propose to add a full spectral management description of "VDSL2-NL2" signals that are to share the line with ISDN. This contribution has great similarity with 063t07 of the previous meeting ("VDSL2-NL1" signals), that was tailored to share the line with POTS. Both descriptions were designed to become mandatory limits in the Netherlands. Recently they have been officially published on the website of the Dutch network owner (see TD25 for a full reference). The "VDSL2-NL2" signals were added to comply with Dutch regulations, and additional signal descriptions are currently not expected.

KPN/TNO repeated their invitation to other operators to contribute signals descriptions dedicated to their countries. BT and DTAG indicated their intention to contribute such descriptions in one of the following meetings.

TD25 resulted in a new studypoint: SP1-2

4.8.1.3 Status of Living List for Spectral Management part 1

The living list was uploaded before the meeting as m06p09a00.pdf, and reviewed during the meeting. One new study point was added (SP1-2), and Sp1-1 was provisionally agreed. The table below summarizes the status of the Study Points for this Work item, at the end of the meeting.

SP	Title	Owner	Status
1-1	Descriptions for "VDSL2-NL1" signals (over POTS)	Rob van den Brink (KPN/TNO)	Prov Agreed
1-2	Descriptions for "VDSL2-NL2" signals (over ISDN)	Rob van den Brink (KPN/TNO)	US

4.8.1.4 Status of Draft deliverable for Spectral Management part 1

A draft will be created as soon as the first study points are being agreed.

4.8.2 DTS/TM-06043 Spectral Management part 2, (revision of TR 101 830-2 Technical methods for performance evaluations)

4.8.2.1 Work Plan

The Rapporteur, Rob van den Brink, chaired this session and presented his work plan in WD04. There were no objections raised against this work plan.

<transmitter models, SP2-6>

- TD27 Swisscom Text proposal on 998 VDSL2 PSD template for profiles 8b, 12a and 17a
- TD22 TNO/KPN Algorithmic approach for defining VDSL2 PSD templates
<crosstalk models, SP2-4 and SP2-5>
- TD24 TNO/KPN Evaluating the crosstalk for multi-node topologies (Editorial update)
- WD23 Czech Telc. Editorial comments to TD24

4.8.2.3 Contributions

TD27, from Swisscom, proposes PSD templates for three profiles of VDSL2 and bandplan 998 by means of fixed tables. It is the same contribution as 063t11 from previous meeting, but with a few updated PSD values.

TD22, from TNO/KPN proposes an alternative method, to prevent an infinite number of tables to model other variants of VDSL2. After some discussion it became clear that the approach in TD22 looks promising but more work has to be done.

As a result, studypoints SP2-6 to 8 remained under study.

TD24, from TNO/KPN, proposes text for modeling crosstalk from multiple locations. It is the same contribution as 063t12 from previous meeting, with a few editorial corrections that have been identified so far.

WD23 proposes two additional editorial changes, and they were considered as valuable additions.

With these corrections, provisional agreement was reached on crosstalk modeling.

4.8.2.4 Status of Living List for Spectral Management part 2

The living list was uploaded before the meeting as m06p05a02.pdf, and reviewed during the meeting. The combination of SP2-4 and SDP2-5 were provisionally agreed, and no new study points were added. The table below summarizes the status of the Study Points for this Work item, at the end of the meeting.

SP	Title	Owner	Status
2-1	Performance model for ADSL2	Bernd Heise (Infineon)	US
2-2	Performance model for ADSL2plus	Bernd Heise (Infineon)	US
-3	Modelling sidelobe pick-up in DMT Receivers	Olivier van de Wiel (Broadcom)	Deleted (sept 2006)
2-4	Multi node crosstalk models, restricted to the case that all LT nodes are co-located, and NT distributed	Czech Telecom (Milan Meninger)	Prov Agreed
2-5	Multi node crosstalk models, with both LT nodes and NT nodes distributed	Czech Telecom (Milan Meninger)	Prov Agreed
2-6	Basic transmitter/disturber model for VDSL2	Swisscom (Andreas Thöny)	US
2-7	Model for VDSL2 PSD template variations	Swisscom (Andreas Thöny)	US
2-8	Model for VDSL2 PSD shaping for remote deployment	Swisscom (Andreas Thöny)	US

(PA - Provisionally Agreed; PD - Provisionally Deleted; US – Under Study.

The meeting number indicates the meeting at which the study item was created or the status last changed or confirmed.)

4.8.2.5 Status of Draft Deliverable

A first draft will be created as soon as the first items on the living list are being agreed.

4.8.2.6 Liasons

No liaisons were demanded during this meeting.