



25 SHADES OF MOBILE STANDARDS UNDER THE RE-D

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AGENDA

➤ INTRODUCTION

- › MSG & TFES RESPONSIBILITIES & STRUCTURE
- › WAYS OF WORKING & EXTERNAL PARTNERSHIPS

➤ HENS UNDER R&TTE-DIRECTIVE

- › STATUS OF HENS UNDER R&TTE-D

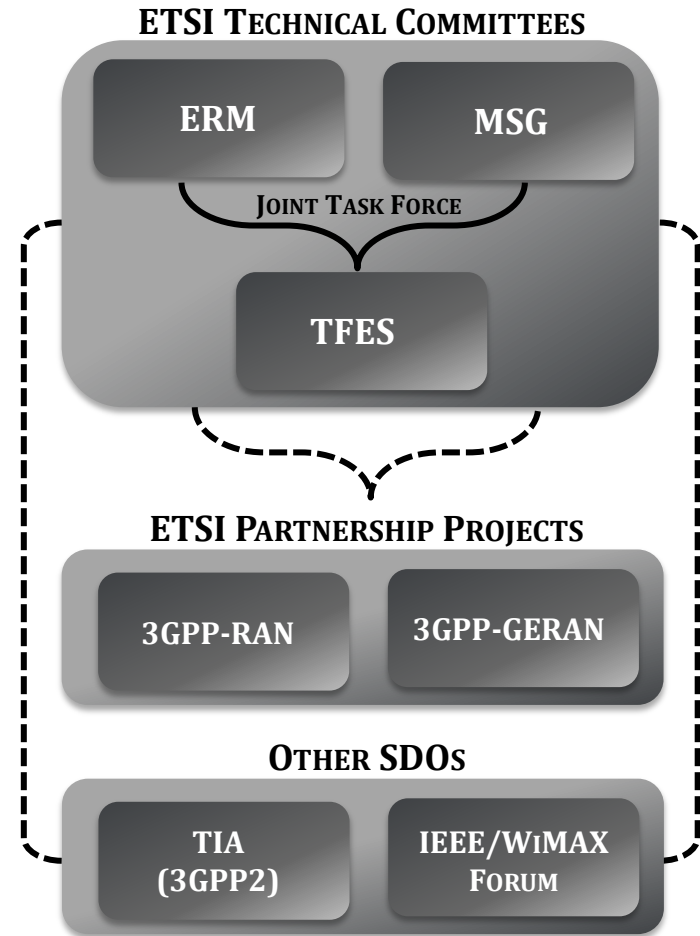
➤ IMPACT OF RE-DIRECTIVE

- › MAJOR CHANGES IN COMPARISON TO R&TTE-D
- › TRANSPOSITION OF HENS UNDER RE-D

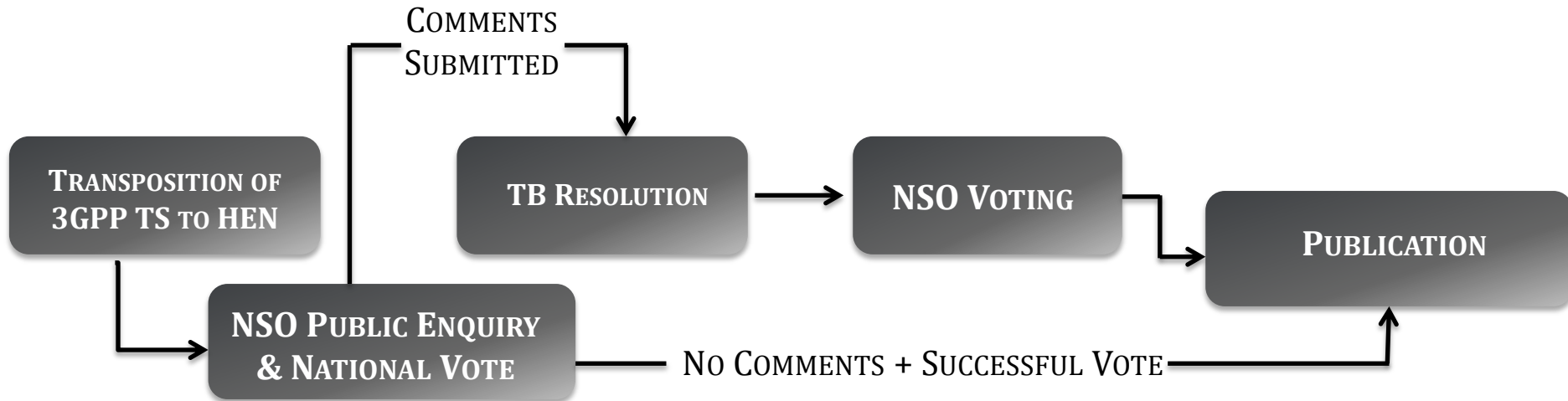
➤ SUMMARY

TC MSG, TFES & THE MOBILE STANDARDS

- MSG – MOBILE STANDARDS GROUP
- TFES – JOINT TC MSG/TC ERM TASK FORCE FOR THE PRODUCTION OF HARMONISED STANDARDS FOR THE IMT FAMILY
- RESPONSIBLE FOR 25 HENS & NUMEROUS TECHNICAL SPECIFICATIONS & REPORTS
- MAJOR FOCUS AREAS:
 - › GSM AND ITS EVOLUTIONS
 - › IMT SYSTEMS I.E. FOR ALL IMT FAMILY MEMBERS (INCLUDING IMT ADVANCED)
- OTHER TECHNOLOGIES & STANDARDS
 - › MOBILE COMMUNICATIONS EQUIPMENT ON AIRCRAFT (MCA)
 - › EMERGENCY CALLING (E-CALL) SPECIFICATIONS



WAYS OF WORKING & EXTERNAL PARTNERSHIPS



COLLABORATION AGREEMENTS & MEMORANDUM OF UNDERSTANDING	
PARTNERS	PARTNERS
ITU-R - SG 5 Terrestrial Services WP 5D – IMT Systems	CENELEC - Digital Dividend (CLC TC 210 and 209)
CCSA - Wireless Communications Technical Committee (TC5)	NGMN - NGMN Projects
ECC - ECC PT1 IMT matters SE21 Unwanted Emissions	GCF - Global Certification Forum Testing of mobile stations
ERA - ERTMS Control Command & Signaling Working Party	CEPT
ERTICO-ITS Europe - Test specifications for eCall	GISFI (Global ICT Standardization Forum for India)

HENs UNDER THE R&TTE-DIRECTIVE

- EXISTING/LEGACY HENs COMPLY WITH ARTICLE 3.2 OF THE R&TTE-DIRECTIVE (1999/5/EC)
- STANDARDIZED BASED ON EU COMMISSION MANDATE M/284
- DRAFTED BASED ON THE ETSI GUIDE EG 201 399
- THE RX REQUIREMENTS ARE **NOT** MANDATORY UNDER THE R&TTE-D

HARMONISED ENs IN MSG UNDER ARTICLE 3.2 OF THE R&TTE-DIRECTIVE

HARMONISED ENs IN MSG	ORIGIN	STATUS
EN 301 511 - Harmonised EN for Mobile Stations in the GSM 900 and GSM 1800 bands	3GPP (Rel-12)	Published & Cited in OJ
EN 301 502 - Harmonised EN for GSM Base Station Equipment	3GPP (Rel-12)	Published & Cited in OJ
EN 300 609-4 - Harmonised EN for GSM Repeaters	3GPP (Rel-10)	Published & Cited in OJ
EN 302 480 - Harmonised EN for the GSM onboard aircraft systems	3GPP (EN-301 502)	Published & Cited in OJ

HENS UNDER THE R&TTE-DIRECTIVE

HARMONISED ENS IN TFES UNDER ARTICLE 3.2 OF THE R&TTE-DIRECTIVE

ETSI EN 301 908 SERIES AND THE CORRESPONDING STANDARD PARTS		
HARMONISED ENS IN TFES	ORIGIN	STATUS
Part 1: Introduction and common requirements	3GPP (Rel-11)	Published & Cited in OJ
Part 2: CDMA Direct Spread (UTRA FDD) User Equipment (UE)	3GPP (Rel-11)	Under ENAP
Part 3: CDMA Direct Spread (UTRA FDD) Base Stations (BS)	3GPP (Rel-11)	Published & delivered to EC
Part 4: CDMA Multi Carrier (cdma2000) User Equipment (UE)	3GPP2	Published & Cited in OJ
Part 5: CDMA Multi Carrier (cdma2000) Base Stations (BS)	3GPP2	Published & Cited in OJ
Part 6: CDMA TDD (UTRA TDD) User Equipment (UE)	3GPP (Rel-9)	Published & Cited in OJ
Part 7: CDMA TDD (UTRA TDD) Base Stations (BS)	3GPP (Rel-9)	Published & Cited in OJ
Part 8: IMT-2000 TDMA Single Carrier (UWC 136) (UE)	ANSI/TIA/EIA	Published & Cited in OJ
Part 9: IMT-2000 TDMA Single Carrier (UWC 136) (BS)	ANSI/TIA/EIA	Published & Cited in OJ
Part 10: IMT-2000 FDMA/TDMA (DECT) – Handled in TC DECT	ETSI TC DECT	Published but not cited yet
Part 11: CDMA Direct Spread (UTRA FDD) (Repeaters)	3GPP (Rel-9)	Published & Cited in OJ



→ WORK COMPLETED, HEN PUBLISHED & CITED IN THE OJ



→ IN PROGRESS

HENs UNDER THE R&TTE-DIRECTIVE

HARMONISED ENs IN TFES UNDER ARTICLE 3.2 OF THE R&TTE-DIRECTIVE

HARMONISED ENs IN TFES	ORIGIN	STATUS
Part 12: IMT-2000 CDMA Multi Carrier (cdma2000) (Repeaters)	3GPP2	Published & Cited in OJ
Part 13: Evolved Universal Terrestrial Radio Access (E-UTRA) (UE)	3GPP (Rel-11)	Under NSO Vote
Part 14: Evolved Universal Terrestrial Radio Access (E-UTRA) (BS)	3GPP (Rel-11)	Published & deliv. to EC
Part 15: Evolved Universal Terrestrial Radio Access (E-UTRA FDD) (Repeaters)	3GPP (Rel-11)	Published & Cited in OJ
Part 16: IMT-2000 Evolved CDMA Multi-Carrier Ultra Mobile Broadband (UMB) (UE)	3GPP2	Published & Cited in OJ
Part 17: IMT-2000 Evolved CDMA Multi-Carrier Ultra Mobile Broadband (UMB) (BS)	3GPP2	Published & Cited in OJ
Part 18: E-UTRA, UTRA and GSM/EDGE Multi-Standard Radio (MSR) Base Stations (BS)	3GPP (Rel-11)	Published & Cited in OJ
Part 19: OFDMA TDD WMAN (Mobile WiMAX) TDD User Equipment (UE)	IEEE/WiMAX Forum	Published & Cited in OJ
Part 20: OFDMA TDD WMAN (Mobile WiMAX) TDD Base Stations (BS)	IEEE/WiMAX Forum	Published & Cited in OJ
Part 21: OFDMA TDD WMAN (Mobile WiMAX) FDD User Equipment (UE)	IEEE/WiMAX Forum	Published & Cited in OJ
Part 22: OFDMA TDD WMAN (Mobile WiMAX) FDD Base Stations (BS)	IEEE/WiMAX Forum	Published & Cited in OJ



→ WORK COMPLETED, HEN PUBLISHED & CITED IN THE OJ



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IMPACT OF THE RE-D ON HENS UNDER MSG &TFES

RX REQUIREMENTS IN THE RE-D

“Work undertaken under this standardisation request shall cover all the applicable essential requirements of Directive 2014/53/EU, namely:

...The modified essential requirement set out in Article 3(2), i.e. effective use of radio spectrum and support for the efficient use of radio spectrum so as to avoid harmful interference, which has introduced requirements on receiver performance.” (EC M/536)

LIST OF RX REQUIREMENTS TO BE INCLUDED IN HENS UNDER TC MSG & TFES * (EXAMPLE FROM EN 301 908-13)

ESSENTIAL PARAMETERS	CORRESPONDING TECHNICAL REQUIREMENTS	CORRESPONDING TEST SUITE
Receiver unwanted emissions in the spurious domain	4.2.10 Receiver spurious emissions	5.3.9
Receiver blocking	4.2.7 Receiver blocking characteristics	5.3.6
Receiver desensitization		
Receiver spurious response rejection	4.2.8 Receiver spurious response	5.3.7
Receiver radio-frequency intermodulation	4.2.9 Receiver intermodulation characteristics	5.3.8
Receiver adjacent signal selectivity	4.2.6 Receiver Adjacent Channel Selectivity (ACS)	5.3.5
Receiver sensitivity	4.2.12 Receiver reference sensitivity Level	5.3.11

*Note: Some of the RX requirements in the table above are also included in the existing HENs under the R&TTE-D

HENS UNDER THE RE-DIRECTIVE

- UPCOMING HENS TO COMPLY WITH ARTICLE 3.2 OF THE NEW RE-D (2014/53/EU)
- STANDARDIZED BASED ON THE NEW EU COMMISSION STANDARDIZATION REQUEST M/536
- DRAFTED BASED ON THE NEW ETSI GUIDE EG 203 336
- MANDATORY RX REQUIREMENTS UNDER THE RE-D

MSG - TRANSPOSITION OF HARMONISED ENs UNDER ARTICLE 3.2 OF THE RE-DIRECTIVE

HARMONISED EN IN MSG	ORIGIN	STATUS
EN 301 502 - Harmonised EN for GSM Base Station Equipment	3GPP (Rel-12)	Stable Draft available
EN 300 609 - Harmonised EN for GSM Repeaters	3GPP (Rel-12)	Stable Draft available
EN 301 511 - Harmonised EN for Mobile Stations in the GSM 900 and GSM 1800 bands	3GPP (Rel-12)	Not Started No Interest Received

 → ON TRACK

 → RISK OF HEN NOT BEING COVERED UNDER THE RE-D

HENs UNDER THE RE-DIRECTIVE

TFES - TRANSPOSITION OF HARMONISED ENs UNDER ARTICLE 3.2 OF THE RE-DIRECTIVE

HARMONISED ENs IN TFES	ORIGIN	STATUS
EN 302 480 - Harmonised EN for Mobile Communications equipment on Aircraft (MCA)	Based on relevant 3GPP standards	Stable Draft available
ETSI EN 301 908 SERIES AND THE CORRESPONDING STANDARD PARTS		
HARMONISED ENs IN TFES	ORIGIN	STATUS
Part 1: Introduction and common requirements	3GPP (Rel-11)	Stable Draft available
Part 2: CDMA Direct Spread (UTRA FDD) User Equipment (UE)	3GPP (Rel-11)	Under ENAP
Part 3: CDMA Direct Spread (UTRA FDD) Base Stations (BS)	3GPP (Rel-11)	Stable Draft available
Part 4: CDMA Multi Carrier (cdma2000) User Equipment (UE)	–	No Interest Received
Part 5: CDMA Multi Carrier (cdma2000) Base Stations (BS)	–	No Interest Received
Part 6: CDMA TDD (UTRA TDD) User Equipment (UE)	–	No Interest Received
Part 7: CDMA TDD (UTRA TDD) Base Stations (BS)	–	No Interest Received
Part 8: IMT-2000 TDMA Single Carrier (UWC 136) (UE)	–	No Interest Received
Part 9: IMT-2000 TDMA Single Carrier (UWC 136) (BS)	–	No Interest Received
Part 10: IMT-2000 FDMA/TDMA (DECT) – Handled in TC DECT	ETSI (DECT)	Published
Part 11: CDMA Direct Spread (UTRA FDD) (Repeaters)	3GPP (Rel-11)	Stable Draft available

HENS UNDER THE RE-DIRECTIVE

TFES - TRANSPOSITION OF HARMONISED ENS UNDER ARTICLE 3.2 OF THE RE-DIRECTIVE

HARMONISED ENS IN TFES	ORIGIN	STATUS
Part 12: IMT-2000 CDMA Multi Carrier (cdma2000) (Repeaters)	3GPP (Rel-11)	Stable Draft available
Part 13: Evolved Universal Terrestrial Radio Access (E-UTRA) (UE)	3GPP (Rel-11)	Under ENAP
Part 14: Evolved Universal Terrestrial Radio Access (E-UTRA) (BS)	3GPP (Rel-11)	Stable Draft available
Part 15: Evolved Universal Terrestrial Radio Access (E-UTRA FDD) (Repeaters)	3GPP (Rel-11)	Stable Draft available
Part 16: IMT-2000 Evolved CDMA Multi-Carrier Ultra Mobile Broadband (UMB) (UE)	–	No Interest Received
Part 17: IMT-2000 Evolved CDMA Multi-Carrier Ultra Mobile Broadband (UMB) (BS)	–	No Interest Received
Part 18: E-UTRA, UTRA and GSM/EDGE Multi-Standard Radio (MSR) Base Stations (BS)	3GPP (Rel-11)	Stable Draft available
Part 19: OFDMA TDD WMAN (Mobile WiMAX) TDD User Equipment (UE)	IEEE/WiMAX Forum	WI proposal Received
Part 20: OFDMA TDD WMAN (Mobile WiMAX) TDD Base Stations (BS)	IEEE/WiMAX Forum	WI proposal Received
Part 21: OFDMA TDD WMAN (Mobile WiMAX) FDD User Equipment (UE)	IEEE/WiMAX Forum	WI proposal Received
Part 22: OFDMA TDD WMAN (Mobile WiMAX) FDD Base Stations (BS)	IEEE/WiMAX Forum	WI proposal Received



→ ON TRACK



→ RISK OF HENS NOT MEETING THE PLANNED PUBLICATION DATE



→ RISK OF HENS NOT BEING COVERED UNDER RE-D

SUMMARY

- WORK ON TRANSPOSITION OF HENS UNDER RE-D IS IN FULL SWING
- SUPPORT NEEDED FOR SEVERAL PARTS OF EN 301 908 SERIES
 - PRODUCTS COMPLIANT TO HENS BASED ON R&TTE-DIRECTIVE CAN BE PLACED ON THE MARKET UNTIL JUNE 2017
- AGREEMENTS REACHED ON RX REQUIREMENTS COVERING ESSENTIAL PARAMETERS IN ETSI GUIDE EG 203 336
- ENAP PROCEDURE TO BE INITIATED FOR MOST HENS UNDER TRANSPOSITION IN DECEMBER 2015
- HENS THAT LACK SUPPORT FOR TRANSPOSITION TO RE-D:

1.	EN 301 511 - Harmonised EN for Mobile Stations in the GSM 900 and GSM 1800 bands
2.	EN 301 908 - Part 4: CDMA Multi Carrier (cdma2000) User Equipment (UE)
3.	EN 301 908 - Part 5: CDMA Multi Carrier (cdma2000) Base Stations (BS)
4.	EN 301 908 - Part 6: CDMA TDD (UTRA TDD) User Equipment (UE)
5.	EN 301 908 - Part 7: CDMA TDD (UTRA TDD) Base Stations (BS)
6.	EN 301 908 - Part 8: IMT-2000 TDMA Single Carrier (UWC 136) (UE)
7.	EN 301 908 - Part 9: IMT-2000 TDMA Single Carrier (UWC 136) (BS)
8.	EN 301 908 - Part 16: IMT-2000 Evolved CDMA Multi-Carrier Ultra Mobile Broadband (UMB) (UE)
9.	EN 301 908 - Part 17: IMT-2000 Evolved CDMA Multi-Carrier Ultra Mobile Broadband (UMB) (BS)

List of Officials

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Georges De Brito

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Vice Chairman - MSG
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THANK YOU!

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