

About ETSI

ETSI is one of the world's leading standards development organizations for Information and Communication Technologies (ICT). Founded initially to serve European needs, ETSI has grown rapidly to become highly-respected as a producer of technical standards for worldwide use.

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 750 companies and organizations is drawn from more than 60 countries on 5 continents.

ETSI is independent of all other organizations and structures, a key feature for ensuring neutrality and trustworthiness. That brings benefits not only in the acceptance of our standards and other publications, but also in our growing range of ancillary services, such as interoperability testing. And because standardization inevitably draws upon the bright ideas of our members, we have an Intellectual Property Rights (IPR) policy in place that has become the model for many other organizations.

Your company can be part of this dynamic organization. For more information, please visit and contact:

ETSI BROADCAST: <http://portal.etsi.org/BROADCAST>

ETSI MCD: <http://portal.etsi.org/MCD>

ETSI TISPAN: <http://portal.etsi.org/TISPAN>

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Broadcast Standards



ETSI provides standards that allow Broadcast services to be delivered to the Next Generation of ICT devices. *ETSI* involves the different contributors to the ecosystem: consumer electronics manufacturers, broadcasters, network operators and ISPs; and produces the standards through various Technical Committees.

Device	Delivery	Technology	<i>ETSI</i> Technical Committee
Mobile TV	3G Radio Network	MBMS	3GPP
	Mobile Broadcast Service	DVB-H, DVB-SH, DVB-T, DMB, Forward Link Only	JTC Broadcast
Fixed line TV	NGN Fixed line service	IPTV DAB adaptation	TISPAN JTC Broadcast
	Cable	DVB-C (C2)	JTC Broadcast
Terrestrial and Satellite TV & radio		DVB-T (T2) DVB-S (S2) DAB (DAB+) DMB DRM (DRM+)	JTC Broadcast

Mobile TV

- The 3rd Generation Partnership Project (3GPP - www.3gpp.org) defines the MBMS (Multimedia Broadcast Multicast Service) solution over UMTS networks. The 3rd Generation mobile standard includes many broadcast-related features and is compatible with broadcast specifications from partner organizations, including the DVB specifications for hand-held devices (DVB-S, DVB-SH).
- The Broadcast Joint Technical Committee (JTC Broadcast) brings *ETSI* together with the European Broadcasting Union (EBU) and CENELEC. The committee is responsible for broadcast systems (emission-reception combination) for television, radio, data and other services via satellite, cable and terrestrial transmitters. *ETSI* JTC Broadcast has input from *ETSI* Members who may be also members of a forum e.g. WorldDMB Forum, DRM Forum, FLO Forum, and, by specific agreement, from the DVB Project.

For Mobile TV, *ETSI* (via JTC Broadcast) has published:

- DVB (Digital Video Broadcasting) system specifications such as DVB-H (Digital Terrestrial mobile TV), DVB-SH (Mobile TV over advanced Hybrid Satellite/Terrestrial Networks), DVB-T and DVB-T2 (Terrestrial);
- Forward Link Only air interface specification;
- DMB (Digital Multimedia Broadcasting) standard which includes the DMB Video service.

Fixed Line TV

- *ETSI*'s NGN committee (TC TISPAN) has defined the integration of IPTV services in an NGN architecture. The committee studies and specifies the network capabilities that are needed to support IPTV.
- DVB IPTV is defined by JTC Broadcast along with DVB IPDC (IP Datacast) specifications. The goal of the DVB IPTV deliverables is to specify technologies on the interface between a managed IP network and retail receivers.
- DAB (Digital Audio Broadcasting) adaptation of IPTV: JTC Broadcast has defined a specification on DAB IPDC (IP Datacast) services transport .
- DVB cable delivery: DVB-C and DVB-C2 standards have been issued by JTC Broadcast.

Digital radio

The intention is to provide a simpler and broader set of applications which will cover DAB, DAB+, DMB, DRM and the internet. JTC Broadcast defines:

- DAB and DAB+ (Digital Audio Broadcasting): *ETSI* has published the basic DAB standard and also specifications on MPEG-2 Transport Streaming and Transport of Advanced Audio Coding (AAC) audio;
- DRM (Digital Radio Mondiale) System Specification and DRM+ (DRM extension to higher frequencies);
- DMB: based on work initiated in Korea, *ETSI* develops standards for DMB, which includes the DMB Video Service.

Other broadcast developments in *ETSI*:

- JTC broadcast standards and specifications also cover:
 - Digital Satellite TV: DVB-S and DVB-S2;
 - DVB MHP (Multimedia Home Platform): Open Middleware for Interactive TV;
 - DVB CPCM: Content Protection Content Management;
 - MHEG-5 Broadcast profile: adapted for the use in enhanced digital television broadcasting;
 - TV Anytime.
- *ETSI* has just launched an activity on HBB (Hybrid Broadcast Broadband).
- *ETSI*'s Media Content Distribution technical committee (TC MCD) is addressing the domain of the interoperability of content distribution and the related services in a converged environment supporting IPTV, Mobile TV and broadcast TV.
- *ETSI* is custodian of a range of algorithms, codes and test suites, including the DVB Common Scrambling Algorithm (CSA3) and the MHP tests suites.