DRM Global Receiver Profiles

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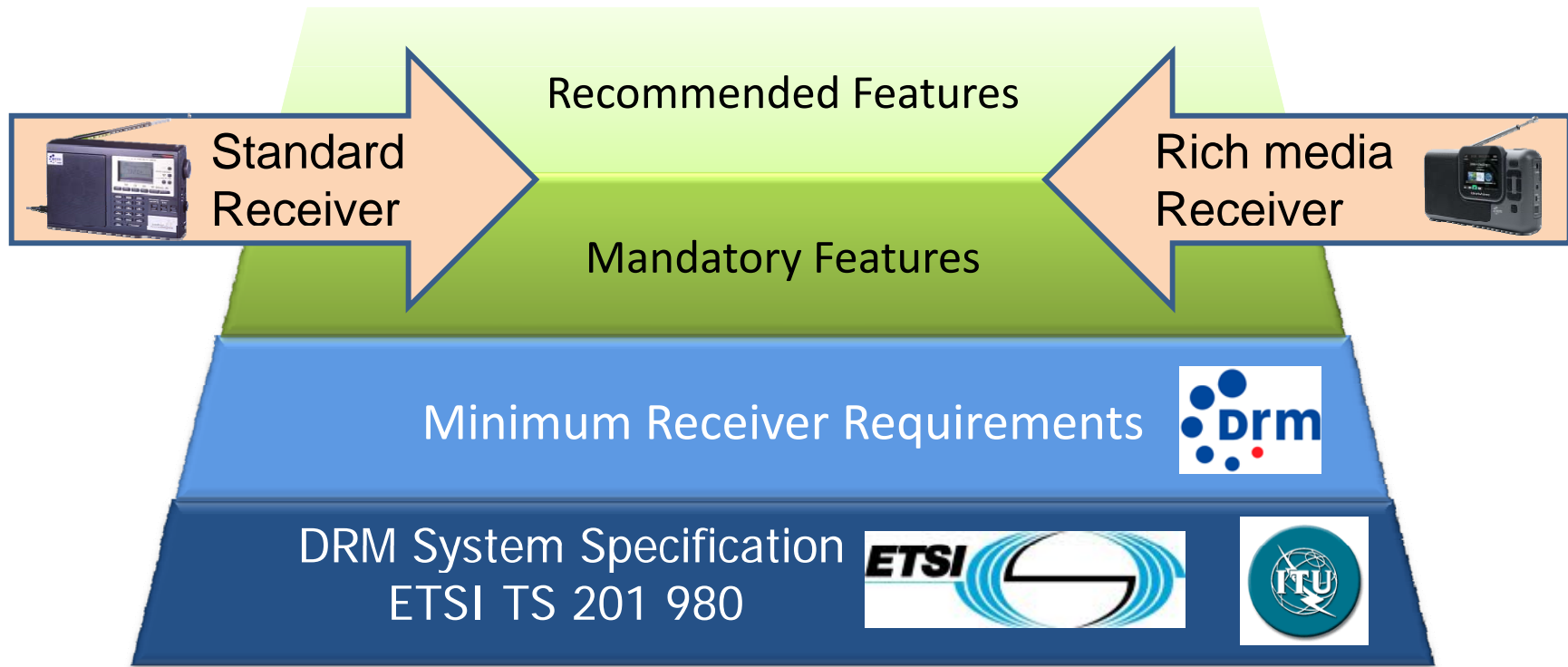
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Why DRM receiver profiles?

Defines minimum functionality to be expected in different classes of digital receiver which use the DRM system: assists in creating a vibrant receiver market by building *confidence*:

➢ *For broadcasters:* that their planned services can be consistently and reliably received

➢ *For manufacturers:* that their product investments are suitable for, and are supported by demanded services

➢ *For consumers:* that their receiver will be fit for purpose and fulfil expectations, providing a consistent quality experience

➢ *For regulators:* to develop and promote harmonised digital radio broadcasting strategies and policies

Structure of profiles

Recommended Features

Standard Receiver

Rich media Receiver

Mandatory Features

Minimum Receiver Requirements

DRM System Specification
ETSI TS 201 980

Process to establish profiles

- ➢ Working Group established: Scope and Terms of Reference
- ➢ Stakeholder consultation
- ➢ Evaluation and formulation of profiles
- ➢ Approval by DRM Steering Board
- ➢ Profiles announced at IBC 2009

Basic guidelines

➢ Seek to establish two profiles, Basic and Advanced. Basic receiver has essential features for DRM and low target price. Advanced receiver is differentiated by additional multimedia features.

➢ Minimise option elements for well-defined functionality

➢ Consider DRM only

➢ Consistency with Minimum Receiver Requirements

➢ Consider local, regional variations; in-car variations

➢ Consider DRM as one system (not DRM30 and DRM+)

➢ Seek compatibility with accepted DAB profiles

Profile details

	Profile 1: Standard Radio Receiver		Profile 2 : Rich Media Radio Receiver	
Spectrum	Mandatory	Recommended	Mandatory	Recommended
DRM reception in MF, HF, FM bands	✓		✓	
DRM reception in all broadcasting bands mandated regionally	✓		✓	
DRM reception in all broadcasting bands below 174 MHz		✓		✓
Channel Decoding	Mandatory	Recommended	Mandatory	Recommended
All defined channel bandwidths	✓		✓	
Audio	Mandatory	Recommended	Mandatory	Recommended
Stereo decoding (if stereo-capable output provided)	✓		✓	
Surround Sound				✓

Profile details

	Profile 1: Standard Radio Receiver		Profile 2 : Rich Media Radio Receiver	
Emergency Warning	Mandatory	Recommended	Mandatory	Recommended
Emergency warning / alert feature	✓		✓	
Text	Mandatory	Recommended	Mandatory	Recommended
Service label (station name) display	✓		✓	
Text message display (if 2 or more lines); except in-car	✓		✓	
Journaline presentation		✓	✓	
Regional character sets appropriate to target region/market		✓		✓
EPG	Mandatory	Recommended	Mandatory	Recommended
EPG presentation		✓	✓	
Advanced EPG profile decoding				✓

Profile details

	Profile 1: Standard Radio Receiver		Profile 2: Rich Media Radio Receiver	
Slideshow	Mandatory	Recommended	Mandatory	Recommended
SlideShow presentation			✓	
Traffic and Travel	Mandatory	Recommended	Mandatory	Recommended
TPEG and TMC decoding for in-car products		✓		✓
Service Following	Mandatory	Recommended	Mandatory	Recommended
DRM to DRM service following (AFS)	✓		✓	
DRM to analogue, if product features AM-AMSS, FM-RDS	✓		✓	
DRM to other digital systems , if featured		✓		✓

CVC

Summary

> **Profile 1: Standard Radio Receiver**

- Audio receiver with at least a basic alphanumeric display
- Essential elements to receive DRM radio; low target price

> **Profile 2: Rich Media Radio Receiver**

- Audio receiver with a colour screen display of at least 320 x 240 pixels
- Multimedia features for enhanced value / consumer experience

> Profiles comprise Mandatory and Recommended features
> Profiles provide baseline for manufacturers
> Product differentiation through design and value-adding service/feature propositions

Thank you for listening

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