

# ETSI TS 138 522 V16.8.0 (2021-08)



**5G;  
NR;**

**User Equipment (UE) conformance specification;  
Applicability of radio transmission, radio reception and radio  
resource management test cases  
(3GPP TS 38.522 version 16.8.0 Release 16)**



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**Reference**

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# Foreword

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

The contents of the present document are subject to continuing work within the TSG and may change following formal TSG approval. Should the TSG modify the contents of the present document, it will be re-released by the TSG with an identifying change of release date and an increase in version number as follows:

Version x.y.z

where:

x the first digit:

- 1 presented to TSG for information;
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- 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.

The present document is one part of a multi-part Technical Specification (TS) covering the New Radio (NR) User Equipment (UE) conformance specification, which is divided in the following parts:

3GPP TS 38.521-1 [1]: NR; User Equipment (UE) conformance specification; Radio transmission and reception; Part 1: Range 1 Standalone;

3GPP TS 38.521-2 [2]: NR; User Equipment (UE) conformance specification; Radio transmission and reception; Part 2: Range 2 Standalone;

3GPP TS 38.521-3 [3]: NR; User Equipment (UE) conformance specification; Radio transmission and reception; Part 3: Range 1 and Range 2 Interworking operation with other radios;

3GPP TS 38.521-4 [4]: NR; User Equipment conformance specification; Radio transmission and reception; Part 4: Performance;

**3GPP TS 38.522: NR; User Equipment (UE) conformance specification; Applicability of RF and RRM test cases;**

3GPP TS 38.533 [5]: NR; User Equipment (UE) conformance specification; Radio resource management;

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# 1 Scope

The present document specifies the recommended applicability statement and completion status for the test cases included in 3GPP TS 38.521-1 [1], TS 38.521-2 [2], TS 38.521-3 [3], TS 38.521-4 [4] and TS 38.533 [5]. These applicability statements are based on the features implemented in the UE.

Special conformance testing functions can be found in 3GPP TS 38.509 [6] and the common test environments are included in 3GPP TS 38.508-1 [7]. Common implementation conformance statement (ICS) proforma can be found in 3GPP TS 38.508-2 [8].

The present document is valid for UE implemented according to 3GPP releases starting from Release 15 up to the Release indicated on the cover page of the present document.

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# 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.
- For a non-specific reference, the latest version applies. In the case of a reference to a 3GPP document (including a GSM document), a non-specific reference implicitly refers to the latest version of that document in the same Release as the present document unless the context in which the reference is made suggests a different Release is relevant (information on the applicable release in a particular context can be found in e.g. test case title, description or applicability, message description or content).

[1] to [11] (void)

[12] 3GPP TS 38.522 Release 17: "NR; User Equipment (UE) conformance specification; Applicability of radio transmission, radio reception and radio resource management test cases "

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# 3 Definitions, symbols and abbreviations

Void

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# 4 Recommended test case applicability

The requirements of the present document are provided in 3GPP TS 38.522 Release 17 [12].

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## Annex A (informative): Change history

Change history							
Date	Meeting	TDoc	CR	R ev	Cat	Subject/Comment	New version
2017-08	RAN5#76	R5-173911	-	-	-	Draft skeleton	0.0.1
2018-01	RAN5#1-5G-NR Adhoc	R5-180107	-	-	-	Updated after <a href="#">RAN5#1-5G-NR Adhoc</a> : - Foreword, scope, references, definitions, symbols and abbreviations, recommended test case applicability updated - clause 4.1.1, 4.1.2, 4.1.3 and 4.1.4 added - change history added	0.1.0
2018-03	RAN5 #78	R5-181687	-	-	-	TP for Clause 4.1.1 Range 1 standalone conformance test cases	0.2.0
2018-03	RAN5 #78	R5-181688	-	-	-	TP for Clause 4.1.2 Range 2 standalone conformance test cases	0.2.0
2018-03	RAN5 #78	R5-181689	-	-	-	TP for Clause 4.1.3 NR interworking between NR range1 and NR range2 and between NR and LTE conformance test cases	0.2.0
2018-04	RAN5#2-5G-NR Adhoc	R5-182013	-	-	-	TP for Clause 3 Definitions, symbols and abbreviations	0.3.0
2018-04	RAN5#2-5G-NR Adhoc	R5-182047	-	-	-	TP for Clause 4 Recommended test case applicability	0.3.0
2018-08	RAN5#80	R5-185209	-	-	-	TP for Clause 4.1.1 of TS 38.522	1.0.1
2018-08	RAN5#80	R5-185210	-	-	-	TP for Clause 4.1.2 of TS 38.522	1.0.1
2018-08	RAN5#80	R5-185211	-	-	-	TP for Clause 4.1.3 of TS 38.522	1.0.1
2018-09	RAN#81	-	-	-	-	raised to v15.0.0 with editorial changes only	15.0.0
2018-12	RAN#82	R5-186501	0013	-	F	Applicability rules implementation in 38.522	15.1.0
2018-12	RAN#82	R5-188223	0015	-	F	Applicability for RRM NR tests	15.1.0
2018-12	RAN#82	R5-187566	0016	-	F	Update note in section 4.1 to include CBW and SCS in RF test applicability	15.1.0
2018-12	RAN#82	R5-187849	0014	1	F	Adding applicability for new 38.521-1 CA TCs	15.1.0
2018-12	RAN#82	R5-187881	0008	1	F	Update Clause 1 Scope of TS 38.522	15.1.0
2018-12	RAN#82	R5-187884	0011	1	F	TP for Clause 4.1.3 of TS 38.522	15.1.0
2018-12	RAN#82	R5-187922	0017	-	F	Removing FR2 test case 7.4 from TS 38.522 due to testability issue	15.1.0
2019-01	RAN#82	R5-187882	0009	1	F	Update Clause 3 of TS 38.522	15.1.1
2019-01	RAN#82	R5-187883	0010	1	F	TP for Clause 4.1.1 of TS 38.522	15.1.1
2019-01	RAN#82	R5-187885	0012	1	F	TP for Clause 4.1.3 of TS 38.522	15.1.1
2019-03	RAN#83	R5-191722	0021	-	F	addition of applicability for BFD and measurement	15.2.0
2019-03	RAN#83	R5-192507	0020	1	F	TP for TS 38.522	15.2.0
2019-03	RAN#83	R5-192508	0022	1	F	Addition of RRM Test Cases Applicability	15.2.0
2019-06	RAN#84	R5-195444	0027	1	F	TP for TS 38.522	15.3.0
2019-06	RAN#84	-	-	-	-	Administrative release upgrade to match the release of 3GPP TS 38.508-1 and TS 38.521-1 which were upgraded at RAN#84 to Rel-16 due to Rel-16 relevant CR(s)	16.0.0
2019-06	RAN#84	-	-	-	-	Addition of missing Table part of R5-195444 and part of a note.	16.0.1
2019-06	RAN#84	-	-	-	-	Formatted big tables to landscape	16.0.2
2019-09	RAN#85	R5-197650	0030	1	-	TP for TS 38.522	16.1.0
2019-09	RAN#85	R5-197650	0030	1	-	Added missing changes of R5-197650	16.1.1
2019-12	RAN#86	R5-199089	0032	2	-	TP for TS 38.522	16.2.0
2020-03	RAN#87	R5-201036	0033	1	F	TP and format updated for TS 38.522	16.3.0
2020-06	RAN#88	R5-202958	0040	1	F	R16 TDD ENDC PC2 TP for TS 38.522	16.4.0
2020-06	RAN#88	R5-203114	0037	2	F	TP updated to applicability table	16.4.0
2020-09	RAN#89	R5-204098	0046	-	F	Correct applicability EN-DC event-triggered inter-frequency tests	16.5.0
2020-09	RAN#89	R5-204099	0047	-	F	Correct applicability NR SA event-triggered inter-frequency tests	16.5.0
2020-09	RAN#89	R5-204939	0043	1	F	TP for TS 38.522	16.5.0
2020-09	RAN#89	R5-204940	0044	1	F	Correction of 38.522	16.5.0
2020-12	RAN#90	R5-206905	0051	1	F	Update to applicability spec for 5G test cases	16.6.0
2021-03	RAN#91	R5-210506	0055	-	F	Correction of applicability definitions for long DRX cycle related test cases	16.7.0
2021-03	RAN#91	R5-210792	0058	-	F	Adding the test applicability of RF test cases for eMIMO	16.7.0
2021-03	RAN#91	R5-211158	0060	-	F	Addition of applicability new test case 6.3.2.1.3 in TS 38.521-4	16.7.0



2021-03	RAN#91	R5-211159	0061	-	F	Addition of applicability new test case 6.3.3.1.3 in TS 38.521-4	16.7.0
2021-03	RAN#91	R5-211610	0067	-	F	Applicability of Error Vector Magnitude for V2X for non-concurrent operation	16.7.0
2021-03	RAN#91	R5-211720	0054	1	F	Correction of applicability definitions for PUSCH HalfPi BPSK related test cases	16.7.0
2021-03	RAN#91	R5-211853	0059	1	F	Update to applicability spec for 5G test cases	16.7.0
2021-03	RAN#91	R5-211913	0057	1	F	Adding test applicability for switching test case	16.7.0
2021-03	RAN#91	R5-211917	0066	1	F	Addition of new RRM test cases to the applicability table in 4.2	16.7.0
2021-03	RAN#91	R5-211918	0068	1	F	Applicability for RRM NR HST test case 6.1.1.7 and 6.6.1.7	16.7.0
2021-06	RAN#92	R5-212172	0070	-	F	Removal of technical content in 38.522 v16.7.0 and substitution with pointer to the next Release	16.8.0

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# History

<b>Document history</b>		
V16.4.0	July 2020	Publication
V16.5.0	November 2020	Publication
V16.6.0	January 2021	Publication
V16.7.0	April 2021	Publication
V16.8.0	August 2021	Publication