16 July 2010

Abstracts

2. Session 6: Frequency issues of the transition

Optimised Way to Transmit the Video Signals

The video distribution network- by cable, satellites and terrestrial are introduced. Merging of telephone (ADSL), power-line (BPL), cable TV and video/sound/ data provide additional platforms to transmit terrestrial over-the-air video. The present analogue TV standards (PAL, SECAM and NTSC) are roughly illustrated; the 4 leading digital TV standards (DVB-T, ATSC, ISDB-T and DMB-T/H) are introduced and their worldwide coverage is depicted. The potential digital-dividend at 790-862 MHz is presented. Modern mobile systems (such as LTE, UMTS and CDMA2000) are now penetrating the 850 MHz band. Potential interference issues and coexistence of analogue and digital TV and the transition period are examined. Coexistence of Digital TV with other primary services (land mobile and fixed service) are analysed, based on ITU-R Recommendations F.1670 2006 Protection of fixed wireless systems from terrestrial digital video and sound broadcasting systems and M. 1767 2006 Protection of land mobile systems from terrestrial digital video and audio broadcasting systems.