

Welcome to the World of Standards



EG 203 336: A TECHNICAL GUIDE FOR THE RED

Workshop “53 Shades of RE-D”, 4 November 2015

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- New ETSI guide providing guidance to ETSI radio TB's on producing harmonised standards for articles 3.1(b): “EMC” and 3.2: “Radio Spectrum” of the RED
- Focuses solely on the RED and does not cover requirements applicable to harmonised standards under earlier regulatory regimes

- New ERM work item created: DEG/ERM-517
- Drafted by TC ERM ad hoc group (ERM-RED)
- Approved by ETSI Members Vote in August 2015
- EG 203 336: Electromagnetic compatibility and Radio spectrum Matters (ERM); Guide for the selection of technical parameters for the production of Harmonised Standards covering article 3.1(b) and article 3.2 of Directive 2014/53/EU

- Radio equipment shall conform to the applicable **legal** “essential requirements” of the RED
- Harmonised Standards have **technical requirements** as one way to conform to essential requirements
- **EG 203 336** is intended to provide guidance on typical parameters for radio Harmonised Standards
- **Not intended** to provide specific technical solutions - this is the role of the TB

- To help an ETSI Technical Committee to produce a Harmonised Standard aimed at providing a presumption of conformity of radio equipment with the essential requirements in articles 3.1(b) and 3.2 of the Radio Equipment Directive (Directive 2014/53/EU).
- Does not cover the production of Harmonised Standards covering article 3.1(a) of Directive 2014/53/EU which is the responsibility of CENELEC and article 3.3 which requires delegated acts by the European Commission.

- Technical parameters for article 3.2 of RED:
 - Transmitter requirements
 - **Receiver requirements**
 - Protocol elements, interference mitigation techniques and types of modulation
 - Antennas
- Technical parameters for article 3.1(b) EMC of RED:
 - General & exclusion bands
 - **Combined Equipment within the scope of the RED**
 - Structure of harmonised standards

- **Increasing** numbers of devices will have to be able to share the radio spectrum
- **Receivers** as well as transmitters play a crucial role so can't be ignored
- **RED** promotes **improvement** in how equipment uses the spectrum
- **New Harmonised Standards** support RED objectives by providing the technical detail

- Receiver sensitivity
- Receiver co-channel rejection
- Receiver selectivity
- Adjacent signal selectivity (or ACR)
- Receiver blocking

General Receiver requirements

“Receivers usually operate under spectrum conditions managed by radio regulators to use spectrum efficiently and share with current & future users. The **receivers should be specified** in order to use the spectrum as intended while respecting these spectrum use conditions.”

Q&A