
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 work item TM-06042, for revising part 1 by adding new signal descriptions, was “working group approved” in the previous TM6 meeting (nov 2005). The “final” text was uploaded in dec 27, 2005, as m05p06a02, and forwarded to ETSI to be send-out for AbC. Patrick Guillemin (ETSI), ensured the meeting that ETSI will send out this document for AbC, not later than the week after this meeting.

4.8.1.1 Work Plan

The Rapporteur, Rob van den Brink (TNO/KPN), chaired this session and presented his work plan in WD04a2. There were no objections raised against this work plan.

4.8.1.2 Contributions

No contribution were received for SpM-1

4.8.1.3 Status of Living List for Spectral Management part 1

No changes

SP	Title	Owner/Champion	Status
1-1	Alignment of definitions and terminology as adopted in SpM-2 and SpM-3	Rapporteur	agreed (TM6-39)
1-2	Refinement of references in text on “DC Power feeding”	Rapporteur	agreed (TM6-39)
1-3	Signal descriptions for enhanced SDSL	Infineon (Bernd Heise)	agreed (TM6-39)
1-4	Signal descriptions for various variants of ADSL2plus	KPN/TNO (Rob van den Brink)	agreed (TM6-40)

No new study points were created at this meeting (TM6-41)

(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.)

4.8.1.4 Status of Draft deliverable for Spectral Management part 1

The latest draft was uploaded in december as m05p06a02, and forwarded to ETSI to send out for “AbC”. No changes so far.

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 WD04a2. There were no objections raised against this work plan.

- WD23 Official Work-Item sheets for revising TR 101 839-2 – Rapporteur
<modeling crosstalk>
- TD06 Crosstalk One/Multi-node co-location model – Czech Telecom
- WD21 Examples of One/Multi-node co-location model – Czech Telecom
- TD07 Crosstalk Muti/Multi-node co-location model – Czech Telecom
- WD25 Evaluating the crosstalk for a multi-node topology – TNO
<modeling transmitter PSD templates>
- TD20 Issues concerning the description of VDSL2 PSD templates - Swisscom

4.8.2.3 Contributions

WD23, is to comply with ETSI formalities, required to work officially on revising TR 101 830-2. It was presented to TM6 or information only, because it was already decided by TM6 in the previous meeting (see 054w14).

TD06, from Czech Telecom, proposes some working text on models for crosstalk from multiple locations, that have in common that all LT nodes are colocated (typically for operation from a central office). **WD21** is to support this contribution by elaborating example calculations of bitrates of various victim modems. The models being used are FDD ADSL over ISDN models for the modems, and a simple \sqrt{f} model of the cable.

In **TD07**, Czech Telecom proposes similar working text, but now for topologies where some LT nodes are at different locations (typically for deployments from both the cabinet and the local exchange)

In **WD25**, TNO presents an independent cross check of the formulas in TD06, by elaborating in a different way the crosstalk in an example topology with only three wire-pairs of different lengths. The results look different from TD06, but the author of TD06 confirmed they are the same. Apparently, the real problem to be solved is to avoid confusion. Therefore more study is required to create a valid description that is simple and straight-forward specified. Such a text should not start with explaining theory but should read as a recipe.

In **TD20**, Swisscom identifies the need for evaluating suitable templates for the PSD's for VDSL2: a fixed one (e.g. for VDSL2/Ex from the exchange) up to a certain loop length, a length-dependent one (e.g. for VDSL2/Ex beyond that loop length), and another set that address PSD shaping (e.g. for VDSL2/Cab from the cabinet, at specified distance between exchange and cabinet). After some discussion, it was decided to add the proposed study points to the Living List.

4.8.2.4 Status of Living List for Spectral Management part 2

A first living list will be created after the meeting, and TD18 served as a starting point for brainstorm. Three additional study points were created during this meeting (TM6-40); the status of the rest remained unchanged.

SP	Title	Owner	Status
2-1	Performance model for ADSL2	Bernd Heise (Infineon)	US
2-2	Performance model for ADSL2plus	Bernd Heise (Infineon)	US
2-3	Modelling sidelobe pick-up in DMT Receivers	Olivier van de Wiel (Broadcom)	US
2-4	Multi node crosstalk models, restricted to the case that all LT nodes are co-located, and NT distributed	Czech Telecom (Milan Meninger)	US
2-5	Multi node crosstalk models, with both LT nodes and NT nodes distributed	Czech Telecom (Milan Meninger)	US
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 created or demanded during this meeting