Methods for Distribution of Audio-Video Information over Data Networks

Alexandru Florin ANTONE, Radu ARSINTE

Abstract

The paper presents some practical methods used for distribution of audio-video information based on the Digital Video Broadcasting over Internet Protocol (DVB IP standard. Principles of DVB IP standard are described along with two practical solutions. A proprietary practical solution Satellite IP (SAT IP) is described compared with an open source solution (EZserver) having as a final goal the analyses of DVB content distribution over IP networks. The server distributes the transport streams over an IP network. EZserver allows the users to build services like IP Television (IPTV), Over-The-Top Content (OTT), Video on demand (VOD) for TV, iPhone and PC. The main focus is DVB and ways to exploit the standard DVB-IP and not targeting IP distribution standards in general.

Acknowledgment

This paper was supported by the project "Improvement of the doctoral studies quality in engineering science for development of the knowledge based society-QDOC" contract no. POSDRU/107/1.5/S/78534, project co-funded by the Sectorial Operational Program Human Resources 2007-2013.

Biography

Alexandru Antone graduated from Technical University of Cluj-Napoca, Faculty of Electronics, Telecommunication and Information Technology in 2008 with a degree as Diplomat Engineer. He completed Master's in Telecommunication and Multimedia Technologies at the same university in 2010 focusing on quality analysis in DVB systems. He continued his research as a PhD student focusing on functional and evaluation structures in DVB systems, publishing a couple of papers in this domain.

Alexandru Florin ANTONE, PhD student
Technical University of Cluj-Napoca
Telecommunication Department
28 Memorandumului Street, 400114 Cluj-Napoca, ROMANIA
E-mail: antonealexandru@yahoo.com
Manuscript received on May 14, revised on October 26, 2013