DTT transition & utilization of DD in CROATIA

Regional Workshop for Europe and CIS on SM and DTT

Budapest, 5-7 May 2015
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ASO FACTS


Analogue to digital TV switchover by 1 January 2011

MPEG-2 for SDTV, MPEG-4 (H.264/AVC) for HDTV and "Pay TV"

Switchover concept: region by region (9 regions)

- First phase (national programs+new) – MUXA/MUXB
- Second phase (local/regional+new) – MUX D

Social dimension

- subsidy for every public television subscriber 10€
- Information and promotion campagne
- Support for subscribers
Market Share by reception type
Q4 2014

Daily Programmed TV (DTV) market share for Q4 2014 as of 5/6/2015.

Note: The number of Digital terrestrial reception = (Number of HH in Republic of Croatia - number of HH without TV) - ( number of Cable reception + number of IPTV + number of Satellite reception + number of Digital terrestrial reception (pay per view))
5 MUXs / networks

FTA (DVB-T, MPEG-2)
- MUX A >98.5% population
- MUX B >95% population
- MUX D >90% population

PAY-TV (DVB-T2, H.264(MPEG-4))
- MUX C >85% population
- MUX E >85% population

81 programs
- 31 FTA programs (SD)
- 4 PSB nacional coverage
- 7 comercial nacional coverage
- 20 regional/local coverage
- 47 Pay-TV programs (SD/HD)
- 4 radio programs
Utilization of the Digital Dividend

- Mobile communications in 790-862 MHz allowed in 2008
- Spectrum cleared in 2010
- Licenses for LTE awarded
  - 2012 – public call – 2 operators – 2 x 10 MHz each CIFRE
  - One off fees in total – 40 mil. €
  - 314k € per 1 MHz yearly
  - 2 x 10 MHz remained unassigned

- 2013 – closed bid auction – 2 operators – 2 x 5 MHz each
  - In total 49 mil. €
Utilization of the Digital Dividend - interference

- **Procedure of eliminating the potential interference to DVB-T receivers defined in cooperation with operators (DVB-T and mobile)**

- **HAKOM finances the filters for users, other interferences are in the responsibility of the mobile operators**

- **Currently there is around 80 LTE800 base stations in operation**

- **No reported interferences up till now – no big investments, base stations mostly in rural areas**

- **In next year cases of base stations in urban areas are expected – potential interference**
Future Plans

- **Strategy for second digitalisation (switchover to DVB-T2) and release of second digital dividend (694-790 MHz) is in preparation**

- **TV licenses valid until 2021**

- **Preparation for DD2 (694-790MHz)**

- **Replanning of the current DTT networks**

- **Analizing future needs for the DTT capacity**

- **Defining future standards (DVB-T2 and H.264 or H.265)**
Danijel Vidaković
Ivančica Sakal