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ETSI membership is composed of manufacturers and network operators – all the “big names” and many smaller companies too – plus national administrations, ministries, regulators, universities, research groups, consultancies and user organizations. A powerful and dynamic mix of skills, resources and ambitions, all working together to bring the very best ICT solutions to the global marketplace. Geographically, our membership of over 700 companies and organizations is drawn from more than 60 countries on 5 continents.

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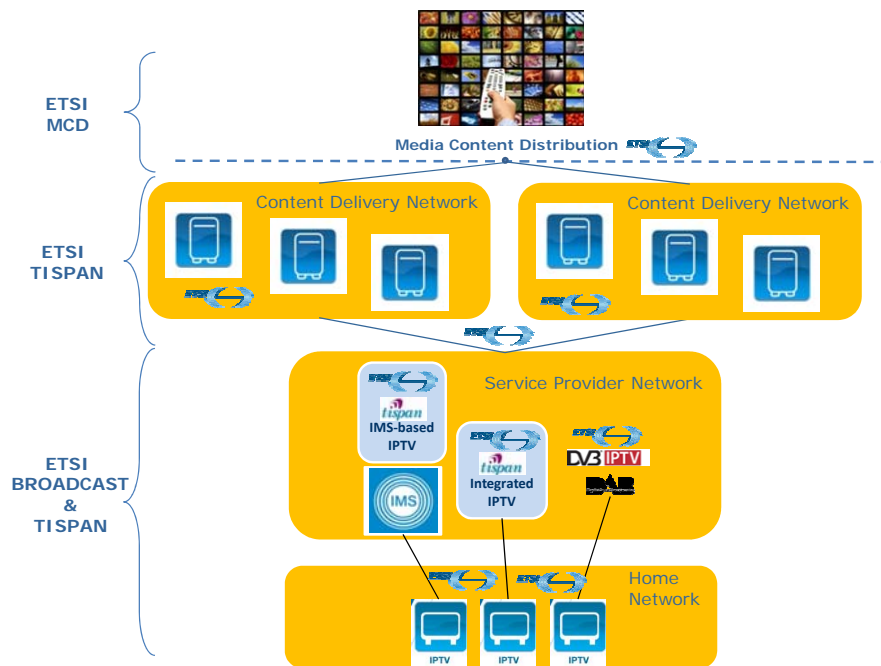
ETSI
650 Route des Lucioles
F-06921 Sophia Antipolis Cedex, France
info@etsi.org
www.etsi.org

TISPAN IPTV Standards



ETSI TISPAN in the IPTV Ecosystem

ETSI activities cover the critical elements of the IPTV ecosystem: the customer network, the service provider network and the media content distribution. For each of these elements, ETSI works on standardizing use cases, functions and interfaces that will allow interoperability and interworking between equipment vendors, network service providers and media content distributors.



Service Provider Network

As part of its NGN (Next Generation Networks) Release 2 series of specifications, ETSI TISPAN (Telecommunications and Internet converged Services and Protocols for Advanced Networking) has defined the integration of IPTV services in an NGN architecture. TISPAN specified two solutions (Integrated and IMS-based) both defining the IPTV Service Control functions, the IPTV Media Control functions, and the IPTV Media Delivery functions.

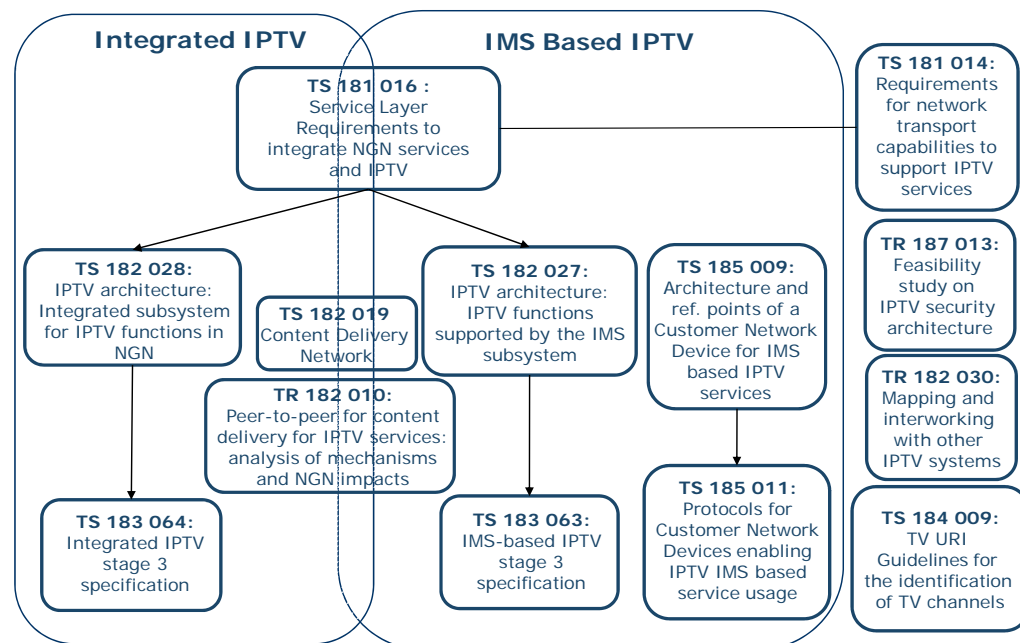
Integrated IPTV

The integrated IPTV subsystem focuses on the integration of existing market solutions in an NGN environment. Network service providers benefit from the cost advantages of an NGN network without strong modification of their current IPTV service.

IMS-Based IPTV

The IMS-based IPTV subsystem allows blending of TV services with other telecommunication services (e.g. voice, presence, and data services). Network services providers can take full benefit of the IMS architecture while providing key end-user services.

TISPAN IPTV Specifications



Home Network



To further enhance the IPTV support by the NGN, TISPAN defines the architecture, interfaces, and protocols of home network devices to enable NGN IPTV services. The current solution focuses on IMS-based IPTV services.

Security

TISPAN is studying (TR 187 013 to be published mid 2010) the various options for the IPTV security architecture to provide IPTV service protection. The aim is to provide an open framework to allow the operator a choice between one or more protection solutions. The study provides a general model for IPTV key management and distribution architecture. Several candidate solutions are analyzed against the TISPAN IPTV security requirements.

Content Delivery Network

TISPAN defines the Content Delivery Network (CDN) architecture and its interconnection with TISPAN IPTV architectures. The CDN allows the optimization of the network use through a distribution of the content delivery servers in the physical network, and the optimization of the storage resources through a popularity-based distribution of the content on the content servers. The architecture specification TS 182 019 will be published mid 2010.