



# Welcome to the World of Standards



## **MANDATE TO ETSI: M-536**

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

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# Radio Equipment Directive (RED)

## 2014/53/EU: OJ L153 22 May 2014



- Replaces Radio & Telecommunication Terminal Equipment Directive (RTTED) 1999/5/EC, repealed with effect from 13 June 2016
- RED to be applied from 13 June 2016 (+ 1 year for manufacturers to comply)
- Covers equipment which intentionally transmits or receives radio waves for communications or radiodetermination, regardless of primary function
  - Operating up to 3000 GHz (NB: no lower frequency limit)
  - LVD & EMCD will no longer apply to RED equipment
  - Many products under the scope of RED: e.g. anything with a GPS, Bluetooth, RFID, RLAN, NFC....

# Standardisation request M/536 under RED



- Issued under EP/Council Regulation 1025/2012:  
“Standardisation Regulation”
- Harmonised Standards expected to be published by  
15.3.2016:
  - Sound and TV Broadcast Receivers and receiver characteristics of non-receive-only equipment
  - Radio equipment operating below 9 kHz
  - Radio-determination equipment
- Standards already cited under RTTE Directive 1999/5/EC  
(228 in June 2015)
  - To be reviewed & published under RED according to CENELEC & ETSI  
internal planning schedule
- Standards under development under repealed mandates
  - According to schedule of original mandates

# EC guidance in standardisation request M/536 under RED



- Receiver requirements emphasised in the context of harmonised conditions for availability & effective use adopted under the Radio Spectrum Decision (676/2002/EC)
- Harmonised Standards to include sharing mechanisms & mitigation techniques
- Antenna performance emphasised for mobile terminals and communication equipment used in safety of life applications

## 🌐 ETSI accept!

- Although not possible to complete all standards in the time requested
- Initial work programme: 163 ENs, 18 under active study

## 🌐 Expected to be revised throughout the life of the RED

## 🌐 Regular reporting to TCAM, Committee on Standards (CoS)

## 🌐 Work programme published on ETSI web site

- Timescales & volume are “challenging”
- ETSI Guide to Technical Bodies on the drafting of Harmonised Standards  
[EG 203 336 \(2015-08\)](#)
- Includes recommendations on specification of receiver parameters
- REDCA informed of the EG to guide Notified Bodies on assessment of radio equipment for which the Harmonised Standards had not yet been completed.



# What will a RED HS look like?



- Some “multi-part” HS under RTTED will be replaced by a single-part HS under RED covering both Rx & Tx requirements
- Relation to RED identified in a Normative Annex (may be repeated in the Foreword)
- Includes a table relating technical requirements to essential requirements of the RED (similar to RTTED Requirements Table):
  - No distinction between “essential radio test suites” and “other test suites”
  - Includes reference to EC standardisation request and text on legal effect of HS (text from “Vademecum”)
  - Includes “conditionality” for technical requirements to apply
- Template available from [portal.etsi.org/Services/editHelp!](http://portal.etsi.org/Services/editHelp!)
  - Click on “skeletons” under “Standards Development”

# RED – ETSI's working assumptions



- Additional requirements of article 3.3:
  - Any Decisions invoking additional essential requirements under 1999/5/EC shall be construed as invoking the equivalent essential requirements under 2014/53/EU
  - The Commission may invoke new additional requirements as a delegated act.
- Equipment subject to new requirements under RED (e.g. broadcast receivers) may apply previous legislation (e.g. LVD/EMCD) until 16 June 2017
  - Existing Harmonised Standards will still be available & applicable
- Dual Use equipment: Art 1.3 excludes radio equipment exclusively used for activities concerning public security, defence..etc. Dual-use (civil & military) is assumed to be covered by the RED.



# RED – ETSI's working assumptions (contd)



- Avionics applications – exclusions under “EASA Regulation” 216/2008 (as amended):
  - Heliborne Obstacle Detection Radar: Current assumption: these are covered by EASA Regulation, so excluded from RED → EN 303 360 NOT proposed under RED (under discussion with the Commission)
  - Unmanned Airborne Vehicles (UAV) (“drones”), mostly not covered by EASA Regulation as under limit of maximum certified take-off mass → RED & Machinery Directive 2006/42/EC apply.
  - GSM/LTE on Board Aircraft is not covered by the EASA Regulation, as not used for controlling an aircraft in flight → RED applies.
- Equipment operating under 9 kHz may be:
  - operated in MS that have not introduced National restrictions (art 7)
  - placed on the market throughout the Community unless all Member States have introduced National restrictions (art. 10.2)
- Metal detectors etc:
  - Covered by the RED as used to determine the position of objects (art 1(3))

# Impact on co-operation with other bodies

## - no substantial change



- CEPT-ETSI MoU refers specifically to 1999/5/EC
  - Needs an editorial update: no substantial change foreseen
- CEN-CENELEC-ETSI co-operation
  - (art 3.1 (a)): Safety Standards are developed by CENELEC
  - (art 3.1(b)): EMC for communicationss network equipment and other radio equipment by ETSI;  
EMC Standards for broadcast receivers by CENELEC
  - (art 3.2 & art 3.3) : Radio spectrum standards by ETSI
- Continuing need for close co-operation with:
  - RTTE Compliance Association (renamed for RED)
  - Administrations Co-operation group (ADCO)
  - European Commission (TCAM & RSCOM)
  - Radio Spectrum Policy Group (RSPG)



- Harmonised standards need to be fit for purpose to provide presumption of conformity with these Directives, and be compatible with CEPT & Commission spectrum harmonisation measures
- ETSI Secretariat monitors developments in spectrum policy and regulatory issues, provides support and guidance to Technical Bodies and advice to authorities on developments in ETSI
- ETSI Secretariat co-ordinates with the Commission for timely and accurate listing of Harmonised Standards in the OJEU
- RADIO\_BRIEFING list for briefing before Member States' meetings



# ETSI's "one table"



**ETSI is a recognised European Standards Organisation**

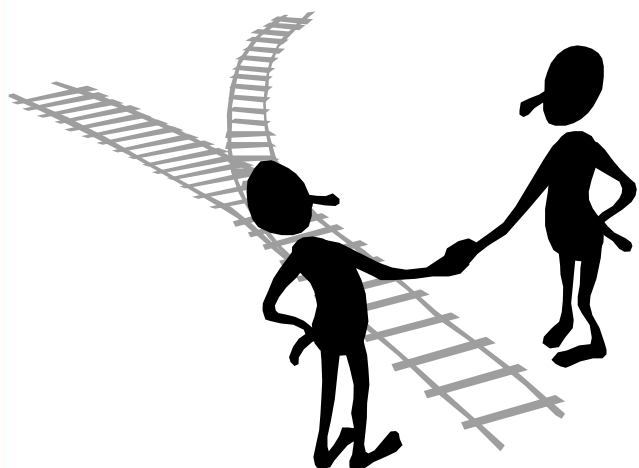
**Association of industry players and government bodies...**

**...manufacturers, network operators,  
service providers, administrations,  
users, industry associations,  
universities, research bodies...**

**... with direct participation...**

**... members from all round the world**

**ETSI standards applied globally**



- Opportunity to set the technical requirements for market access (ETSI Harmonised Standards under Radio Equipment Directive & EMCD)
- Possibility to contribute to requests for new spectrum (ETSI System Reference Documents)
- Possibility to take part in defining technical spectrum regulations (representing an ETSI member in CEPT/ECC)
- Possibility to contribute to ETSI input to CEPT Decision making process
- Opportunity to contribute to ETSI work in partnership with the European Commission (TCAM, RSCOM, RSPG)
- Visibility of developing regulatory policy (ETSI RADIO\_BRIEFING list)



# Thank you for listening



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