



**IMT cellular networks;  
Harmonized EN covering the essential requirements of  
article 3.2 of the R&TTE Directive;  
Part 18: E-UTRA, UTRA and GSM/EDGE  
Multi-Standard Radio (MSR) Base Station (BS)**

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# Contents

|                                                                                  |    |
|----------------------------------------------------------------------------------|----|
| Intellectual Property Rights .....                                               | 6  |
| Foreword.....                                                                    | 6  |
| Introduction .....                                                               | 6  |
| 1 Scope .....                                                                    | 7  |
| 2 References .....                                                               | 7  |
| 2.1 Normative references .....                                                   | 8  |
| 2.2 Informative references.....                                                  | 9  |
| 3 Definitions, symbols and abbreviations .....                                   | 9  |
| 3.1 Definitions.....                                                             | 9  |
| 3.2 Symbols.....                                                                 | 11 |
| 3.3 Abbreviations .....                                                          | 11 |
| 4 Technical requirements specifications .....                                    | 12 |
| 4.1 Environmental profile.....                                                   | 12 |
| 4.2 Conformance requirements .....                                               | 12 |
| 4.2.1 Introduction.....                                                          | 13 |
| 4.2.2 Operating band unwanted emissions .....                                    | 14 |
| 4.2.2.1 Definition .....                                                         | 14 |
| 4.2.2.2 Limits .....                                                             | 14 |
| 4.2.2.2.1 Limits for Band Categories 1 and 3.....                                | 14 |
| 4.2.2.2.2 Limits for Band Category 2.....                                        | 15 |
| 4.2.2.2.3 Limits for GSM/EDGE single-RAT operation.....                          | 16 |
| 4.2.2.2.4 Limits for protection of DTT.....                                      | 16 |
| 4.2.2.2.5 Limits for co-existence with services in adjacent frequency bands..... | 17 |
| 4.2.2.3 Conformance.....                                                         | 17 |
| 4.2.3 Adjacent Channel Leakage power Ratio (ACLR) .....                          | 17 |
| 4.2.3.1 Definition .....                                                         | 17 |
| 4.2.3.2 Limits .....                                                             | 17 |
| 4.2.3.2.1 E-UTRA limits .....                                                    | 17 |
| 4.2.3.2.2 UTRA FDD limits.....                                                   | 18 |
| 4.2.3.2.3 UTRA TDD limits.....                                                   | 18 |
| 4.2.3.2.4 Cumulative ACLR requirement in non-contiguous spectrum .....           | 18 |
| 4.2.3.3 Conformance.....                                                         | 19 |
| 4.2.4 Transmitter spurious emissions.....                                        | 19 |
| 4.2.4.1 Limits .....                                                             | 19 |
| 4.2.4.1.1 Spurious emissions .....                                               | 19 |
| 4.2.4.1.2 Additional spurious emissions requirement for BC2.....                 | 19 |
| 4.2.4.1.3 Co-existence with other systems .....                                  | 19 |
| 4.2.4.1.4 Protection of the BS receiver of own or different BS .....             | 21 |
| 4.2.4.2 Conformance.....                                                         | 21 |
| 4.2.5 Base station maximum output power.....                                     | 21 |
| 4.2.5.1 Definition .....                                                         | 21 |
| 4.2.5.2 Limits .....                                                             | 21 |
| 4.2.5.3 Conformance.....                                                         | 22 |
| 4.2.6 Transmit intermodulation .....                                             | 22 |
| 4.2.6.1 Definition .....                                                         | 22 |
| 4.2.6.2 Limits .....                                                             | 22 |
| 4.2.6.2.1 General limits .....                                                   | 22 |
| 4.2.6.2.2 Additional limits (BC1 and BC2).....                                   | 22 |
| 4.2.6.2.3 Additional limits (BC3).....                                           | 23 |
| 4.2.6.3 Conformance.....                                                         | 23 |
| 4.2.7 Receiver spurious emissions .....                                          | 23 |
| 4.2.7.1 Definition .....                                                         | 23 |
| 4.2.7.2 Limits .....                                                             | 24 |

|            |                                                                   |    |
|------------|-------------------------------------------------------------------|----|
| 4.2.7.2.1  | General limits .....                                              | 24 |
| 4.2.7.2.2  | Additional limits for BC2 .....                                   | 24 |
| 4.2.7.3    | Conformance.....                                                  | 24 |
| 4.2.8      | In-band blocking.....                                             | 24 |
| 4.2.8.1    | Definition .....                                                  | 24 |
| 4.2.8.2    | Limits .....                                                      | 24 |
| 4.2.8.2.1  | General limits .....                                              | 24 |
| 4.2.8.2.2  | Additional BC3 blocking limits.....                               | 25 |
| 4.2.8.3    | Conformance.....                                                  | 26 |
| 4.2.9      | Out-of-band blocking.....                                         | 26 |
| 4.2.9.1    | Definition .....                                                  | 26 |
| 4.2.9.2    | Limits .....                                                      | 26 |
| 4.2.9.3    | Conformance.....                                                  | 26 |
| 4.2.10     | Receiver intermodulation characteristics .....                    | 27 |
| 4.2.10.1   | Definition .....                                                  | 27 |
| 4.2.10.2   | Limits .....                                                      | 27 |
| 4.2.10.2.1 | General intermodulation limits.....                               | 27 |
| 4.2.10.2.2 | General narrowband intermodulation limits .....                   | 28 |
| 4.2.10.2.3 | Additional narrowband intermodulation limits for GSM/EDGE.....    | 29 |
| 4.2.10.3   | Conformance.....                                                  | 29 |
| 4.2.11     | Narrowband blocking .....                                         | 29 |
| 4.2.11.1   | Definition .....                                                  | 29 |
| 4.2.11.2   | Limits .....                                                      | 30 |
| 4.2.11.2.1 | General limits .....                                              | 30 |
| 4.2.11.2.2 | Additional limits for GSM/EDGE.....                               | 30 |
| 4.2.11.2.3 | GSM/EDGE limits for AM suppression.....                           | 30 |
| 4.2.11.3   | Conformance.....                                                  | 30 |
| 5          | Testing for compliance with technical requirements.....           | 31 |
| 5.1        | Environmental conditions for testing .....                        | 31 |
| 5.2        | Interpretation of the measurement results .....                   | 31 |
| 5.3        | Essential radio test suites.....                                  | 32 |
| 5.3.1      | Operating band unwanted emissions .....                           | 32 |
| 5.3.1.1    | Initial conditions .....                                          | 33 |
| 5.3.1.2    | Procedure .....                                                   | 33 |
| 5.3.1.3    | Test requirement .....                                            | 33 |
| 5.3.2      | Adjacent Channel Leakage power Ratio (ACLR) .....                 | 33 |
| 5.3.2.1    | Initial conditions .....                                          | 34 |
| 5.3.2.2    | Procedure .....                                                   | 34 |
| 5.3.2.3    | Test requirement .....                                            | 34 |
| 5.3.3      | Transmitter spurious emissions.....                               | 34 |
| 5.3.3.1    | Initial conditions .....                                          | 34 |
| 5.3.3.2    | Procedure .....                                                   | 34 |
| 5.3.3.3    | Test requirement .....                                            | 34 |
| 5.3.4      | Base station maximum output power.....                            | 35 |
| 5.3.4.1    | Initial conditions .....                                          | 35 |
| 5.3.4.2    | Procedure .....                                                   | 35 |
| 5.3.4.3    | Test requirement .....                                            | 35 |
| 5.3.5      | Transmit intermodulation .....                                    | 35 |
| 5.3.5.1    | Initial conditions .....                                          | 35 |
| 5.3.5.2    | Procedure .....                                                   | 35 |
| 5.3.5.2.1  | General minimum requirement test procedure .....                  | 35 |
| 5.3.5.2.2  | Additional minimum requirement (BC1 and BC2) test procedure ..... | 36 |
| 5.3.5.2.3  | Additional minimum requirement (BC3) test procedure .....         | 37 |
| 5.3.5.3    | Test requirement .....                                            | 37 |
| 5.3.6      | Receiver spurious emissions .....                                 | 38 |
| 5.3.6.1    | Initial conditions .....                                          | 38 |
| 5.3.6.2    | Procedure .....                                                   | 38 |
| 5.3.6.3    | Test requirement .....                                            | 38 |
| 5.3.7      | In-band blocking.....                                             | 38 |
| 5.3.7.1    | Initial conditions .....                                          | 38 |
| 5.3.7.2    | Procedure .....                                                   | 38 |

|            |                                                                        |    |
|------------|------------------------------------------------------------------------|----|
| 5.3.7.2.1  | Procedure for general blocking.....                                    | 38 |
| 5.3.7.2.2  | Procedure for additional BC3 blocking requirement.....                 | 39 |
| 5.3.7.3    | Test requirement .....                                                 | 39 |
| 5.3.8      | Out-of-band blocking.....                                              | 39 |
| 5.3.8.1    | Initial conditions .....                                               | 39 |
| 5.3.8.2    | Procedure .....                                                        | 39 |
| 5.3.8.3    | Test requirement .....                                                 | 39 |
| 5.3.9      | Receiver intermodulation characteristics .....                         | 39 |
| 5.3.9.1    | Initial conditions .....                                               | 39 |
| 5.3.9.2    | Procedure .....                                                        | 40 |
| 5.3.9.2.1  | Procedure for general and narrowband intermodulation .....             | 40 |
| 5.3.9.2.2  | Procedure for additional narrowband intermodulation for GSM/EDGE ..... | 40 |
| 5.3.9.3    | Test requirement .....                                                 | 40 |
| 5.3.10     | Narrowband blocking .....                                              | 40 |
| 5.3.10.1   | Initial conditions .....                                               | 40 |
| 5.3.10.2   | Procedure .....                                                        | 40 |
| 5.3.10.2.1 | Procedure for narrowband blocking .....                                | 40 |
| 5.3.10.2.2 | Procedure for additional narrowband blocking for GSM/EDGE.....         | 41 |
| 5.3.10.2.3 | Procedure for GSM/EDGE AM suppression.....                             | 41 |
| 5.3.10.3   | Test requirement .....                                                 | 41 |

|                             |                                                                                |           |
|-----------------------------|--------------------------------------------------------------------------------|-----------|
| <b>Annex A (normative):</b> | <b>HS Requirements and conformance Test specifications Table (HS-RTT).....</b> | <b>42</b> |
|-----------------------------|--------------------------------------------------------------------------------|-----------|

|                             |                                         |           |
|-----------------------------|-----------------------------------------|-----------|
| <b>Annex B (normative):</b> | <b>Base Station configurations.....</b> | <b>44</b> |
|-----------------------------|-----------------------------------------|-----------|

|       |                                                                                  |    |
|-------|----------------------------------------------------------------------------------|----|
| B.1   | Reception with multiple receiver antenna connectors and receiver diversity ..... | 44 |
| B.2   | Duplexers .....                                                                  | 44 |
| B.3   | Power supply options .....                                                       | 44 |
| B.4   | Ancillary RF amplifiers.....                                                     | 44 |
| B.5   | BS using antenna arrays .....                                                    | 45 |
| B.5.1 | Receiver tests.....                                                              | 45 |
| B.5.2 | Transmitter tests .....                                                          | 46 |
| B.6   | Transmission with multiple transmitter antenna connectors .....                  | 46 |
| B.7   | BS with integrated Luant BS modem.....                                           | 46 |

|                               |                                                  |           |
|-------------------------------|--------------------------------------------------|-----------|
| <b>Annex C (informative):</b> | <b>Environmental profile specification .....</b> | <b>47</b> |
|-------------------------------|--------------------------------------------------|-----------|

|                               |                   |           |
|-------------------------------|-------------------|-----------|
| <b>Annex D (informative):</b> | <b>Void .....</b> | <b>48</b> |
|-------------------------------|-------------------|-----------|

|                               |                          |           |
|-------------------------------|--------------------------|-----------|
| <b>Annex E (informative):</b> | <b>Bibliography.....</b> | <b>49</b> |
|-------------------------------|--------------------------|-----------|

|               |    |
|---------------|----|
| History ..... | 50 |
|---------------|----|

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## Foreword

This final draft Harmonized European Standard (EN) has been produced by ETSI Technical Committee Mobile Standards Group (MSG), and is now submitted for the Vote phase of the ETSI standards Two-step Approval Procedure.

The present document has been produced by ETSI in response to a mandate from the European Commission issued under Directive 98/34/EC [i.1] as amended by Directive 98/48/EC [i.6].

The title and reference to the present document are intended to be included in the publication in the Official Journal of the European Union of titles and references of Harmonized Standard under the Directive 1999/5/EC [i.2].

See article 5.1 of Directive 1999/5/EC [i.2] for information on presumption of conformity and Harmonised Standards or parts thereof the references of which have been published in the Official Journal of the European Union.

The requirements relevant to Directive 1999/5/EC [i.2] are summarised in annex A.

The present document is part 18 of a multi-part deliverable. Full details of the entire series can be found in part 1 [1].

### Proposed national transposition dates

|                                                                                        |                                 |
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| Date of latest announcement of this EN (doa):                                          | 3 months after ETSI publication |
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## Introduction

The present document is part of a set of standards developed by ETSI and is designed to fit in a modular structure to cover all radio and telecommunications terminal equipment within the scope of the R&TTE Directive [i.2]. The modular structure is shown in EG 201 399 [i.3].

# 1 Scope

The present document applies to the following radio equipment type:

- 1) Multi-Standard Radio capable Base stations (E-UTRA, UTRA, GSM/EDGE).

These radio equipment types are capable of operating in all or any part of the frequency bands given in table 1-1.

**Table 1-1: Base station operating bands**

| Band designation and Band Category | Direction of transmission | MSR Base Station operating bands |
|------------------------------------|---------------------------|----------------------------------|
| 1 (BC1)                            | Transmit                  | 2 110 MHz to 2 170 MHz           |
|                                    | Receive                   | 1 920 MHz to 1 980 MHz           |
| 3 (BC2)                            | Transmit                  | 1 805 MHz to 1 880 MHz           |
|                                    | Receive                   | 1 710 MHz to 1 785 MHz           |
| 7 (BC1)                            | Transmit                  | 2 620 MHz to 2 690 MHz           |
|                                    | Receive                   | 2 500 MHz to 2 570 MHz           |
| 8 (BC2)                            | Transmit                  | 925 MHz to 960 MHz               |
|                                    | Receive                   | 880 MHz to 915 MHz               |
| 20 (BC1)                           | Transmit                  | 791 MHz to 821 MHz               |
|                                    | Receive                   | 832 MHz to 862 MHz               |
| 22 (BC1)                           | Transmit                  | 3 510 MHz to 3 590 MHz           |
|                                    | Receive                   | 3 410 MHz to 3 490 MHz           |
| 33 (BC3)                           | Transmit and Receive      | 1 900 MHz to 1 920 MHz           |
| 34 (BC3)                           | Transmit and Receive      | 2 010 MHz to 2 025 MHz           |
| 38 (BC3)                           | Transmit and Receive      | 2 570 MHz to 2 620 MHz           |
| 40 (BC3)                           | Transmit and Receive      | 2 300 MHz to 2 400 MHz           |
| 42 (BC3)                           | Transmit and Receive      | 3 400 MHz to 3 600 MHz           |
| 43 (BC3)                           | Transmit and Receive      | 3 600 MHz to 3 800 MHz           |

The present document covers requirements for multi-RAT capable E-UTRA, UTRA and GSM/EDGE MSR Base Stations for 3GPP Release 9 and 10.

The present document is intended to cover the provisions of Directive 1999/5/EC (R&TTE Directive) [i.2], Article 3.2, which states that "... radio equipment shall be so constructed that it effectively uses the spectrum allocated to terrestrial/space radio communications and orbital resources so as to avoid harmful interference".

In addition to the present document, other ENs that specify technical requirements in respect of essential requirements under other parts of article 3 of the R&TTE Directive [i.2] may apply to equipment within the scope of the present document.

NOTE: A list of such ENs is included on the web site <http://www.newapproach.org>.

# 2 References

References are either specific (identified by date of publication and/or edition number or version number) or non-specific. For specific references, only the cited version applies. For non-specific references, the latest version of the reference document (including any amendments) applies.

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