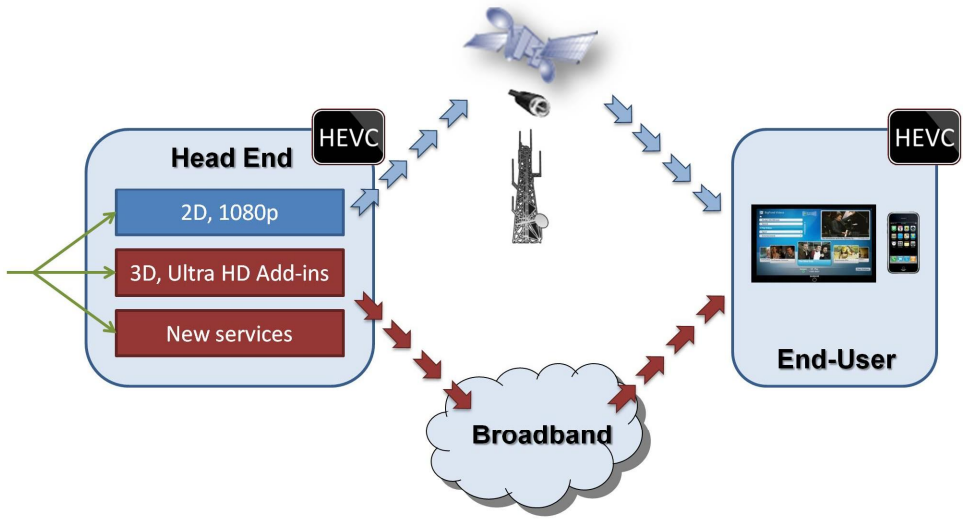
HEVC Hybrid Broadcast Broadband Video Services – H2B2VS

Project focus

The H2B2VS project will focus on the hybrid distribution of TV programs and services over heterogeneous networks:

- Broadcast network (terrestrial, satellite, cable) and
- Broadband network (ADSL, fibre, mobile),

by making use of a new compression technology: HEVC.



Research topics

- HEVC video encoding/decoding tools,
- Content transport and synchronization between Broadband and Broadcast networks,
- Improvement of the CDN to support hybrid delivery networks,
- Adaptation of the terminals to the hybrid architecture,
- End to end solution for content protection, integrating watermarking and appropriate fraud detection.

Expected results

- Implementation of HEVC Codecs and support for HEVC Scalability,
- Adaptation of relevant standards to hybrid distribution: MPEG-DASH (Dynamic Adaptive Streaming over HTTP), MMT (MPEG Media Transport) and DVB signaling,
- Development of a synchronization algorithm to synchronize Broadband & Broadcast networks,
- Support for encryption and transactional watermarking over hybrid networks,
- Adaptation of CDN to allow hybrid distribution.

Project Partners

- **Thomson Video Networks (FR)**
- **IETR-INSA Rennes (FR)**
- **TDF (FR)**
- **SmartJog (FR)**
- **Civolution (FR)**
- **Nagra France (FR)**
- **Alcatel Lucent (SP)**
- **Hispasat (SP)**
- **VTT Technical Research Centre of Finland (FI)**
- **Tampere University of Technology (FI)**
- **Neusoft Mobile Solutions (FI)**
- **Teleste (FI)**
- **Argela (TR)**
- **Basari Mobile (TR)**
- **Vestel (TR)**
- **Digiturk (TR)**
- **Nagravision (CH)**
- **École Polytechnique Fédérale de Lausanne (CH)**
- **HES-SO (CH)**

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