



TECHNICAL SPECIFICATION

**LTE;
5G;
5GS;**
**User Equipment (UE) conformance specification;
Part 1: Common test environment
(3GPP TS 38.508-1 version 19.2.0 Release 19)**



Reference

RTS/TSGR-0538508-1v20

Keywords

5G,LTE

ETSI

650 Route des Lucioles
F-06921 Sophia Antipolis Cedex - FRANCE

Tel.: +33 4 92 94 42 00 Fax: +33 4 93 65 47 16

Siret N° 348 623 562 00017 - APE 7112B
Association à but non lucratif enregistrée à la
Sous-Préfecture de Grasse (06) N° w061004871

Important notice

The present document can be downloaded from the
[ETSI Search & Browse Standards](#) application.

The present document may be made available in electronic versions and/or in print. The content of any electronic and/or print versions of the present document shall not be modified without the prior written authorization of ETSI. In case of any existing or perceived difference in contents between such versions and/or in print, the prevailing version of an ETSI deliverable is the one made publicly available in PDF format on [ETSI deliver](#) repository.

Users should be aware that the present document may be revised or have its status changed, this information is available in the [Milestones listing](#).

If you find errors in the present document, please send your comments to the relevant service listed under [Committee Support Staff](#).

If you find a security vulnerability in the present document, please report it through our [Coordinated Vulnerability Disclosure \(CVD\)](#) program.

Notice of disclaimer & limitation of liability

The information provided in the present deliverable is directed solely to professionals who have the appropriate degree of experience to understand and interpret its content in accordance with generally accepted engineering or other professional standard and applicable regulations.

No recommendation as to products and services or vendors is made or should be implied.

No representation or warranty is made that this deliverable is technically accurate or sufficient or conforms to any law and/or governmental rule and/or regulation and further, no representation or warranty is made of merchantability or fitness for any particular purpose or against infringement of intellectual property rights.

In no event shall ETSI be held liable for loss of profits or any other incidental or consequential damages.

Any software contained in this deliverable is provided "AS IS" with no warranties, express or implied, including but not limited to, the warranties of merchantability, fitness for a particular purpose and non-infringement of intellectual property rights and ETSI shall not be held liable in any event for any damages whatsoever (including, without limitation, damages for loss of profits, business interruption, loss of information, or any other pecuniary loss) arising out of or related to the use of or inability to use the software.

Copyright Notification

No part may be reproduced or utilized in any form or by any means, electronic or mechanical, including photocopying and microfilm except as authorized by written permission of ETSI.

The content of the PDF version shall not be modified without the written authorization of ETSI.

The copyright and the foregoing restriction extend to reproduction in all media.

© ETSI 2026.
All rights reserved.

Intellectual Property Rights

Essential patents

IPRs essential or potentially essential to normative deliverables may have been declared to ETSI. The declarations pertaining to these essential IPRs, if any, are publicly available for **ETSI members and non-members**, and can be found in ETSI SR 000 314: "*Intellectual Property Rights (IPRs); Essential, or potentially Essential, IPRs notified to ETSI in respect of ETSI standards*", which is available from the ETSI Secretariat. Latest updates are available on the [ETSI IPR online database](#).

Pursuant to the ETSI Directives including the ETSI IPR Policy, no investigation regarding the essentiality of IPRs, including IPR searches, has been carried out by ETSI. No guarantee can be given as to the existence of other IPRs not referenced in ETSI SR 000 314 (or the updates on the ETSI Web server) which are, or may be, or may become, essential to the present document.

Trademarks

The present document may include trademarks and/or tradenames which are asserted and/or registered by their owners. ETSI claims no ownership of these except for any which are indicated as being the property of ETSI, and conveys no right to use or reproduce any trademark and/or tradename. Mention of those trademarks in the present document does not constitute an endorsement by ETSI of products, services or organizations associated with those trademarks.

DECT™, **PLUGTESTS™**, **UMTS™** and the ETSI logo are trademarks of ETSI registered for the benefit of its Members. **3GPP™**, **LTE™** and **5G™** logo are trademarks of ETSI registered for the benefit of its Members and of the 3GPP Organizational Partners. **oneM2M™** logo is a trademark of ETSI registered for the benefit of its Members and of the oneM2M Partners. **GSM®** and the GSM logo are trademarks registered and owned by the GSM Association.

Legal Notice

This Technical Specification (TS) has been produced by the ETSI 3rd Generation Partnership Project (3GPP).

The present document may refer to technical specifications or reports using their 3GPP identities. These shall be interpreted as being references to the corresponding ETSI deliverables.

The cross reference between 3GPP and ETSI identities can be found at [3GPP to ETSI numbering cross-referencing](#).

Modal verbs terminology

In the present document "**shall**", "**shall not**", "**should**", "**should not**", "**may**", "**need not**", "**will**", "**will not**", "**can**" and "**cannot**" are to be interpreted as described in clause 3.2 of the [ETSI Drafting Rules](#) (Verbal forms for the expression of provisions).

"**must**" and "**must not**" are **NOT** allowed in ETSI deliverables except when used in direct citation.

Contents

| | |
|--|-----|
| Intellectual Property Rights | 2 |
| Legal Notice | 2 |
| Modal verbs terminology..... | 2 |
| Foreword..... | 37 |
| 1 Scope | 38 |
| 2 References | 38 |
| 3 Definitions, symbols and abbreviations | 41 |
| 3.1 Definitions | 41 |
| 3.2 Symbols..... | 41 |
| 3.3 Abbreviations | 41 |
| 4 Common test environments..... | 41 |
| 4.1 Environmental conditions..... | 41 |
| 4.1.1 Temperature..... | 41 |
| 4.1.2 Voltage..... | 42 |
| 4.2 Common requirements of test equipment..... | 43 |
| 4.2.1 General functional requirements..... | 43 |
| 4.2.2 Minimum functional requirements | 44 |
| 4.2.2.1 Supported Cell Configuration | 44 |
| 4.2.2.1.1 Supported Channels for an E-UTRA cell (NSA mode only)..... | 44 |
| 4.2.2.1.2 Supported Channels for a NR cell | 44 |
| 4.2.2.1.2.1 Logical channels | 44 |
| 4.2.2.1.2.2 Transport channels | 44 |
| 4.2.2.1.2.3 Physical channels | 44 |
| 4.2.2.1.2.4 Physical signals..... | 45 |
| 4.3 Reference test conditions..... | 45 |
| 4.3.1 Test frequencies | 45 |
| 4.3.1.0 General | 45 |
| 4.3.1.0A Mid test channel bandwidth | 45 |
| 4.3.1.0B Low test channel bandwidth..... | 48 |
| 4.3.1.0C High test channel bandwidth..... | 51 |
| 4.3.1.0D Bandwidth part..... | 53 |
| 4.3.1.0E Void..... | 55 |
| 4.3.1.1 Test frequencies for NR operating bands in FR1 | 56 |
| 4.3.1.1.1 NR operating bands in FR1 | 56 |
| 4.3.1.1.1.1 Reference test frequencies for NR operating band n1..... | 56 |
| 4.3.1.1.1.2 Reference test frequencies for NR operating band n2..... | 63 |
| 4.3.1.1.1.3 Reference test frequencies for NR operating band n3..... | 67 |
| 4.3.1.1.1.4 FFS..... | 75 |
| 4.3.1.1.1.5 Reference test frequencies for NR operating band n5..... | 75 |
| 4.3.1.1.1.6 FFS..... | 79 |
| 4.3.1.1.1.7 Reference test frequencies for NR operating band n7..... | 79 |
| 4.3.1.1.1.8 Reference test frequencies for NR operating band n8..... | 86 |
| 4.3.1.1.1.9 to | |
| 4.3.1.1.1.11 | FFS |
| ..... | 95 |
| 4.3.1.1.1.12 Reference test frequencies for NR operating band n12..... | 95 |
| 4.3.1.1.1.13 Reference test frequencies for NR operating band n13..... | 97 |
| 4.3.1.1.1.14 Reference test frequencies for NR operating band n14..... | 99 |
| 4.3.1.1.1.15 to | |
| 4.3.1.1.1.17 | FFS |
| ..... | 101 |
| 4.3.1.1.1.18 Reference test frequencies for NR operating band n18..... | 101 |
| 4.3.1.1.1.19 FFS..... | 103 |
| 4.3.1.1.1.20 Reference test frequencies for NR operating band n20..... | 103 |

| | | |
|-----------------|--|-----|
| 4.3.1.1.1.21 to | 4.3.1.1.1.23 | FFS |
|  | ..... | 106 |
| 4.3.1.1.1.24 | Reference test frequencies for NR operating band n24..... | 106 |
| 4.3.1.1.1.25 | Reference test frequencies for NR operating band n25..... | 108 |
| 4.3.1.1.1.26 | Reference test frequencies for NR operating band n26..... | 113 |
| 4.3.1.1.1.27 | FFS..... | 116 |
| 4.3.1.1.1.28 | Reference test frequencies for NR operating band n28..... | 116 |
| 4.3.1.1.1.29 | Reference test frequencies for NR operating band n29 (SDL) | 123 |
| 4.3.1.1.1.30 | Reference test frequencies for NR operating band n30..... | 124 |
| 4.3.1.1.1.31 | Reference test frequencies for NR operating band n31..... | 125 |
| 4.3.1.1.1.32 to | 4.3.1.1.1.33 | FFS |
|  | ..... | 126 |
| 4.3.1.1.1.34 | Reference test frequencies for NR operating band n34..... | 126 |
| 4.3.1.1.1.35 to | 4.3.1.1.1.37 | FFS |
|  | ..... | 128 |
| 4.3.1.1.1.38 | Reference test frequencies for NR operating band n38..... | 128 |
| 4.3.1.1.1.39 | Reference test frequencies for NR operating band n39..... | 132 |
| 4.3.1.1.1.40 | Reference test frequencies for NR operating band n40..... | 136 |
| 4.3.1.1.1.41 | Reference test frequencies for NR operating band n41..... | 141 |
| 4.3.1.1.1.42 to | 4.3.1.1.1.45 | FFS |
|  | ..... | 145 |
| 4.3.1.1.1.46 | Reference test frequencies for NR operating band n46..... | 145 |
| 4.3.1.1.1.47 | FFS..... | 148 |
| 4.3.1.1.1.48 | Reference test frequencies for NR operating band n48..... | 148 |
| 4.3.1.1.1.49 | FFS..... | 153 |
| 4.3.1.1.1.50 | Reference test frequencies for NR operating band n50..... | 153 |
| 4.3.1.1.1.51 | Reference test frequencies for NR operating band n51..... | 157 |
| 4.3.1.1.1.52 | FFS..... | 157 |
| 4.3.1.1.1.53 | Reference test frequencies for NR operating band n53..... | 157 |
| 4.3.1.1.1.54 | Reference test frequencies for NR operating band n54..... | 159 |
| 4.3.1.1.1.55 to | 4.3.1.1.1.64 | FFS |
|  | ..... | 159 |
| 4.3.1.1.1.65 | Reference test frequencies for NR operating band n65..... | 159 |
| 4.3.1.1.1.66 | Reference test frequencies for NR operating band n66..... | 163 |
| 4.3.1.1.1.67 – | 4.3.1.1.1.69 | FFS |
|  | ..... | 176 |
| 4.3.1.1.1.70 | Reference test frequencies for NR operating band n70..... | 176 |
| 4.3.1.1.1.71 | Reference test frequencies for NR operating band n71..... | 184 |
| 4.3.1.1.1.72 | Reference test frequencies for NR operating band n72..... | 192 |
| 4.3.1.1.1.73 | FFS..... | 193 |
| 4.3.1.1.1.74 | Reference test frequencies for NR operating band n74..... | 193 |
| 4.3.1.1.1.75 | Reference test frequencies for NR operating band n75 (SDL) | 197 |
| 4.3.1.1.1.76 | Reference test frequencies for NR operating band n76 (SDL) | 199 |
| 4.3.1.1.1.77 | Reference test frequencies for NR operating band n77..... | 199 |
| 4.3.1.1.1.78 | Reference test frequencies for NR operating band n78..... | 204 |
| 4.3.1.1.1.79 | Reference test frequencies for NR operating band n79..... | 208 |
| 4.3.1.1.1.80 | Reference test frequencies for NR operating band n80 (SUL) | 213 |
| 4.3.1.1.1.81 | Reference test frequencies for NR operating band n81 (SUL) | 214 |
| 4.3.1.1.1.82 | Reference test frequencies for NR operating band n82 (SUL) | 215 |
| 4.3.1.1.1.83 | Reference test frequencies for NR operating band n83 (SUL) | 215 |
| 4.3.1.1.1.84 | Reference test frequencies for NR operating band n84 (SUL) | 216 |
| 4.3.1.1.1.85 | Reference test frequencies for NR operating band n85..... | 218 |
| 4.3.1.1.1.86 | Reference test frequencies for NR operating band n86 (SUL) | 221 |
| 4.3.1.1.1.87 | Reference test frequencies for NR operating band n87..... | 222 |
| 4.3.1.1.1.88 | Reference test frequencies for NR operating band n88..... | 224 |

| | | |
|---------------------------|--|-----|
| 4.3.1.1.1.89 to | 4.3.1.1.1.90 | FFS |
|  | ..... | 225 |
| 4.3.1.1.1.91 | Reference test frequencies for NR operating band n91..... | 225 |
| 4.3.1.1.1.92 | Reference test frequencies for NR operating band n92..... | 226 |
| 4.3.1.1.1.93 | Reference test frequencies for NR operating band n93..... | 232 |
| 4.3.1.1.1.94 | Reference test frequencies for NR operating band n94..... | 233 |
| 4.3.1.1.1.95 | Reference test frequencies for NR operating band n95 (SUL) | 240 |
| 4.3.1.1.1.96 | Reference test frequencies for NR operating band n96..... | 241 |
| 4.3.1.1.1.97 | Reference test frequencies for NR operating band n97 (SUL) | 243 |
| 4.3.1.1.1.98 | Reference test frequencies for NR operating band n98 (SUL) | 245 |
| 4.3.1.1.1.99 | Reference test frequencies for NR operating band n99 (SUL) | 247 |
| 4.3.1.1.1.100 | Reference test frequencies for NR operating band n100..... | 248 |
| 4.3.1.1.1.101 | Reference test frequencies for NR operating band n101..... | 249 |
| 4.3.1.1.1.102 to | 4.3.1.1.1.103 | FFS |
|  | ..... | 250 |
| 4.3.1.1.1.104 | Reference test frequencies for NR operating band n104..... | 250 |
| 4.3.1.1.1.105 | Reference test frequencies for NR operating band n105..... | 254 |
| 4.3.1.1.1.106 | Reference test frequencies for NR operating band n106..... | 261 |
| 4.3.1.1.1.107 to | 4.3.1.1.1.108 | FFS |
|  | ..... | 262 |
| 4.3.1.1.1.109 | Reference test frequencies for NR operating band n109..... | 262 |
| 4.3.1.1.1.110 | Reference test frequencies for NR operating band n110..... | 271 |
| 4.3.1.1.2 | NR inter-band CA configurations in FR1..... | 272 |
| 4.3.1.1.2.1 | NR inter-band CA configurations in FR1 (two bands) | 272 |
| 4.3.1.1.2.2 | NR inter-band CA configurations in FR1 (three bands) | 278 |
| 4.3.1.1.2.3 | NR inter-band CA configurations in FR1 (four bands)..... | 294 |
| 4.3.1.1.3 | NR intra-band contiguous CA in FR1 | 302 |
| 4.3.1.1.3.1 – 4.3.1.1.3.4 | FFS..... | 302 |
| 4.3.1.1.3.5 | NR Intra-band contiguous configurations CA_n5B..... | 302 |
| 4.3.1.1.3.40 | NR Intra-band contiguous configurations CA_n40 | 307 |
| 4.3.1.1.3.40.1 | CA_n40B | 307 |
| 4.3.1.1.3.41 | NR Intra-band contiguous configurations CA_n41 | 307 |
| 4.3.1.1.3.41.1 | CA_n41C | 308 |
| 4.3.1.1.3.42 – | 4.3.1.1.3.47 | FFS |
|  | ..... | 316 |
| 4.3.1.1.3.48 | NR Intra-band contiguous configurations CA_n48 | 316 |
| 4.3.1.1.3.48.1 | CA_n48B | 316 |
| 4.3.1.1.3.48.2 | CA_n48C | 328 |
| 4.3.1.1.3.49 – | 4.3.1.1.3.65 | FFS |
|  | ..... | 335 |
| 4.3.1.1.3.66 | NR Intra-band contiguous configurations CA_n66 | 335 |
| 4.3.1.1.3.66.1 | CA_n66B | 335 |
| 4.3.1.1.3.67 – | 4.3.1.1.3.70 | FFS |
|  | ..... | 347 |
| 4.3.1.1.3.71 | NR Intra-band contiguous configurations CA_n71 | 347 |
| 4.3.1.1.3.71.1 | FFS..... | 347 |
| 4.3.1.1.3.71.2 | CA_n71B | 347 |
| 4.3.1.1.3.72 – | 4.3.1.1.3.76 | FFS |
|  | ..... | 351 |
| 4.3.1.1.3.77 | NR Intra-band contiguous configurations CA_n77 | 351 |
| 4.3.1.1.3.77.1 | CA_n77C | 351 |
| 4.3.1.1.3.78 | NR Intra-band contiguous configurations CA_n78 | 357 |
| 4.3.1.1.3.78.1 | CA_n78C | 357 |
| 4.3.1.1.3.78.2 | CA_n78B | 375 |
| 4.3.1.1.3.78.3 | CA_n78D..... | 378 |

| | | |
|----------------|--|-----|
| 4.3.1.1.3.79 | NR Intra-band contiguous configurations CA_n79 | 380 |
| 4.3.1.1.3.79.1 | CA_n79C | 380 |
| 4.3.1.1.4 | Void | 389 |
| 4.3.1.1.5 | NR intra-band non-contiguous CA configurations in FR1 | 389 |
| 4.3.1.1.5.1 | FFS | 389 |
| 4.3.1.1.5.2 | CA_n2(xA) | 389 |
| 4.3.1.1.5.3 – | | |
| | 4.3.1.1.5.24 | FFS |
|  | ..... | 389 |
| 4.3.1.1.5.26 – | | |
| | 4.3.1.1.5.40 | FFS |
|  | ..... | 390 |
| 4.3.1.1.5.42 – | | |
| | 4.3.1.1.5.47 | FFS |
|  | ..... | 391 |
| 4.3.1.1.5.66 | CA_n66(xA) | 392 |
| 4.3.1.1.5.66.1 | CA_n66(2A)..... | 392 |
| 4.3.1.1.5.66.2 | CA_n66(3A)..... | 393 |
| 4.3.1.1.5.67 – | | |
| | 4.3.1.1.5.70 | FFS |
|  | ..... | 394 |
| 4.3.1.1.5.71 | CA_n71(xA) | 394 |
| 4.3.1.1.5.72 – | | |
| | 4.3.1.1.5.76 | FFS |
|  | ..... | 395 |
| 4.3.1.1.5.77 | CA_n77(xA) | 395 |
| 4.3.1.1.5.78 | CA_n78(xA) | 411 |
| 4.3.1.1.6 | NR Operating SUL band combinations in FR1 | 426 |
| 4.3.1.1.7 | NR inter-band NR-DC configurations in FR1 | 426 |
| 4.3.1.1.7.1 | NR inter-band NR-DC configurations in FR1 (two bands) | 426 |
| 4.3.1.2 | Test frequencies for NR operating bands in FR2 | 427 |
| 4.3.1.2.1 | NR operating bands in FR2 | 427 |
| 4.3.1.2.1.1 | Reference test frequencies for NR operating band n257 | 427 |
| 4.3.1.2.1.2 | Reference test frequencies for NR operating band n258 | 428 |
| 4.3.1.2.1.3 | Reference test frequencies for NR operating band n259 | 429 |
| 4.3.1.2.1.4 | Reference test frequencies for NR operating band n260 | 430 |
| 4.3.1.2.1.5 | Reference test frequencies for NR operating band n261 | 432 |
| 4.3.1.2.2 | NR inter-band CA configurations in FR2 | 433 |
| 4.3.1.2.3 | NR intra-band contiguous CA configurations in FR2 | 433 |
| 4.3.1.2.3.1 | NR Intra-band contiguous CA configurations for CA_n257 | 433 |
| 4.3.1.2.3.1.1 | CA_n257B..... | 433 |
| 4.3.1.2.3.1.2 | CA_n257C..... | 434 |
| 4.3.1.2.3.1.3 | CA_n257D | 434 |
| 4.3.1.2.3.1.4 | CA_n257E..... | 436 |
| 4.3.1.2.3.1.5 | CA_n257F..... | 436 |
| 4.3.1.2.3.1.6 | CA_n257G | 436 |
| 4.3.1.2.3.1.7 | CA_n257H | 438 |
| 4.3.1.2.3.1.8 | CA_n257I..... | 440 |
| 4.3.1.2.3.1.9 | CA_n257J..... | 443 |
| 4.3.1.2.3.1.10 | CA_n257K | 444 |
| 4.3.1.2.3.1.11 | CA_n257L..... | 445 |
| 4.3.1.2.3.1.12 | CA_n257M..... | 446 |
| 4.3.1.2.3.2 | NR Intra-band contiguous CA configurations for CA_n258 | 447 |
| 4.3.1.2.3.2.1 | CA_n258B..... | 447 |
| 4.3.1.2.3.2.2 | CA_n258C..... | 448 |
| 4.3.1.2.3.2.3 | CA_n258D | 448 |
| 4.3.1.2.3.2.4 | CA_n258E..... | 450 |
| 4.3.1.2.3.2.5 | CA_n258F..... | 453 |
| 4.3.1.2.3.2.6 | CA_n258G | 457 |
| 4.3.1.2.3.2.7 | CA_n258H | 459 |
| 4.3.1.2.3.2.8 | CA_n258I..... | 461 |
| 4.3.1.2.3.2.9 | CA_n258J..... | 464 |

| | | |
|----------------|---|-----|
| 4.3.1.2.3.2.10 | CA_n258K | 467 |
| 4.3.1.2.3.2.11 | CA_n258L | 471 |
| 4.3.1.2.3.2.12 | CA_n258M | 476 |
| 4.3.1.2.3.3 | FFS | 481 |
| 4.3.1.2.3.4 | NR Intra-band contiguous CA configurations for CA_n260 | 481 |
| 4.3.1.2.3.4.1 | CA_n260B | 481 |
| 4.3.1.2.3.4.2 | CA_n260C | 482 |
| 4.3.1.2.3.4.3 | CA_n260D | 482 |
| 4.3.1.2.3.4.4 | CA_n260E | 483 |
| 4.3.1.2.3.4.5 | CA_n260F | 483 |
| 4.3.1.2.3.4.6 | CA_n260G | 483 |
| 4.3.1.2.3.4.7 | CA_n260H | 485 |
| 4.3.1.2.3.4.8 | CA_n260I | 487 |
| 4.3.1.2.3.4.9 | CA_n260J | 489 |
| 4.3.1.2.3.4.10 | CA_n260K | 491 |
| 4.3.1.2.3.4.11 | CA_n260L | 496 |
| 4.3.1.2.3.4.12 | CA_n260M | 501 |
| 4.3.1.2.3.4.13 | CA_n260O | 506 |
| 4.3.1.2.3.4.14 | CA_n260P | 507 |
| 4.3.1.2.3.4.15 | CA_n260Q | 507 |
| 4.3.1.2.3.5 | NR Intra-band contiguous CA configurations for CA_n261 | 508 |
| 4.3.1.2.3.5.1 | CA_n261B | 508 |
| 4.3.1.2.3.5.2 | CA_n261C | 508 |
| 4.3.1.2.3.5.3 | CA_n261D | 508 |
| 4.3.1.2.3.5.4 | CA_n261E | 509 |
| 4.3.1.2.3.5.5 | CA_n261F | 509 |
| 4.3.1.2.3.5.6 | CA_n261G | 510 |
| 4.3.1.2.3.5.7 | CA_n261H | 511 |
| 4.3.1.2.3.5.8 | CA_n261I | 513 |
| 4.3.1.2.3.5.9 | CA_n261J | 515 |
| 4.3.1.2.3.5.10 | CA_n261K | 518 |
| 4.3.1.2.3.5.11 | CA_n261L | 518 |
| 4.3.1.2.3.5.12 | CA_n261M | 518 |
| 4.3.1.2.3.5.13 | CA_n261O | 521 |
| 4.3.1.2.3.5.14 | CA_n261P | 522 |
| 4.3.1.2.3.5.15 | CA_n261Q | 523 |
| 4.3.1.2.4 | NR intra-band non-contiguous CA configurations in FR2 | 523 |
| 4.3.1.2.4.1 | NR Intra-band non-contiguous CA configurations for CA_n257 | 523 |
| 4.3.1.2.4.2 | NR Intra-band non-contiguous CA configurations for CA_n258 | 523 |
| 4.3.1.2.4.3 | FFS | 523 |
| 4.3.1.2.4.4 | NR Intra-band non-contiguous CA configurations for CA_n260 | 523 |
| 4.3.1.2.4.4.1 | CA_n260(XA) | 523 |
| 4.3.1.2.4.4.2 | CA_n260(A-I) | 523 |
| 4.3.1.2.4.5 | NR Intra-band non-contiguous CA configurations for CA_n261 | 524 |
| 4.3.1.2.4.5.1 | CA_n261(XA) | 524 |
| 4.3.1.3 | Test frequencies for NR band combinations between FR1 and FR2 | 525 |
| 4.3.1.3.1 | NR inter-band CA configurations between FR1 and FR2 | 525 |
| 4.3.1.3.2 | Inter-band NR-DC configurations between FR1 and FR2 | 526 |
| 4.3.1.3.2.1 | NR-DC configurations between FR1 and FR2 (two bands) | 526 |
| 4.3.1.4 | Test frequencies for EN-DC band combinations within FR1 | 527 |
| 4.3.1.4.1 | Inter-band EN-DC configurations within FR1 | 527 |
| 4.3.1.4.1.1 | General | 527 |
| 4.3.1.4.1.2 | Inter-band EN-DC configurations within FR1 (two bands) | 528 |
| 4.3.1.4.1.3 | Inter-band EN-DC configurations within FR1 (three bands) | 533 |
| 4.3.1.4.1.4 | Inter-band EN-DC configurations within FR1 (four bands) | 545 |
| 4.3.1.4.1.6 | Inter-band EN-DC configurations within FR1 (six bands) | 557 |
| 4.3.1.4.2 | Intra-band contiguous EN-DC configurations within FR1 | 558 |
| 4.3.1.4.2.1 – | | |
| | 4.3.1.4.2.40 | FFS |
|  | ..... | 558 |
| 4.3.1.4.2.41 | Intra-band contiguous EN-DC configurations DC_(n)41 | 558 |
| 4.3.1.4.2.41.1 | DC_(n)41AA | 558 |

| | | |
|------------------------------|---|-----|
| 4.3.1.4.2.41.2 | DC_(n)41CA | 567 |
| 4.3.1.4.2.42.to 4.3.1.4.2.70 | FFS | 574 |
| 4.3.1.4.2.71.1 | DC_(n)71AA | 574 |
| 4.3.1.4.3 | Intra-band non-contiguous EN-DC configurations within FR1 | 582 |
| 4.3.1.4.3.1 | FFS | 582 |
| 4.3.1.4.3.41 | Intra-band non-contiguous EN-DC configurations DC_41_n41 | 583 |
| 4.3.1.4.3.41.1 | DC_41A_n41A | 583 |
| 4.3.1.4.3.41.2 | DC_41C_n41A | 583 |
| 4.3.1.4a | Test frequencies for NE-DC band combinations within FR1 | 585 |
| 4.3.1.4a.1 | Inter-band NE-DC configurations within FR1 | 585 |
| 4.3.1.5 | Test frequencies for EN-DC band combinations including FR2 | 586 |
| 4.3.1.5.1 | Inter-band EN-DC configurations including FR2 | 586 |
| 4.3.1.6 | Test frequencies for EN-DC band combinations including FR1 and FR2 | 625 |
| 4.3.1.6.1 | Inter-band EN-DC configurations including FR1 and FR2 | 625 |
| 4.3.1.7 | Test frequencies for Non-3GPP Access | 629 |
| 4.3.1.7.1 | WLAN Test frequencies | 629 |
| 4.3.1.7.2 | Bluetooth Test frequencies | 629 |
| 4.3.1.8 | Test frequencies for NR Sidelink operating bands | 629 |
| 4.3.1.8.1 | Test frequencies for NR Sidelink operating bands in FR1 | 629 |
| 4.3.1.8.2 | Test frequencies for concurrent NR sidelink operation | 631 |
| 4.3.1.9 | Test frequencies for NR NTN operating bands | 633 |
| 4.3.1.9.1 | NR NTN operating bands | 633 |
| 4.3.2 | Radio conditions | 644 |
| 4.3.2.1 | FR1, normal propagation condition for connected | 644 |
| 4.3.2.2 | FR2, condition for OTA | 644 |
| 4.3.3 | Physical channel allocations | 644 |
| 4.3.3.1 | E-UTRA | 644 |
| 4.3.3.2 | NR | 644 |
| 4.3.3.2.1 | Antennas | 644 |
| 4.3.3.2.2 | Downlink physical channels and physical signals | 644 |
| 4.3.3.2.3 | Mapping of downlink physical channels and signals to physical resources | 645 |
| 4.3.4 | Signal levels | 645 |
| 4.3.4.1 | Signal levels for conducted testing | 645 |
| 4.3.4.1.1 | Downlink signal levels | 645 |
| 4.3.4.2 | Signal levels for OTA testing | 645 |
| 4.3.5 | Standard test signals | 646 |
| 4.3.6 | Physical layer parameters | 646 |
| 4.3.6.1 | Downlink physical layer parameters | 646 |
| 4.3.6.1.1 | Physical layer parameters for scheduling of PUSCH | 646 |
| 4.3.6.1.1.1 | Physical layer parameters for DCI format 0_0 | 646 |
| 4.3.6.1.1.2 | Physical layer parameters for DCI format 0_1 | 646 |
| 4.3.6.1.1.3 | Physical layer parameters for DCI format 0_2 | 649 |
| 4.3.6.1.1.4 | Physical layer parameters for DCI format 0_3 | 650 |
| 4.3.6.1.2 | Physical layer parameters for scheduling of PDSCH | 652 |
| 4.3.6.1.2.1 | Physical layer parameters for DCI format 1_0 | 652 |
| 4.3.6.1.2.2 | Physical layer parameters for DCI format 1_1 | 653 |
| 4.3.6.1.2.3 | Physical layer parameters for DCI format 1_2 | 656 |
| 4.3.6.1.2.4 | Physical layer parameters for DCI format 1_3 | 657 |
| 4.3.6.1.3 | Void | 659 |
| 4.3.6.1.4 | Physical layer parameters for scheduling of PSCCH/PSSCH | 659 |
| 4.3.6.1.4.1 | Physical layer parameters for DCI format 3_0 | 659 |
| 4.3.6.1.4.2 | Physical layer parameters for DCI format 3_1 | 659 |
| 4.3.6.1.5 | Physical layer parameters for scheduling of MBS | 660 |
| 4.3.6.1.5.1 | Physical layer parameters for DCI format 4_0 | 660 |
| 4.3.6.1.5.2 | Physical layer parameters for DCI format 4_1 | 660 |
| 4.3.6.1.5.3 | Physical layer parameters for DCI format 4_2 | 661 |
| 4.3.6.2 | Sidelink physical layer parameters | 662 |
| 4.3.6.2.1 | Physical layer parameters for scheduling of PSSCH on PSCCH | 662 |
| 4.3.6.2.1.1 | Physical layer parameters for SCI format 1-A | 662 |
| 4.3.6.2.1.2 | Physical layer parameters for SCI format 1-B | 663 |
| 4.3.6.2.2 | Physical layer parameters for scheduling on PSSCH | 663 |
| 4.3.6.2.2.1 | Physical layer parameters for SCI format 2-A | 663 |

| | | |
|-------------|---|-----|
| 4.3.6.2.2.2 | Physical layer parameters for SCI format 2-B | 664 |
| 4.3.6.2.2.3 | Physical layer parameters for SCI format 2-D | 664 |
| 4.4 | Reference system configurations | 664 |
| 4.4.1 | Simulated network scenarios | 664 |
| 4.4.1.1 | Standalone cell network scenarios | 665 |
| 4.4.1.1.1 | Standalone E-UTRA single cell and multi cell network scenarios | 665 |
| 4.4.1.1.2 | Standalone NR single cell network scenarios | 665 |
| 4.4.1.1.3 | Standalone NR single mode multi cell network scenarios | 665 |
| 4.4.1.1.4 | Standalone NR dual mode multi cell network scenarios | 665 |
| 4.4.1.1.5 | Standalone NR 3GPP Inter-RAT network scenarios | 665 |
| 4.4.1.2 | Non-standalone cell network scenarios | 666 |
| 4.4.1.2.1 | Non-standalone E-UTRA single cell and NR single cell network scenarios | 666 |
| 4.4.1.2.2 | Non-standalone E-UTRA single cell and NR single mode multi cell network scenarios | 666 |
| 4.4.1.2.3 | Non-standalone E-UTRA single mode multi cell and NR single mode multi cell network scenarios | 666 |
| 4.4.1.2.4 | Non-standalone E-UTRA single cell and NR dual mode multi cell network scenarios | 667 |
| 4.4.1.3 | Non-3GPP Accesss network scenarios | 667 |
| 4.4.1.3.1 | WLAN network scenario | 667 |
| 4.4.1.3.2 | Bluetooth network scenario | 667 |
| 4.4.2 | Simulated cells | 667 |
| 4.4.3 | Common parameters for simulated NR cells | 670 |
| 4.4.3.1 | Common configurations of system information blocks | 670 |
| 4.4.3.1.1 | Combinations of system information blocks for E-UTRA standalone, EN-DC and NGEN-DC .. | 670 |
| 4.4.3.1.2 | Combinations of system information blocks for NR standalone and NE-DC | 671 |
| 4.4.3.1.3 | Scheduling of system information blocks | 676 |
| 4.4A | Test states | 681 |
| 4.4A.1 | General | 681 |
| 4.4A.2 | Test states and associated 5GC and RRC protocol states | 681 |
| 4.4A.3 | Test state parameters | 683 |
| 4.4A.4 | Test state ID syntax | 683 |
| 4.4A.5 | Mapping of test state IDs and test parameters to generic procedures, generic procedure parameters and specific message conditions | 684 |
| 4.5 | Generic procedures | 685 |
| 4.5.1 | General | 685 |
| 4.5.2 | RRC_IDLE | 686 |
| 4.5.2.1 | Initiation | 686 |
| 4.5.2.2 | Procedures | 687 |
| 4.5.2.3 | Specific message contents | 693 |
| 4.5.3 | RRC_INACTIVE | 694 |
| 4.5.3.1 | Initiation | 694 |
| 4.5.3.2 | Procedures | 694 |
| 4.5.4 | RRC_CONNECTED | 695 |
| 4.5.4.1 | Initiation | 695 |
| 4.5.4.2 | Procedures | 696 |
| 4.5.4.3 | Specific message contents | 699 |
| 4.5.5 | SWITCHED_OFF | 701 |
| 4.5.6 | Void | 702 |
| 4.5.7 | Out of Coverage | 702 |
| 4.5.7.1 | Initiation | 702 |
| 4.5.7.2 | Procedures | 702 |
| 4.5.7.3 | Specific message contents | 703 |
| 4.5.8 | Void | 704 |
| 4.5A | Auxiliary procedures | 704 |
| 4.5A.1 | General | 704 |
| 4.5A.2 | UE-requested PDU session establishment procedure | 704 |
| 4.5A.2A | UE-requested PDU session establishment procedure over Non 3GPP Access | 707 |
| 4.5A.2B | Procedure to establish multiple additional PDN connections in S1 | 707 |
| 4.5A.2B.3 | Specific message contents | 709 |
| 4.5A.2C | Procedure for UE-requested PDU session modification after the first S1 to N1 mode change / Single-registration mode with N26 | 710 |
| 4.5A.3 | Procedure for IP address allocation in the user plane | 713 |
| 4.5A.4 | Procedure for IMS signalling | 714 |

| | | |
|---------|--|-----|
| 4.5A.5 | IPsec Tunnel Disconnection in 5GC / WLAN | 714 |
| 4.5A.6 | IPsec Tunnel Establishment in 5GC / WLAN | 715 |
| 4.5B | Common test environment for Vertical UEs | 715 |
| 4.5B.1 | SNPN-only UEs | 715 |
| 4.5B.2 | RedCap UEs | 716 |
| 4.5B.3 | NR NTN UEs | 716 |
| 4.5B.4 | eRedCap UEs | 716 |
| 4.5B.5 | ATG UEs | 717 |
| 4.5C | UE Position Requirements for NTN testing | 717 |
| 4.5C.1 | General | 717 |
| 4.5D | UE position requirements for ATG testing | 717 |
| 4.5D.1 | General | 717 |
| 4.6 | Default NG-RAN RRC message and information elements contents | 718 |
| 4.6.0 | General | 718 |
| 4.6.0.1 | Global conditions | 718 |
| 4.6.0.2 | ASN.1 extension groups | 719 |
| 4.6.0.3 | Interpretation of IE presence and values | 719 |
| 4.6.1 | Contents of RRC messages | 720 |
| – | <i>CounterCheck</i> | 720 |
| – | <i>CounterCheckResponse</i> | 720 |
| – | <i>DedicatedSIBRequest</i> | 720 |
| – | <i>DLDedicatedMessageSegment</i> | 721 |
| – | <i>DLInformationTransfer</i> | 721 |
| – | <i>DLInformationTransferMRDC</i> | 722 |
| – | <i>FailureInformation</i> | 722 |
| – | <i>IABOtherInformation</i> | 722 |
| – | <i>IndirectPathFailureInformation</i> | 723 |
| – | <i>LocationMeasurementIndication</i> | 723 |
| – | <i>LoggedMeasurementConfiguration</i> | 723 |
| – | <i>MBSBroadcastConfiguration</i> | 724 |
| – | <i>MBSInterestIndication</i> | 725 |
| – | <i>MBSMulticastConfiguration</i> | 725 |
| – | <i>MCGFailureInformation</i> | 726 |
| – | <i>MeasurementReport</i> | 726 |
| – | <i>MeasurementReportAppLayer</i> | 726 |
| – | <i>MIB</i> | 726 |
| – | <i>MobilityFromNRCommand</i> | 727 |
| – | <i>Paging</i> | 728 |
| – | <i>RRCReestablishment</i> | 729 |
| – | <i>RRCReestablishmentComplete</i> | 729 |
| – | <i>RRCReestablishmentRequest</i> | 729 |
| – | <i>RRCReconfiguration</i> | 730 |
| – | <i>RRCReconfigurationComplete</i> | 735 |
| – | <i>RRCReject</i> | 736 |
| – | <i>RRCRelease</i> | 736 |
| – | <i>RRCResume</i> | 738 |
| – | <i>RRCResumeComplete</i> | 739 |
| – | <i>RRCResumeRequest</i> | 739 |
| – | <i>RRCResumeRequest1</i> | 740 |
| – | <i>RRCSetup</i> | 740 |
| – | <i>RRCSetupComplete</i> | 740 |
| – | <i>RRCSetupRequest</i> | 741 |
| – | <i>RRCSystemInfoRequest</i> | 741 |
| – | <i>SCGFailureInformation</i> | 742 |
| – | <i>SCGFailureInformationEUTRA</i> | 742 |
| – | <i>SecurityModeCommand</i> | 742 |
| – | <i>SecurityModeComplete</i> | 742 |
| – | <i>SecurityModeFailure</i> | 743 |
| – | <i>SIB1</i> | 743 |
| – | <i>SidelinkUEInformationNR</i> | 746 |
| – | <i>SystemInformation</i> | 748 |
| – | <i>UEAssistanceInformation</i> | 748 |

- *UECapabilityEnquiry* 749
- *UECapabilityInformation* 750
- *UEInformationRequest* 750
- *UEInformationResponse* 751
- *UEPositioningAssistanceInfo* 751
- *ULDedicatedMessageSegment* 751
- *ULInformationTransfer* 752
- *ULInformationTransferIRAT* 752
- *ULInformationTransferMRDC* 752
- 4.6.1A Contents of PC5 RRC messages 752
 - *MasterInformationBlockSidelink* 752
 - *MeasurementReportSidelink* 753
 - *RemoteUEInformationSidelink* 754
 - *NotificationMessageSidelink* 754
 - *RRCReconfigurationSidelink* 755
 - *SL-RLC-ChannelConfigPC5* 757
 - *RRCReconfigurationCompleteSidelink* 758
 - *RRCReconfigurationFailureSidelink* 758
 - *UECapabilityEnquirySidelink* 759
 - *UECapabilityInformationSidelink* 759
 - *uuMessageTransferSidelink* 761
 - *UEAssistanceInformationSidelink* 762
- 4.6.2 System information blocks 762
 - *SIB2* 762
 - *SIB3* 763
 - *SIB4* 764
 - *SIB5* 766
 - *SIB6* 767
 - *SIB7* 768
 - *SIB8* 769
 - *SIB9* 771
 - *SIB10* 771
 - *SIB11* 771
 - *SIB12* 771
 - *SIB13* 773
 - *SIB14* 773
 - *SIB15* 773
 - *SIB16* 773
 - *SIB17* 774
 - *SIB17bis* 774
 - *SIB18* 775
 - *SIB19* 775
 - *SIB20* 776
 - *SIB21* 776
 - *SIB22* 777
 - *SIB23* 777
 - *SIB24* 777
 - *SIB25* 778
 - *SIB26* 778
 - *SIB27* 778
- 4.6.2A Positioning System information blocks 778
 - *PosSystemInformation-r16-IEs* 778
 - *PosSI-SchedulingInfo* 779
 - *SIBpos* 779
- 4.6.3 Radio resource control information elements 779
 - *AdditionalPCIIndex* 779
 - *AdditionalSpectrumEmission* 780
 - *AdvancedReceiver-MU-MIMO* 780
 - *Aerial-Config* 780
 - *Alpha* 780
 - *Altitude* 780
 - *AMF-Identifier* 781

Sample Document

Get full document from standards.iteh.ai

| | | |
|---|--|-----|
| - | <i>ApplicabilitySetConfigId</i> | 781 |
| - | <i>ApplicabilityReportList</i> | 781 |
| - | <i>ARFCN-ValueEUTRA</i> | 781 |
| - | <i>ARFCN-ValueNR</i> | 781 |
| - | <i>ARFCN-ValueUTRA-FDD</i> | 782 |
| - | <i>AssociatedId</i> | 782 |
| - | <i>ATG-Config</i> | 782 |
| - | <i>AvailabilityCombinationsPerCell</i> | 783 |
| - | <i>AvailabilityIndicator</i> | 783 |
| - | <i>BAP-Routing-ID</i> | 783 |
| - | <i>BeamFailureRecoveryConfig</i> | 783 |
| - | <i>BeamFailureRecoveryRSConfig</i> | 784 |
| - | <i>BetaOffsets</i> | 784 |
| - | <i>BetaOffsetsCrossPri</i> | 785 |
| - | <i>BH-RLC-ChannelConfig</i> | 785 |
| - | <i>BH-LogicalChannelIdentity</i> | 785 |
| - | <i>BH-LogicalChannelIdentity-Ext</i> | 785 |
| - | <i>BH-RLC-ChannelID</i> | 785 |
| - | <i>BSR-Config</i> | 785 |
| - | <i>BWP</i> | 786 |
| - | <i>BWP-Downlink</i> | 786 |
| - | <i>BWP-DownlinkCommon</i> | 786 |
| - | <i>BWP-DownlinkDedicated</i> | 787 |
| - | <i>BWP-Id</i> | 788 |
| - | <i>BWP-Uplink</i> | 788 |
| - | <i>BWP-UplinkCommon</i> | 788 |
| - | <i>BWP-UplinkDedicated</i> | 789 |
| - | <i>CandidateBeamRS</i> | 790 |
| - | <i>CandidateTCI-State</i> | 790 |
| - | <i>CandidateTCI-UL-State</i> | 790 |
| - | <i>CellAccessRelatedInfo</i> | 791 |
| - | <i>CellAccessRelatedInfo-EUTRA-5GC</i> | 791 |
| - | <i>CellAccessRelatedInfo-EUTRA-EPC</i> | 791 |
| - | <i>CellDTXDRX-Config</i> | 792 |
| - | <i>CellGroupConfig</i> | 792 |
| - | <i>CellGroupId</i> | 797 |
| - | <i>CellIdentity</i> | 798 |
| - | <i>CellReselectionPriority</i> | 798 |
| - | <i>CellReselectionSubPriority</i> | 798 |
| - | <i>CFR-ConfigMulticast</i> | 798 |
| - | <i>CGI-InfoEUTRA</i> | 798 |
| - | <i>CGI-InfoEUTRALogging</i> | 799 |
| - | <i>CGI-InfoNR</i> | 799 |
| - | <i>ChannelAccessConfig</i> | 799 |
| - | <i>CGI-Info-Logging</i> | 799 |
| - | <i>Cho-WithCandidateSCGInfo</i> | 799 |
| - | <i>CLI-RSSI-MeasResource</i> | 800 |
| - | <i>CLI-RSSI-MeasResourceId</i> | 800 |
| - | <i>CLI-RSSI-MeasResourceSet</i> | 800 |
| - | <i>CLI-RSSI-MeasResourceSetId</i> | 800 |
| - | <i>CLI-RSSI-Range</i> | 800 |
| - | <i>ClockQualityMetrics</i> | 800 |
| - | <i>CodebookConfig</i> | 801 |
| - | <i>CommonLocationInfo</i> | 801 |
| - | <i>CondReconfigId</i> | 801 |
| - | <i>CondReconfigToAddModList</i> | 802 |
| - | <i>ConditionalReconfiguration</i> | 802 |
| - | <i>ConfiguredGrantConfig</i> | 803 |
| - | <i>ConfiguredGrantConfigIndex</i> | 805 |
| - | <i>ConfiguredGrantConfigIndexMAC</i> | 805 |
| - | <i>ConnEstFailureControl</i> | 806 |
| - | <i>ControlResourceSet</i> | 806 |

| | | |
|---|---|-----|
| - | <i>ControlResourceSetId</i> | 806 |
| - | <i>ControlResourceSetZero</i> | 806 |
| - | <i>CrossCarrierSchedulingConfig</i> | 807 |
| - | <i>CSI-AperiodicTriggerStateList</i> | 807 |
| - | <i>CSI-FrequencyOccupation</i> | 808 |
| - | <i>CSI-IM-Resource</i> | 809 |
| - | <i>CSI-IM-ResourceId</i> | 809 |
| - | <i>CSI-IM-ResourceSet</i> | 809 |
| - | <i>CSI-IM-ResourceSetId</i> | 809 |
| - | <i>CSI-LoggedMeasurementConfig</i> | 810 |
| - | <i>CSI-LoggedMeasurementConfigId</i> | 810 |
| - | <i>CSI-MeasConfig</i> | 810 |
| - | <i>CSI-ReportConfig</i> | 811 |
| - | <i>CSI-ReportConfigId</i> | 812 |
| - | <i>CSI-ReportPeriodicityAndOffset</i> | 812 |
| - | <i>CSI-ReportSubConfigId</i> | 812 |
| - | <i>CSI-ReportSubConfigTriggerList</i> | 812 |
| - | <i>CSI-ResourceConfig</i> | 813 |
| - | <i>CSI-ResourceConfigId</i> | 813 |
| - | <i>CSI-ResourcePeriodicityAndOffset</i> | 813 |
| - | <i>CSI-RS-ResourceConfigMobility</i> | 813 |
| - | <i>CSI-RS-ResourceMapping</i> | 813 |
| - | <i>CSI-SemiPersistentOnPUSCH-TriggerStateList</i> | 814 |
| - | <i>CSI-SSB-ResourceSet</i> | 814 |
| - | <i>CSI-SSB-ResourceSetId</i> | 815 |
| - | <i>DataCollectionCandidateConfigId</i> | 815 |
| - | <i>DedicatedNAS-Message</i> | 815 |
| - | <i>DL-PPW-PreConfig</i> | 815 |
| - | <i>DMRS-BundlingPUCCH-Config</i> | 815 |
| - | <i>DMRS-BundlingPUSCH-Config</i> | 816 |
| - | <i>DMRS-DownlinkConfig</i> | 816 |
| - | <i>DMRS-UplinkConfig</i> | 816 |
| - | <i>DownlinkConfigCommon</i> | 817 |
| - | <i>DownlinkConfigCommonSIB</i> | 817 |
| - | <i>DownlinkPreemption</i> | 818 |
| - | <i>DRB-Identity</i> | 818 |
| - | <i>DRX-Config</i> | 818 |
| - | <i>DRX-ConfigSecondaryGroup</i> | 819 |
| - | <i>DRX-ConfigSL</i> | 819 |
| - | <i>EarlyUL-SyncConfig</i> | 819 |
| - | <i>EphemerisInfo</i> | 819 |
| - | <i>EpochTime</i> | 820 |
| - | <i>EUTRA-C-RNTI</i> | 820 |
| - | <i>FeatureCombination</i> | 820 |
| - | <i>FeatureCombinationPreambles</i> | 821 |
| - | <i>FilterCoefficient</i> | 822 |
| - | <i>FreqBandIndicatorNR</i> | 822 |
| - | <i>FreqPriorityListDedicatedSlicing</i> | 822 |
| - | <i>FreqPriorityListSlicing</i> | 822 |
| - | <i>FrequencyInfoDL</i> | 823 |
| - | <i>FrequencyInfoDL-SIB</i> | 823 |
| - | <i>FrequencyInfoUL</i> | 823 |
| - | <i>FrequencyInfoUL-SIB</i> | 824 |
| - | <i>GapOccasionRatio</i> | 824 |
| - | <i>GapPriority</i> | 824 |
| - | <i>HighSpeedConfig</i> | 825 |
| - | <i>Hysteresis</i> | 825 |
| - | <i>HysteresisAltitude</i> | 825 |
| - | <i>HysteresisLocation</i> | 825 |
| - | <i>InvalidSymbolPattern</i> | 826 |
| - | <i>I-RNTI-Value</i> | 826 |
| - | <i>LBT-FailureRecoveryConfig</i> | 826 |

| | | |
|---|---|-----|
| - | <i>LocationInfo</i> | 826 |
| - | <i>LocationMeasurementInfo</i> | 826 |
| - | <i>LogicalChannelConfig</i> | 827 |
| - | <i>LogicalChannelIdentity</i> | 828 |
| - | <i>LTE-NeighCellsCRS-AssistInfoList</i> | 828 |
| - | <i>LTM-CandidateId</i> | 828 |
| - | <i>LTM-Candidate</i> | 829 |
| - | <i>LTM-Config</i> | 829 |
| - | <i>LTM-ConfigNRDC</i> | 829 |
| - | <i>LTM-CSI-ReportConfig</i> | 830 |
| - | <i>LTM-CSI-ReportConfigId</i> | 831 |
| - | <i>LTM-CSI-ResourceConfig</i> | 831 |
| - | <i>LTM-CSI-ResourceConfigId</i> | 831 |
| - | <i>LTM-ExecutionConditionList</i> | 831 |
| - | <i>LTM-CSI-SSB-ResourceSet</i> | 831 |
| - | <i>LTM-QCL-Info</i> | 832 |
| - | <i>LTM-ReportContent</i> | 832 |
| - | <i>LTM-SSB-Config</i> | 832 |
| - | <i>LTM-TCI-Info</i> | 833 |
| - | <i>MAC-CellGroupConfig</i> | 834 |
| - | <i>MeasConfig</i> | 835 |
| - | <i>MeasGapConfig</i> | 836 |
| - | <i>MeasGapId</i> | 838 |
| - | <i>MeasGapSharingConfig</i> | 838 |
| - | <i>MeasId</i> | 838 |
| - | <i>MeasIdleConfig</i> | 838 |
| - | <i>MeasIdToAddModList</i> | 839 |
| - | <i>MeasObjectCLI</i> | 839 |
| - | <i>MeasObjectEUTRA</i> | 840 |
| - | <i>MeasObjectId</i> | 840 |
| - | <i>MeasObjectNR</i> | 840 |
| - | <i>MeasObjectNR-SL</i> | 841 |
| - | <i>MeasObjectRxTxDiff</i> | 841 |
| - | <i>MeasObjectToAddModList</i> | 842 |
| - | <i>MeasObjectUTRA-FDD</i> | 842 |
| - | <i>MeasResultCellListSFTD-NR</i> | 843 |
| - | <i>MeasResultCellListSFTD-EUTRA</i> | 843 |
| - | <i>MeasResultForRSSI</i> | 843 |
| - | <i>MeasResults</i> | 843 |
| - | <i>MeasResult2EUTRA</i> | 845 |
| - | <i>MeasResult2NR</i> | 845 |
| - | <i>MeasResultIdleEUTRA</i> | 845 |
| - | <i>MeasResultIdleNR</i> | 845 |
| - | <i>MeasResultRxTxTimeDiff</i> | 846 |
| - | <i>MeasResultSCG-Failure</i> | 846 |
| - | <i>MeasResultsSL</i> | 849 |
| - | <i>MeasRSSI-ReportConfig</i> | 849 |
| - | <i>MeasSequence</i> | 849 |
| - | <i>MeasTriggerQuantity</i> | 849 |
| - | <i>MeasTriggerQuantityEUTRA</i> | 849 |
| - | <i>MeasTriggerQuantityOffset</i> | 850 |
| - | <i>MeasurementValidityDuration</i> | 850 |
| - | <i>MeasWindowConfig</i> | 850 |
| - | <i>MobilityStateParameters</i> | 850 |
| - | <i>MRB-Identity</i> | 850 |
| - | <i>MsgA-ConfigCommon</i> | 851 |
| - | <i>MsgA-PUSCH-Config</i> | 851 |
| - | <i>MultiFrequencyBandListNR</i> | 852 |
| - | <i>MultiFrequencyBandListNR-SIB</i> | 852 |
| - | <i>MUSIM-GapConfig</i> | 852 |
| - | <i>MUSIM-GapId</i> | 852 |
| - | <i>MUSIM-GapInfo</i> | 853 |