

Report from NorDig ExCom, Arlandia (2015-01-27)

| <i>Participants:</i> | <i>Name</i> | <i>Organisation</i> |
|----------------------|-------------------------------------|---|
| | <i>Per Björkman, Chairman</i> | <i>SVT</i> |
| | <i>Anders Appelqvist, Secretary</i> | <i>NorDig</i> |
| | <i>Lis Grete Møller</i> | <i>DR</i> |
| | <i>Alex Jørgensen</i> | <i>Stofa</i> |
| | <i>Juha Vesaoja</i> | <i>YLE</i> |
| | <i>Lise-Lottie Ek</i> | <i>YLE</i> |
| | <i>Des Mac Giolla an Chloig</i> | <i>RTÉNL</i> |
| | <i>Ingve Bjercknes</i> | <i>NRK</i> |
| | <i>Trude Malterud</i> | <i>NTV</i> |
| | <i>Tor Einar Eriksen</i> | <i>TV2 No</i> |
| | <i>Erik Vold, NorDig API</i> | <i>NRK</i> |
| | <i>Per Torp</i> | <i>Canal Digital</i> |
| | <i>Klas Elm</i> | <i>Elektronikbranschen</i> |
| | <i>Lorraine Bayram</i> | <i>LG</i> |
| | <i>Mika Björksten</i> | <i>LG</i> |
| | <i>Motoshi Bito</i> | <i>Vestel</i> |
| | <i>Per Tullstedt, NorDig T</i> | <i>Teracom</i> |
| | <i>Håkan Axén</i> | <i>Teracom</i> |
| | <i>Anders Berglund</i> | <i>Teracom, Future TVformats and HEVC</i> |
| | | |
| <i>Excused:</i> | <i>Name</i> | <i>Organisation</i> |
| | <i>Mads Arnbjørn Rasmussen</i> | <i>YouSee</i> |
| | <i>Lars Esben Hansen</i> | <i>TV2 DK</i> |
| | <i>Markus Ala-Hautala</i> | <i>Digita</i> |
| | <i>Christopher Knudsen</i> | <i>RiksTV</i> |
| | <i>Carl Wickbom,</i> | <i>Com Hem</i> |
| | <i>Nan Li</i> | <i>AltoBeam</i> |
| | <i>Kari Eriksson</i> | <i>Elektronikbranschen</i> |

1. Agenda and report from previous meeting

The report from previous meeting had been distributed via e-mail.

The proposed agenda was agreed as it is.

2. Organisational matters

2.1 Chair of NorDig ExCom, Nordig-T and Secretary

Per Björkman had announced that he will step down as chairman of NorDig due to increased work load in SVT.

It was decided to elect Ingve Bjercknes to Chair ExCom, re-elect Per Tullstedt to chair of NorDig/T and Anders Appelqvist to Secretary. Per Björkman and SVT will carry on with support in economic matters such as budget, invoicing etc.

2.2 Organization in the future

There was a discussion about the future work in NorDig and the need of support from professional people versus increased workloads for members. ExCom was in favour of the direction of using more consultant fee with higher membership fees

2.3 Funding of NorDig specification work

Per Tullstedt presented the work with specification in NorDig/T (Appendix 1) where there was a need for NorDig funding to use professional editor/secretary to ensure timely delivery. It was agreed to do this by using the services of Peter Möllstedt as a complement to Sofia Digital and Labwise. This would mean an increase of membership fees and a need to monitor consultant cost during 2015.

2.4 Budget 2015 and Member Fee 2015

ExCom currently have members from 19 organisations (16 full members and 3 associated member organisations).

Per Björkman presented a Budget proposal (Appendix 2) of total 700.000 SEK (app.75.000 Euro) covering extra costs for technical support. To finance this with a margin there was a need to increase membership fees from 20.000 SEK to 40.000 SEK (app 4.300 Euro) and fees for associated members from 10.000 SEK to 20.000 SEK (app. 2.150 Euro) for 2015. ExCom decided in favour of this budget and fees.

3. Report from NorDig/T

See **Appendix 1** for a more detailed report from activities within NorDig/T.

3.1 Specification and work status

Per Tullstedt presented the work with specification regarding Rules of operation, unified IRD specification, Test plan and Hbb-TV together with the status for Sub-groups.

3.2 Future planning and ongoing work

It was decided a mandate for NorDig 2015 according to the proposals in slide 13 – 16 in Appendix 1.

4. Report from Industry

4.1 Report from Common Testing

Contact with Telenor has resulted in an answer that Telenor was not in favour of common testing for the moment.

4.2 Report from Nordic Product Managers meeting

Next meeting will be in mid February. New chairman of this group is Kari Eriksson from Sony.

5. Invited presentation: Future TV formats and HEVC

Anders Berglund presented the history of TV compression formats from MPEG-2 in 1995, introduction of (MPEG-4) AVC-standard in 2003 and MPEG-H) HEVC in 2013 and each of these intended to enable Digital SD, then HDTV and now coming UHDTV.

The main blocks of this coming compression family standard MPEG-H are: MMT (MPEG Media Transport, multiplex layer), HEVC (aka ITU H.265, video layer) and 3D Audio (audio layer).

Now work is going inside ITU etc on defining a new future TV format, a target is to have better pixels by going from 8 to 10 bit to avoid colour banding problems, wider colour gamut, higher frame rate to reduce motion blur/jitter and flicker, to get a better luminance range and to introduce High Dynamic Range (HDR) etc.

6. Reports from members, DVB and other organisations

DVB: Meeting in February

Ireland: Currently 2 MUXs with 9 channels including 2 with HDTV.

SVT: Plans now made for 700 MHz to telecom in April 2017. Remaining UHF frequencies is still under discussion.

NRK: Report from Nkom (PTS) in Norway, on consequences for DTT leaving the 700 MHz-band both in technical and economic perspectives.

7. Any other business

No other business had been added to the agenda.

8. Date and place for next meeting

Decided dates for 2015. Venue will be Arlandia.

Tuesday May 26th.

Tuesday September 29th

The new chair of ExCom, Ingve Bjerknes, announced that there would probably be only two meetings in 2016.

Secretary

Chairman

Anders Appelqvist

Per Björkman

Ingvar Bjerknes

Appendices:

Appendix 1: NorDig/T report including status, organization in the future and mandate for NorDig/T in 2015

Appendix 2: Per Björkmans presentation including budget and member fees