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**5G;
LTE;
5GS;**

**User Equipment (UE) conformance specification;
Part 2: Common Implementation Conformance Statement (ICS)
proforma
(3GPP TS 38.508-2 version 16.8.0 Release 16)**



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Contents

Intellectual Property Rights	2
Legal Notice	2
Modal verbs terminology.....	2
Foreword.....	4
1 Scope	5
2 References	5
3 Definitions, symbols and abbreviations	6
3.1 Definitions	6
Annex A: Void	7
Annex B (informative): Change history	8
History	12

Foreword

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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:

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where:

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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 part 2 of a multi-part deliverable covering the 5G System (5GS) User Equipment (UE) protocol conformance specification, as identified below:

- 3GPP TS 38.508-1 [11]: "5GS; User Equipment (UE) conformance specification; Part 1: Common test environment".
- 3GPP TS 38.508-2: "**5GS; User Equipment (UE) conformance specification; Part 2: Common Implementation Conformance Statement (ICS) proforma**" (the present document).

1 Scope

The present document provides the Implementation Conformance Statement (ICS) proforma for 5G New Radio (NR) User Equipment (UE), in compliance with the relevant requirements.

Special conformance testing functions can be found in 3GPP TS 38.509 [12] and 3GPP TS 36.509 [14] and the common test environments are included in 3GPP TS 38.508-1 [11] and 3GPP TS 36.508 [13].

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.

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*.

[1] to [25] (void)

[26] 3GPP TS 38.508-2 Release 17: "5GS; User Equipment (UE) conformance specification; Part 2: Common Implementation Conformance Statement (ICS) proforma "

3 Definitions, symbols and abbreviations

3.1 Definitions

The requirements of the present document are provided in 3GPP TS 38.508-2 Release 17 [26].

Annex A: Void

Annex B (informative): Change history

Change history							
Date	Meeting	TDoc	CR	Rev	Cat	Subject/Comment	New version
2017-12	RAN5#77	R5-176852	-	-	-	Introduction of TS 38.508-2	0.1.0
2018-04	RAN5#2-5G-NR Adhoc	R5-182069	-	-	-	Addition of several required PICS	0.2.1
2018-05	RAN5#79	R5-183271	-	-	-	Addition of Missing PICS	1.0.0
2018-06	RAN#80	RP-181208	-	-	-	put under revision control as v15.0.0 with small editorial changes	15.0.0
2018-09	RAN#81	R5-185161	0001	1	F	Addition of PICS	15.1.0
2018-12	RAN#82	R5-187040	0010	-	F	Addition of new band into RF baseline implementation capabilities	15.2.0
2018-12	RAN#82	R5-187777	0011	1	F	Addition of PICS	15.2.0
2019-03	RAN#83	R5-192365	0020	1	F	Introduction of Physical Layer Baseline Implementation Capabilities for NR CA, NR DC and EN-DC	15.3.0
2019-03	RAN#83	R5-192706	0019	1	F	Introduction of Non 3GPP Access over WLAN PICS	15.3.0
2019-03	RAN#83	R5-192746	0017	1	F	Addition of Capability for test cases	15.3.0
2019-03	RAN#83	R5-192747	0018	1	F	PICS Update	15.3.0
2019-03	RAN#83	R5-192748	0021	1	F	Add UE capability PDU	15.3.0
2019-06	RAN#84	R5-193576	0027	-	F	Update of Clause 2 References of 38.508-2	15.4.0
2019-06	RAN#84	R5-193577	0028	-	F	Introduction of Table A.4.3.2A.2.1-3 configuration for FR1 Intra-band contiguous CA	15.4.0
2019-06	RAN#84	R5-193756	0030	-	F	Addition of UE capability for mobility	15.4.0
2019-06	RAN#84	R5-195137	0036	1	F	Addition of ICS for FR2 Multiband Relaxation declaration	15.4.0
2019-06	RAN#84	R5-195331	0031	1	F	PICS update	15.4.0
2019-06	RAN#84	R5-195428	0035	2	F	Resubmission: Addition of optional UE capabilities for Demod	15.4.0
2019-06	RAN#84	R5-195052	0029	1	F	Addition of CA_n41C CA_n66B and CA_n71B	16.0.0
2019-09	RAN#85	R5-197225	0037	1	F	Addition and Update of PICS	16.1.0
2019-09	RAN#85	R5-197440	0038	1	F	Addition of NR FR1 intraband non-contiguous and interband CA tables with combinations CA_66(2A), CA_n66A-n70A, CA_n66A-n71A, CA_n70A-n71a, CA_n66B-n70A, CA_n66(2A)-n70A, CA_n66(2A)-n71A to 38.508-2	16.1.0
2019-09	RAN#85	R5-197442	0045	-	F	Updates of SA and NSA information	16.1.0
2019-09	RAN#85	R5-197510	0044	1	F	Update to 38.508-2 for 4Rx handling	16.1.0
2019-12	RAN#86	R5-198169	0049		F	Introduction of UE capabilities for Rel-16 NR CA and EN-DC configurations	16.2.0
2019-12	RAN#86	R5-198349	0051		F	Addition of NR FR1 intraband non-contiguous and interband CA tables with combinations CA_n66B-n71A, CA_n66A-n70A-n71A, CA_n66B-n70A-n71A, CA_n66(2A)-n70A-n71A to 38.508-2	16.2.0
2019-12	RAN#86	R5-198873	0047	1	F	Add GAP pattern to PICS	16.2.0
2019-12	RAN#86	R5-198963	0048	1	F	Introduction of UE capabilities for Rel-15 NR CA, NR DC and EN-DC configurations	16.2.0
2019-12	RAN#86	R5-198964	0050	1	F	Introduction of UE capabilities for new Rel-16 NR bands and new SDL band n29 associated NR CA configuration CA_n29A-n66A	16.2.0
2019-12	RAN#86	R5-199076	0056	2	F	Addition of new PICS needed for testing	16.2.0
2019-12	RAN#86	R5-199305	0052	1	F	Update to 38.508-2 regarding 4Rx antenna ports capability	16.2.0
2019-12	RAN#86	R5-199312	0058		F	Correction to n66 intra-band CA Physical Layer Baseline Implementation Capabilities	16.2.0
2019-12	RAN#86	R5-199462	0054	2	F	EN-DC bands Implementation Conformance Statement (ICS) proforma Updates	16.2.0
2019-12	RAN#86	R5-199482	0053	1	F	Physical Layer Baseline Implementation Capabilities for Beam Correspondence	16.2.0
2020-03	RAN#87	R5-200558	0065		F	Beam Correspondence Mnemonic name update	16.3.0
2020-03	RAN#87	R5-200592	0067		F	Corrections on categories of NR DC and EN-DC physical layer capabilities in 38.508-2	16.3.0
2020-03	RAN#87	R5-200598	0068		F	Introduction on supported inter-band EN-DC configurations in 38.508-2	16.3.0
2020-03	RAN#87	R5-200636	0070		F	Corrections and Addition of NR PICS	16.3.0
2020-03	RAN#87	R5-200903	0059	1	F	Additional UE Power Class declaration	16.3.0
2020-03	RAN#87	R5-200923	0062	1	F	Introduction of UE capabilities for n95 SUL band	16.3.0
2020-03	RAN#87	R5-200969	0066	1	F	Corrections on categories of NR CA physical layer capabilities in 38.508-2	16.3.0
2020-03	RAN#87	R5-200970	0069	1	F	Adding modified MPR behaviour to physical layer capabilities	16.3.0
2020-03	RAN#87	R5-201062	0064	1	F	Introduction of UE capabilities for Rel-16 EN-DC configurations	16.3.0
2020-03	RAN#87	R5-201123	0060	1	F	Correction to NR TC PICS	16.3.0
2020-06	RAN#88	R5-201923	0075	-	F	Addition of TDD-TDD PC2 inter-band EN-DC UE RF Baseline implementation Capabilities declaration	16.4.0
2020-06	RAN#88	R5-202108	0077	-	F	Updates on UE capability for Rel-15 NR CA configuration	16.4.0
2020-06	RAN#88	R5-202226	0079	-	F	Update NR intra-band contiguous CA implementation capabilities in 38.508-2	16.4.0
2020-06	RAN#88	R5-202228	0080	-	F	Update RF baseline implementation capabilities in 38.508-2	16.4.0
2020-06	RAN#88	R5-202446	0082	-	F	Addition of EN-DC configurations DC_41C_n41A and DC_41D_n41A	16.4.0

2020-06	RAN#88	R5-202709	0078	1	F	Update ICS proforma tables for UE implementation types in A.4.1 of 38.508-2	16.4.0
2020-06	RAN#88	R5-202871	0074	1	F	Introduction of several new NR 2CA and 3CA combinations	16.4.0
2020-06	RAN#88	R5-203113	0076	2	F	Additions and corrections to PICS	16.4.0
2020-09	RAN#89	R5-203279	0085	-	F	n26 Implementation baseline capabilities in 38.508-2	16.5.0
2020-09	RAN#89	R5-203457	0088	-	F	Fixing References	16.5.0
2020-09	RAN#89	R5-203463	0089	-	F	Addition of PICs for CSI-RS measurement without associated SSB	16.5.0
2020-09	RAN#89	R5-203632	0090	-	F	Introduction of UE capabilities for additional Rel-15 band EN-DC inter-band configurations	16.5.0
2020-09	RAN#89	R5-203635	0091	-	F	Introduction of UE capabilities for additional Rel-16 EN-DC inter-band configurations	16.5.0
2020-09	RAN#89	R5-203911	0094	-	F	Update of A.4.3.2A for intra-band contiguous CA capabilities	16.5.0
2020-09	RAN#89	R5-203912	0095	-	F	Update of A.4.3.2A.3 for intra-band non-contiguous CA capabilities	16.5.0
2020-09	RAN#89	R5-203914	0097	-	F	Update of A.4.3.2B for NR-DC capabilities	16.5.0
2020-09	RAN#89	R5-203917	0100	-	F	Update of A.4.3.2B.2.3 for inter-band EN-DC including FR2 capabilities	16.5.0
2020-09	RAN#89	R5-204332	0108	-	F	Adding new ICS for handling inter-system change S1-N1 and aligning PDN and PDU handling	16.5.0
2020-09	RAN#89	R5-204511	0109	1	F	Addition of UE capability for voiceFallbackIndicationEPS-r16	16.5.0
2020-09	RAN#89	R5-204544	0106	1	F	Addition and update of PICS	16.5.0
2020-09	RAN#89	R5-204710	0105	1	F	CR to 38.508-2 to allow vendor declarations related to beam peak searches	16.5.0
2020-09	RAN#89	R5-204759	0102	1	F	Addition of PICS for intra-band EN-DC PC2	16.5.0
2020-09	RAN#89	R5-204801	0084	1	F	Introduction of Rel-16 inter-band EN-DC configurations within FR1 for physical layer baseline implementation capabilities	16.5.0
2020-09	RAN#89	R5-204802	0096	1	F	Update of A.4.3.2A.4 for inter-band CA within FR1 capabilities	16.5.0
2020-09	RAN#89	R5-204803	0098	1	F	Update of A.4.3.2B.2 for intra-band EN-DC capabilities	16.5.0
2020-09	RAN#89	R5-204804	0099	1	F	Update of A.4.3.2B.2.3 for inter-band EN-DC including FR1 and FR2 capabilities	16.5.0
2020-09	RAN#89	R5-204805	0101	1	F	Update of A.4.3.2B.2.3 for inter-band EN-DC within FR1 capabilities	16.5.0
2020-09	RAN#89	R5-204806	0104	1	F	Introduction of UE capabilities for Rel-16 EN-DC configurations	16.5.0
2020-09	RAN#89	R5-204853	0086	1	F	Added UE Phy layer capability into 38.508-2 from 38.306	16.5.0
2020-09	RAN#89	R5-204902	0087	1	F	Updated table A.4.3.9-4 - 4 Rx antenna ports capabilities	16.5.0
2020-09	RAN#89	R5-204903	0092	1	F	Introduction and correction of general capabilities and some band-combo information for EN-DC	16.5.0
2020-09	RAN#89	R5-204904	0107	1	F	Add new PICS	16.5.0
2020-12	RAN#90	R5-205053	0110	-	F	ICS for iRAT RS-SINR and SFTD measurements	16.6.0
2020-12	RAN#90	R5-205612	0117	-	F	Addition of UE capabilities for Rel-16 UE power saving in NR	16.6.0
2020-12	RAN#90	R5-205640	0118	-	F	Addition of PC2 EN-DC DC_3A-n78A into RF Baseline implementation Capabilities	16.6.0
2020-12	RAN#90	R5-205695	0120	-	F	Addition of ICS for UE support PUSCH Pi2 BPSK	16.6.0
2020-12	RAN#90	R5-205707	0121	-	F	Revise ICS Proforma Tables for Remaining n14, n29, and n30 Capabilities	16.6.0
2020-12	RAN#90	R5-205773	0123	-	F	Correction to baseline implementation capabilities for a few Rel-16 inter-band EN-DC configurations	16.6.0
2020-12	RAN#90	R5-205774	0124	-	F	Addition of baseline implementation capabilities for Rel-15 EN-DC inter-band configuration DC_3A_n7A	16.6.0
2020-12	RAN#90	R5-205941	0127	-	F	Update for Flexible PDU-PDN - ICS definitions new and removal	16.6.0
2020-12	RAN#90	R5-206023	0129	-	F	Update of A.4.1 for UE implementation types	16.6.0
2020-12	RAN#90	R5-206024	0130	-	F	Update of A.4.3.1 for UE power class implementation capabilities	16.6.0
2020-12	RAN#90	R5-206025	0131	-	F	Update of A.4.3.2A.2 for implementation capabilities of NR intra-band contiguous CA	16.6.0
2020-12	RAN#90	R5-206026	0132	-	F	Update of A.4.3.2A.3 for implementation capabilities of NR intra-band non-contiguous CA	16.6.0
2020-12	RAN#90	R5-206027	0133	-	F	Update of A.4.3.2B for NR-DC implementation capabilities	16.6.0
2020-12	RAN#90	R5-206310	0115	1	F	Addition and update of PICS	16.6.0
2020-12	RAN#90	R5-206395	0112	1	F	Adding UE capabilities for IIoT test	16.6.0
2020-12	RAN#90	R5-206404	0138	1	F	Add UE capability for NR MobEnc TCs	16.6.0
2020-12	RAN#90	R5-206410	0137	1	F	Add UE capability for NR V2X TCs	16.6.0
2020-12	RAN#90	R5-206414	0139	1	F	Adding UE capabilities for eMIMO	16.6.0
2020-12	RAN#90	R5-206421	0116	1	F	Addition of PICS for Rel-16 RACS	16.6.0
2020-12	RAN#90	R5-206428	0111	1	F	Addition of UE capability for nr-HO-ToEN-DC-r16	16.6.0
2020-12	RAN#90	R5-206634	0114	1	F	Addition of EN-DC capabilities of number of NR DL or number of NR UL carriers	16.6.0
2020-12	RAN#90	R5-206635	0125	1	F	Correction to Enhanced Type X receiver PICS	16.6.0
2020-12	RAN#90	R5-206636	0126	1	F	Addition of PICS for LTE CRS rate matching capability	16.6.0
2020-12	RAN#90	R5-206637	0128	1	F	Addition of PICs for intra-frequency measurements with gap	16.6.0
2020-12	RAN#90	R5-206716	0122	1	F	Addition of baseline implementation capabilities for a few Rel-16 EN-DC inter-band configurations	16.6.0
2020-12	RAN#90	R5-206717	0134	1	F	Introduction of UE capabilities for additional Rel-16 EN-DC inter-band configurations	16.6.0
2020-12	RAN#90	R5-206771	0119	1	F	Addition of PC2 UE RF Baseline Implementation Capabilities for DC_3A_n41A	16.6.0

2021-03	RAN#91	R5-210081	0141	-	F	Introduction of Additional capabilities for NR Band n53	16.7.0
2021-03	RAN#91	R5-210483	0148	-	F	Correction of core spec Ref. for 4 Rx antenna ports Capabilities	16.7.0
2021-03	RAN#91	R5-210484	0149	-	F	Addition of PUSCH HalfPi BPSK capability in FR2	16.7.0
2021-03	RAN#91	R5-210566	0150	-	F	Update on manufacturer declaration required for Receiver Beam Peak Search	16.7.0
2021-03	RAN#91	R5-211001	0160	-	F	Update to NR FR1 2Rx-4Rx implementation Capabilities	16.7.0
2021-03	RAN#91	R5-211108	0163	-	F	Corrections to subclauses in 38.508-2 with appropriate subclause level and heading styles	16.7.0
2021-03	RAN#91	R5-211229	0169	-	F	Add n26 to 2Rx capabilities declaration	16.7.0
2021-03	RAN#91	R5-211376	0147	1	F	Addition and update of PICS	16.7.0
2021-03	RAN#91	R5-211449	0164	1	F	Correction of Table A.4.3.2B.2.3.12-1	16.7.0
2021-03	RAN#91	R5-211457	0154	1	F	Add UE capability for NR MobEnc	16.7.0
2021-03	RAN#91	R5-211463	0144	1	F	Adding scell dormancy indication outside active time to physical layer baseline implementation capabilities	16.7.0
2021-03	RAN#91	R5-211469	0143	1	F	Introduction of common implementation conformance statements for R16 NR SON and MDT	16.7.0
2021-03	RAN#91	R5-211492	0153	1	F	Introduction of general capability for NR to UTRA-FDD CELL_DCH CS handover	16.7.0
2021-03	RAN#91	R5-211674	0162	1	F	Introduction of UE capabilities for Rel-15 EN-DC FR2 configuration CA_n261(2A)	16.7.0
2021-03	RAN#91	R5-211815	0142	1	F	Addition of common ICS in A.4.3.11 for Rel-16 HST	16.7.0
2021-03	RAN#91	R5-211858	0140	1	F	Update of UE capabilities for EN-DC configurations	16.7.0
2021-03	RAN#91	R5-211859	0145	1	F	Update of Table A.4.3.2B.2.3.2-2 (DC_1A-8A_n78A, DC_3A-8A_n78A)	16.7.0
2021-03	RAN#91	R5-211860	0146	1	F	Update of Table A.4.3.2B.2.3.3-2 (DC_1A-3A-8A_n78A)	16.7.0
2021-03	RAN#91	R5-211861	0161	1	F	Introduction of UE capabilities for Rel-15 EN-DC FR1 configurations	16.7.0
2021-03	RAN#91	R5-211862	0165	1	F	Addition of PICS powerBoosting-pi2BPSK	16.7.0
2021-03	RAN#91	R5-211904	0170	1	F	Updating UE capability for Rel-16 NR inter-band CA configurations for band n1	16.7.0
2021-03	RAN#91	R5-211910	0155	1	F	Adding PICS for UL switching	16.7.0
2021-06	RAN#92	R5-212167	0176	-	F	Removal of technical content in 38.508-2 v16.7.0 and substitution with pointer to the next Release	16.8.0

History

Document history		
V16.4.0	July 2020	Publication
V16.5.0	November 2020	Publication
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