

DVB-H Terminals in a DVB-T Environment

*Planning of the terrestrial distribution networks in Europe – a key to Seamless Service – the key to success
Copenhagen, September 27, 2005*

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s RRC06



- Can Mobile Broadcasting find its place in a DVB-T environment?
 - RRC does not discuss the scenario of indoor reception by handheld terminals
 - RRC does not discuss roaming or any other aspects vital to the establishment of Seamless Mobility of Broadcast Services
 - RRC does not discuss spectrum issues for such services
 - RRC does not discuss the "digital dividend" if any



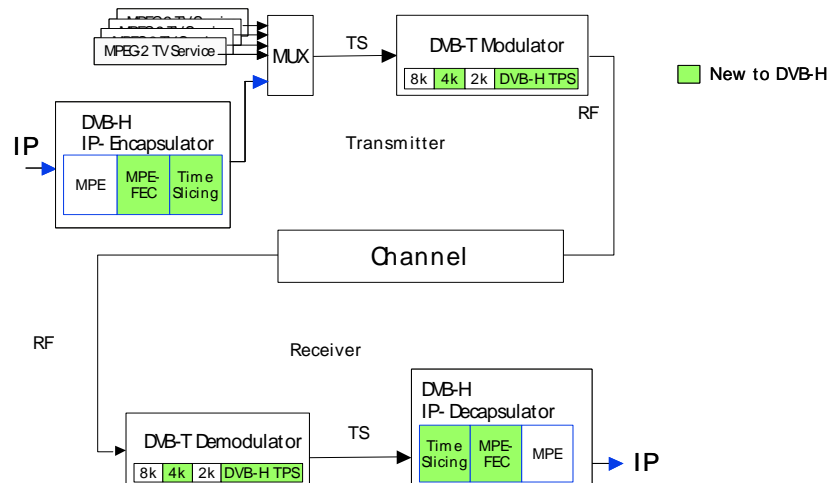
Yes

- A DVB-H system is identical to a DVB-T system
 - **Seamless Network Sharing Technical Possible**
- Allotment planning will be widely applied
 - **Definition of coverage area, not coordinates of towers and maximum transmission power – favourable for planning of DVB-H based services**
- Reference Planning Configuration
 - **RPC2 will be widely applied. Not ideal but can be overcome to provide an excellent indoor QoS**
- Transmitters under 0.25 kW are not planned by RRC
- Advantage for simpler optimization of DVB-H coverage



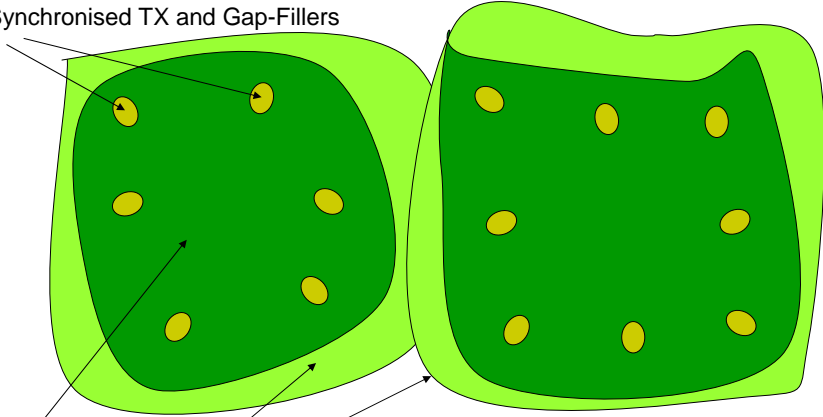
A DVB-H system is identical to a DVB-T system

Seamless DVB-H Network Sharing if topology allows



Allotment planning will be widely applied for SFN's

Synchronised TX and Gap-Fillers



Reference Planning Configuration

RPC	RPC 1	RPC 2	RPC 3
Reference location probability	95%	95%	95%
Reference C/N (dB)	21	19	17
Reference ($E_{med,ref}$) (dB(μ V/m)) at 200 MHz	50	67	76
Reference ($E_{med,ref}$) (dB(μ V/m)) at 650 MHz	56	78	88

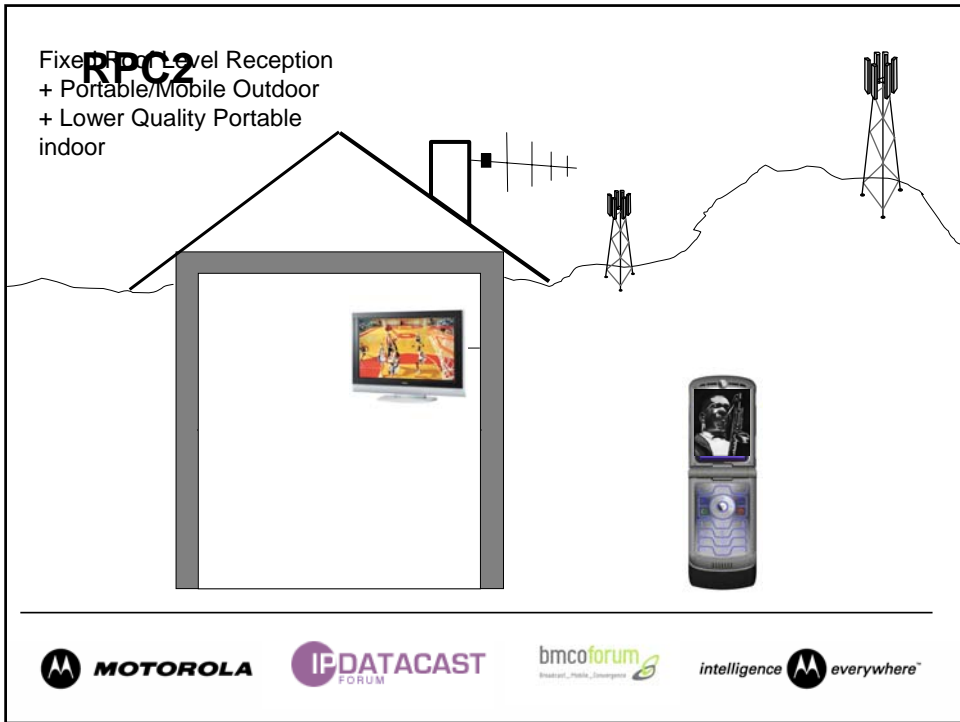
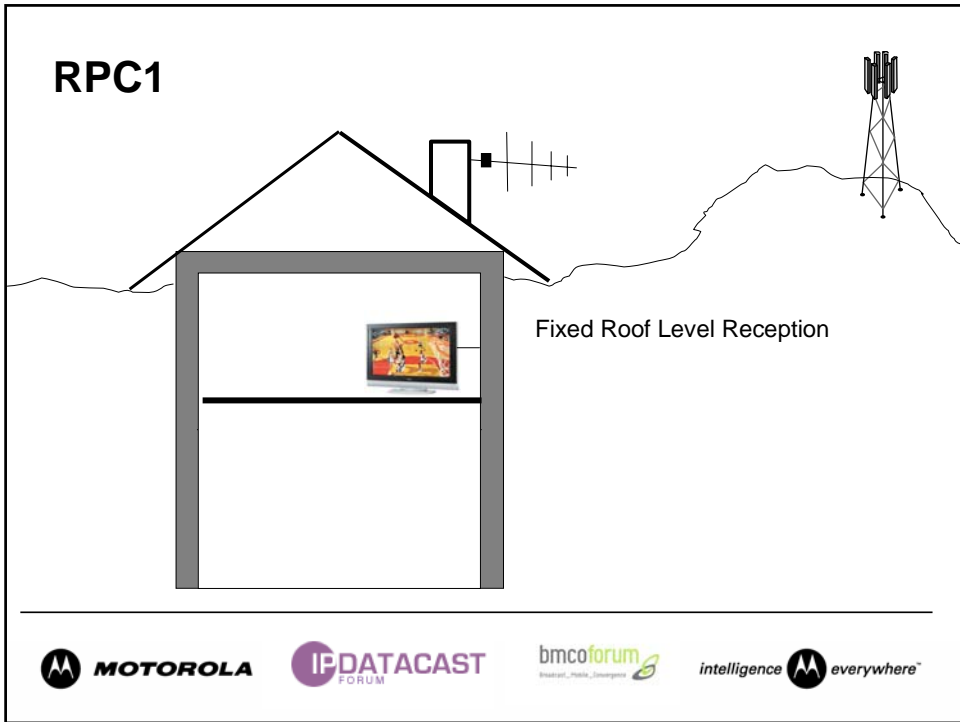
($E_{med,ref}$): minimum median equivalent field strength

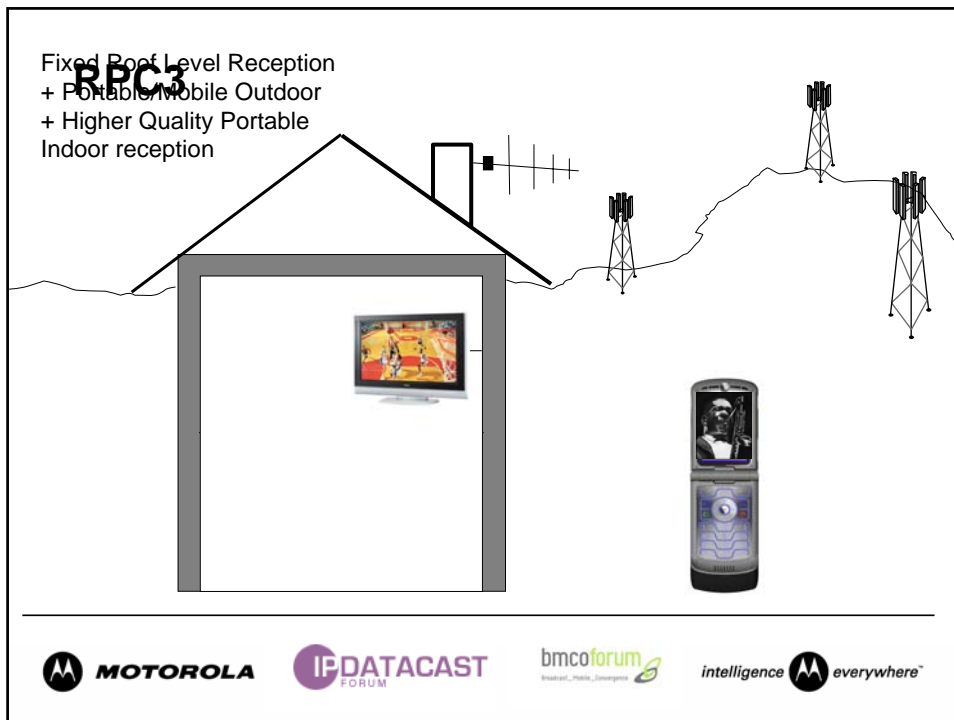
RPC 1: RPC for fixed roof-level reception

RPC 2: RPC for portable outdoor reception or lower coverage quality portable indoor reception or mobile reception

RPC 3: RPC for higher coverage quality for portable indoor reception.







Conclusion

- The resolutions from RRC04 point in the right direction
- We must work towards this being continued and concluded at RRC06
- Content is King, Mobility is Queen and Seamless Service Provision is a Must