

ETSI TS 125 461 V13.2.0 (2019-05)



**Universal Mobile Telecommunications System (UMTS);
UTRAN Iuant interface: Layer 1
(3GPP TS 25.461 version 13.2.0 Release 13)**



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KeywordsUMTS

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Foreword

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Version x.y.z

where:

- x the first digit:
 - 1 presented to TSG for information;
 - 2 presented to TSG for approval;
 - 3 or greater indicates TSG approved document under change control.
- y the second digit is incremented for all changes of substance, i.e. technical enhancements, corrections, updates, etc.
- z the third digit is incremented when editorial only changes have been incorporated in the document.

1 Scope

See TS 37.461 [4].

2 References

The following documents contain provisions which, through reference in this text, constitute provisions of the present document.

- References are either specific (identified by date of publication, edition number, version number, etc.) or non-specific.
- For a specific reference, subsequent revisions do not apply.
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[1]-[3] Void.

[4] 3GPP TS 37.461: "Iuant interface: Layer 1".

3 to 4 Void

5 Iuant interface: Layer 1

See TS 37.461 [4].

Annex A:
Void

Annex B (informative): Change history

| Change history | | | | | | | |
|----------------|------------|-----------|-----|-----|--|--------|--------|
| Date | TSG # | TSG Doc. | CR | Rev | Subject/Comment | Old | New |
| September 2004 | TSG-RAN#25 | RP-040344 | - | - | presentation to TSG-RAN for information | - | 1.0.0 |
| September 2004 | TSG-RAN#25 | RP-040344 | - | - | approved at TSG-RAN#25 and placed under change control | 1.0.0 | 6.0.0 |
| 12/2004 | 26 | RP-040444 | 1 | | DC power supply distribution | 6.0.0 | 6.1.0 |
| 12/2004 | 26 | RP-040444 | 2 | 1 | Improved demodulator characteristics specification | 6.0.0 | 6.1.0 |
| 12/2004 | 26 | RP-040444 | 3 | - | Requirements missing for when the RS485 bus shall not be driven by the secondary device | 6.0.0 | 6.1.0 |
| 12/2004 | 26 | RP-040444 | 4 | 1 | RET DC power consumption modes | 6.0.0 | 6.1.0 |
| 12/2004 | 26 | RP-040444 | 5 | - | Minor Corrections and editorial changes to 25.461 | 6.0.0 | 6.1.0 |
| 03/2005 | 27 | RP-050061 | 7 | 1 | Minor Corrections and editorial changes to 25.461 | 6.1.0 | 6.2.0 |
| 03/2005 | 27 | RP-050061 | 8 | 1 | Power consumption clarification of RET | 6.1.0 | 6.2.0 |
| 03/2005 | 27 | RP-050061 | 9 | | Modem Operating Bands | 6.1.0 | 6.2.0 |
| 03/2005 | 27 | RP-050061 | 10 | | Modem Return loss | 6.1.0 | 6.2.0 |
| 03/2005 | 27 | RP-050061 | 11 | | Modem Time Delay and Accuracy | 6.1.0 | 6.2.0 |
| 03/2005 | 27 | RP-050061 | 12 | | Modem Insertion Loss | 6.1.0 | 6.2.0 |
| 06/2005 | 28 | RP-050237 | 13 | 1 | DC power on sequence | 6.2.0 | 6.3.0 |
| 06/2005 | 28 | RP-050237 | 15 | - | BS Modem and RET Modem Filtering | 6.2.0 | 6.3.0 |
| 06/2005 | 28 | RP-050237 | 16 | - | BS Modem and RET modem spectrum emission mode | 6.2.0 | 6.3.0 |
| 06/2005 | 28 | RP-050237 | 17 | - | BS modem and RET modem return loss at modem frequency | 6.2.0 | 6.3.0 |
| 06/2005 | 28 | RP-050237 | 18 | - | Time delay clarification | 6.2.0 | 6.3.0 |
| 06/2005 | 28 | RP-050226 | 19 | - | Introduction of UMTS2600 requirements | 6.3.0 | 7.0.0 |
| 09/2005 | 29 | RP-050438 | 21 | 1 | Power-Up period clarifications | 7.0.0 | 7.1.0 |
| 09/2005 | 29 | RP-050438 | 23 | | Insertion loss for RET | 7.0.0 | 7.1.0 |
| 09/2005 | 29 | RP-050438 | 25 | | Testing for RET | 7.0.0 | 7.1.0 |
| 09/2005 | 29 | RP-050438 | 27 | | Time delay for RET | 7.0.0 | 7.1.0 |
| 09/2005 | 29 | RP-050438 | 29 | | Intermodulation attenuation for RET | 7.0.0 | 7.1.0 |
| 09/2005 | 29 | RP-050438 | 31 | | BS and RET modem isolation | 7.0.0 | 7.1.0 |
| 12/2005 | 30 | RP-050704 | 32 | 1 | Introduction of UMTS 1700 requirements | 7.1.0 | 7.2.0 |
| 12/2005 | 30 | RP-050703 | 33 | | Introduction of UMTS 900 | 7.1.0 | 7.2.0 |
| 12/2005 | 30 | RP-050689 | 35 | | Test Procedures | 7.1.0 | 7.2.0 |
| 12/2005 | 30 | RP-050689 | 37 | | Correction to modem isolation and emission | 7.1.0 | 7.2.0 |
| 12/2005 | 30 | RP-050689 | 39 | | correction of referencing | 7.1.0 | 7.2.0 |
| 12/2005 | 30 | RP-050689 | 41 | 1 | RET Control Unit spurious emission simplified version | 7.1.0 | 7.2.0 |
| 12/2006 | 34 | RP-060704 | 42 | | Introduction of Band X (Extended UMTS 1.7/2.1 GHz) | 7.2.0 | 7.3.0 |
| 03/2007 | 35 | RP-070058 | 44 | 1 | Update of DC Power Supply Requirements | 7.3.0 | 7.4.0 |
| 03/2007 | 35 | RP-070058 | 45 | | Tower Mounted Amplifier amendment | 7.3.0 | 7.4.0 |
| 06/2007 | 36 | RP-070323 | 47 | | Word alignment of station-device | 7.4.0 | 7.5.0 |
| 09/2007 | 37 | RP-070576 | 48 | | Introduction of UMTS1500 requirement | 7.5.0 | 8.0.0 |
| 03/2008 | 39 | RP-080082 | 49 | 1 | Introduction of UMTS 700 MHz (Bands XII XIV) | 8.0.0 | 8.1.0 |
| 09/2009 | 45 | RP-090822 | 51 | | Introduction of E-UTRA operating bands | 8.1.0 | |
| | | RP-090826 | 53 | 1 | Introduction of the extended UMTS/LTE 800 MHz bands | | 9.0.0 |
| 09/2009 | 46 | RP-091185 | 54 | 1 | Introduction of Extended UMTS/LTE1500 requirements for TS25.461 | 9.0.0 | 9.1.0 |
| 03/2010 | 47 | RP-100223 | 58 | | Introduction of UMTS/LTE in 800 MHz for Europe requirements in TS 25.461 | 9.1.0 | 9.2.0 |
| 09/2010 | 49 | RP-100912 | 59 | - | Spectrum band definition additions for TDD 2600 MHz | 9.2.0 | 10.0.0 |
| 12/2010 | 50 | RP-101361 | 59a | 1 | Introduction of L-band in TS 25.461 | 10.0.0 | 10.1.0 |
| 12/2010 | 50 | RP-101278 | 61 | 2 | CR UMTS/LTE-3500 spectrum band definition additions for TDD Luant interface to TS 25.461 | 10.0.0 | 10.1.0 |
| 12/2010 | 50 | RP-101334 | 66 | | Band XII channel arrangement correction on 25.461 | 10.0.0 | 10.1.0 |
| 03/2011 | SP-49 | SP-100629 | | | Clarification on the use of References (TS 21.801 CR#0030) | 10.1.0 | 10.1.1 |
| 06/2011 | 52 | RP-110699 | 70 | | Add 2 GHz band LTE for ATC of MSS in North America to TS25.461 (Rel-10) | 10.1.1 | 10.2.0 |
| 06/2011 | 52 | RP-110696 | 71 | | Add Expanded 1900 MHz Band for UTRA and LTE to TS25.461 (Rel-10) | 10.1.1 | 10.2.0 |
| 06/2011 | 52 | RP-110685 | 73 | | Removal of unused references | 10.1.1 | 10.2.0 |
| 12/2011 | 54 | RP-111733 | 76 | | Removal of references to operating bands i) and h) | 10.2.0 | 10.3.0 |
| 03.2012 | 55 | | | | Creation of Rel-11 version based on v. 10.3.0 | 10.3.0 | 11.0.0 |
| 03/2012 | 55 | RP-120235 | 78 | | Addition of new Band 26 for E850 | 10.3.0 | 11.0.0 |
| 06/2012 | 56 | RP-120749 | 79 | 1 | Introduction of E850_LB (Band 27) to TS 25.461 | 11.0.0 | 11.1.0 |
| 06/2012 | 56 | RP-120750 | 80 | - | Introduction of Band 28 | 11.0.0 | 11.1.0 |
| 06/2012 | 56 | RP-120750 | 81 | - | Introduction of Band 44 | 11.0.0 | 11.1.0 |
| 12/2012 | 58 | RP-121736 | 82 | - | Introduction of band 22 in TS 25.461 | 11.1.0 | 11.2.0 |
| 12/2012 | 58 | RP-121735 | 83 | 1 | Introduction of Band 29 into TS 25.461 | 11.1.0 | 11.2.0 |
| 12/2013 | 62 | RP-131903 | 84 | 1 | Introduction of LTE 450 MHz | 11.2.0 | 12.0.0 |
| 12/2013 | 62 | RP-131904 | 85 | 1 | Introduction of Band 30 | 11.2.0 | 12.0.0 |
| 06/2014 | 64 | RP-140900 | 87 | - | Introduction of Band 32, XXXII | 12.0.0 | 12.1.0 |
| 12/2015 | 70 | RP-152105 | 91 | - | Introduction of band 65 | 12.1.0 | 13.0.0 |
| 12/2015 | 70 | RP-152106 | 92 | - | Introduction of band 66 | 12.1.0 | 13.0.0 |

| Change history | | | | | | | |
|----------------|-------|-----------|----|-----|--------------------------------------|--------|--------|
| Date | TSG # | TSG Doc. | CR | Rev | Subject/Comment | Old | New |
| 12/2015 | 70 | RP-152104 | 93 | - | Introduction of band 67 | 12.1.0 | 13.0.0 |
| 12/2015 | 70 | RP-152107 | 94 | 1 | Introduction of band 45 in 25.461 | 12.1.0 | 13.0.0 |
| 03/2016 | 71 | RP-160446 | 95 | - | Introduction of Band 68 into 25.461 | 13.0.0 | 13.1.0 |
| 03/2016 | 71 | RP-160450 | 96 | 1 | Introduction of Band 46 in TS 25.461 | 13.0.0 | 13.1.0 |

| Change history | | | | | | | |
|----------------|---------|-----------|------|-----|-----|--|-------------|
| Date | Meeting | TDoc | CR | Rev | Cat | Subject/Comment | New version |
| 2019-04 | RAN#83 | RP-190557 | 0118 | - | F | Transfer of luan interface specification from 25-series to 37-series | 13.2.0 |

History

| Document history | | |
|-------------------------|--------------|-------------|
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| V13.1.0 | May 2016 | Publication |
| V13.2.0 | May 2019 | Publication |
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