

Technical Specification Group Services and System Aspects
Meeting #8, Düsseldorf, Germany, 26-28 June 2000

TSGS#8(00)295

Source: 3GPP PCG Chairman
Title: Communication from the Digital Video Broadcasting Project (DVB)
Document for: Discussion
Agenda Item: 5.3

The attached correspondence has been received from the DVB Project Chairman and will be discussed during the next meeting of PCG.

TSG SA should note the correspondence and present any comments that they wish to make to the PCG.

From: theo.peek@philips.com [mailto:theo.peek@philips.com]

Sent: Wednesday 12 April 2000 14:27

To: Karl-Heinz.Rosenbrock@etsi.fr

Cc: MacAvock@dvb.org; u.reimers@tu-bs.de

Subject: DVB and Next-generation Mobile Telecommunications Systems - forwarded to AS and Balazs Kiacz

Mr. Karl-Heinz Rosenbrock

Director of ETSI

650, route des Lucioles

F-06921 Sophia-Antipolis Cedex

Geneva, 10.04.2000

DVB and Next-generation Mobile Telecommunications Systems

Dear Mr. Rosenbrock,

During its recent meeting, the Steering Board of the DVB Project decided to propose a liaison between DVB, the 3G Partnership Project (3G-PP), a body working in the area of GPRS, and the UMTS Forum. I am aware of the fact that you are the right contact person with respect to both 3G-PP and GPRS.

In order for you to be able to understand the DVB ideas behind our proposal I attach a copy of the DVB document SB 28(00)06. This document describes in some detail what the Steering Board believes to be the list of activities which should be carried out as part of that liaison. I invite you to consider those ideas and I would be glad if you could inform us whether the proposed liaison is in the interest of 3G-PP and GPRS partners.

The DVB Project wishes to nominate Prof. Ulrich Reimers (u.reimers@tu-bs.de) as our point of contact and it might be a good idea if you could nominate an individual who could act as his counterpart.

I look forward to hearing from you.

With kind regards,

Theo H. Peek

Chairman DVB

DVB Project Office,

17a Ancienne Route,

CH-1218 Grand Saconnex (GE)

Switzerland.

Tel: +41 22 717 2717

Fax: +41 22 717 2727

E-mail: peek@dvb.org



Institut für Nachrichtentechnik

Technische Universität Braunschweig

Prof. Dr.-Ing. Ulrich Reimers

D-38106 Braunschweig, 23.06.00

Wilhelmstr. 53-55

Tel.:+ 49 531 391 2480

Fax:+ 49 531 391 5192

E-mail: u.reimers@tu-bs.de

DVB and 3rd Generation Mobile Telecommunications Systems

Proposal for decision by the Steering Board of the DVB Project.

On 13 January 2000 a group of 23 representatives of DVB members met in Frankfurt in order to create a proposal to the Steering Board of the DVB Project for activities with respect to 3rd generation mobile telecommunications systems known as "3G", "International Mobile Telecommunications - IMT", "Universal Mobile Telecommunications Systems - UMTS". The participants of the meeting were those members of the Commercial Module (CM) and/or of the Technical Module (TM) who had indicated an interest in the matter. Due to the fact that the chairman of the CM was unable to make it to Frankfurt on 13 January I chaired the meeting.

We started with three introductory presentations given by myself - overview of 3G systems -, Dr. Ralf Schäfer/HHI - collaborative projects aiming at the integration of DAB, DVB and UMTS - and Martin Ellen/Crown Castle International - proposal of activities of the DVB Project with respect to IMT systems.

The following is a very short listing of some important features of 3G systems:

- 3G services will be started in Europe in the year 2002 or 2003.
- 3G systems will be able to deliver 144 kbit/s to the vehicular environment, 384 kbit/s to the pedestrian environment and 2.048 Mbit/s to the indoor office environment.
- They will support packet and circuit switched services.
- One way of looking at 3G systems is as a mobile Internet extension.
- There will probably be three different systems - one for Europe and Japan and other parts of the world, two for the U.S.
- Although spectrum - in the neighbourhood of 2 GHz - has been allocated to 3G systems, their proponents are requesting large additional quantities of spectrum - preferably below 1 GHz. This creates a direct competition with the spectrum requirements for DVB-T.
- 3G systems and DVB (T) may become two elements of an integrated broadcast and communications system. The 3G component of that system may be used for the communication aimed at individual users whereas DVB (T) becomes the point-to-multipoint or even the uni-cast data delivery extension.

After some discussion the participants of the meeting unanimously agreed to forward the following proposal of actions for the Steering Board:

1. Actions to be taken by the SB

- 1.1 Establish a liaison between DVB and the UMTS Forum and between DVB and the 3G Partnership Project (3G-PP).
- 1.2 Offer co-operation activities as described under 2 and 3.

1.3

2. Actions to be taken by the CM

2.1 Start the definition of integrated service models in cooperation with representatives of the liaison partners. Exchange information about service plans and implementation schedules.

3. Actions to be taken by the TM

3.1 Define a new return-channel specification (DVB-RC3) in which the use of 3G systems as a DVB interaction channel is defined.

3.2 Offer to the liaison partners a joint activity that aims at the use of the MHP - or a "light" version of it - in 3G networks and terminals.

3.3 Co-operate with the liaison partners in the definition of a "Common Control Channel" for the signalling to the terminal device of available services (DVB, 3G.....).

3.4 Co-operate with the liaison partners in the definition of an end-to-end interoperability specification for an integrated system.

3.5 Look at 3G systems as a medium for transmitting low-quality video signals in a Digital News Gathering mode.

3.6 Establish a liaison between the special rapporteur on spectrum planning and the Spectrum Aspects Group of the UMTS Forum.

I invite the Steering Board to consider these proposals during the meeting in February 2000 and to decide accordingly.

Ulrich Reimers