

# **IPv6 Networks over DVB-RCS Satellite Systems**

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## **Abstract**

Satellite plays important roles in global information infrastructure (GII) and next generation network (NGN). Similarly, satellite communications systems have great advantages to support IPv6 (Internet Protocol version 6) networks as a technology that allows the universal access to broadband e-services (audio, video, VPN, etc...). In the context of DVB-S2 (Digital Video Broadcast-Satellite) and DVB-RCS (Digital Video Broadcast-Return Channel By Satellite) standards, this paper presented the current SatSix project (Satellite-based Communications Systems within IPv6 Networks) within the European 6<sup>th</sup> Framework Programme, which is implementing innovative concepts and effective solutions (in relation with the economical cost) for broadband satellite systems and services using the technology presented above. This project is promoting the introduction of the IPv6 protocol into Satellite-based communication systems.

Moreover, through SatSix, the industry is addressing the next generation Internet, IPv6. It also enhances its competitive position in Satellite Broadband Multimedia Systems by exploiting the common components defined by the European DVB-S2 and DVB-RCS satellite broadband standards.