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Part 2: Common Implementation Conformance Statement (ICS) proforma
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Contents

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:

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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] 3GPP TR 21.905: "Vocabulary for 3GPP Specifications".

[2] 3GPP TS 38.523-1: "5GS; UE conformance specification; Part 1: Protocol conformance specification".

[3] 3GPP TS 38.523-2: “5GS; User Equipment (UE) conformance specification; Part 2: Applicability of protocol test cases”.

[4] 3GPP TS 38.523-3: “5GS; User Equipment (UE) conformance specification; Part 3: Protocol Test Suites”.

[5] 3GPP TS 38.521-1: “NR; User Equipment (UE) conformance specification; Radio transmission and reception; Part 1: Range 1 Standalone”.

[6] 3GPP TS 38.521-2: “NR; User Equipment (UE) conformance specification; Radio transmission and reception; Part 2: Range 2 Standalone”.

[7] 3GPP TS 38.521-3: “NR; User Equipment (UE) conformance specification; Radio transmission and reception; Part 3: Range 1 and Range 2 Interworking operation with other radios”.

[8] 3GPP TS 38.521-4: “NR; User Equipment conformance specification; Radio transmission and reception; Part 4: Performance”.

[9] 3GPP TS 38.522: “NR; User Equipment (UE) conformance specification; Applicability of radio transmission, radio reception and radio resource management test cases”.

[10] 3GPP TS 38.533: “NR; User Equipment (UE) conformance specification; Radio resource management”.

[11] 3GPP TS 38.508-1: "5GS; User Equipment (UE) conformance specification; Part 1: Common test environment".

[12] 3GPP TS 38.509: "5GS; Special conformance testing functions for UE".

[13] 3GPP TS 36.508: "Evolved Universal Terrestrial Radio Access (E-UTRA) and Evolved Universal Terrestrial Radio Access (E-UTRAN); Common Test Environments for User Equipment (UE) Conformance Testing".

[14] 3GPP TS 36.509: "Evolved Universal Terrestrial Radio Access (E-UTRA) and Evolved Universal Terrestrial Radio Access Network (E-UTRAN); Special conformance testing functions for User Equipment (UE)".

[15] 3GPP TS 34.229-2: "Internet Protocol (IP) multimedia call control protocol based on Session Initiation Protocol (SIP) and Session Description Protocol (SDP);User Equipment (UE) conformance specification; Part 2: Implementation Conformance Statement (ICS) specification".

[16] 3GPP TS 36.523-2: "Evolved Universal Terrestrial Radio Access (E-UTRA) and Evolved Universal Terrestrial Radio Access (E-UTRAN); User Equipment (UE) conformance specification; Part 2: Implementation Conformance Statement (ICS) proforma specification".

[17] 3GPP TS 38.306: “NR; User Equipment (UE) radio access capabilities”.

[18] ISO/IEC 9646-7: "Information technology - Open systems interconnection - Conformance testing methodology and framework - Part 7: Implementation Conformance Statements".

[19] 3GPP TS 38.307: “NR; User Equipments (UEs) supporting a release-independent frequency band”.

[20] 3GPP TS 37.340:"Evolved Universal Terrestrial Radio Access (E-UTRA) and NR; Multi-connectivity; Stage 2".

[21] 3GPP TS 38.300: "NR; NR and NG-RAN Overall Description; Stage 2".

[22] 3GPP TS 24.229: "IP multimedia call control protocol based on Session Initiation Protocol (SIP) and Session Description Protocol (SDP); Stage 3"

[23] 3GPP TS 38.101-1: “NR; User Equipment (UE) radio transmission and reception; Part 1: Range 1 Standalone”

[24] 3GPP TS 38.101-2: “NR; User Equipment (UE) radio transmission and reception; Part 2: Range 2 Standalone”

[25] 3GPP TS 38.101-3: “NR; User Equipment (UE) radio transmission and reception; Part 3: Range 1 and Range 2 Interworking operation with other radios”

[26] 3GPP TS 23.003: “Numbering, addressing and identification”

3 Definitions, symbols and abbreviations

3.1 Definitions

For the purposes of the present document, the terms and definitions given in TR 21.905 [5] and the following apply. A term defined in the present document takes precedence over the definition of the same term, if any, in TR 21.905 [5].

Implementation Conformance Statement (ICS): statement made by the supplier of an implementation or system claimed to conform to a given specification, stating which capabilities have been implemented

ICS proforma: document, in the form of a questionnaire, which when completed for an implementation or system becomes an ICS

Implementation extra Information for Testing (IXIT): A statement made by a supplier or implementer of an UEUT which contains or references all of the information (in addition to that given in the ICS) related to the UEUT and its testing environment, which will enable the test laboratory to run an appropriate test suite against the UEUT

IXIT proforma: A document, in the form of a questionnaire, which when completed for an UEUT becomes an IXIT

Protocol Implementation Conformance Statement (PICS): An ICS for an implementation or system claimed to conform to a given protocol specification

Protocol Implementation extra Information for Testing (PIXIT): An IXIT related to testing for conformance to a given protocol specification

Static conformance review: A review of the extent to which the static conformance requirements are claimed to be supported by the UEUT, by comparing the answers in the ICS(s) with the static conformance requirements expressed in the relevant specification(s)

3.2 Symbols

For the purposes of the present document, the following symbols apply:

<symbol> <Explanation>

3.3 Abbreviations

For the purposes of the present document, the abbreviations given in 3GPP TR 21.905 [1] and the following apply. An abbreviation defined in the present document takes precedence over the definition of the same abbreviation, if any, in 3GPP TR 21.905 [1].

For the purposes of the present document, the following abbreviations apply:

FFS	For Further Study
ICS	Implementation Conformance Statement
IXIT	Implementation extra Information for Testing
PICS	Protocol Implementation Conformance Statement
PIXIT	Protocol Implementation extra Information for Testing
SCS	System Conformance Statement
TC	Test Case
UEUT	User Equipment Under Test

Annex A (normative):ICS proforma for NR/5GS Generation User Equipment

A.1 Guidance for completing the ICS proforma

A.1.1 Purposes and structure

The purpose of this ICS proforma is to provide a mechanism whereby a supplier of an implementation of the requirements defined in relevant specifications may provide information about the implementation in a standardised manner.

The ICS proforma is subdivided into clauses for the following categories of information:

- instructions for completing the ICS proforma;
- identification of the implementation;
- identification of the protocol;
- ICS proforma tables (for example: UE implementation types, Teleservices, etc).

A.1.2 Abbreviations and conventions

The ICS proforma contained in this annex is comprised of information in tabular form in accordance with the guidelines presented in ISO/IEC 9646-7 [18].

Item column

The item column contains a number which identifies the item in the table.

Item description column

The item description column describes in free text each respective item (e.g. parameters, timers, etc.). It implicitly means "is <item description> supported by the implementation?".

Reference column

The reference column gives reference to the relevant 3GPP core specifications.

Release column

The release column indicates the earliest release from which the capability or option is introduced.

Mnemonic column

The Mnemonic column contains mnemonic identifiers for each item.

Comments column

This column is left blank for particular use by the reader of the present document.

References to items

For each possible item answer (answer in the support column) within the ICS proforma there exists a unique reference, used, for example, in the conditional expressions. It is defined as the table identifier, followed by a solidus character "/", followed by the item number in the table. If there is more than one support column in a table, the columns shall be discriminated by letters (a, b, etc.), respectively.

A.1.3 Instructions for completing the ICS proforma

The supplier of the implementation may complete the ICS proforma in each of the spaces provided. More detailed instructions are given at the beginning of the different clauses of the ICS proforma.

A.2 Identification of the User Equipment

Identification of the User Equipment should be filled in so as to provide as much detail as possible regarding version numbers and configuration options.

The product supplier information and client information should both be filled in if they are different.

A person who can answer queries regarding information supplied in the ICS should be named as the contact person.

A.2.1 Date of the statement

.....

A.2.2 User Equipment Under Test (UEUT) identification

UEUT name:

.....

.....

Hardware configuration:

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.....

.....

Software configuration:

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.....

.....

A.2.3 Product supplier

Name:

.....

Address:

.....

.....

.....

Telephone number:

.....

Facsimile number:

.....

E-mail address:

.....

Additional information:

.....

.....

.....

A.2.4 Client

Name:

.....

Address:

.....

.....

.....

Telephone number:

.....

Facsimile number:

.....

E-mail address:

.....

Additional information:

.....

.....

.....

A.2.5 ICS contact person

Name:

.....

Telephone number:

.....

Facsimile number:

.....

E-mail address:

.....

Additional information:

.....

.....

A.3 Identification of the protocol

This ICS proforma applies to the 3GPP standards listed in the normative references clause of the present document.

A.4 ICS proforma tables

A.4.1 UE Implementation Types

Table A.4.1-1: UE Radio Technologies

Item	UE Radio Technologies	Ref.	Release	Mnemonic	Comments
1	NR FDD	38.101-1	Rel-15	pc_nrFDD	
2	NR TDD	38.101-1, 38.101-2	Rel-15	pc_nrTDD	
3	NR sidelink	38.101-1	Rel-16	pc_nrSL	

Table A.4.1-2: UE general functionality

Item	UE Functionality	Ref.	Release	Mnemonic	Comments
1	Multiple NR FDD bands	38.101-1, 5.2	Rel-15	pc_nrFDD_MultiBand	
2	Multiple NR TDD bands	38.101-1, 5.2, 38.101-2, 5.2	Rel-15	pc_nrTDD_MultiBand	
3	NR SUL	38.101-1	Rel-15	pc_nrSUL	
4	NR SDL	38.101-1	Rel-15	pc_nrSDL	
5	Multiple NR SUL bands	38.101-1, 5.2	Rel-15	pc_nrSUL_MultiBand	
6	Multiple NR SDL bands	38.101-1, 5.2	Rel-15	pc_nrSDL_MultiBand	
7	Frequency range FR1	38.101-1, 5.1	Rel-15	pc_nrFR1	
8	Frequency range FR2	38.101-2, 5.1	Rel-15	pc_nrFR2	

Table A.4.1-3: RAN-CN Interface Options

Item	UE support of RAN-CN Interface Options	Ref.	Release	Mnemonic	Comments
1	NG-RAN NR	38.300	Rel-15	pc_NG_RAN_NR	Option 2
2	EN-DC	37.340	Rel-15	pc_EN_DC	Option 3
3	NE-DC	37.340	Rel-15	pc_NE_DC	Option 4
4	NG-RAN E-UTRA	38.300	Rel-15	pc_NG_RAN_EUTRA	Option 5
5	NGEN-DC	37.340	Rel-15	pc_NGEN_DC	Option 7

Table A.4.1-4: NSA DC UE Radio Technologies

Item	NSA UE Radio Technologies	Ref.	Release	Mnemonic	Comments
1	Intra-Band Contiguous EN-DC	38.101-3, 5.5B.2	Rel-15	pc_IntraBand_Contiguous_ENDC	
2	Intra-Band Non-Contiguous EN-DC	38.101-3, 5.5B.3	Rel-15	pc_IntraBand_Non_Contiguous_ENDC	
3	Inter-Band EN-DC within FR1	38.101-3, 5.5B.4	Rel-15	pc_InterBand_ENDC_WithinFR1	
4	Inter-Band EN-DC including FR2	38.101-3, 5.5B.5	Rel-15	pc_InterBand_ENDC_IncludingFR2	
5	Inter-band EN-DC including FR1 and FR2	38.101-3, 5.5B.6	Rel-15	pc_InterBand_ENDC_IncludingFR1_FR2	
6	Inter-band NR-DC between FR1 and FR2	38.101-3, 5.5B.7	Rel-15	pc_InterBand_NRDC_BetweenFR1_FR2	
7	Inter-Band NE-DC within FR1	38.101-3, 5.5B.4a	Rel-15	pc_InterBand_NEDC_WithinFR1	

Table A.4.1-4A: SA CA UE Radio Technologies

Item	SA UE Radio Technologies	Ref.	Release	Mnemonic	Comments
1	Intra-Band Contiguous CA within FR1	38.101-1, 5.5A.1	Rel-15	pc_IntraBand_Contiguous_CA_WithinFR1	
2	Intra-Band Non-contiguous CA within FR1	38.101-1, 5.5A.2	Rel-16	pc_IntraBand_NonContiguous_CA_WithinFR1	
3	Intra-Band Contiguous CA within FR2	38.101-2, 5.5A.1	Rel-15	pc_IntraBand_Contiguous_CA_WithinFR2	
4	Intra-Band Non-contiguous CA within FR2	38.101-2, 5.5A.2	Rel-15	pc_IntraBand_NonContiguous_CA_WithinFR2	
5	Inter-Band CA within FR1	38.101-1, 5.5A.3	Rel-15	pc_InterBand_CA_WithinFR1	
6	Inter-Band CA within FR2	38.101-2, 5.5A.3	Rel-16	pc_InterBand_CA_WithinFR2	
7	Inter-band CA between FR1 and FR2	38.101-3, 5.5A.1	Rel-15	pc_InterBand_CA_BetweenFR1_FR2	

Table A.4.1-5: 5GS UE Core Technologies

Item	5GS UE Core Technologies	Ref.	Release	Mnemonic	Comments
1	UE Supports 5G Core Network	24.501	Rel-15	pc_5GCN	
2	UE Supports 5G Core Network over non-3GPP Access Network	24.501, 4.7	Rel-15	pc_5GCN_N3AN	
3	UE Supports only Stand-alone Non-Public Network	23.501, 5.30.2.3, 38.300, 16.6.1	Rel-16	pc_SNPN_only	UEs operating only in SNPN access mode

A.4.2 UE Service Capabilities

A.4.2.1 3GPP Standardised UE Service Capabilities

A.4.2.1.1 Bearer Services

Table A.4.2.1.1-1: Definition of Bearer Services

Item	Definition of Bearer Services	Ref.	Release	Mnemonic	Comments
1	FFS				

A.4.3 Baseline Implementation Capabilities

Table A.4.3-1: Supported protocols

Item	Supported protocols	Ref.	Release	Mnemonic	Comments
1	5GS Mobility Management	24.501	Rel-15		
2	5GS Session Management	24.501	Rel-15		
3	Radio Resource Control	38.331	Rel-15		
4	Service Data Adaptation Protocol	37.324	Rel-15		
5	Packet Data Convergence Protocol	38.323	Rel-15		
6	Radio Link Control	38.322	Rel-15		
7	Medium Access Control	38.321	Rel-15		
8	Physical Layer	38.201	Rel-15		

Table A.4.3-2: Special Conformance Testing Functions

Item	Special Conformance Testing Functions	Ref.	Release	Mnemonic	Comments
1	UE test loop	38.509	Rel-15		
2	UE Power Limit Function (UPLF)	38.509, 5.11	Rel-16		

A.4.3.1 RF Baseline Implementation Capabilities

NOTE: The values indicated in column "Release" for bands are to be understood as the specifications release version in which a band was introduced and not as a mandate that a UE conforming to particular release shall support a particular band. For further guidance to release independent bands see TS 38.307 [19].

NOTE: See Annex B for status of completed NR bands and power classes in this version of 3GPP UE conformance test specifications.

Table A.4.3.1-1: NR FDD FR1 RF Baseline Implementation Capabilities

Item	NR FDD FR1 RF Baseline Implementation Capabilities	Ref.	Release	Mnemonic	Comments
1	NR Frequency band: 1920-1980 MHz (UL), 2110-2170 MHz (DL)	38.101-1, 5.2	Rel-15	pc_nrBand1_Supp	NR FDD FR1 Band n1
2	NR Frequency band: 1850-1910 MHz (UL), 1930-1990 MHz (DL)	38.101-1, 5.2	Rel-15	pc_nrBand2_Supp	NR FDD FR1 Band n2
3	NR Frequency band: 1710-1785 MHz (UL), 1805-1880 MHz (DL)	38.101-1, 5.2	Rel-15	pc_nrBand3_Supp	NR FDD FR1 Band n3
4	NR Frequency band: 824-849 MHz (UL), 869-894 MHz (DL)	38.101-1, 5.2	Rel-15	pc_nrBand5_Supp	NR FDD FR1 Band n5
5	NR Frequency band: 2500-2570 MHz (UL), 2620-2690 MHz (DL)	38.101-1, 5.2	Rel-15	pc_nrBand7_Supp	NR FDD FR1 Band n7
6	NR Frequency band: 880-915 MHz (UL), 925-960 MHz (DL)	38.101-1, 5.2	Rel-15	pc_nrBand8_Supp	NR FDD FR1 Band n8
6a to 6c	Reserved				
6d	NR Frequency band: 699-716 MHz (UL), 729-746 MHz (DL)	38.101-1, 5.2	Rel-15	pc_nrBand12_Supp	NR FDD FR1 Band n12
6e	Reserved				
6f	NR Frequency band: 788-798 MHz (UL), 758-768 MHz (DL)	38.101-1, 5.2	Rel-16	pc_nrBand14_Supp	NR FDD FR1 Band n14
6g to 6i	Reserved				
6j	NR Frequency band: 815-830 MHz (UL), 860-875 MHz (DL)	38.101-1, 5.2	Rel-16	pc_nrBand18_Supp	NR FDD FR1 Band n18
6k	Reserved				
7	NR Frequency band: 832-862 MHz (UL), 791-821 MHz (DL)	38.101-1, 5.2	Rel-15	pc_nrBand20_Supp	NR FDD FR1 Band n20
7a to 7c	Reserved				
7d	NR Frequency band: 1626.5-1660.5 MHz (UL), 1525-1559 MHz (DL)	38.101-1, 5.2	Rel-17	pc_nrBand24_Supp	NR FDD FR1 Band n24
7e	NR Frequency band: 1850-1915 MHz (UL), 1930- 1995 MHz (DL)	38.101-1, 5.2	Rel-15	pc_nrBand25_Supp	NR FDD FR1 Band n25
7f	NR Frequency band: 814-849 MHz (UL), 859-894 MHz (DL)	38.101-1, 5.2	Rel-16	pc_nrBand26_Supp	NR FDD FR1 Band n26
7g	Reserved				
8	NR Frequency band: 703-748 MHz (UL), 758-803 MHz (DL)	38.101-1, 5.2	Rel-15	pc_nrBand28_Supp	NR FDD FR1 Band n28
8a	Reserved				
8b	NR Frequency band: 2305-2315 MHz (UL), 2350-2360 MHz (DL)	38.101-1, 5.2	Rel-16	pc_nrBand30_Supp	NR FDD FR1 Band n30
8c to 8d	Reserved				
8e	NR Frequency band: 1920-2010 MHz (UL),2110-2200 MHz (DL)	38.101-1, 5.2	Rel-16	pc_nrBand65_Supp	NR FDD FR1 Band n65
9	NR Frequency band: 1710-1780 MHz (UL), 2110-2200 MHz (DL)	38.101-1, 5.2	Rel-15	pc_nrBand66_Supp	NR FDD FR1 Band n66
9a to 9c	Reserved				
10	NR Frequency band: 1695-1710 MHz (UL), 1995-2020 MHz (DL)	38.101-1, 5.2	Rel-15	pc_nrBand70_Supp	NR FDD FR1 Band n70
11	NR Frequency band: 663-698 MHz (UL), 617-652 MHz (DL)	38.101-1, 5.2	Rel-15	pc_nrBand71_Supp	NR FDD FR1 Band n71
12 to 13	Reserved				
14	NR Frequency band: 1427-1470 MHz (UL), 1475-1518 MHz (DL)	38.101-1, 5.2	Rel-15	pc_nrBand74_Supp	NR FDD FR1 Band n74
15	NR Frequency band: 832-862 MHz (UL), 1427-1432 MHz (DL)	38.101-1, 5.2	Rel-16	pc_nrBand91_Supp	NR FDD FR1 Band n91
16	NR Frequency band: 832-862 MHz (UL), 1432-1517 MHz (DL)	38.101-1, 5.2	Rel-16	pc_nrBand92_Supp	NR FDD FR1 Band n92
17	NR Frequency band: 880-915 MHz (UL), 1427-1432 MHz (DL)	38.101-1, 5.2	Rel-16	pc_nrBand93_Supp	NR FDD FR1 Band n93

18	NR Frequency band: 880-915 MHz (UL), 1432-1517 MHz (DL)	38.101-1, 5.2	Rel-16	pc_nrBand94_Supp	NR FDD FR1 Band n94
19	NR Frequency band: 874.4-880 MHz (UL), 919.4-925 MHz (DL)	38.101-1, 5.2	Rel-17	pc_nrBand100_Supp	NR FDD FR1 Band n100

Table A.4.3.1-2: NR TDD FR1 RF Baseline Implementation Capabilities

Item	NR TDD FR1 RF Baseline Implementation Capabilities	Ref.	Release	Mnemonic	Comments
0	NR Frequency band: 2010-2025 MHz (UL / DL)	38.101-1, 5.2	Rel-15	pc_nrBand34_Supp	NR TDD FR1 Band n34
0a to 0c	Reserved				
1	NR Frequency band: 2570-2620 MHz (UL / DL)	38.101-1, 5.2	Rel-15	pc_nrBand38_Supp	NR TDD FR1 Band n38
1a	NR Frequency band: 1880-1920 MHz (UL / DL)	38.101-1, 5.2	Rel-15	pc_nrBand39_Supp	NR TDD FR1 Band n39
1b	NR Frequency band: 2300-2400 MHz (UL / DL)	38.101-1, 5.2	Rel-15	pc_nrBand40_Supp	NR TDD FR1 Band n40
2	NR Frequency band: 2496-2690 MHz (UL / DL)	38.101-1, 5.2	Rel-15	pc_nrBand41_Supp	NR TDD FR1 Band n41
2a to 2d	Reserved				
2e	NR Frequency band: 5150-5925 MHz (UL / DL)	38.101-1, 5.2	Rel-16	pc_nrBand46_Supp	NR TDD FR1 Band n46
2f	Reserved				
2g	NR Frequency band: 3550-3700 MHz (UL / DL)	38.101-1, 5.2	Rel-16	pc_nrBand48_Supp	NR TDD FR1 Band n48
2h	Reserved				
2i	NR Frequency band: 1432-1517 MHz (UL / DL)	38.101-1, 5.2	Rel-15	pc_nrBand50_Supp	NR TDD FR1 Band n50
2j	NR Frequency band: 1427-1432 MHz (UL / DL)	38.101-1, 5.2	Rel-15	pc_nrBand51_Supp	NR TDD FR1 Band n51
2k	Reserved				
2l	NR Frequency band: 2483.5-2495 MHz (UL / DL)	38.101-1, 5.2	Rel-16	pc_nrBand53_Supp	NR TDD FR1 Band n53
3	NR Frequency band: 3300–4200 MHz (UL / DL)	38.101-1, 5.2	Rel-15	pc_nrBand77_Supp	NR TDD FR1 Band n77
4	NR Frequency band: 3300–3800 MHz (UL / DL)	38.101-1, 5.2	Rel-15	pc_nrBand78_Supp	NR TDD FR1 Band n78
5	NR Frequency band: 4400–5000 MHz (UL / DL)	38.101-1, 5.2	Rel-15	pc_nrBand79_Supp	NR TDD FR1 Band n79
6	Void				
7-11	Reserved				
12	NR Frequency band: 5925–7125 MHz (UL / DL)	38.101-1, 5.2	Rel-16	pc_nrBand96_Supp	NR TDD FR1 Band n96
13	NR Frequency band: 1900–1910 MHz (UL / DL)	38.101-1, 5.2	Rel-17	pc_nrBand101_Supp	NR TDD FR1 Band n101
14	NR Frequency band: 5925 MHz – 6425 MHz	38.101-1, 5.2	Rel-16	pc_nrBand102_Supp	NR TDD FR1 Band n102

Table A.4.3.1-3: NR TDD FR2 RF Baseline Implementation Capabilities

Item	NR TDD FR2 RF Baseline Implementation Capabilities	Ref.	Release	Mnemonic	Comments
1	NR Frequency band: 26500-29500 MHz (UL / DL)	38.101-2, 5.2	Rel-15	pc_nrBand257_Supp	NR TDD FR2 Band n257
2	NR Frequency band: 24250-27500 MHz (UL / DL)	38.101-2, 5.2	Rel-15	pc_nrBand258_Supp	NR TDD FR2 Band n258
2a	NR Frequency band: 39500-43500 MHz (UL / DL)	38.101-2, 5.2	Rel-16	pc_nrBand259_Supp	NR TDD FR2 Band n259
3	NR Frequency band: 37000–40000 MHz (UL / DL)	38.101-2, 5.2	Rel-15	pc_nrBand260_Supp	NR TDD FR2 Band n260
4	NR Frequency band: 27500–28350 MHz (UL / DL)	38.101-2, 5.2	Rel-15	pc_nrBand261_Supp	NR TDD FR2 Band n261

Table A.4.3.1-4: NR FR1 PC2 RF Baseline Implementation Capabilities

Item	NR FR1 PC2 RF Baseline Implementation Capabilities	Ref.	Release	Mnemonic	Comments
0	NR Frequency band: 2300-2400 MHz (UL / DL)	38.101-1, 6.2.1	Rel-16	pc_nrBand40_PC2_Supp	NR FR1 PC2 Band n40
1	NR Frequency band: 2496-2690 MHz (UL / DL)	38.101-1, 6.2.1	Rel-15	pc_nrBand41_PC2_Supp	NR FR1 PC2 Band n41
2	NR Frequency band: 3300-4200 MHz (UL / DL)	38.101-1, 6.2.1	Rel-15	pc_nrBand77_PC2_Supp	NR FR1 PC2 Band n77
3	NR Frequency band: 3300–3800 MHz (UL / DL)	38.101-1, 6.2.1	Rel-15	pc_nrBand78_PC2_Supp	NR FR1 PC2 Band n78
4	NR Frequency band: 4400–5000 MHz (UL / DL)	38.101-1, 6.2.1	Rel-15	pc_nrBand79_PC2_Supp	NR FR1 PC2 Band n79
5	NR Frequency band: 2010–2025 MHz	38.101-1, 6.2.1	Rel-16	pc_nrBand34_PC2_Supp	NR FR1 PC2 Band n34
6	NR Frequency band: 1880–1920 MHz	38.101-1, 6.2.1	Rel-16	pc_nrBand39_PC2_Supp	NR FR1 PC2 Band n39
7	NR Frequency band: 1920-1980 MHz (UL), 2110-2170 MHz (DL)	38.101-1, 6.2.1	Rel-17	pc_nrBand1_PC2_Supp	NR FR1 PC2 Band n1
8	NR Frequency band: 1710-1785 MHz (UL), 1805-1880 MHz (DL)	38.101-1, 6.2.1	Rel-17	pc_nrBand3_PC2_Supp	NR FR1 PC2 Band n3

Table A.4.3.1-4a: NR FR2 PC2 RF Baseline Implementation Capabilities

Item	NR FR2 PC2 RF Baseline Implementation Capabilities	Ref.	Release	Mnemonic	Comments
1	NR Frequency band: 26500-29500 MHz (UL / DL)	38.101-2, 6.2.1	Rel-15	pc_nrBand257_PC2_Supp	NR FR2 PC2 Band n257
2	NR Frequency band: 24250-27500 MHz (UL / DL)	38.101-2, 6.2.1	Rel-15	pc_nrBand258_PC2_Supp	NR FR2 PC2 Band n258
3	NR Frequency band: 27500–28350 MHz (UL / DL)	38.101-2, 6.2.1	Rel-15	pc_nrBand261_PC2_Supp	NR FR2 PC2 Band n261

Table A.4.3.1-4b: NR FR1 PC1 RF Baseline Implementation Capabilities

Item	NR FR1 PC1 RF Baseline Implementation Capabilities	Ref.	Release	Mnemonic	Comments
1	NR Frequency band: 788-798 MHz (UL), 758-768 MHz (DL)	38.101-1, 6.2.1	Rel-16	pc_nrBand14_PC1_Supp	NR FR1 PC1 Band n14

Table A.4.3.1-4c: NR FR2 PC1 RF Baseline Implementation Capabilities

Item	NR FR2 PC1 RF Baseline Implementation Capabilities	Ref.	Release	Mnemonic	Comments
1	NR Frequency band: 26500-29500 MHz (UL / DL)	38.101-2, 6.2.1	Rel-15	pc_nrBand257_PC1_Supp	NR FR2 PC1 Band n257
2	NR Frequency band: 24250-27500 MHz (UL / DL)	38.101-2, 6.2.1	Rel-15	pc_nrBand258_PC1_Supp	NR FR2 PC1 Band n258
3	NR Frequency band: 37000-40000 MHz (UL / DL)	38.101-2, 6.2.1	Rel-15	pc_nrBand260_PC1_Supp	NR FR2 PC1 Band n260
4	NR Frequency band: 27500–28350 MHz (UL / DL)	38.101-2, 6.2.1	Rel-15	pc_nrBand261_PC1_Supp	NR FR2 PC1 Band n261

Table A.4.3.1-4d: NR FR2 PC4 RF Baseline Implementation Capabilities

Item	NR FR2 PC4 RF Baseline Implementation Capabilities	Ref.	Release	Mnemonic	Comments
1	NR Frequency band: 26500-29500 MHz (UL / DL)	38.101-2, 6.2.1	Rel-15	pc_nrBand257_PC4_Supp	NR FR2 PC4 Band n257
2	NR Frequency band: 24250-27500 MHz (UL / DL)	38.101-2, 6.2.1	Rel-15	pc_nrBand258_PC4_Supp	NR FR2 PC4 Band n258
3	NR Frequency band: 37000-40000 MHz (UL / DL)	38.101-2, 6.2.1	Rel-15	pc_nrBand260_PC4_Supp	NR FR2 PC4 Band n260
4	NR Frequency band: 27500–28350 MHz (UL / DL)	38.101-2, 6.2.1	Rel-15	pc_nrBand261_PC4_Supp	NR FR2 PC4 Band n261

Table A.4.3.1-4e: NR FR1 PC1.5 RF Baseline Implementation Capabilities

Item	NR FR1 PC1.5 RF Baseline Implementation Capabilities	Ref.	Release	Mnemonic	Comments
1	NR Frequency band: 3300-4200 MHz	38.101-1, 6.2.1	Rel-15	pc_nrBand77_PC1.5_Supp	NR FR1 PC1.5 Band n77
2	NR Frequency band: 3300–3800 MHz	38.101-1, 6.2.1	Rel-15	pc_nrBand78_PC1.5_Supp	NR FR1 PC1.5 Band n78
3	NR Frequency band: 4400-5000 MHz	38.101-1, 6.2.1	Rel-15	pc_nrBand79_PC1.5_Supp	NR FR1 PC1.5 Band n79
4	NR Frequency band: 2496-2690 MHz	38.101-1, 6.2.1	Rel-15	pc_nrBand41_PC1.5_Supp	NR FR1 PC1.5 Band n41

Table A.4.3.1-4f: NR FR1 maxNumberSRS-Ports-PerResource RF Baseline Implementation Capabilities (Rel-15)

Item	NR Band	UE Physical Layer Baseline Implementation Capabilities	Ref.	Release	Mnemonic	Supported maxNumberSRS-Ports-PerResource
1	n41	NR_n41 maxNumberSRS-Ports-PerResource	38.306, 4.2.7.7	Rel-15	pc_nrBand41_maxNumberSRS-Ports-PerResource_r15	

Table A.4.3.1-4g: NR FR1 maxUplinkDutyCycle-PC2-FR1 RF Baseline Implementation Capabilities

Item	NR Band	UE Physical Layer Baseline Implementation Capabilities	Ref.	Release	Mnemonic Parameter Name	Parameter Type	Supported Value	Supported UE capability (NOTE 1)
1	n41	NR_n41 maxUplinkDutyCycle-PC2-FR1	38.306, 4.2.7.2	Rel-15	pc_nrBand41_maxUplinkDutyCycle_PC2_FR1	enumerated	n60, n70, n80, n90, n100	
2	n79	NR_n79 maxUplinkDutyCycle-PC2-FR1	38.306, 4.2.7.2	Rel-15	pc_nrBand79_maxUplinkDutyCycle_PC2_FR1	enumerated	n60, n70, n80, n90, n100	
NOTE 1: The UE supplier shall indicate the supported maxUplinkDutyCycle-PC2-FR1 as per *RF-Parameters* in TS 38.331 Section 6.3.3 UE capability information elements and choose the supported value.								

Table A.4.3.1-4h: NR FR1 maxUplinkDutyCycle-PC1dot5-MPE-FR1-r16 RF Baseline Implementation Capabilities

Item	NR Band	UE Physical Layer Baseline Implementation Capabilities	Ref.	Release	Mnemonic Parameter Name	Parameter Type	Supported Value	Supported UE capability (NOTE 1)
1	n41	NR_n41 maxUplinkDutyCycle-PC1dot5-MPE-FR1-r16	38.306, 4.2.7.2	Rel-16	pc_nrBand41_maxUplinkDutyCycle_PC1dot5_MPE_FR1_r16	enumerated	n10, n15, n20, n25, n30, n40, n50, n60, n70, n80, n90, n100	
2	n79	NR_n79 maxUplinkDutyCycle-PC1dot5-MPE-FR1-r16	38.306, 4.2.7.2	Rel-16	pc_nrBand79_maxUplinkDutyCycle_PC1dot5_MPE_FR1_r16	enumerated	n10, n15, n20, n25, n30, n40, n50, n60, n70, n80, n90, n100	
NOTE 1: The UE supplier shall indicate the supported maxUplinkDutyCycle-PC1dot5-MPE-FR1-r16 as per RF-Parameters in TS 38.331 Section 6.3.3 UE capability information elements and choose the supported value.								

Table A.4.3.1-5: NR SUL FR1 RF Baseline Implementation Capabilities

Item	NR SUL FR1 RF Baseline Implementation Capabilities	Ref.	Release	Mnemonic	Comments
1	NR Frequency band: 1710-1785 MHz (UL)	38.101-1, 5.2	Rel-15	pc_nrBand80_Supp	NR SUL FR1 Band n80
2	NR Frequency band: 880-915 MHz (UL)	38.101-1, 5.2	Rel-15	pc_nrBand81_Supp	NR SUL FR1 Band n81
3	NR Frequency band: 832-862 MHz (UL)	38.101-1, 5.2	Rel-15	pc_nrBand82_Supp	NR SUL FR1 Band n82
4	NR Frequency band: 703-748 MHz (UL)	38.101-1, 5.2	Rel-15	pc_nrBand83_Supp	NR SUL FR1 Band n83
5	NR Frequency band: 1920-1980 MHz (UL)	38.101-1, 5.2	Rel-15	pc_nrBand84_Supp	NR SUL FR1 Band n84
6	NR Frequency band: 1710-1780 MHz (UL)	38.101-1, 5.2	Rel-15	pc_nrBand86_Supp	NR SUL FR1 Band n86
6a to 6b	Reserved				
6c	Reserved				
7	NR Frequency band: 2010-2025 MHz (UL)	38.101-1, 5.2	Rel-16	pc_nrBand95_Supp	NR SUL FR1 Band n95
8	NR Frequency band: 2300 MHz – 2400 MHz (UL)	38.101-1, 5.2	Rel-17	pc_nrBand97_Supp	NR SUL FR1 Band n97
9	NR Frequency band: 1626.5-1660.5 MHz (UL)	38.101-1, 5.2	Rel-17	pc_nrBand99_Supp	NR SUL FR1 Band n99

Table A.4.3.1-6: NR SDL FR1 RF Baseline Implementation Capabilities

Item	NR SDL FR1 RF Baseline Implementation Capabilities	Ref.	Release	Mnemonic	Comments
0	NR Frequency band: 717-728 MHz (DL)	38.101-1, 5.2	Rel-16	pc_nrBand29_Supp	NR SDL FR1 Band n29
1	NR Frequency band: 1432-1517 MHz (DL)	38.101-1, 5.2	Rel-15	pc_nrBand75_Supp	NR SDL FR1 Band n75
2	NR Frequency band: 1427-1432 MHz (DL)	38.101-1, 5.2	Rel-15	pc_nrBand76_Supp	NR SDL FR1 Band n76

Table A.4.3.1-7: UE Power Class implementation Capabilities (for one or more of the supported UE Power Class Implemented Capabilities in Table A.4.3.1-4, Table A.4.3.1-4a, Table A.4.3.1-4b, Table A.4.3.1-4c, Table A.4.3.1-4d and Table A.4.3.1-4e)

Item	UE Power Class implementation Capabilities	Ref.	Release	Mnemonic	Comments
1	UE Power Class 1 in FR1	38.101-1, 6.2.1	Rel-16	pc_FR1_PC1	Applicable to the bands in Table A.4.3.1-4b
1a	UE Power Class 1 in FR2	38.101-2, 6.2.1	Rel-15	pc_FR2_PC1	Applicable to the bands in Table A.4.3.1-4c
2	UE Power Class 2 in FR1	38.101-1, 6.2.1	Rel-15	pc_FR1_PC2	Applicable to the bands in Table A.4.3.1-4
2a	UE Power Class 2 in FR2	38.101-2, 6.2.1	Rel-15	pc_FR2_PC2	Applicable to the bands in Table A.4.3.1-4a
3	UE Power Class 3 in FR1	38.101-1, 6.2.1	Rel-15	pc_FR1_PC3	All applicable FR1 NR bands
3a	UE Power Class 3 in FR2	38.101-2, 6.2.1	Rel-15	pc_FR2_PC3	All applicable FR2 NR bands
4	UE Power Class 4 in FR2	38.101-2, 6.2.1	Rel-15	pc_FR2_PC4	Applicable to the bands in Table A.4.3.1-4d
5	UE Power Class 1.5 in FR1	38.101-1, 6.2.1	Rel-15	pc_FR1_PC1.5	Applicable to the bands in Table A.4.3.1-4e

Table A.4.3.1-7a: NR FR1 2Rx/4Rx implementation Capabilities

Item	UE 2Rx/4Rx implementation Capabilities	Ref.	Release	Mnemonic	Comments
1	UE 2Rx in FR1	38.101-1, 7.3	Rel-15	pc_FR1_2Rx	If the capability is supported then the Band(s) for which it is supported shall be indicated in Table A.4.3.9-4c
2	UE FDD 4Rx in FR1	38.101-1, 7.3	Rel-15	pc_FR1_FDD_4Rx	If the capability is supported then the Band(s) for which it is supported shall be indicated in Table A.4.3.9-4a
3	UE TDD 4Rx in FR1	38.101-1, 7.3	Rel-15	pc_FR1_TDD_4Rx	If the capability is supported then the Band(s) for which it is supported shall be indicated in Table A.4.3.9-4b
4	UE only supports 1Rx in FR1	38.101-1, 7.3I	Rel-17	pc_FR1_1Rx	If the capability is supported then the Band(s) for which it is supported shall be indicated in Table A.4.3.9-4e

Table A.4.3.1-8: Void

Table A.4.3.1-9: NR Sidelink FR1 RF Baseline Implementation Capabilities

Item	NR Sidelink FR1 RF Baseline Implementation Capabilities	Ref.	Release	Mnemonic	Comments
1	NR Frequency band: 2570-2620 MHz (Transmission), 2570-2620 MHz (Reception)	38.101-1, 5.2E	Rel-16	pc_nrBand38_NRSL_Supp	NR Sidelink FR1 Band n38
2	NR Frequency band: 5855-5925 MHz (Transmission), 5855-5925 MHz (Reception)	38.101-1, 5.2E	Rel-16	pc_nrBand47_NRSL_Supp	NR Sidelink FR1 Band n47

A.4.3.2 Physical Layer Baseline Implementation Capabilities

Table A.4.3.2-1: UE Physical Layer Baseline Implementation Capabilities

Item	UE Physical Layer Baseline Implementation Capabilities	Ref.	Release	Mnemonic	M	If indicated "Yes" the feature shall be implemented and successfully tested for the corresponding release	Comments
1	Support PDSCH reception based on semi-persistent scheduling	38.306, 4.2.7.10	Rel-15	pc_downlinkSPS	No		
2	Support 256QAM for PDSCH for FR1	38.306, 4.2.7.10	Rel-15	pc_pdsch_256QAM_FR1	CY		Mandatory for non-RedCap UEs and optional for RedCap UEs.
3	Support 256QAM for PDSCH for at least one NR FR2 band	38.306, 4.2.7.2	Rel-15	pc_pdsch_256QAM_FR2	No		
4	Support 256QAM for PUSCH for at least one NR FR1 band	38.306, 4.2.7.2	Rel-15	pc_pusch_256QAM_FR1	No		
4a	Support 256QAM for PUSCH for at least one NR FR2 band	38.306, 4.2.7.2	Rel-15	pc_pusch_256QAM_FR2	No		
5	Support receiving PDSCH using PDSCH mapping type A with less than seven symbols	38.306, 4.2.7.10	Rel-15	pc_pdsch_MappingTypeA	Yes	Yes	
6	Support receiving PDSCH using PDSCH mapping type B	38.306, 4.2.7.10	Rel-15	pc_pdsch_MappingTypeB	Yes		
7	Support resource allocation Type 0 for PUSCH	38.306, 4.2.7.10	Rel-15	pc_ra_Type0_PUSCH	No		
8	Support scaling factor 0.75 is applied to the band in the max data rate calculation	38.306, 4.2.7	Rel-15	pc_scalingFactor0dot75			
9	Support reconfiguration with sync using a contention free random access on PRACH resources that are associated with CSI-RS resources of the target cell	38.306, 4.2.7.10	Rel-15	pc_csi_RS_CFRA_ForHO	No		
10	Support Type 1 PUSCH transmissions with configured grant	38.306, 4.2.7.10	Rel-15	pc_configuredUL_GrantType1	No		
11	Support Type 2 PUSCH transmissions with configured grant	38.306, 4.2.7.10	Rel-15	pc_configuredUL_GrantType2	No		
12	Support PDSCH Reception when configured with higher layer parameter aggregationFactorDL > 1	38.306, 4.2.7.10	Rel-15	pc_pdsch_RepetitionMultiSlots	No		
13	Supports supplemental uplink with dynamic switch (DCI based selection of PUSCH carrier)	38.306, 4.2.7.7	Rel-15	pc_dynamicSwitchSUL	No		
14	Supports MIMO layers at the UE for PUSCH transmission with codebook precoding. UE indicating support of this feature shall also indicate support of PUSCH codebook coherency subset	38.306, 4.2.7.8	Rel-15	pc_nrMIMO_CB_PUSCH	No		Set to true if maxNumberMIMO-LayersCB-PUSCH has value different from "oneLayer"
15	Supports MIMO layers at the UE for PUSCH transmission using non-codebook precoding	38.306, 4.2.7.8	Rel-15	pc_nrMIMO_NonCB_PUSCH	No		Set to true if maxNumberMIMO-LayersNonCB-PUSCH has value different from "oneLayer"

16	Support receiving PDSCH with interleaved VRB-to-PRB mapping	38.306, 4.2.7.10	Rel-15	pc_interleavingVRB_ToPRB_PDSCH	Yes		
17	Support dynamic EN-DC power sharing for at least one EN-DC band combination_FR1 only	38.306, 4.2.7.9	Rel-15	pc_dynamicPowerSharingENDC	Yes		If the UE supports this capability it will dynamically share the power between NR and LTE if P_LTE + P_NR > Pcmax.
18	Supports up to 10 search spaces in a SCell per BWP	38.306, 4.2.7.10	Rel-15	pc_maxNumberSearchSpaces	No		
19	Supports spatial bundling of HARQ-ACK bits carried on PUCCH or PUSCH per PUCCH group. With spatial bundling, two HARQ-ACK bits for a DL MIMO data is bundled into a single bit by logical "AND" operation	38.306, 4.2.7.10	Rel-15	pc_spatialBundlingHARQ_ACK	Yes		
20	Support alternative additional DMRS position for co-existence with LTE CRS	38.306, 4.2.7.5	Rel-15	pc_additionalDMRS_DL_Alt	No		
21	Supports transmitting PUSCH scheduled by DCI format 0_0 or 0_1 when configured with higher layer parameter aggregationFactorIUL > 1	38.306, 4.2.7.10	Rel-15	pc_pusch_RepetitionMultiSlots	Yes		
22	Support beam correspondence without UL beam sweeping	38.306, 4.2.7.2	Rel-15	pc_beamCorrespondenceWithoutUL_BeamSweeping	Yes		A UE that can fulfil the requirements without UL beam sweeping then set the bit to 1. A UE that can fulfil the requirements with UL beam sweeping then set the bit to 0.
23	The maximum number of spatial multiplexing layer(s) supported by the UE for DL reception is 8 Layers. For single CC standalone NR, it is mandatory with capability signalling to support at least 4 MIMO layers in the bands where 4Rx is specified as mandatory for the given UE and at least 2 MIMO layers in FR2. If absent, the UE doesn't support MIMO on this carrier	38.306, 4.2.7.6	Rel-15	pc_maxNumberMIMO_LayersPDSCH_eightLayers	CY		Set to false if Table A.4.3.2-1/23A or 23B set to true.
23A	The maximum number of spatial multiplexing layer(s) supported by the UE for DL reception is 4 Layers.	38.306, 4.2.7.6	Rel-15	pc_maxNumberMIMO_LayersPDSCH_fourLayers	CY		Set to false if Table A.4.3.2-1/23 or 23B set to true.
23B	The maximum number of spatial multiplexing layer(s) supported by the UE for DL reception is 2 Layers.	38.306, 4.2.7.6	Rel-15	pc_maxNumberMIMO_LayersPDSCH_twoLayers	CY		Set to false if Table A.4.3.2-1/23 or 23A set to true.

24	Supports DCI and timer based active BWP switching delay type1	38.306, 4.2.7.10	Rel-15	pc_bwp_SwitchingDelay_Type1	No		It is mandatory to report one among BWP switching delay type1 or type 2 as supported
24A	Supports DCI and timer based active BWP switching delay type2	38.306, 4.2.7.10	Rel-15	pc_bwp_SwitchingDelay_Type2	No		It is mandatory to report one among BWP switching delay type1 or type 2 as supported
25A	Support modified MPR behaviour bit 0	38.306 4.2.7.2	Rel-15	pc_modifiedMPR_behaviour_bit0	No		Applicable to FR2 bands n257, n258, n260 and n261
25	Support modified MPR behaviour	38.306 4.2.7.2	Rel-15	pc_modifiedMPR_behaviour	No		
26	Support dynamic switching between resource allocation Types 0 and 1 for PDSCH	38.306, 4.2.7.10	Rel-15	pc_dynamicSwitchRA_Type0_1_PDSCH	No		
27	Support dynamic switching between resource allocation Types 0 and 1 for PUSCH	38.306, 4.2.7.10	Rel-15	pc_dynamicSwitchRA_Type0_1_PUSCH	No		
28	Support almost contiguous UL CP-OFDM transmissions in FR1	38.306, 4.2.7.10	Rel-15	pc_almostContiguousCP_OFDM_UL_FR1	No		
29	Support almost contiguous UL CP-OFDM transmissions in FR2	38.306, 4.2.7.10	Rel-15	pc_almostContiguousCP_OFDM_UL_FR2	No		
30	Support dynamic indication of applicable minimum scheduling restriction by DCI format 0_1 and 1_1, and the minimum scheduling offset for PDSCH and aperiodic CSI-RS triggering offset (K0), and PUSCH (K2), and the extended value range for aperiodic CSI-RS triggering offset	38.306, 4.2.7.10	Rel-16	pc_crossSlotScheduling	No		
31	Supports pi/2-BPSK modulation scheme for PUSCH in FR1	38.306, 4.2.7.10	Rel-15	pc_pusch_halfpiBPSK_FR1	No		
31a	Supports pi/2-BPSK modulation scheme for PUSCH in FR2	38.306, 4.2.7.10	Rel-15	pc_pusch_halfpiBPSK_FR2	Yes		
32	Support multi-DCI based multi-TRP and support of fully/partially overlapping PDSCHs in time and non-overlapping in frequency	38.306, 4.2.7.6	Rel-16	pc_multiDCI_MultiTRP_r16	No		
33	Support receiving PDSCH with resource mapping that excludes the REs determined by the higher layer configuration LTE-carrier configuring common RS	38.306, 4.2.7.2	Rel-15	pc_rateMatchingLTE_CRS	Yes		
34	Support of BWP operation without bandwidth restriction	38.306, 4.2.7.2	Rel-15	pc_bwp_WithoutRestriction	No		
35	Support of receiving SCell dormancy indication on SPCell using DCI format 2_6 outside the active time	38.306, 4.2.7.4	Rel-16	pc_scellDormancyOutsideActiveTime_r16	No		
36	Supports pi/2-BPSK modulation scheme for power boosting in FR1	38.306, 4.2.7.2	Rel-15	pc_powerBoosting_pi2BPSK	No		

37	Support of dynamic UL Tx switching	38.306, 4.2.7.1	Rel-16	pc_ULTxSwitchingBandPair	No		If the capability is supported then the band pair(s) for which it is supported shall be indicated in Table A.4.3.2A.4.1-3, Table A.4.3.2B.2.3.1-2 and Table A.4.3.2C.2-1
38	Support uplink transmission power boost by suspension of in-band emission (IBE) in FR2	38.306 4.2.7.2	Rel-16	pc_mpr_PowerBoost_FR2	No		
39	Supports the alternative 64QAM MCS table for PDSCH	38.306, 4.2.7.10	Rel-16	pc_dl_64qam_mcs_tableAlt	No		
40	Supports the CQI table with target BLER of 10^-5	38.306, 4.2.7.10	Rel-16	pc_cqi_tableAlt	No		
41	Supports of single DCI based spatial division multiplexing scheme	38.306, 4.2.7.5	Rel-16	pc_singledci_sdm	No		
42	Support of BWP adaptation (up to 2 BWPs) with the same numerology for FR1 FDD bands	38.306, 4.2.7.2	Rel-15	pc_bwp_SameNumerology_upto2_FR1_FDD	No		FR1 FDD bands
42a	Support of BWP adaptation (up to 2 BWPs) with the same numerology for FR1 TDD bands	38.306, 4.2.7.2	Rel-15	pc_bwp_SameNumerology_upto2_FR1_TDD	No		FR1 TDD bands
42b	Support of BWP adaptation (up to 2 BWPs) with the same numerology for FR2 bands	38.306, 4.2.7.2	Rel-15	pc_bwp_SameNumerology_upto2_FR2	No		FR2 bands
43	Support of BWP adaptation (up to 4 BWPs) with the same numerology for FR1 FDD bands	38.306, 4.2.7.2	Rel-15	pc_bwp_SameNumerology_upto4_FR1_FDD	No		FR1 FDD bands
43a	Support of BWP adaptation (up to 4 BWPs) with the same numerology for FR1 TDD bands	38.306, 4.2.7.2	Rel-15	pc_bwp_SameNumerology_upto4_FR1_TDD	No		FR1 TDD bands
43b	Support of BWP adaptation (up to 4 BWPs) with the same numerology for FR2 bands	38.306, 4.2.7.2	Rel-15	pc_bwp_SameNumerology_upto4_FR2	No		FR2 bands
44	Support BWP adaptation up to 4 BWPs with the different numerologies, via DCI and timer for FR1 FDD bands	38.306 4.2.7.2	Rel-15	pc_bwp_DiffNumerology_FR1_FDD	No		FR1 FDD bands
44a	Support BWP adaptation up to 4 BWPs with the different numerologies, via DCI and timer for FR1 TDD bands	38.306 4.2.7.2	Rel-15	pc_bwp_DiffNumerology_FR1_TDD	No		FR1 TDD bands
44b	Support BWP adaptation up to 4 BWPs with the different numerologies, via DCI and timer for FR2 bands	38.306 4.2.7.2	Rel-15	pc_bwp_DiffNumerology_FR2	No		FR2 bands
45	Support PUSCH repetition type B	38.306, 4.2.7.7	Rel-16	pc_pusch_RepetitionTypeB_r16	No		
46	Support of 2-Step RACH	38.306, 4.2.7.10	Rel-16	pc_twoStepRACH_r16	No		
47	Support of NR CA with NR shared spectrum channel access	38.306, 4.2.7.2a	Rel-16	pc_NRCASharedAccess	No		Deployment scenario A in Annex B.3 of TS 38.300 [21]
48	Support of EN-DC with NR shared spectrum channel access	38.306, 4.2.7.2a	Rel-16	pc_ENDCNRSharedAccess	No		Deployment scenario B in Annex B.3 of TS 38.300 [21]

49	Support of NR standalone shared spectrum channel access	38.306, 4.2.7.2a	Rel-16	pc_standaloneNRSharedAccess	No		Deployment scenario C in Annex B.3 of TS 38.300 [21]
50	Support of NR shared spectrum channel access with UL in licensed band	38.306, 4.2.7.2a	Rel-16	pc_NRSharedAccessUlLic	No		Deployment scenario D in Annex B.3 of TS 38.300 [21]
51	Support of NR-DC with NR shared spectrum channel access	38.306, 4.2.7.2a	Rel-16	pc_NRDCSharedAccess	No		Deployment scenario E in Annex B.3 of TS 38.300 [21]
52	Support monitoring DCI format 1_2 for DL scheduling and monitoring DCI format 0_2 for UL scheduling	38.306, 4.2.7.10	Rel-16	pc_dci_Format1_2And0_2_r16	No		
53	Support of multi-DCI based multi-TRP	38.306, 4.2.7.6	Rel-16	pc_multi_dci_multi_trp	No		
54	Support of single DCI based FDMSchemeA	38.306, 4.2.7.2	Rel-16	pc_single_dci_fdmschemeA	No		
55	Support of single-DCI based inter-slot TDM	38.306, 4.2.7.2	Rel-16	pc_single_dci_interslot_tdm	No		
56	Support of maximum number of TRS resource sets per CC which the UE can track simultaneously is at least 2	38.306, 4.2.7.2	Rel-16	pc_simultaneous_TRS	No		
57	Support of low PAPR DMRS	38.306 4.2.7.2	Rel-16	pc_lowPAPR_DMRS_pusch_precoding	No		
58	Support of UL full power transmission mode of full power	38.306, 4.2.7.7	Rel-16	pc_ul_FullPwrMode_r16	No		
59	Support of UL full power transmission mode of fullpowerMode1	38.306, 4.2.7.7	Rel-16	pc_ul_FullPwrMode1_r16	No		
60	Support of UL full power transmission mode of fullpowerMode2	38.306, 4.2.7.7	Rel-16	pc_ul_FullPwrMode2_r16	No		
61	Support of PDSCH processing capability 2	38.306, 4.2.7.5	Rel-16	pc_pdsch_processing_cap2	No		
62	Support Pre-Emption Indication	38.306, 4.2.7.10	Rel-15	pc_preEmptIndication_DL	No		
63	Support of SSB based BFD	38.306, 4.2.7.2	Rel-15	pc_maxNumberSSB_BFD	CY		
64	Support of CSI-RS based BFD	38.306, 4.2.7.2	Rel-15	pc_maxNumberCSI_RS_BFD	CY		
65	Support of SSB and/or CSI-RS based Link Recovery	38.306, 4.2.7.2	Rel-15	pc_maxNumberCSI_RS_SSB_CBD	CY		
66	Support of type II codebook	38.306, 4.2.7.2	Rel-15	pc_typeIICodebook	No		
67	Support of Enhanced Type II codebook with at least 16 ports per CSI-RS resource	38.306, 4.2.7.2	Rel-16	pc_enhanced_typeII_codebook	No		
68	Support of TDD NR UL transmission with a 7.5 kHz shift to the LTE raster	38.101-1, 5.4.2	Rel-15	pc_frequencyShift7p5khz_TDD	No		Mandatory since Rel-16
69	Support of FDD NR UL transmission with a 7.5 kHz shift to the LTE raster	38.101-1, 5.4.2	Rel-15	pc_frequencyShift7p5khz_FDD	Yes		
70	Void						

71	Support of density of CSI-RS for Channel Measurement Report	38.306, 4.2.7.2	Rel-16	pc_supportedCSI-RS-Density-CMR	No		
72	Support of SSB/CSI-RS for L1-SINR measurement	38.306, 4.2.7.2	Rel-16	pc_ssb-csirs-SINR-measurement	No		
73	Support of SSB as CMR with dedicated CSI-IM for L1-SINR measurement	38.306, 4.2.7.2	Rel-16	pc_supportedSINR-meas_ssbWithCSI-IM	No		
74	Support of SSB as CMR with dedicated NZP IMR for L1-SINR measurement	38.306, 4.2.7.2	Rel-16	pc_supportedSINR-meas_ssbWithNZP-IMR	No		
75	Support of CSI-RS as CMR with dedicated NZP IMR configured for L1-SINR measurement	38.306, 4.2.7.2	Rel-16	pc_supportedSINR-meas_csirsWithNZP-IMR	No		
76	Support of CSI-RS as CMR without dedicated IMR configured for L1-SINR measurement	38.306, 4.2.7.2	Rel-16	pc_supportedSINR-meas_csi-RSWithoutIMR	No		
77	Support of SCell beam failure recovery	38.306, 4.2.7.2	Rel-16	Pc_scellBFR	No		
78	Support of the maximum number of activated TCI states per BWP per CC is other than n1, including control and data	38.306, 4.2.7.2	Rel-15	pc_maxNumberActiveTCI_PerBWP	No		
79	Support enhanced UL performance for the transient period	38.306, 4.2.7.2	Rel-16	pc_enhancedUL_TransientPeriod_r16	No		
80	Supports the priority indicator field configured in DCI formats 1_1 and 1_2 in a BWP when configured to monitor both DCI formats 1_1 and 1_2 in the BWP	38.306, 4.2.7.10	Rel-16	pc_dci_DL_PriorityIndicator_r16	No		
81	Supports the priority indicator field configured in DCI formats 0_1 and 0_2 in a BWP when configured to monitor both DCI formats 0_1 and 0_2 in the BWP	38.306, 4.2.7.10	Rel-16	pc_dci_UL_PriorityIndicator_r16	No		A UE supporting this feature shall also support ul-IntraUE-Mux-r16 and dci-Format1-2And0-2-r16
82	Supports restricting data transmission from a given LCH to a configured (sub-) set of dynamic grant priority levels	38.306, 4.2.6	Rel-16	pc_lch_ToGrantPriorityRestriction_r16	No		
83	Supports two PUCCH group in CA with a same numerology across CCs for data and control channel.	38.306 4.2.7.7	Rel15	pc_twoPUCCH_group	No		
84	Support of transparent Tx diversity requirements for at least one NR FR1 band	38.306, 4.2.7.2 38.331, Annex C	Rel-15	pc_txDiversity_r16	No		FR1 only This capability has been introduced in Rel-16 and is early implementable from Rel-15 onwards.

85	Support of repetition of PUSCH transmission scheduled by RAR UL grant and DCI format 0_0 with CRC scrambled by TC-RNTI	38.306, 4.2.7.2	Rel-17	pc_pusch_RepetitionCRC_r17	No		
86	Support of DL scheduling slot offset (K0) greater than 0 for PDSCH mapping type A.	38.306, 4.2.7.10	Rel-15	pc_dl_SchedulingOffset_PDSCH_TypeA	Yes		
87	Support of CQI reporting with 4 bits per subband for NTN and shared spectrum channel access	38.306, 4.2.7.2	Rel-17	pc_cqi_4_BitsSubbandNTN_SharedSpectrumChAccess_r17	No		UE supports CQI reporting with 4 bits per subband for NTN and shared spectrum channel access
88	Support of propagation delay compensation based on legacy TA procedure for NTN and shared spectrum channel access	38.306, 4.2.7.2	Rel-17	pc_ta_BasedPDC_NTN_SharedSpectrumChAccess_r17	No		UE supports propagation delay compensation based on legacy TA procedure for NTN and shared spectrum channel access
89	Support of 8 dynamic slot-level repetitions for group-common PDSCH for multicast for NTN and shared spectrum channel access	38.306, 4.2.7.2	Rel-17	pc_dynamicSlotRepetitionMulticastNTN_SharedSpectrumChAccess_r17_n8	No		UE supports 8 dynamic slot-level repetitions for group-common PDSCH for multicast for NTN and shared spectrum channel access
90	Support of 16 dynamic slot-level repetitions for group-common PDSCH for multicast for NTN and shared spectrum channel access	38.306, 4.2.7.2	Rel-17	pc_dynamicSlotRepetitionMulticastNTN_SharedSpectrumChAccess_r17_n16	No		UE supports 16 dynamic slot-level repetitions for group-common PDSCH for multicast for NTN and shared spectrum channel access
91	Support of NTN features in GSO scenario	38.306, 4.2.2	Rel-17	pc_ntn_ScenarioSupport_r17_GSO	No		UE supports NTN features in GSO scenario
92	Support of NTN features in NGSO scenario	38.306, 4.2.2	Rel-17	pc_ntn_ScenarioSupport_r17_NGSO	No		UE supports NTN features in NGSO scenario
93	Support of RSSI measurements and channel occupancy reporting	38.306, 4.2.7.2a	Rel-16	pc_rssi_ChannelOccupancyReporting_r16	No		

94	Supports the restriction to 3450 - 3550 MHz and 3700 - 3980 MHz ranges of band n77	38.306, 4.2.7.11	Rel-16	pc_extendedBand_n77_r16	No		Applicable for UE support band n77 and in the USA this band is restricted to 3450 – 3550 MHz and 3700 – 3980 MHz.
95	Supports the restriction to 3450 - 3650 MHz and 3650 - 3980 ranges of band n77	38.306, 4.2.7.11	Rel-17	pc_extendedBand_n77_2_r17	No		Applicable for UE support band n77 and in Canada this band is restricted to 3450 – 3650 MHz and 3650 – 3980 MHz.
96	Support of UL channel access for dynamic channel access mode (NR-unlicensed)	38.306, 4.2.7.2a	Rel-16	pc_ul_DynamicChAccess_r16			
97	Support of UL channel access for semi-static access mode (NR-unlicensed)	38.306, 4.2.7.2a	Rel-16	pc_ul_Semi_StaticChAccess_r16			
98	Support of SSB-based RRM for dynamic channel access mode (NR-unlicensed)	38.306, 4.2.7.2a	Rel-16	pc_ssb_RRM_DynamicChAccess_r16			
99	Support of SSB-based RRM for semi-static channel access mode (NR-unlicensed)	38.306, 4.2.7.2a	Rel-16	pc_ssb_RRM_Semi_StaticChAccess_r16			
100	Support of SSB-based RLM for dynamic channel access mode (NR-unlicensed)	38.306, 4.2.7.2a	Rel-16	pc_ssb_RLM_DynamicChAccess_r16			
101	Support of SSB-based RLM for semi-static channel access mode (NR-unlicensed)	38.306, 4.2.7.2a	Rel-16	pc_ssb_RLM_Semi_StaticChAccess_r16			
102	Suport of SSB-based Beam failure detection and Candidate beam detection for dynamic channel access mode (NR-unlicensed)	38.306, 4.2.7.2a	Rel-16	pc_ssb_BFD_CBD_dynamicChannelAccess_r16	No		
103	Suport of SSB-based Beam failure detection and Candidate beam detection for semi-static channel access mode (NR-unlicensed)	38.306, 4.2.7.2a	Rel-16	pc_ssb_BFD_CBD_semi_staticChannelAccess_r16	No		
104	Support of 1024QAM modulation scheme for PDSCH with maximum 2 MIMO layers for FR1 FDD bands	38.306, 4.2.7.2	Rel-17	pc_pdsch_1024QAM_2MIMO_FR1_r17_FDD	No		FR1 FDD bands
105	Support of 1024QAM modulation scheme for PDSCH with maximum 2 MIMO layers for FR1 TDD bands	38.306, 4.2.7.2	Rel-17	pc_pdsch_1024QAM_2MIMO_FR1_r17_TDD	No		FR1 TDD bands
106	Support of 1024QAM modulation scheme for PDSCH for FR1_FDD bands	38.306, 4.2.7.2	Rel-17	pc_pdsch_1024QAM_FR1_r17_FDD	No		FR1 FDD bands
107	Support of 1024QAM modulation scheme for PDSCH for FR1_TDD bands	38.306, 4.2.7.2	Rel-17	pc_pdsch_1024QAM_FR1_r17_TDD	No		FR1 TDD bands

108	Support RTT-based propagation delay compensation for time synchronization of the Uu interface based on CSI-RS for tracking and SRS.	38.306, 4.2.7.5	Rel-17	pc_rtt_BasedPDC_CSI_RS_ForTracking_r17	No		A UE supporting this feature shall also indicate support of csi-RS-ForTracking and supportedSRS-Resources as specified in TS 38.331.
109	Support RTT-based Propagation delay compensation for time synchronization of the Uu interface based on DL PRS and SRS.	38.306, 4.2.7.5	Rel-17	pc_rtt_BasedPDC_PRS_r17	No		If UE provides parameter maxNumberPRS-Resource-r17 and optionally parameter maxNumberPRS-ResourceProcessedPerSlot-r17 as described in TS 38.331, consider this as supported, otherwise not supported. A UE supporting this feature shall also indicate support of supportedSRS-Resources as specified in TS 38.331.
110	Support propagation delay compensation based on legacy TA procedure for TN and non-shared spectrum channel access.	38.306, 4.2.7.10	Rel-17	pc_ta_BasedPDC_TN_NSSChAccess-r17	No		

A.4.3.2A NR CA Physical Layer Baseline Implementation Capabilities

NOTE: See Annex B for status of completed NR CA configurations and power classes in this version of 3GPP UE conformance test specifications.

A.4.3.2A.1 General NR CA capabilities

Table A.4.3.2A.1-1: Downlink NR CA capabilities (for one or more of the supported NR CA configurations)

Item	DL NR CA capability	Ref.	Mnemonic	Comments
1	DL NR CA with 2 carriers	38.101-1, 5.3A 38.101-2, 5.3A 38.101-3, 5.3A	pc_DL_NR_CA_2CC	
2	DL NR CA with 3 carriers	38.101-1, 5.3A 38.101-2, 5.3A 38.101-3, 5.3A	pc_DL_NR_CA_3CC	
3	DL NR CA with 4 carriers	38.101-1, 5.3A 38.101-2, 5.3A 38.101-3, 5.3A	pc_DL_NR_CA_4CC	
4	DL NR CA with 5 carriers	38.101-1, 5.3A 38.101-2, 5.3A 38.101-3, 5.3A	pc_DL_NR_CA_5CC	
5	DL NR CA with 6 carriers	38.101-1, 5.3A 38.101-2, 5.3A 38.101-3, 5.3A	pc_DL_NR_CA_6CC	
6	DL NR CA with 7 carriers	38.101-1, 5.3A 38.101-2, 5.3A 38.101-3, 5.3A	pc_DL_NR_CA_7CC	
7	DL NR CA with 8 carriers	38.101-1, 5.3A 38.101-2, 5.3A 38.101-3, 5.3A	pc_DL_NR_CA_8CC	

Table A.4.3.2A.1-2: Uplink NR CA capabilities (for one or more of the supported NR CA configurations)

Item	UL NR CA capability	Ref.	Mnemonic	Comments
1	UL NR CA with 2 carriers	38.101-1, 5.3A 38.101-2, 5.3A 38.101-3, 5.3A	pc_UL_NR_CA_2CC	
2	UL NR CA with 3 carriers	38.101-1, 5.3A 38.101-2, 5.3A 38.101-3, 5.3A	pc_UL_NR_CA_3CC	
3	UL NR CA with 4 carriers	38.101-1, 5.3A 38.101-2, 5.3A 38.101-3, 5.3A	pc_UL_NR_CA_4CC	
4	UL NR CA with 5 carriers	38.101-2, 5.3A 38.101-3, 5.3A	pc_UL_NR_CA_5CC	
5	UL NR CA with 6 carriers	38.101-2, 5.3A 38.101-3, 5.3A	pc_UL_NR_CA_6CC	
6	UL NR CA with 7 carriers	38.101-2, 5.3A 38.101-3, 5.3A	pc_UL_NR_CA_7CC	
7	UL NR CA with 8 carriers	38.101-2, 5.3A 38.101-3, 5.3A	pc_UL_NR_CA_8CC	

A.4.3.2A.2 NR Intra-band contiguous CA

A.4.3.2A.2.1 NR Intra-band contiguous CA within FR1

Table A.4.3.2A.2.1-1: Downlink Bandwidth Class capabilities for NR Intra-band contiguous CA configurations within FR1 (for one or more of the supported configurations in Table A.4.3.2A.2.1-3)

Item	DL NR FR1 Intra-band contiguous CA Bandwidth Class	Ref.	Mnemonic	Comments
1	DL NR FR1 Intra-band contiguous CA BW Class A	38.101-1, 5.3A.5	pc_DL_intra_contiguous_CA_NR_FR1_Class_A	
2	DL NR FR1 Intra-band contiguous CA BW Class B	38.101-1, 5.3A.5	pc_DL_intra_contiguous_CA_NR_FR1_Class_B	
3	DL NR FR1 Intra-band contiguous CA BW Class C	38.101-1, 5.3A.5	pc_DL_intra_contiguous_CA_NR_FR1_Class_C	
4	DL NR FR1 Intra-band contiguous CA BW Class D	38.101-1, 5.3A.5	pc_DL_intra_contiguous_CA_NR_FR1_Class_D	
5	DL NR FR1 Intra-band contiguous CA BW Class E	38.101-1, 5.3A.5	pc_DL_intra_contiguous_CA_NR_FR1_Class_E	
6	void	void	void	
7	DL NR FR1 Intra-band contiguous CA BW Class G	38.101-1, 5.3A.5	pc_DL_intra_contiguous_CA_NR_FR1_Class_G	
8	DL NR FR1 Intra-band contiguous CA BW Class H	38.101-1, 5.3A.5	pc_DL_intra_contiguous_CA_NR_FR1_Class_H	
9	DL NR FR1 Intra-band contiguous CA BW Class I	38.101-1, 5.3A.5	pc_DL_intra_contiguous_NR_FR1_CA_Class_I	
10	DL NR FR1 Intra-band contiguous CA BW Class J	38.101-1, 5.3A.5	pc_DL_intra_contiguous_CA_NR_FR1_Class_J	
11	DL NR FR1 Intra-band contiguous CA BW Class K	38.101-1, 5.3A.5	pc_DL_intra_contiguous_CA_NR_FR1_Class_K	
12	DL NR FR1 Intra-band contiguous CA BW Class L	38.101-1, 5.3A.5	pc_DL_intra_contiguous_CA_NR_FR1_Class_L	
13	DL NR FR1 Intra-band contiguous CA BW Class M	38.101-1, 5.3A.5	pc_DL_intra_contiguous_CA_NR_FR1_Class_M	
14	DL NR FR1 Intra-band contiguous CA BW Class N	38.101-1, 5.3A.5	pc_DL_intra_contiguous_CA_NR_FR1_Class_N	
15	DL NR FR1 Intra-band contiguous CA BW Class O	38.101-1, 5.3A.5	pc_DL_intra_contiguous_CA_NR_FR1_Class_O	

Table A.4.3.2A.2.1-2: Uplink Bandwidth Class capabilities for NR Intra-band contiguous CA configurations within FR1 (for one or more of the supported configurations in Table A.4.3.2A.2.1-3)

Item	UL NR FR1 Intra-band contiguous CA Bandwidth Class	Ref.	Mnemonic	Comments
1	UL NR FR1 Intra-band contiguous CA BW Class A	38.101-1, 5.3A.5	pc_UL_intra_contiguous_CA_NR_FR1_Class_A	
2	UL NR FR1 Intra-band contiguous CA BW Class B	38.101-1, 5.3A.5	pc_UL_intra_contiguous_CA_NR_FR1_Class_B	
3	UL NR FR1 Intra-band contiguous CA BW Class C	38.101-1, 5.3A.5	pc_UL_intra_contiguous_CA_NR_FR1_Class_C	
4-12	Void			

Table A.4.3.2A.2.1-3: Supported configurations for NR Intra-band contiguous CA within FR1

NR FR1 Intra-band contiguous CA configuration / Item (Note 1, 7)	Release	Supported	Supported CA Bandwidth Class(es) in UL (Note 2,5)	Supported Bandwidth Combination Set(s) (Note 3)
CA_n1B	Rel-16			
CA_n41C	Rel-15			
CA_n48B	Rel-16			
CA_n48C	Rel-16			
CA_n66B (Note 6)	Rel-16			
CA_n77C	Rel-15			
CA_n78B	Rel-16			
CA_n78C	Rel-15			
CA_n79C	Rel-15			

Note 1: Notation used for intra-band contiguous CA Bands is according to TS 38.101-1 [23] Table 5.5A.1-1, e.g. 'CA_n77C' indicates CA operation on NR band n77 with DL CA Bandwidth Class C.

Note 2: The UL CA capabilities as per Table A.4.3.2A.2.1-2 can be supported on a single band. The UE supplier shall indicate all supported UL CA Bandwidth Class(es), in uplink of the supported CA Band(s), as per TS 38.101-1 [23] Table 5.5A.1-1. For this release of specification valid choices are 'N', 'nXB' and 'nXC', where nX is the NR band. For example, for CA_n1B, 'N' would mean only DL CA, 'n1B' would mean both DL and UL CA.

Note 3: The UE supplier shall indicate the supported Bandwidth Combination Set(s) as per TS 38.101-1 [23] Table 5.5A.1-1.

Note 4: Void.

Note 5: See UL(*table_index*) in Note 1 of Table 4.0-3 and UL_*n*CC(*table_index*) in Note 2 of Table 4.0-3 in TS 38.522 [9].

Note 6: A UE that supports NR Band n66 (Table A.4.3.1-1) and CA operation in any CA band shall also support the DL CA configurations CA_n66B and CA_n66(2A), as per Note 7, in Table 5.2-1, in TS 38.521-1 [5].

Note 7: See DL_*n*CC(*table_index*) in Note 4 of Table 4.0-3 in TS 38.522 [9].

Table A.4.3.2A.2.1-4: Intra-band contiguous CA PC2 UE RF Baseline Implementation Capabilities

Item	Intra-band contiguous CA PC2 UE RF Baseline Implementation Capabilities	Ref.	Release	Mnemonic	Comments
1	NR Frequency band: 2496-2690 MHz	38.101-1, 6.2A.1	Rel-17	pc_nrBand41_C_PC2_Supp	CA_41C

A.4.3.2A.2.2 NR Intra-band contiguous CA within FR2

Table A.4.3.2A.2.2-1: Downlink Bandwidth Class capabilities for NR Intra-band contiguous CA configurations within FR2 (for one or more of the supported configurations in Table A.4.3.2A.2.2-3)

Item	DL NR FR2 Intra-band contiguous CA Bandwidth Class	Ref.	Mnemonic	Comments
1	DL NR FR2 Intra-band contiguous CA BW Class A	38.101-2, 5.3A.4	pc_DL_intra_contiguous_CA_NR_FR2_Class_A	
2	DL NR FR2 Intra-band contiguous CA BW Class B	38.101-2, 5.3A.4	pc_DL_intra_contiguous_CA_NR_FR2_Class_B	
3	DL NR FR2 Intra-band contiguous CA BW Class C	38.101-2, 5.3A.4	pc_DL_intra_contiguous_CA_NR_FR2_Class_C	
4	DL NR FR2 Intra-band contiguous CA BW Class D	38.101-2, 5.3A.4	pc_DL_intra_contiguous_CA_NR_FR2_Class_D	
5	DL NR FR2 Intra-band contiguous CA BW Class E	38.101-2, 5.3A.4	pc_DL_intra_contiguous_CA_NR_FR2_Class_E	
6	DL NR FR2 Intra-band contiguous CA BW Class F	38.101-2, 5.3A.4	pc_DL_intra_contiguous_CA_NR_FR2_Class_F	
7	DL NR FR2 Intra-band contiguous CA BW Class G	38.101-2, 5.3A.4	pc_DL_intra_contiguous_CA_NR_FR2_Class_G	
8	DL NR FR2 Intra-band contiguous CA BW Class H	38.101-2, 5.3A.4	pc_DL_intra_contiguous_CA_NR_FR2_Class_H	
9	DL NR FR2 Intra-band contiguous CA BW Class I	38.101-2, 5.3A.4	pc_DL_intra_contiguous_CA_NR_FR2_Class_I	
10	DL NR FR2 Intra-band contiguous CA BW Class J	38.101-2, 5.3A.4	pc_DL_intra_contiguous_CA_NR_FR2_Class_J	
11	DL NR FR2 Intra-band contiguous CA BW Class K	38.101-2, 5.3A.4	pc_DL_intra_contiguous_CA_NR_FR2_Class_K	
12	DL NR FR2 Intra-band contiguous CA BW Class L	38.101-2, 5.3A.4	pc_DL_intra_contiguous_CA_NR_FR2_Class_L	
13	DL NR FR2 Intra-band contiguous CA BW Class M	38.101-2, 5.3A.4	pc_DL_intra_contiguous_CA_NR_FR2_Class_M	
14	DL NR FR2 Intra-band contiguous CA BW Class O	38.101-2, 5.3A.4	pc_DL_intra_contiguous_CA_NR_FR2_Class_O	
15	DL NR FR2 Intra-band contiguous CA BW Class P	38.101-2, 5.3A.4	pc_DL_intra_contiguous_CA_NR_FR2_Class_P	
16	DL NR FR2 Intra-band contiguous CA BW Class Q	38.101-2, 5.3A.4	pc_DL_intra_contiguous_CA_NR_FR2_Class_Q	

Table A.4.3.2A.2.2-2: Uplink Bandwidth Class capabilities for NR Intra-band contiguous CA configurations within FR2 (for one or more of the supported configurations in Table A.4.3.2A.2.2-3)

Item	UL NR FR2 Intra-band contiguous CA Bandwidth Class	Ref.	Mnemonic	Comments
0	UL NR FR2 Intra-band contiguous CA BW Class A	38.101-2, 5.3A.4	pc_UL_intra_contiguous_CA_NR_FR2_Class_A	
1	UL NR FR2 Intra-band contiguous CA BW Class B	38.101-2, 5.3A.4	pc_UL_intra_contiguous_CA_NR_FR2_Class_B	
2	UL NR FR2 Intra-band contiguous CA BW Class C	38.101-2, 5.3A.4	pc_UL_intra_contiguous_CA_NR_FR2_Class_C	
3	UL NR FR2 Intra-band contiguous CA BW Class D	38.101-2, 5.3A.4	pc_UL_intra_contiguous_CA_NR_FR2_Class_D	
4	UL NR FR2 Intra-band contiguous CA BW Class E	38.101-2, 5.3A.4	pc_UL_intra_contiguous_CA_NR_FR2_Class_E	
5	UL NR FR2 Intra-band contiguous CA BW Class F	38.101-2, 5.3A.4	pc_UL_intra_contiguous_CA_NR_FR2_Class_F	
6	UL NR FR2 Intra-band contiguous CA BW Class G	38.101-2, 5.3A.4	pc_UL_intra_contiguous_CA_NR_FR2_Class_G	
7	UL NR FR2 Intra-band contiguous CA BW Class H	38.101-2, 5.3A.4	pc_UL_intra_contiguous_CA_NR_FR2_Class_H	
8	UL NR FR2 Intra-band contiguous CA BW Class I	38.101-2, 5.3A.4	pc_UL_intra_contiguous_CA_NR_FR2_Class_I	
9	UL NR FR2 Intra-band contiguous CA BW Class J	38.101-2, 5.3A.4	pc_UL_intra_contiguous_CA_NR_FR2_Class_J	
10	UL NR FR2 Intra-band contiguous CA BW Class K	38.101-2, 5.3A.4	pc_UL_intra_contiguous_CA_NR_FR2_Class_K	
11	UL NR FR2 Intra-band contiguous CA BW Class L	38.101-2, 5.3A.4	pc_UL_intra_contiguous_CA_NR_FR2_Class_L	
12	UL NR FR2 Intra-band contiguous CA BW Class M	38.101-2, 5.3A.4	pc_UL_intra_contiguous_CA_NR_FR2_Class_M	
13	UL NR FR2 Intra-band contiguous CA BW Class O	38.101-2, 5.3A.4	pc_UL_intra_contiguous_CA_NR_FR2_Class_O	
14	UL NR FR2 Intra-band contiguous CA BW Class P	38.101-2, 5.3A.4	pc_UL_intra_contiguous_CA_NR_FR2_Class_P	
15	UL NR FR2 Intra-band contiguous CA BW Class Q	38.101-2, 5.3A.4	pc_UL_intra_contiguous_CA_NR_FR2_Class_Q	

Table A.4.3.2A.2.2-3: Supported configurations for NR Intra-band contiguous CA within FR2

NR FR2 Intra-band contiguous CA configuration / Item (Note 1, 6)	Release	Supported	Supported CA Bandwidth Class(es) in UL (Note 2,5)	Supported Bandwidth Combination Set(s) (Note 3)
CA_n257G	Rel-15			
CA_n257H	Rel-15			
CA_n257I	Rel-15			
CA_n258B	Rel-16			
CA_n258C	Rel-16			
CA_n258D	Rel-16			
CA_n258E	Rel-16			
CA_n258F	Rel-16			
CA_n258G	Rel-16			
CA_n258H	Rel-16			
CA_n258I	Rel-16			
CA_n258J	Rel-16			
CA_n258K	Rel-16			
CA_n258L	Rel-16			
CA_n258M	Rel-16			
CA_n260G	Rel-15			
CA_n260H	Rel-15			
CA_n260I	Rel-15			
CA_n260J	Rel-15			
CA_n260K	Rel-15			
CA_n260L	Rel-15			
CA_n260M	Rel-15			
CA_n261G	Rel-15			
CA_n261H	Rel-15			
CA_n261I	Rel-15			
CA_n261J	Rel-15			
CA_n261K	Rel-15			
CA_n261L	Rel-15			
CA_n261M	Rel-15			

Note 1: Notation used for intra-band contiguous CA Bands is according to TS 38.101-2 [24] Table 5.5A.1-1, e.g. 'CA_n257C' indicates CA operation on NR band n257 with DL CA Bandwidth Class C.

Note 2: The UL CA capabilities as per Table A.4.3.2A.2.2-2 can be supported on a single band. The UE supplier shall indicate all supported UL CA Bandwidth Class(es), in uplink of the supported CA Band(s), as per TS 38.101-2 [24] Table 5.5A.1-1. For this release of specification valid choices are 'N', 'nXB' ~ 'nXM' and 'nXO' ~ 'nXQ', where nX is the NR band. For example, for CA_n257C, 'N' would mean only DL CA, 'n257C' would mean both DL and UL CA operation on NR band n257 with CA Bandwidth Class C.

Note 3: The UE supplier shall indicate the supported Bandwidth Combination Set(s) as per TS 38.101-2 [24] Table 5.5A.1-1.

Note 4: Void.

Note 5: See UL(*table_index*) in Note 1 of Table 4.0-3 and UL_*n*CC(*table_index*) in Note 2 of Table 4.0-3 in TS 38.522 [9].

Note 6: See DL_*n*CC(*table_index*) in Note 4 of Table 4.0-3 in TS 38.522 [9].

A.4.3.2A.3 NR Intra-band non-contiguous CA

A.4.3.2A.3.1 NR Intra-band non-contiguous CA within FR1

Table A.4.3.2A.3.1-1: Downlink Bandwidth Class capabilities for NR Intra-band non-contiguous CA configurations within FR1 (for one or more of the supported configurations in Table A.4.3.2A.3.1-3)

Item	DL NR FR1 Intra-band non-contiguous CA Bandwidth Class	Ref.	Mnemonic	Comments
1	DL NR FR1 Intra-band non-contiguous CA BW Class Combination (2A)	38.101-1, 5.3A.5	pc_DL_intra_non_contiguous_CA_NR_FR1_Class_(2A)	
2	DL NR FR1 Intra-band non-contiguous CA BW Class Combination (3A)	38.101-1, 5.3A.5	pc_DL_intra_non_contiguous_CA_NR_FR1_Class_(3A)	
3	DL NR FR1 Intra-band non-contiguous CA BW Class Combination (4A)	38.101-1, 5.3A.5	pc_DL_intra_non_contiguous_CA_NR_FR1_Class_(4A)	

Table A.4.3.2A.3.1-1a: Downlink Bandwidth Class capabilities for NR mixed Intra-band contiguous and non-contiguous CA configurations within FR1 (for one or more of the supported configurations in Table A.4.3.2A.3.1-3a)

Item	DL NR FR1 mixed Intra-band contiguous and non-contiguous CA Bandwidth Class	Ref.	Mnemonic	Comments
1	DL NR FR1 mixed Intra-band contiguous and non-contiguous CA BW Class Combination (A-B)	38.101-1, 5.3A.5	pc_DL_intra_contiguous_non_contiguous_CA_NR_FR1_Class_(A-B)	
2	DL NR FR1 mixed Intra-band contiguous and non-contiguous CA BW Class Combination (A-C)	38.101-1, 5.3A.5	pc_DL_intra_contiguous_non_contiguous_CA_NR_FR1_Class_(A-C)	

Table A.4.3.2A.3.1-2: Uplink Bandwidth Class capabilities for NR Intra-band non-contiguous CA configurations within FR1 (for one or more of the supported configurations in Table A.4.3.2A.3.1-3)

Item	UL NR FR1 Intra-band non-contiguous CA Bandwidth Class	Ref.	Mnemonic	Comments
1	UL NR FR1 Intra-band non-contiguous CA BW Class Combination (2A)	38.101-1, 5.3A.5	pc_UL_intra_non_contiguous_CA_NR_FR1_Class_(2A)	

Table A.4.3.2A.3.1-2a: Uplink Bandwidth Class capabilities for NR mixed Intra-band contiguous and non-contiguous CA configurations within FR1 (for one or more of the supported configurations in Table A.4.3.2A.3.1-3a)

Item	UL NR FR1 mixed Intra-band contiguous and non-contiguous CA Bandwidth Class	Ref.	Mnemonic	Comments
1	UL NR FR1 mixed Intra-band contiguous and non-contiguous CA BW Class Combination (B)	38.101-1, 5.3A.5	pc_UL_intra_contiguous_non_contiguous_CA_NR_FR1_Class_(B)	

Table A.4.3.2A.3.1-3: Supported configurations for NR Intra-band non-contiguous CA within FR1

NR FR1 Intra-band non-contiguous CA configuration / Item (Note 5)	Release	Supported	Supported CA Bandwidth Class(es) in UL (Note 3)	Supported Bandwidth Combination Set(s) (Note 1)
CA_n48(2A)	Rel-16			
CA_n66(2A) (Note 4)	Rel-16			
CA_n71(2A)	Rel-17			

Note 1: The UE supplier shall indicate the supported Bandwidth Combination Set(s) as per TS 38.101-1 [23] Table 5.5A.2-1.
Note 2: Void.
Note 3: See UL(*table_index*) in Note 1 of Table 4.0-3 and UL_*n*CC(*table_index*) in Note 2 of Table 4.0-3 in TS 38.522 [9].
Note 4: A UE that supports NR Band n66 (Table A.4.3.1-1) and CA operation in any CA band shall also support the DL CA configurations CA_n66B and CA_n66(2A), as per Note 7, in Table 5.2-1, in TS 38.521-1 [5].
Note 5: See DL_*n*CC(*table_index*) in Note 4 of Table 4.0-3 in TS 38.522 [9].

Table A.4.3.2A.3.1-3a: Supported configurations for NR mixed Intra-band contiguous and non-contiguous CA within FR1

NR FR1 mixed Intra-band contiguous and non-contiguous CA configuration / Item	Release	Supported	Supported CA Bandwidth Class(es) in UL (Note 3)	Supported Bandwidth Combination Set(s) (Note 1)
TBD				

A.4.3.2A.3.2 NR Intra-band non-contiguous CA within FR2

Table A.4.3.2A.3.2-1: Downlink Bandwidth Class capabilities with single bandwidth class for NR Intra-band non-contiguous CA configurations within FR2 (for one or more of the supported configurations in Table A.4.3.2A.3.2-3)

Item	DL NR FR2 Intra-band non-contiguous CA Bandwidth Class (with single bandwidth class)	Ref.	Mnemonic	Comments
1	DL NR FR2 Intra-band non-contiguous CA BW Class Combination (2A)	38.101-2, 5.3A.4	pc_DL_intra_non_contiguous_CA_NR_FR2_Class_(2A)	
2	DL NR FR2 Intra-band non-contiguous CA BW Class Combination (3A)	38.101-2, 5.3A.4	pc_DL_intra_non_contiguous_CA_NR_FR2_Class_(3A)	
3	DL NR FR2 Intra-band non-contiguous CA BW Class Combination (4A)	38.101-2, 5.3A.4	pc_DL_intra_non_contiguous_CA_NR_FR2_Class_(4A)	
4	DL NR FR2 Intra-band non-contiguous CA BW Class Combination (5A)	38.101-2, 5.3A.4	pc_DL_intra_non_contiguous_CA_NR_FR2_Class_(5A)	
5	DL NR FR2 Intra-band non-contiguous CA BW Class Combination (6A)	38.101-2, 5.3A.4	pc_DL_intra_non_contiguous_CA_NR_FR2_Class_(6A)	
6	DL NR FR2 Intra-band non-contiguous CA BW Class Combination (7A)	38.101-2, 5.3A.4	pc_DL_intra_non_contiguous_CA_NR_FR2_Class_(7A)	
7	DL NR FR2 Intra-band non-contiguous CA BW Class Combination (8A)	38.101-2, 5.3A.4	pc_DL_intra_non_contiguous_CA_NR_FR2_Class_(8A)	
8	DL NR FR2 Intra-band non-contiguous CA BW Class Combination (9A)	38.101-2, 5.3A.4	pc_DL_intra_non_contiguous_CA_NR_FR2_Class_(9A)	
9	DL NR FR2 Intra-band non-contiguous CA BW Class Combination (10A)	38.101-2, 5.3A.4	pc_DL_intra_non_contiguous_CA_NR_FR2_Class_(10A)	
10	DL NR FR2 Intra-band non-contiguous CA BW Class Combination (2D)	38.101-2, 5.3A.4	pc_DL_intra_non_contiguous_CA_NR_FR2_Class_(2D)	
11	DL NR FR2 Intra-band non-contiguous CA BW Class Combination (2G)	38.101-2, 5.3A.4	pc_DL_intra_non_contiguous_CA_NR_FR2_Class_(2G)	
12	DL NR FR2 Intra-band non-contiguous CA BW Class Combination (3G)	38.101-2, 5.3A.4	pc_DL_intra_non_contiguous_CA_NR_FR2_Class_(3G)	
13	DL NR FR2 Intra-band non-contiguous CA BW Class Combination (4G)	38.101-2, 5.3A.4	pc_DL_intra_non_contiguous_CA_NR_FR2_Class_(4G)	
14	DL NR FR2 Intra-band non-contiguous CA BW Class Combination (2H)	38.101-2, 5.3A.4	pc_DL_intra_non_contiguous_CA_NR_FR2_Class_(2H)	
15	DL NR FR2 Intra-band non-contiguous CA BW Class Combination (2I)	38.101-2, 5.3A.4	pc_DL_intra_non_contiguous_CA_NR_FR2_Class_(2I)	
16	DL NR FR2 Intra-band non-contiguous CA BW Class Combination (2O)	38.101-2, 5.3A.4	pc_DL_intra_non_contiguous_CA_NR_FR2_Class_(2O)	

17	DL NR FR2 Intra-band non-contiguous CA BW Class Combination (3O)	38.101-2, 5.3A.4	pc_DL_intra_non_contiguous_CA_NR_FR2_Class_(3O)	
18	DL NR FR2 Intra-band non-contiguous CA BW Class Combination (4O)	38.101-2, 5.3A.4	pc_DL_intra_non_contiguous_CA_NR_FR2_Class_(4O)	
19	DL NR FR2 Intra-band non-contiguous CA BW Class Combination (5O)	38.101-2, 5.3A.4	pc_DL_intra_non_contiguous_CA_NR_FR2_Class_(5O)	
20	DL NR FR2 Intra-band non-contiguous CA BW Class Combination (6O)	38.101-2, 5.3A.4	pc_DL_intra_non_contiguous_CA_NR_FR2_Class_(6O)	
21	DL NR FR2 Intra-band non-contiguous CA BW Class Combination (7O)	38.101-2, 5.3A.4	pc_DL_intra_non_contiguous_CA_NR_FR2_Class_(7O)	
22	DL NR FR2 Intra-band non-contiguous CA BW Class Combination (2P)	38.101-2, 5.3A.4	pc_DL_intra_non_contiguous_CA_NR_FR2_Class_(2P)	
23	DL NR FR2 Intra-band non-contiguous CA BW Class Combination (3P)	38.101-2, 5.3A.4	pc_DL_intra_non_contiguous_CA_NR_FR2_Class_(3P)	
24	DL NR FR2 Intra-band non-contiguous CA BW Class Combination (4P)	38.101-2, 5.3A.4	pc_DL_intra_non_contiguous_CA_NR_FR2_Class_(4P)	
25	DL NR FR2 Intra-band non-contiguous CA BW Class Combination (2Q)	38.101-2, 5.3A.4	pc_DL_intra_non_contiguous_CA_NR_FR2_Class_(2Q)	
26	DL NR FR2 Intra-band non-contiguous CA BW Class Combination (2I)	38.101-2, 5.3A.4	pc_DL_intra_non_contiguous_CA_NR_FR2_Class_(2I)	

Table A.4.3.2A.3.2-1a: Downlink Bandwidth Class capabilities with multiple bandwidth classes for NR Intra-band non-contiguous CA configurations within FR2 (for one or more of the supported configurations in Table A.4.3.2A.3.2-3a)

Item	DL NR FR2 Intra-band non-contiguous CA Bandwidth Class (with multiple bandwidth classes)	Ref.	Mnemonic	Comments
1	DL NR FR2 Intra-band non-contiguous CA BW Class Combination (A-D)	38.101-2, 5.3A.4	pc_DL_intra_non_contiguous_CA_NR_FR2_Class_(A-D)	
2	DL NR FR2 Intra-band non-contiguous CA BW Class Combination (A-2D)	38.101-2, 5.3A.4	pc_DL_intra_non_contiguous_CA_NR_FR2_Class_(A-2D)	
3	DL NR FR2 Intra-band non-contiguous CA BW Class Combination (A-G)	38.101-2, 5.3A.4	pc_DL_intra_non_contiguous_CA_NR_FR2_Class_(A-G)	
4	DL NR FR2 Intra-band non-contiguous CA BW Class Combination (A-2G)	38.101-2, 5.3A.4	pc_DL_intra_non_contiguous_CA_NR_FR2_Class_(A-2G)	
5	DL NR FR2 Intra-band non-contiguous CA BW Class Combination (A-3G)	38.101-2, 5.3A.4	pc_DL_intra_non_contiguous_CA_NR_FR2_Class_(A-3G)	
6	DL NR FR2 Intra-band non-contiguous CA BW Class Combination (A-4G)	38.101-2, 5.3A.4	pc_DL_intra_non_contiguous_CA_NR_FR2_Class_(A-4G)	
7	DL NR FR2 Intra-band non-contiguous CA BW Class Combination (A-H)	38.101-2, 5.3A.4	pc_DL_intra_non_contiguous_CA_NR_FR2_Class_(A-H)	
8	DL NR FR2 Intra-band non-contiguous CA BW Class Combination (A-I)	38.101-2, 5.3A.4	pc_DL_intra_non_contiguous_CA_NR_FR2_Class_(A-I)	
9	DL NR FR2 Intra-band non-contiguous CA BW Class Combination (A-2I)	38.101-2, 5.3A.4	pc_DL_intra_non_contiguous_CA_NR_FR2_Class_(A-2I)	
10	DL NR FR2 Intra-band non-contiguous CA BW Class Combination (A-J)	38.101-2, 5.3A.4	pc_DL_intra_non_contiguous_CA_NR_FR2_Class_(A-J)	
11	DL NR FR2 Intra-band non-contiguous CA BW Class Combination (A-K)	38.101-2, 5.3A.4	pc_DL_intra_non_contiguous_CA_NR_FR2_Class_(A-K)	
12	DL NR FR2 Intra-band non-contiguous CA BW Class Combination (A-O)	38.101-2, 5.3A.4	pc_DL_intra_non_contiguous_CA_NR_FR2_Class_(A-O)	
13	DL NR FR2 Intra-band non-contiguous CA BW Class Combination (A-2O)	38.101-2, 5.3A.4	pc_DL_intra_non_contiguous_CA_NR_FR2_Class_(A-2O)	
14	DL NR FR2 Intra-band non-contiguous CA BW Class Combination (A-3O)	38.101-2, 5.3A.4	pc_DL_intra_non_contiguous_CA_NR_FR2_Class_(A-3O)	
15	DL NR FR2 Intra-band non-contiguous CA BW Class Combination (A-4O)	38.101-2, 5.3A.4	pc_DL_intra_non_contiguous_CA_NR_FR2_Class_(A-4O)	
16	DL NR FR2 Intra-band non-contiguous CA BW Class Combination (A-5O)	38.101-2, 5.3A.4	pc_DL_intra_non_contiguous_CA_NR_FR2_Class_(A-5O)	
17	DL NR FR2 Intra-band non-contiguous CA BW Class Combination (A-6O)	38.101-2, 5.3A.4	pc_DL_intra_non_contiguous_CA_NR_FR2_Class_(A-6O)	
18	DL NR FR2 Intra-band non-contiguous CA BW Class Combination (A-7O)	38.101-2, 5.3A.4	pc_DL_intra_non_contiguous_CA_NR_FR2_Class_(A-7O)	

19	DL NR FR2 Intra-band non-contiguous CA BW Class Combination (A-P)	38.101-2, 5.3A.4	pc_DL_intra_non_contiguous_CA_NR_FR2_Class_(A-P)	
20	DL NR FR2 Intra-band non-contiguous CA BW Class Combination (A-2P)	38.101-2, 5.3A.4	pc_DL_intra_non_contiguous_CA_NR_FR2_Class_(A-2P)	
21	DL NR FR2 Intra-band non-contiguous CA BW Class Combination (A-3P)	38.101-2, 5.3A.4	pc_DL_intra_non_contiguous_CA_NR_FR2_Class_(A-3P)	
22	DL NR FR2 Intra-band non-contiguous CA BW Class Combination (A-4P)	38.101-2, 5.3A.4	pc_DL_intra_non_contiguous_CA_NR_FR2_Class_(A-4P)	
23	DL NR FR2 Intra-band non-contiguous CA BW Class Combination (A-Q)	38.101-2, 5.3A.4	pc_DL_intra_non_contiguous_CA_NR_FR2_Class_(A-Q)	
24	DL NR FR2 Intra-band non-contiguous CA BW Class Combination (A-2Q)	38.101-2, 5.3A.4	pc_DL_intra_non_contiguous_CA_NR_FR2_Class_(A-2Q)	
25	DL NR FR2 Intra-band non-contiguous CA BW Class Combination (2A-D)	38.101-2, 5.3A.4	pc_DL_intra_non_contiguous_CA_NR_FR2_Class_(2A-D)	
26	DL NR FR2 Intra-band non-contiguous CA BW Class Combination (2A-2D)	38.101-2, 5.3A.4	pc_DL_intra_non_contiguous_CA_NR_FR2_Class_(2A-2D)	
27	DL NR FR2 Intra-band non-contiguous CA BW Class Combination (2A-G)	38.101-2, 5.3A.4	pc_DL_intra_non_contiguous_CA_NR_FR2_Class_(2A-G)	
28	DL NR FR2 Intra-band non-contiguous CA BW Class Combination (2A-2G)	38.101-2, 5.3A.4	pc_DL_intra_non_contiguous_CA_NR_FR2_Class_(2A-2G)	
29	DL NR FR2 Intra-band non-contiguous CA BW Class Combination (2A-O)	38.101-2, 5.3A.4	pc_DL_intra_non_contiguous_CA_NR_FR2_Class_(2A-O)	
30	DL NR FR2 Intra-band non-contiguous CA BW Class Combination (2A-2O)	38.101-2, 5.3A.4	pc_DL_intra_non_contiguous_CA_NR_FR2_Class_(2A-2O)	
31	DL NR FR2 Intra-band non-contiguous CA BW Class Combination (2A-3O)	38.101-2, 5.3A.4	pc_DL_intra_non_contiguous_CA_NR_FR2_Class_(2A-3O)	
32	DL NR FR2 Intra-band non-contiguous CA BW Class Combination (2A-4O)	38.101-2, 5.3A.4	pc_DL_intra_non_contiguous_CA_NR_FR2_Class_(2A-4O)	
33	DL NR FR2 Intra-band non-contiguous CA BW Class Combination (2A-P)	38.101-2, 5.3A.4	pc_DL_intra_non_contiguous_CA_NR_FR2_Class_(2A-P)	
34	DL NR FR2 Intra-band non-contiguous CA BW Class Combination (2A-2P)	38.101-2, 5.3A.4	pc_DL_intra_non_contiguous_CA_NR_FR2_Class_(2A-2P)	
35	DL NR FR2 Intra-band non-contiguous CA BW Class Combination (2A-3P)	38.101-2, 5.3A.4	pc_DL_intra_non_contiguous_CA_NR_FR2_Class_(2A-3P)	

36	DL NR FR2 Intra-band non-contiguous CA BW Class Combination (2A-4P)	38.101-2, 5.3A.4	pc_DL_intra_non_contiguous_CA_NR_FR2_Class_(2A-4P)	
37	DL NR FR2 Intra-band non-contiguous CA BW Class Combination (2A-Q)	38.101-2, 5.3A.4	pc_DL_intra_non_contiguous_CA_NR_FR2_Class_(2A-Q)	
38	DL NR FR2 Intra-band non-contiguous CA BW Class Combination (2A-2Q)	38.101-2, 5.3A.4	pc_DL_intra_non_contiguous_CA_NR_FR2_Class_(2A-2Q)	
39	DL NR FR2 Intra-band non-contiguous CA BW Class Combination (2A-H)	38.101-2, 5.3A.4	pc_DL_intra_non_contiguous_CA_NR_FR2_Class_(2A-H)	
40	DL NR FR2 Intra-band non-contiguous CA BW Class Combination (2A-2H)	38.101-2, 5.3A.4	pc_DL_intra_non_contiguous_CA_NR_FR2_Class_(2A-2H)	
41	DL NR FR2 Intra-band non-contiguous CA BW Class Combination (2A-I)	38.101-2, 5.3A.4	pc_DL_intra_non_contiguous_CA_NR_FR2_Class_(2A-I)	
42	DL NR FR2 Intra-band non-contiguous CA BW Class Combination (3A-G)	38.101-2, 5.3A.4	pc_DL_intra_non_contiguous_CA_NR_FR2_Class_(3A-G)	
43	DL NR FR2 Intra-band non-contiguous CA BW Class Combination (3A-2G)	38.101-2, 5.3A.4	pc_DL_intra_non_contiguous_CA_NR_FR2_Class_(3A-2G)	
44	DL NR FR2 Intra-band non-contiguous CA BW Class Combination (3A-O)	38.101-2, 5.3A.4	pc_DL_intra_non_contiguous_CA_NR_FR2_Class_(3A-O)	
45	DL NR FR2 Intra-band non-contiguous CA BW Class Combination (3A-2O)	38.101-2, 5.3A.4	pc_DL_intra_non_contiguous_CA_NR_FR2_Class_(3A-2O)	
46	DL NR FR2 Intra-band non-contiguous CA BW Class Combination (3A-3O)	38.101-2, 5.3A.4	pc_DL_intra_non_contiguous_CA_NR_FR2_Class_(3A-3O)	
47	DL NR FR2 Intra-band non-contiguous CA BW Class Combination (3A-4O)	38.101-2, 5.3A.4	pc_DL_intra_non_contiguous_CA_NR_FR2_Class_(3A-4O)	
48	DL NR FR2 Intra-band non-contiguous CA BW Class Combination (3A-P)	38.101-2, 5.3A.4	pc_DL_intra_non_contiguous_CA_NR_FR2_Class_(3A-P)	
49	DL NR FR2 Intra-band non-contiguous CA BW Class Combination (3A-2P)	38.101-2, 5.3A.4	pc_DL_intra_non_contiguous_CA_NR_FR2_Class_(3A-2P)	
50	DL NR FR2 Intra-band non-contiguous CA BW Class Combination (3A-Q)	38.101-2, 5.3A.4	pc_DL_intra_non_contiguous_CA_NR_FR2_Class_(3A-Q)	
51	DL NR FR2 Intra-band non-contiguous CA BW Class Combination (3A-2Q)	38.101-2, 5.3A.4	pc_DL_intra_non_contiguous_CA_NR_FR2_Class_(3A-2Q)	
52	DL NR FR2 Intra-band non-contiguous CA BW Class Combination (4A-G)	38.101-2, 5.3A.4	pc_DL_intra_non_contiguous_CA_NR_FR2_Class_(4A-G)	

53	DL NR FR2 Intra-band non-contiguous CA BW Class Combination (4A-2G)	38.101-2, 5.3A.4	pc_DL_intra_non_contiguous_CA_NR_FR2_Class_(4A-2G)	
54	DL NR FR2 Intra-band non-contiguous CA BW Class Combination (4A-Q)	38.101-2, 5.3A.4	pc_DL_intra_non_contiguous_CA_NR_FR2_Class_(4A-Q)	
55	DL NR FR2 Intra-band non-contiguous CA BW Class Combination (4A-2Q)	38.101-2, 5.3A.4	pc_DL_intra_non_contiguous_CA_NR_FR2_Class_(4A-2Q)	
56	DL NR FR2 Intra-band non-contiguous CA BW Class Combination (4A-O)	38.101-2, 5.3A.4	pc_DL_intra_non_contiguous_CA_NR_FR2_Class_(4A-O)	
57	DL NR FR2 Intra-band non-contiguous CA BW Class Combination (4A-2O)	38.101-2, 5.3A.4	pc_DL_intra_non_contiguous_CA_NR_FR2_Class_(4A-2O)	
58	DL NR FR2 Intra-band non-contiguous CA BW Class Combination (4A-3O)	38.101-2, 5.3A.4	pc_DL_intra_non_contiguous_CA_NR_FR2_Class_(4A-3O)	
59	DL NR FR2 Intra-band non-contiguous CA BW Class Combination (4A-4O)	38.101-2, 5.3A.4	pc_DL_intra_non_contiguous_CA_NR_FR2_Class_(4A-4O)	
60	DL NR FR2 Intra-band non-contiguous CA BW Class Combination (4A-P)	38.101-2, 5.3A.4	pc_DL_intra_non_contiguous_CA_NR_FR2_Class_(4A-P)	
61	DL NR FR2 Intra-band non-contiguous CA BW Class Combination (4A-2P)	38.101-2, 5.3A.4	pc_DL_intra_non_contiguous_CA_NR_FR2_Class_(4A-2P)	
62	DL NR FR2 Intra-band non-contiguous CA BW Class Combination (5A-O)	38.101-2, 5.3A.4	pc_DL_intra_non_contiguous_CA_NR_FR2_Class_(5A-O)	
63	DL NR FR2 Intra-band non-contiguous CA BW Class Combination (5A-2O)	38.101-2, 5.3A.4	pc_DL_intra_non_contiguous_CA_NR_FR2_Class_(5A-2O)	
64	DL NR FR2 Intra-band non-contiguous CA BW Class Combination (5A-3O)	38.101-2, 5.3A.4	pc_DL_intra_non_contiguous_CA_NR_FR2_Class_(5A-3O)	
65	DL NR FR2 Intra-band non-contiguous CA BW Class Combination (5A-4O)	38.101-2, 5.3A.4	pc_DL_intra_non_contiguous_CA_NR_FR2_Class_(5A-4O)	
66	DL NR FR2 Intra-band non-contiguous CA BW Class Combination (5A-P)	38.101-2, 5.3A.4	pc_DL_intra_non_contiguous_CA_NR_FR2_Class_(5A-P)	
67	DL NR FR2 Intra-band non-contiguous CA BW Class Combination (5A-2P)	38.101-2, 5.3A.4	pc_DL_intra_non_contiguous_CA_NR_FR2_Class_(5A-2P)	
68	DL NR FR2 Intra-band non-contiguous CA BW Class Combination (6A-O)	38.101-2, 5.3A.4	pc_DL_intra_non_contiguous_CA_NR_FR2_Class_(6A-O)	
69	DL NR FR2 Intra-band non-contiguous CA BW Class Combination (6A-2O)	38.101-2, 5.3A.4	pc_DL_intra_non_contiguous_CA_NR_FR2_Class_(6A-2O)	

70	DL NR FR2 Intra-band non-contiguous CA BW Class Combination (6A-3O)	38.101-2, 5.3A.4	pc_DL_intra_non_contiguous_CA_NR_FR2_Class_(6A-3O)	
71	DL NR FR2 Intra-band non-contiguous CA BW Class Combination (6A-P)	38.101-2, 5.3A.4	pc_DL_intra_non_contiguous_CA_NR_FR2_Class_(6A-P)	
72	DL NR FR2 Intra-band non-contiguous CA BW Class Combination (6A-2P)	38.101-2, 5.3A.4	pc_DL_intra_non_contiguous_CA_NR_FR2_Class_(6A-2P)	
73	DL NR FR2 Intra-band non-contiguous CA BW Class Combination (7A-O)	38.101-2, 5.3A.4	pc_DL_intra_non_contiguous_CA_NR_FR2_Class_(7A-O)	
74	DL NR FR2 Intra-band non-contiguous CA BW Class Combination (7A-2O)	38.101-2, 5.3A.4	pc_DL_intra_non_contiguous_CA_NR_FR2_Class_(7A-2O)	
75	DL NR FR2 Intra-band non-contiguous CA BW Class Combination (7A-3O)	38.101-2, 5.3A.4	pc_DL_intra_non_contiguous_CA_NR_FR2_Class_(7A-3O)	
76	DL NR FR2 Intra-band non-contiguous CA BW Class Combination (8A-O)	38.101-2, 5.3A.4	pc_DL_intra_non_contiguous_CA_NR_FR2_Class_(8A-O)	
77	DL NR FR2 Intra-band non-contiguous CA BW Class Combination (8A-2O)	38.101-2, 5.3A.4	pc_DL_intra_non_contiguous_CA_NR_FR2_Class_(8A-2O)	
78	DL NR FR2 Intra-band non-contiguous CA BW Class Combination (D-G)	38.101-2, 5.3A.4	pc_DL_intra_non_contiguous_CA_NR_FR2_Class_(D-G)	
79	DL NR FR2 Intra-band non-contiguous CA BW Class Combination (D-2G)	38.101-2, 5.3A.4	pc_DL_intra_non_contiguous_CA_NR_FR2_Class_(D-2G)	
80	DL NR FR2 Intra-band non-contiguous CA BW Class Combination (D-H)	38.101-2, 5.3A.4	pc_DL_intra_non_contiguous_CA_NR_FR2_Class_(D-H)	
81	DL NR FR2 Intra-band non-contiguous CA BW Class Combination (D-I)	38.101-2, 5.3A.4	pc_DL_intra_non_contiguous_CA_NR_FR2_Class_(D-I)	
82	DL NR FR2 Intra-band non-contiguous CA BW Class Combination (D-O)	38.101-2, 5.3A.4	pc_DL_intra_non_contiguous_CA_NR_FR2_Class_(D-O)	
83	DL NR FR2 Intra-band non-contiguous CA BW Class Combination (D-2O)	38.101-2, 5.3A.4	pc_DL_intra_non_contiguous_CA_NR_FR2_Class_(D-2O)	
84	DL NR FR2 Intra-band non-contiguous CA BW Class Combination (D-P)	38.101-2, 5.3A.4	pc_DL_intra_non_contiguous_CA_NR_FR2_Class_(D-P)	
85	DL NR FR2 Intra-band non-contiguous CA BW Class Combination (D-Q)	38.101-2, 5.3A.4	pc_DL_intra_non_contiguous_CA_NR_FR2_Class_(D-Q)	
86	DL NR FR2 Intra-band non-contiguous CA BW Class Combination (2D-O)	38.101-2, 5.3A.4	pc_DL_intra_non_contiguous_CA_NR_FR2_Class_(2D-O)	
87	DL NR FR2 Intra-band non-contiguous CA BW Class Combination (E-O)	38.101-2, 5.3A.4	pc_DL_intra_non_contiguous_CA_NR_FR2_Class_(E-O)	
88	DL NR FR2 Intra-band non-contiguous CA BW Class Combination (E-P)	38.101-2, 5.3A.4	pc_DL_intra_non_contiguous_CA_NR_FR2_Class_(E-P)	

89	DL NR FR2 Intra-band non-contiguous CA BW Class Combination (E-Q)	38.101-2, 5.3A.4	pc_DL_intra_non_contiguous_CA_NR_FR2_Class_(E-Q)	
90	DL NR FR2 Intra-band non-contiguous CA BW Class Combination (G-H)	38.101-2, 5.3A.4	pc_DL_intra_non_contiguous_CA_NR_FR2_Class_(G-H)	
91	DL NR FR2 Intra-band non-contiguous CA BW Class Combination (G-I)	38.101-2, 5.3A.4	pc_DL_intra_non_contiguous_CA_NR_FR2_Class_(G-I)	
92	DL NR FR2 Intra-band non-contiguous CA BW Class Combination (G-O)	38.101-2, 5.3A.4	pc_DL_intra_non_contiguous_CA_NR_FR2_Class_(G-O)	
93	DL NR FR2 Intra-band non-contiguous CA BW Class Combination (G-2O)	38.101-2, 5.3A.4	pc_DL_intra_non_contiguous_CA_NR_FR2_Class_(G-2O)	
94	DL NR FR2 Intra-band non-contiguous CA BW Class Combination (G-3O)	38.101-2, 5.3A.4	pc_DL_intra_non_contiguous_CA_NR_FR2_Class_(G-3O)	
95	DL NR FR2 Intra-band non-contiguous CA BW Class Combination (G-4O)	38.101-2, 5.3A.4	pc_DL_intra_non_contiguous_CA_NR_FR2_Class_(G-4O)	
96	DL NR FR2 Intra-band non-contiguous CA BW Class Combination (2G-O)	38.101-2, 5.3A.4	pc_DL_intra_non_contiguous_CA_NR_FR2_Class_(2G-O)	
97	DL NR FR2 Intra-band non-contiguous CA BW Class Combination (2G-2O)	38.101-2, 5.3A.4	pc_DL_intra_non_contiguous_CA_NR_FR2_Class_(2G-2O)	
98	DL NR FR2 Intra-band non-contiguous CA BW Class Combination (2G-3O)	38.101-2, 5.3A.4	pc_DL_intra_non_contiguous_CA_NR_FR2_Class_(2G-3O)	
99	DL NR FR2 Intra-band non-contiguous CA BW Class Combination (2G-4O)	38.101-2, 5.3A.4	pc_DL_intra_non_contiguous_CA_NR_FR2_Class_(2G-4O)	
100	DL NR FR2 Intra-band non-contiguous CA BW Class Combination (3G-O)	38.101-2, 5.3A.4	pc_DL_intra_non_contiguous_CA_NR_FR2_Class_(3G-O)	
101	DL NR FR2 Intra-band non-contiguous CA BW Class Combination (4G-O)	38.101-2, 5.3A.4	pc_DL_intra_non_contiguous_CA_NR_FR2_Class_(4G-O)	
102	DL NR FR2 Intra-band non-contiguous CA BW Class Combination (H-I)	38.101-2, 5.3A.4	pc_DL_intra_non_contiguous_CA_NR_FR2_Class_(H-I)	
103	DL NR FR2 Intra-band non-contiguous CA BW Class Combination (H-O)	38.101-2, 5.3A.4	pc_DL_intra_non_contiguous_CA_NR_FR2_Class_(H-O)	
104	DL NR FR2 Intra-band non-contiguous CA BW Class Combination (2H-O)	38.101-2, 5.3A.4	pc_DL_intra_non_contiguous_CA_NR_FR2_Class_(2H-O)	
105	DL NR FR2 Intra-band non-contiguous CA BW Class Combination (O-P)	38.101-2, 5.3A.4	pc_DL_intra_non_contiguous_CA_NR_FR2_Class_(O-P)	
106	DL NR FR2 Intra-band non-contiguous CA BW Class Combination (O-2P)	38.101-2, 5.3A.4	pc_DL_intra_non_contiguous_CA_NR_FR2_Class_(O-2P)	
107	DL NR FR2 Intra-band non-contiguous CA BW Class Combination (O-Q)	38.101-2, 5.3A.4	pc_DL_intra_non_contiguous_CA_NR_FR2_Class_(O-Q)	

108	DL NR FR2 Intra-band non-contiguous CA BW Class Combination (O-2Q)	38.101-2, 5.3A.4	pc_DL_intra_non_contiguous_CA_NR_FR2_Class_(O-2Q)	
109	DL NR FR2 Intra-band non-contiguous CA BW Class Combination (2O-P)	38.101-2, 5.3A.4	pc_DL_intra_non_contiguous_CA_NR_FR2_Class_(2O-P)	
110	DL NR FR2 Intra-band non-contiguous CA BW Class Combination (2O-2P)	38.101-2, 5.3A.4	pc_DL_intra_non_contiguous_CA_NR_FR2_Class_(2O-2P)	
111	DL NR FR2 Intra-band non-contiguous CA BW Class Combination (2O-Q)	38.101-2, 5.3A.4	pc_DL_intra_non_contiguous_CA_NR_FR2_Class_(2O-Q)	
112	DL NR FR2 Intra-band non-contiguous CA BW Class Combination (2O-2Q)	38.101-2, 5.3A.4	pc_DL_intra_non_contiguous_CA_NR_FR2_Class_(2O-2Q)	
113	DL NR FR2 Intra-band non-contiguous CA BW Class Combination (P-Q)	38.101-2, 5.3A.4	pc_DL_intra_non_contiguous_CA_NR_FR2_Class_(P-Q)	
114	DL NR FR2 Intra-band non-contiguous CA BW Class Combination (A-D-O)	38.101-2, 5.3A.4	pc_DL_intra_non_contiguous_CA_NR_FR2_Class_(A-D-O)	
115	DL NR FR2 Intra-band non-contiguous CA BW Class Combination (A-D-2O)	38.101-2, 5.3A.4	pc_DL_intra_non_contiguous_CA_NR_FR2_Class_(A-D-2O)	
116	DL NR FR2 Intra-band non-contiguous CA BW Class Combination (A-D-H)	38.101-2, 5.3A.4	pc_DL_intra_non_contiguous_CA_NR_FR2_Class_(A-D-H)	
117	DL NR FR2 Intra-band non-contiguous CA BW Class Combination (A-G-H)	38.101-2, 5.3A.4	pc_DL_intra_non_contiguous_CA_NR_FR2_Class_(A-G-H)	
118	DL NR FR2 Intra-band non-contiguous CA BW Class Combination (A-G-I)	38.101-2, 5.3A.4	pc_DL_intra_non_contiguous_CA_NR_FR2_Class_(A-G-I)	
119	DL NR FR2 Intra-band non-contiguous CA BW Class Combination (A-G-O)	38.101-2, 5.3A.4	pc_DL_intra_non_contiguous_CA_NR_FR2_Class_(A-G-O)	
120	DL NR FR2 Intra-band non-contiguous CA BW Class Combination (A-G-2O)	38.101-2, 5.3A.4	pc_DL_intra_non_contiguous_CA_NR_FR2_Class_(A-G-2O)	
121	DL NR FR2 Intra-band non-contiguous CA BW Class Combination (A-2G-O)	38.101-2, 5.3A.4	pc_DL_intra_non_contiguous_CA_NR_FR2_Class_(A-2G-O)	
122	DL NR FR2 Intra-band non-contiguous CA BW Class Combination (A-2G-2O)	38.101-2, 5.3A.4	pc_DL_intra_non_contiguous_CA_NR_FR2_Class_(A-2G-2O)	
123	DL NR FR2 Intra-band non-contiguous CA BW Class Combination (A-3G-O)	38.101-2, 5.3A.4	pc_DL_intra_non_contiguous_CA_NR_FR2_Class_(A-3G-O)	
124	DL NR FR2 Intra-band non-contiguous CA BW Class Combination (A-H-I)	38.101-2, 5.3A.4	pc_DL_intra_non_contiguous_CA_NR_FR2_Class_(A-H-I)	

125	DL NR FR2 Intra-band non-contiguous CA BW Class Combination (A-O-P)	38.101-2, 5.3A.4	pc_DL_intra_non_contiguous_CA_NR_FR2_Class_(A-O-P)	
126	DL NR FR2 Intra-band non-contiguous CA BW Class Combination (A-O-2P)	38.101-2, 5.3A.4	pc_DL_intra_non_contiguous_CA_NR_FR2_Class_(A-O-2P)	
127	DL NR FR2 Intra-band non-contiguous CA BW Class Combination (A-O-Q)	38.101-2, 5.3A.4	pc_DL_intra_non_contiguous_CA_NR_FR2_Class_(A-O-Q)	
128	DL NR FR2 Intra-band non-contiguous CA BW Class Combination (A-O-2Q)	38.101-2, 5.3A.4	pc_DL_intra_non_contiguous_CA_NR_FR2_Class_(A-O-2Q)	
129	DL NR FR2 Intra-band non-contiguous CA BW Class Combination (A-2O-P)	38.101-2, 5.3A.4	pc_DL_intra_non_contiguous_CA_NR_FR2_Class_(A-2O-P)	
130	DL NR FR2 Intra-band non-contiguous CA BW Class Combination (A-2O-2P)	38.101-2, 5.3A.4	pc_DL_intra_non_contiguous_CA_NR_FR2_Class_(A-2O-2P)	
131	DL NR FR2 Intra-band non-contiguous CA BW Class Combination (A-2O-Q)	38.101-2, 5.3A.4	pc_DL_intra_non_contiguous_CA_NR_FR2_Class_(A-2O-Q)	
132	DL NR FR2 Intra-band non-contiguous CA BW Class Combination (A-2O-2Q)	38.101-2, 5.3A.4	pc_DL_intra_non_contiguous_CA_NR_FR2_Class_(A-2O-2Q)	
133	DL NR FR2 Intra-band non-contiguous CA BW Class Combination (A-P-Q)	38.101-2, 5.3A.4	pc_DL_intra_non_contiguous_CA_NR_FR2_Class_(A-P-Q)	
134	DL NR FR2 Intra-band non-contiguous CA BW Class Combination (2A-D-O)	38.101-2, 5.3A.4	pc_DL_intra_non_contiguous_CA_NR_FR2_Class_(2A-D-O)	
135	DL NR FR2 Intra-band non-contiguous CA BW Class Combination (2A-D-2O)	38.101-2, 5.3A.4	pc_DL_intra_non_contiguous_CA_NR_FR2_Class_(2A-D-2O)	
136	DL NR FR2 Intra-band non-contiguous CA BW Class Combination (2A-G-O)	38.101-2, 5.3A.4	pc_DL_intra_non_contiguous_CA_NR_FR2_Class_(2A-G-O)	
137	DL NR FR2 Intra-band non-contiguous CA BW Class Combination (2A-G-2O)	38.101-2, 5.3A.4	pc_DL_intra_non_contiguous_CA_NR_FR2_Class_(2A-G-2O)	
138	DL NR FR2 Intra-band non-contiguous CA BW Class Combination (2A-2G-O)	38.101-2, 5.3A.4	pc_DL_intra_non_contiguous_CA_NR_FR2_Class_(2A-2G-O)	
139	DL NR FR2 Intra-band non-contiguous CA BW Class Combination (2A-2G-2O)	38.101-2, 5.3A.4	pc_DL_intra_non_contiguous_CA_NR_FR2_Class_(2A-2G-2O)	
140	DL NR FR2 Intra-band non-contiguous CA BW Class Combination (2A-O-P)	38.101-2, 5.3A.4	pc_DL_intra_non_contiguous_CA_NR_FR2_Class_(2A-O-P)	
141	DL NR FR2 Intra-band non-contiguous CA BW Class Combination (2A-O-2P)	38.101-2, 5.3A.4	pc_DL_intra_non_contiguous_CA_NR_FR2_Class_(2A-O-2P)	

142	DL NR FR2 Intra-band non-contiguous CA BW Class Combination (2A-2O-P)	38.101-2, 5.3A.4	pc_DL_intra_non_contiguous_CA_NR_FR2_Class_(2A-2O-P)	
143	DL NR FR2 Intra-band non-contiguous CA BW Class Combination (2A-2O-2P)	38.101-2, 5.3A.4	pc_DL_intra_non_contiguous_CA_NR_FR2_Class_(2A-2O-2P)	
144	DL NR FR2 Intra-band non-contiguous CA BW Class Combination (2A-O-Q)	38.101-2, 5.3A.4	pc_DL_intra_non_contiguous_CA_NR_FR2_Class_(2A-O-Q)	
145	DL NR FR2 Intra-band non-contiguous CA BW Class Combination (2A-O-2Q)	38.101-2, 5.3A.4	pc_DL_intra_non_contiguous_CA_NR_FR2_Class_(2A-O-2Q)	
146	DL NR FR2 Intra-band non-contiguous CA BW Class Combination (2A-2O-Q)	38.101-2, 5.3A.4	pc_DL_intra_non_contiguous_CA_NR_FR2_Class_(2A-2O-Q)	
147	DL NR FR2 Intra-band non-contiguous CA BW Class Combination (2A-2O-2Q)	38.101-2, 5.3A.4	pc_DL_intra_non_contiguous_CA_NR_FR2_Class_(2A-2O-2Q)	
148	DL NR FR2 Intra-band non-contiguous CA BW Class Combination (3A-O-P)	38.101-2, 5.3A.4	pc_DL_intra_non_contiguous_CA_NR_FR2_Class_(3A-O-P)	

Table A.4.3.2A.3.2-2: Uplink Bandwidth Class capabilities with single bandwidth class for NR Intra-band non-contiguous CA configurations within FR2 (for one or more of the supported configurations in Table A.4.3.2A.3.2-3)

Item	UL NR FR2 Intra-band non-contiguous CA Bandwidth Class (with single bandwidth class)	Ref.	Mnemonic	Comments
1	UL NR FR2 Intra-band non-contiguous CA BW Class Combination (2A)	38.101-2, 5.3A.4	pc_UL_intra_non_contiguous_CA_NR_FR2_Class_(2A)	
2	UL NR FR2 Intra-band non-contiguous CA BW Class Combination (3A)	38.101-2, 5.3A.4	pc_UL_intra_non_contiguous_CA_NR_FR2_Class_(3A)	
3	UL NR FR2 Intra-band non-contiguous CA BW Class Combination (G)	38.101-2, 5.3A.4	pc_UL_intra_non_contiguous_CA_NR_FR2_Class_(G)	
4	UL NR FR2 Intra-band non-contiguous CA BW Class Combination (H)	38.101-2, 5.3A.4	pc_UL_intra_non_contiguous_CA_NR_FR2_Class_(H)	
5	UL NR FR2 Intra-band non-contiguous CA BW Class Combination (I)	38.101-2, 5.3A.4	pc_UL_intra_non_contiguous_CA_NR_FR2_Class_(I)	

Table A.4.3.2A.3.2-2a: Uplink Bandwidth Class capabilities with multiple bandwidth classes for NR Intra-band non-contiguous CA configurations within FR2 (for one or more of the supported configurations in Table A.4.3.2A.3.2-3a)

Item	UL NR FR2 Intra-band non-contiguous CA Bandwidth Class (with multiple bandwidth classes)	Ref.	Mnemonic	Comments
1	UL NR FR2 Intra-band non-contiguous CA BW Class Combination (D)	38.101-2, 5.3A.4	pc_UL_intra_non_contiguous_CA_NR_FR2_Class_(D)	
2	UL NR FR2 Intra-band non-contiguous CA BW Class Combination (E)	38.101-2, 5.3A.4	pc_UL_intra_non_contiguous_CA_NR_FR2_Class_(E)	
3	UL NR FR2 Intra-band non-contiguous CA BW Class Combination (G)	38.101-2, 5.3A.4	pc_UL_intra_non_contiguous_CA_NR_FR2_Class_(G)	
4	UL NR FR2 Intra-band non-contiguous CA BW Class Combination (H)	38.101-2, 5.3A.4	pc_UL_intra_non_contiguous_CA_NR_FR2_Class_(H)	
5	UL NR FR2 Intra-band non-contiguous CA BW Class Combination (I)	38.101-2, 5.3A.4	pc_UL_intra_non_contiguous_CA_NR_FR2_Class_(I)	
6	UL NR FR2 Intra-band non-contiguous CA BW Class Combination (O)	38.101-2, 5.3A.4	pc_UL_intra_non_contiguous_CA_NR_FR2_Class_(O)	
7	UL NR FR2 Intra-band non-contiguous CA BW Class Combination (P)	38.101-2, 5.3A.4	pc_UL_intra_non_contiguous_CA_NR_FR2_Class_(P)	
8	UL NR FR2 Intra-band non-contiguous CA BW Class Combination (Q)	38.101-2, 5.3A.4	pc_UL_intra_non_contiguous_CA_NR_FR2_Class_(Q)	

Table A.4.3.2A.3.2-3: Supported configurations with single bandwidth class for NR Intra-band non-contiguous CA within FR2

NR FR2 Intra-band non-contiguous CA configuration / Item (Note 4)	Release	Supported	Supported CA Bandwidth Class(es) in UL (Note 3)	Supported Bandwidth Combination Set(s) (Note 1)
CA_n261(2A)	Rel-15			

Note 1: The UE supplier shall indicate the supported Bandwidth Combination Set(s) as per TS 38.101-2 [24] Table 5.5A.2-1.
Note 2: Void.
Note 3: See UL(*table_index*) in Note 1 of Table 4.0-3 and UL_*n*CC(*table_index*) in Note 2 of Table 4.0-3 in TS 38.522 [9].
Note 4: See DL_*n*CC(*table_index*) in Note 4 of Table 4.0-3 in TS 38.522 [9].

Table A.4.3.2A.3.2-3a: Supported configurations with multiple bandwidth classes for NR Intra-band non-contiguous CA within FR2

TBD

A.4.3.2A.4 NR Inter-band CA within FR1

A.4.3.2A.4.1 NR Inter-band CA within FR1 (two bands)

Table A.4.3.2A.4.1-1: Downlink Bandwidth Class Combination capabilities for NR Inter-band CA configuration within FR1 and two bands (for one or more of the supported CA configurations in Table A.4.3.2A.4.1-3)

Item	DL NR FR1 Inter-band CA Bandwidth Class	Ref.	Mnemonic	Comments
1	DL NR FR1 Inter-band CA BW Class Combination A-A (two bands)	38.101-1, 5.3A.5	pc_DL_inter_band_CA_NR_FR1_2B_Class_A-A	
2	DL NR FR1 Inter-band CA BW Class Combination A-(2A) (two bands)	38.101-1, 5.3A.5	pc_DL_inter_band_CA_NR_FR1_2B_Class_A-(2A)	
3	DL NR FR1 Inter-band CA BW Class Combination A-B (two bands)	38.101-1, 5.3A.5	pc_DL_inter_band_CA_NR_FR1_2B_Class_A-B	
4	DL NR FR1 Inter-band CA BW Class Combination A-C (two bands)	38.101-1, 5.3A.5	pc_DL_inter_band_CA_NR_FR1_2B_Class_A-C	
5	DL NR FR1 Inter-band CA BW Class Combination (2A)-A (two bands)	38.101-1, 5.3A.5	pc_DL_inter_band_CA_NR_FR1_2B_Class_(2A)-A	
6	DL NR FR1 Inter-band CA BW Class Combination (2A)-(2A) (two bands)	38.101-1, 5.3A.5	pc_DL_inter_band_CA_NR_FR1_2B_Class_(2A)-(2A)	
7	DL NR FR1 Inter-band CA BW Class Combination (2A)-B (two bands)	38.101-1, 5.3A.5	pc_DL_inter_band_CA_NR_FR1_2B_Class_(2A)-B	
8	DL NR FR1 Inter-band CA BW Class Combination B-A (two bands)	38.101-1, 5.3A.5	pc_DL_inter_band_CA_NR_FR1_2B_Class_B-A	
9	DL NR FR1 Inter-band CA BW Class Combination C-A (two bands)	38.101-1, 5.3A.5	pc_DL_inter_band_CA_NR_FR1_2B_Class_C-A	
10	DL NR FR1 Inter-band CA BW Class Combination C-B (two bands)	38.101-1, 5.3A.5	pc_DL_inter_band_CA_NR_FR1_2B_Class_C-B	

Table A.4.3.2A.4.1-2: Uplink Bandwidth Class Combination capabilities for NR Inter-band CA within FR1 and two bands (for one or more of the supported CA configurations in Table A.4.3.2A.4.1-3)

Item	UL NR FR1 Inter-band CA Bandwidth Class	Ref.	Mnemonic	Comments
1	UL NR FR1 Inter-band CA BW Class Combination A-A (two bands)	38.101-1, 5.3A.5	pc_UL_inter_band_CANR_FR1_2B_Class_A-A	
2	UL NR FR1 Inter-band CA BW Class Combination (2A) (two bands)	38.101-1, 5.3A.5	pc_UL_inter_band_CANR_FR1_2B_Class_(2A)	
3	UL NR FR1 Inter-band CA BW Class Combination B (two bands)	38.101-1, 5.3A.5	pc_UL_inter_band_CANR_FR1_2B_Class_B	
4	UL NR FR1 Inter-band CA BW Class Combination C (two bands)	38.101-1, 5.3A.5	pc_UL_inter_band_CANR_FR1_2B_Class_C	

Table A.4.3.2A.4.1-3: Supported configurations for NR Inter-band CA within FR1 and two bands

NR FR1 Inter-band CA configuration / Item (Note 1, 9)	Release	Supported	Supported CA Bandwidth Class(es) in UL (Note 2,5)	Supported Bandwidth Combination Set(s) (Note 3)	Supported ULTxSwitching Band Pair (Note 7, 8)
CA_n1A-n3A	Rel-16				
CA_n1(2A)-n3A	Rel-17				
CA_n1(2A)-n5A	Rel-17				
CA_n1A-n8A	Rel-16				
CA_n1(2A)-n8A	Rel-17				
CA_n1A-n77A	Rel-16				
CA_n1A-n78A	Rel-16				
CA_n1(2A)-n78A	Rel-17				
CA_n1A-n78(2A)	Rel-17				
CA_n1A-n78C	Rel-16				
CA_n1A-n79A	Rel-16				
CA_n2A-n77A	Rel-16				
CA_n3A-n5A	Rel-17				
CA_n3(2A)-n5A	Rel-17				
CA_n3(2A)-n8A	Rel-17				
CA_n3A-n41A	Rel-16				
CA_n3A-n78A	Rel-15				
CA_n3A-n78(2A)	Rel-17				
CA_n3(2A)-n78A	Rel-17				
CA_n5A-n78(2A)	Rel-17				
CA_n5A-n7A	Rel-16				
CA_n5A-n48A	Rel-17				
CA_n5A-n77A	Rel-16				
CA_n5A-n78A	Rel-16				
CA_n7A-n78A	Rel-16				
CA_n8A-n78A	Rel-15				
CA_n8A-n78(2A)	Rel-17				
CA_n24A-n41A	Rel-17				
CA_n24A-n41(2A)	Rel-17				
CA_n24A-n48A	Rel-17				
CA_n24A-n48B	Rel-17				
CA_n24A-n48(2A)	Rel-17				
CA_n24A-n77A	Rel-17				
CA_n24A-n77C	Rel-17				
CA_n26A-n66A	Rel-17				
CA_n26A-n66(2A)	Rel-17				
CA_n26A-n70A	Rel-17				
CA_n28A-n41A	Rel-16				
CA_n28A-n79A	Rel-17				
CA_n29A-n66A	Rel-16				
CA_n29A-n66B	Rel-16				
CA_n29A-n66(2A)	Rel-16				
CA_n29A-n70A	Rel-16				
CA_n29A-n71A	Rel-17				
CA_n41A-n66A	Rel-17				
CA_n41A-n71A	Rel-16				
CA_n41A-n79A	Rel-16				
CA_n41C-n79A	Rel-16				
CA_n48A-n66A (Note 6)	Rel-16				

CA_n48A-n66(2A) (Note 6)	Rel-17				
CA_n48A-n70A	Rel-17				
CA_n48A-n71A	Rel-17				
CA_n48A-n71(2A)	Rel-17				
CA_n48A-n77A	Rel-17				
CA_n48B-n66A	Rel-17				
CA_n48B-n70A	Rel-17				
CA_n48B-n71A	Rel-17				
CA_n48(2A)-n66A	Rel-17				
CA_n48(2A)-n66(2A)	Rel-17				
CA_n48(2A)-n70A	Rel-17				
CA_n48(2A)-n71A	Rel-17				
CA_n48(2A)-n71(2A)	Rel-17				
CA_n66A-n70A (Note 6)	Rel-16				
CA_n66B-n70A (Note 6)	Rel-16				
CA_n66(2A)-n70A (Note 6)	Rel-16				
CA_n66A-n71A (Note 6)	Rel-16				
CA_n66A-n71(2A) (Note 6)	Rel-17				
CA_n66B-n71A (Note 6)	Rel-16				
CA_n66(2A)-n71A (Note 6)	Rel-16				
CA_n66(2A)-n71(2A) (Note 6)	Rel-17				
CA_n66A-n77A	Rel-16				
CA_n70A-n71A	Rel-16				
CA_n70A-n71(2A)	Rel-17				
CA_n71A-n77A	Rel-17				
CA_n78A-n79A	Rel-15				

Note 1:	Notation used for inter-band CA Bands is according to TS 38.101-1 [23] Table 5.5A.3.1-1, e.g. 'CA_n1A-n78C' indicates CA operation on NR band n1 and n78 with DL CA Bandwidth Class A and C respectively.
Note 2:	The UL CA capabilities as per Table A.4.3.2A.4.1-2 can be supported on a single or multiple CA Band(s). The UE supplier shall indicate all supported UL CA Bandwidth Class(es), in uplink of the supported CA Band(s), as per TS 38.101-1 [23] Table 5.5A.3.1-1. For this release of specification valid choices are 'N', 'nXA-nYA', 'nX(2A)', 'nXB' and 'nXC', where both nX and nY are the NR bands. For example, for CA_n1A-n77A, 'N' would mean only DL CA, 'n1A-n77A' would mean both DL and UL CA.
Note 3:	The UE supplier shall indicate the supported Bandwidth Combination Set(s) as per TS 38.101-1 [23] Table 5.5A.3.1-1.
Note 4:	Void.
Note 5:	See UL(*table_index*) in in Note 1 of Table 4.0-3 and UL_*n*CC(*table_index*) in Note 2 of Table 4.0-3 in TS 38.522 [9].
Note 6:	A UE that supports NR Band n66 (Table A.4.3.1-1) and CA operation in any CA band shall also support the DL CA configurations CA_n66B and CA_n66(2A), as per Note 7, in Table 5.2-1, in TS 38.521-1 [5].
Note 7:	The ULTxSwitching capability can be reported on inter-band CA band combinations. The UE supplier shall indicate inter-band CA band pairs on which it supports ULTxSwitching. For this release of specification valid choices are 'N' and 'nX-nY', where both nX and nY are NR bands. For example, for CA_n1A-n77A, 'N' would mean not supporting ULTxSwitching, 'n1-n77' would mean supporting of ULTxSwitching on this band pair. If UE supplier indicates supporting of ULTxSwitching on a band pair, they shall indicate at least one inter-band UL CA configuration on the same band pair in the column "Supported CA Bandwidth Class(es) in UL". The ULTxSwitching is only tested with 2 UL CCs, so UE is allowed to report 'N' by default for CA configuration with > 2 component carriers.
Note 8:	See ULTxSwitching(*table_index*) Note 6 of Table 4.0-3 in TS 38.522 [9].
Note 9:	See DL_*n*CC(*table_index*) in Note 4 of Table 4.0-3 in TS 38.522 [9].

Table A.4.3.2A.4.1-4: Inter-band CA within FR1 (two bands) PC2 UE RF Baseline Implementation Capabilities

Item	CA configuration	Inter-band CA within FR1 (two bands) PC2 UE RF Baseline Implementation Capabilities	Ref.	Release	Mnemonic	Comments
1	CA_n1A-n78A	n1 band: 1920-1980 MHz (UL),2110-2170 MHz (DL) n78 band: 3300-3800 MHz	38.101-1, 6.2A.1.3	Rel-17	pc_UL_inter_band_CA_n1A_n78A_PC2_Supp	
2	CA_n3A-n78A	n3 band: 1710-1785 MHz (UL),1805-1880 MHz (DL) n78 band: 3300-3800 MHz	38.101-1, 6.2A.1.3	Rel-17	pc_UL_inter_band_CA_n3A_n78A_PC2_Supp	
3	CA_n28A-n41A	n28 band: 703-748 MHz (UL),758- 803 MHz (DL) n41 band: 2496-2690 MHz	38.101-1, 6.2A.1.3	Rel-17	pc_UL_inter_band_CA_n28A_n41A_PC2_Supp	
4	CA_n28A-n79A	n28 band: 703-748 MHz (UL),758- 803 MHz (DL) n79 band: 4400-5000 MHz	38.101-1, 6.2A.1.3	Rel-17	pc_UL_inter_band_CA_n28A_n79A_PC2_Supp	

A.4.3.2A.4.2 NR Inter-band CA within FR1 (three bands)

Table A.4.3.2A.4.2-1: Downlink Bandwidth Class Combination capabilities for NR Inter-band CA configuration within FR1 and three bands (for one or more of the supported CA configurations in Table A.4.3.2A.4.2-3)

Item	DL NR FR1 Inter-band CA Bandwidth Class	Ref.	Mnemonic	Comments
1	DL NR FR1 Inter-band CA BW Class Combination A-A-A (three bands)	38.101-1, 5.3A.5	pc_DL_inter_band_CA_NR_FR1_3B_Class_A-A-A	
2	DL NR FR1 Inter-band CA BW Class Combination A-A-(2A) (three bands)	38.101-1, 5.3A.5	pc_DL_inter_band_CA_NR_FR1_3B_Class_A-A-(2A)	
3	DL NR FR1 Inter-band CA BW Class Combination A-A-B (three bands)	38.101-1, 5.3A.5	pc_DL_inter_band_CA_NR_FR1_3B_Class_A-A-B	
4	DL NR FR1 Inter-band CA BW Class Combination A-(2A)-A (three bands)	38.101-1, 5.3A.5	pc_DL_inter_band_CA_NR_FR1_3B_Class_A-(2A)-A	
5	DL NR FR1 Inter-band CA BW Class Combination A-B-A (three bands)	38.101-1, 5.3A.5	pc_DL_inter_band_CA_NR_FR1_3B_Class_A-B-A	
6	DL NR FR1 Inter-band CA BW Class Combination A-C-A (three bands)	38.101-1, 5.3A.5	pc_DL_inter_band_CA_NR_FR1_3B_Class_A-C-A	
7	DL NR FR1 Inter-band CA BW Class Combination (2A)-A-A (three bands)	38.101-1, 5.3A.5	pc_DL_inter_band_CA_NR_FR1_3B_Class_(2A)-A-A	
8	DL NR FR1 Inter-band CA BW Class Combination B-A-A (three bands)	38.101-1, 5.3A.5	pc_DL_inter_band_CA_NR_FR1_3B_Class_B-A-A	
9	DL NR FR1 Inter-band CA BW Class Combination C-A-A (three bands)	38.101-1, 5.3A.5	pc_DL_inter_band_CA_NR_FR1_3B_Class_C-A-A	

Table A.4.3.2A.4.2-2: Uplink Bandwidth Class Combination capabilities for NR Inter-band CA within FR1 and three bands (for one or more of the supported CA configurations in Table A.4.3.2A.4.2-3)

Item	UL NR FR1 Inter-band CA Bandwidth Class	Ref.	Mnemonic	Comments
1	UL NR FR1 Inter-band CA BW Class Combination A-A (three bands)	38.101-1, 5.3A.5	pc_UL_inter_band_CA_NR_FR1_3B_Class_A-A	
2	UL NR FR1 Inter-band CA BW Class Combination (2A) (three bands)	38.101-1, 5.3A.5	pc_UL_inter_band_CA_NR_FR1_3B_Class_(2A)	
3	UL NR FR1 Inter-band CA BW Class Combination C (three bands)	38.101-1, 5.3A.5	pc_UL_inter_band_CA_NR_FR1_3B_Class_C	

Table A.4.3.2A.4.2-3: Supported configurations for NR Inter-band CA within FR1 and three bands

NR FR1 Inter-band CA configuration / Item (Note 1, 7)	Release	Supported	Supported CA Bandwidth Class(es) in UL (Note 2,5)	Supported Bandwidth Combination Set(s) (Note 3)
CA_n26A-n66A-n70A	Rel-17			
CA_n26A-n66(2A)-n70A	Rel-17			
CA_n29A-n66A-n70A	Rel-16			
CA_n48A-n66A-n70A	Rel-17			
CA_n48A-n66A-n71A	Rel-17			
CA_n48A-n66A-n71(2A)	Rel-17			
CA_n48A-n66(2A)-n70A	Rel-17			
CA_n48A-n66(2A)-n71A	Rel-17			
CA_n48A-n70A-n71A	Rel-17			
CA_n48A-n70A-n71(2A)	Rel-17			
CA_n48B-n66A-n70A	Rel-17			
CA_n48B-n66A-n71A	Rel-17			
CA_n48B-n70A-n71A	Rel-17			
CA_n48(2A)-n66A-n70A	Rel-17			
CA_n48(2A)-n66A-n71A	Rel-17			
CA_n48(2A)-n70A-n71A	Rel-17			
CA_n66A-n70A-n71A (Note 6)	Rel-16			
CA_n66A-n70A-n71(2A) (Note 6)	Rel-17			
CA_n66B-n70A-n71A (Note 6)	Rel-16			
CA_n66(2A)-n70A-n71A (Note 6)	Rel-16			

Note 1: Notation used for inter-band CA Bands is according to TS 38.101-1 [23] Table 5.5A.3-2, e.g. 'CA_n66B-n70A-n71A' indicates CA operation on NR band n66, n70 and n71 with DL CA Bandwidth Class B, A and A respectively.

Note 2: The UL CA capabilities as per Table A.4.3.2A.4.2-2 can be supported on a single or multiple CA Band(s). The UE supplier shall indicate all supported UL CA Bandwidth Class(es), in uplink of the supported CA Band(s), as per TS 38.101-1 [23] Table 5.5A.1-1. For this release of specification valid choices are 'N', 'nXA-nYA', 'nX(2A)' and 'nXC', where both nX and nY are the NR bands. For example, for CA_n66A-n70A-n71A , 'N' would mean only DL CA, 'n66A-n71A' would mean both DL and UL CA.

Note 3: The UE supplier shall indicate the supported Bandwidth Combination Set(s) as per TS 38.101-1 [23] Table 5.5A.3-2.

Note 4: Void.

Note 5: See UL(*table_index*) in Note 1 of Table 4.0-3 and UL_*n*CC(*table_index*) in Note 2 of Table 4.0-3 in TS 38.522 [9].

Note 6: A UE that supports NR Band n66 (Table A.4.3.1-1) and CA operation in any CA band shall also support the DL CA configurations CA_n66B and CA_n66(2A), as per Note 7, in Table 5.2-1, in TS 38.521-1 [5].

Note 7: See DL_*n*CC(*table_index*) in Note 4 of Table 4.0-3 in TS 38.522 [9].

A.4.3.2A.4.3 NR Inter-band CA within FR1 (four bands)

Table A.4.3.2A.4.3-1: Downlink Bandwidth Class Combination capabilities for NR Inter-band CA configuration within FR1 and four bands (for one or more of the supported CA configurations in Table A.4.3.2A.4.3-3)

Item	DL NR FR1 Inter-band CA Bandwidth Class	Ref.	Mnemonic	Comments
1	DL NR FR1 Inter-band CA BW Class Combination A-A-A-A (four bands)	38.101-1, 5.3A.5	pc_DL_inter_band_CA_NR_FR1_4B_Class_A-A-A-A	
2	DL NR FR1 Inter-band CA BW Class Combination A-A-B-A (four bands)	38.101-1, 5.3A.5	pc_DL_inter_band_CA_NR_FR1_4B_Class_A-A-B-A	
3	DL NR FR1 Inter-band CA BW Class Combination A-B-A-A (four bands)	38.101-1, 5.3A.5	pc_DL_inter_band_CA_NR_FR1_4B_Class_A-B-A-A	

Table A.4.3.2A.4.3-2: Uplink Bandwidth Class Combination capabilities for NR Inter-band CA within FR1 and four bands (for one or more of the supported CA configurations in Table A.4.3.2A.4.3-3)

Item	UL NR FR1 Inter-band CA Bandwidth Class	Ref.	Mnemonic	Comments
1	UL NR FR1 Inter-band CA BW Class Combination A-A (four bands)	38.101-1, 5.3A.5	pc_UL_inter_band_CA_NR_FR1_4B_Class_A-A	

Table A.4.3.2A.4.2-3: Supported configurations for NR Inter-band CA within FR1 and four bands

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A.4.3.2A.5 NR Inter-band CA within FR2

A.4.3.2A.5.1 NR Inter-band CA within FR2 (two bands)

Table A.4.3.2A.5.1-1: Downlink Bandwidth Class Combination capabilities for NR Inter-band CA configuration within FR2 and two bands (for one or more of the supported CA configurations in Table A.4.3.2A.5.1-3)

Item	DL NR FR2 Inter-band CA Bandwidth Class	Ref.	Mnemonic	Comments
1	DL NR FR2 Inter-band CA BW Class Combination A-A (two bands)	38.101-2, 5.3A.4	pc_DL_inter_band_CA_NR_FR2_2B_Class_A-A	

Table A.4.3.2A.5.1-2: Uplink Bandwidth Class Combination capabilities for NR Inter-band CA within FR2 and two bands (for one or more of the supported CA configurations in Table A.4.3.2A.5.1-3)

Item	UL NR FR2 Inter-band CA Bandwidth Class	Ref.	Mnemonic	Comments
1	UL NR FR2 Inter-band CA BW Class Combination A-A (two bands)	38.101-2, 5.3A.4	pc_UL_inter_band_CA_NR_FR2_2B_Class_A-A	

Table A.4.3.2A.5.1-3: Supported configurations for NR Inter-band CA within FR2 and two bands

TBD

A.4.3.2A.6 NR Inter-band CA between FR1 and FR2

A.4.3.2A.6.1 NR Inter-band CA between FR1 and FR2 (two bands)

Table A.4.3.2A.6.1-1: Downlink Bandwidth Class Combination capabilities for NR Inter-band CA configuration between FR1 and FR2 and two bands (for one or more of the supported CA configurations in Table A.4.3.2A.6.1-3)

Item	DL NR FR1 and FR2 Inter-band CA Bandwidth Class	Ref.	Mnemonic	Comments
1	DL NR FR1 and FR2 Inter-band CA BW Class Combination A-A (two bands)	38.101-1, 5.3A.5 38.101-2, 5.3A.4 38.101-3, 5.5A.1	pc_DL_inter_band_CA_NR_FR1_FR2_2B_Class_A-A	
2	DL NR FR1 and FR2 Inter-band CA BW Class Combination A-D (two bands)	38.101-1, 5.3A.5 38.101-2, 5.3A.4 38.101-3, 5.5A.1	pc_DL_inter_band_CA_NR_FR1_FR2_2B_Class_A-D	
3	DL NR FR1 and FR2 Inter-band CA BW Class Combination A-E (two bands)	38.101-1, 5.3A.5 38.101-2, 5.3A.4 38.101-3, 5.5A.1	pc_DL_inter_band_CA_NR_FR1_FR2_2B_Class_A-E	
4	DL NR FR1 and FR2 Inter-band CA BW Class Combination A-F (two bands)	38.101-1, 5.3A.5 38.101-2, 5.3A.4 38.101-3, 5.5A.1	pc_DL_inter_band_CA_NR_FR1_FR2_2B_Class_A-F	
5	DL NR FR1 and FR2 Inter-band CA BW Class Combination A-G (two bands)	38.101-1, 5.3A.5 38.101-2, 5.3A.4 38.101-3, 5.5A.1	pc_DL_inter_band_CA_NR_FR1_FR2_2B_Class_A-G	
6	DL NR FR1 and FR2 Inter-band CA BW Class Combination A-H (two bands)	38.101-1, 5.3A.5 38.101-2, 5.3A.4 38.101-3, 5.5A.1	pc_DL_inter_band_CA_NR_FR1_FR2_2B_Class_A-H	
7	DL NR FR1 and FR2 Inter-band CA BW Class Combination A-I (two bands)	38.101-1, 5.3A.5 38.101-2, 5.3A.4 38.101-3, 5.5A.1	pc_DL_inter_band_CA_NR_FR1_FR2_2B_Class_A-I	
8	DL NR FR1 and FR2 Inter-band CA BW Class Combination A-J (two bands)	38.101-1, 5.3A.5 38.101-2, 5.3A.4 38.101-3, 5.5A.1	pc_DL_inter_band_CA_NR_FR1_FR2_2B_Class_A-J	
9	DL NR FR1 and FR2 Inter-band CA BW Class Combination A-K (two bands)	38.101-1, 5.3A.5 38.101-2, 5.3A.4 38.101-3, 5.5A.1	pc_DL_inter_band_CA_NR_FR1_FR2_2B_Class_A-K	
10	DL NR FR1 and FR2 Inter-band CA BW Class Combination A-L (two bands)	38.101-1, 5.3A.5 38.101-2, 5.3A.4 38.101-3, 5.5A.1	pc_DL_inter_band_CA_NR_FR1_FR2_2B_Class_A-L	
11	DL NR FR1 and FR2 Inter-band CA BW Class Combination A-M (two bands)	38.101-1, 5.3A.5 38.101-2, 5.3A.4 38.101-3, 5.5A.1	pc_DL_inter_band_CA_NR_FR1_FR2_2B_Class_A-M	
12	DL NR FR1 and FR2 Inter-band CA BW Class Combination A-(2A) (two bands)	38.101-1, 5.3A.5 38.101-2, 5.3A.4 38.101-3, 5.5A.1	pc_DL_inter_band_CA_NR_FR1_FR2_2B_Class_A-(2A)	
13	DL NR FR1 and FR2 Inter-band CA BW Class Combination A-(3A) (two bands)	38.101-1, 5.3A.5 38.101-2, 5.3A.4 38.101-3, 5.5A.1	pc_DL_inter_band_CA_NR_FR1_FR2_2B_Class_A-(3A)	
14	DL NR FR1 and FR2 Inter-band CA BW Class Combination A-(4A) (two bands)	38.101-1, 5.3A.5 38.101-2, 5.3A.4 38.101-3, 5.5A.1	pc_DL_inter_band_CA_NR_FR1_FR2_2B_Class_A-(4A)	
15	DL NR FR1 and FR2 Inter-band CA BW Class Combination A-(5A) (two bands)	38.101-1, 5.3A.5 38.101-2, 5.3A.4 38.101-3, 5.5A.1	pc_DL_inter_band_CA_NR_FR1_FR2_2B_Class_A-(5A)	
16	DL NR FR1 and FR2 Inter-band CA BW Class Combination A-(6A) (two bands)	38.101-1, 5.3A.5 38.101-2, 5.3A.4 38.101-3, 5.5A.1	pc_DL_inter_band_CA_NR_FR1_FR2_2B_Class_A-(6A)	
17	DL NR FR1 and FR2 Inter-band CA BW Class Combination A-(7A) (two bands)	38.101-1, 5.3A.5 38.101-2, 5.3A.4 38.101-3, 5.5A.1	pc_DL_inter_band_CA_NR_FR1_FR2_2B_Class_A-(7A)	
18	DL NR FR1 and FR2 Inter-band CA BW Class Combination A-(8A) (two bands)	38.101-1, 5.3A.5 38.101-2, 5.3A.4 38.101-3, 5.5A.1	pc_DL_inter_band_CA_NR_FR1_FR2_2B_Class_A-(8A)	
19	DL NR FR1 and FR2 Inter-band CA BW Class Combination A-(2G) (two bands)	38.101-1, 5.3A.5 38.101-2, 5.3A.4 38.101-3, 5.5A.1	pc_DL_inter_band_CA_NR_FR1_FR2_2B_Class_A-(2G)	
20	DL NR FR1 and FR2 Inter-band CA BW Class Combination A-(2H) (two bands)	38.101-1, 5.3A.5 38.101-2, 5.3A.4 38.101-3, 5.5A.1	pc_DL_inter_band_CA_NR_FR1_FR2_2B_Class_A-(2H)	
21	DL NR FR1 and FR2 Inter-band CA BW Class Combination A-(2I) (two bands)	38.101-1, 5.3A.5 38.101-2, 5.3A.4 38.101-3, 5.5A.1	pc_DL_inter_band_CA_NR_FR1_FR2_2B_Class_A-(2I)	

22	DL NR FR1 and FR2 Inter-band CA BW Class Combination (2A)-A (two bands)	38.101-1, 5.3A.5 38.101-2, 5.3A.4 38.101-3, 5.5A.1	pc_DL_inter_band_CA_NR_FR1_FR2_2B_Class_(2A)-A	
23	DL NR FR1 and FR2 Inter-band CA BW Class Combination (2A)-(2A) (two bands)	38.101-1, 5.3A.5 38.101-2, 5.3A.4 38.101-3, 5.5A.1	pc_DL_inter_band_CA_NR_FR1_FR2_2B_Class_(2A)-(2A)	
24	DL NR FR1 and FR2 Inter-band CA BW Class Combination (2A)-D (two bands)	38.101-1, 5.3A.5 38.101-2, 5.3A.4 38.101-3, 5.5A.1	pc_DL_inter_band_CA_NR_FR1_FR2_2B_Class_(2A)-D	
25	DL NR FR1 and FR2 Inter-band CA BW Class Combination (2A)-G (two bands)	38.101-1, 5.3A.5 38.101-2, 5.3A.4 38.101-3, 5.5A.1	pc_DL_inter_band_CA_NR_FR1_FR2_2B_Class_(2A)-G	
26	DL NR FR1 and FR2 Inter-band CA BW Class Combination (2A)-H (two bands)	38.101-1, 5.3A.5 38.101-2, 5.3A.4 38.101-3, 5.5A.1	pc_DL_inter_band_CA_NR_FR1_FR2_2B_Class_(2A)-H	
27	DL NR FR1 and FR2 Inter-band CA BW Class Combination (2A)-I (two bands)	38.101-1, 5.3A.5 38.101-2, 5.3A.4 38.101-3, 5.5A.1	pc_DL_inter_band_CA_NR_FR1_FR2_2B_Class_(2A)-I	
28	DL NR FR1 and FR2 Inter-band CA BW Class Combination (2A)-J (two bands)	38.101-1, 5.3A.5 38.101-2, 5.3A.4 38.101-3, 5.5A.1	pc_DL_inter_band_CA_NR_FR1_FR2_2B_Class_(2A)-J	
29	DL NR FR1 and FR2 Inter-band CA BW Class Combination (2A)-K (two bands)	38.101-1, 5.3A.5 38.101-2, 5.3A.4 38.101-3, 5.5A.1	pc_DL_inter_band_CA_NR_FR1_FR2_2B_Class_(2A)-K	
30	DL NR FR1 and FR2 Inter-band CA BW Class Combination (2A)-L (two bands)	38.101-1, 5.3A.5 38.101-2, 5.3A.4 38.101-3, 5.5A.1	pc_DL_inter_band_CA_NR_FR1_FR2_2B_Class_(2A)-L	
31	DL NR FR1 and FR2 Inter-band CA BW Class Combination (2A)-M (two bands)	38.101-1, 5.3A.5 38.101-2, 5.3A.4 38.101-3, 5.5A.1	pc_DL_inter_band_CA_NR_FR1_FR2_2B_Class_(2A)-M	
32	DL NR FR1 and FR2 Inter-band CA BW Class Combination C-A (two bands)	38.101-1, 5.3A.5 38.101-2, 5.3A.4 38.101-3, 5.5A.1	pc_DL_inter_band_CA_NR_FR1_FR2_2B_Class_C-A	
33	DL NR FR1 and FR2 Inter-band CA BW Class Combination C-(2A) (two bands)	38.101-1, 5.3A.5 38.101-2, 5.3A.4 38.101-3, 5.5A.1	pc_DL_inter_band_CA_NR_FR1_FR2_2B_Class_C-(2A)	
34	DL NR FR1 and FR2 Inter-band CA BW Class Combination C-D (two bands)	38.101-1, 5.3A.5 38.101-2, 5.3A.4 38.101-3, 5.5A.1	pc_DL_inter_band_CA_NR_FR1_FR2_2B_Class_C-D	
35	DL NR FR1 and FR2 Inter-band CA BW Class Combination C-E (two bands)	38.101-1, 5.3A.5 38.101-2, 5.3A.4 38.101-3, 5.5A.1	pc_DL_inter_band_CA_NR_FR1_FR2_2B_Class_C-E	
36	DL NR FR1 and FR2 Inter-band CA BW Class Combination C-F (two bands)	38.101-1, 5.3A.5 38.101-2, 5.3A.4 38.101-3, 5.5A.1	pc_DL_inter_band_CA_NR_FR1_FR2_2B_Class_C-F	
37	DL NR FR1 and FR2 Inter-band CA BW Class Combination G-H (two bands)	38.101-1, 5.3A.5 38.101-2, 5.3A.4 38.101-3, 5.5A.1	pc_DL_inter_band_CA_NR_FR1_FR2_2B_Class_G-H	
38	DL NR FR1 and FR2 Inter-band CA BW Class Combination G-I (two bands)	38.101-1, 5.3A.5 38.101-2, 5.3A.4 38.101-3, 5.5A.1	pc_DL_inter_band_CA_NR_FR1_FR2_2B_Class_G-I	
39	DL NR FR1 and FR2 Inter-band CA BW Class Combination H-I (two bands)	38.101-1, 5.3A.5 38.101-2, 5.3A.4 38.101-3, 5.5A.1	pc_DL_inter_band_CA_NR_FR1_FR2_2B_Class_H-I	

Table A.4.3.2A.6.1-2: Uplink Bandwidth Class Combination capabilities for NR Inter-band CA between FR1 and FR2 and two bands (for one or more of the supported CA configurations in Table A.4.3.2A.6.1-3)

Item	UL NR FR1 and FR2 Inter-band CA Bandwidth Class	Ref.	Mnemonic	Comments
1	UL NR FR1 and FR2 Inter-band CA BW Class Combination A-A (two bands)	38.101-1, 5.3A.5 38.101-2, 5.3A.4 38.101-3, 5.5A.1	pc_UL_inter_band_CA_NR_FR1_FR2_2B_Class_A-A	
2	UL NR FR1 and FR2 Inter-band CA BW Class Combination A-D (two bands)	38.101-1, 5.3A.5 38.101-2, 5.3A.4 38.101-3, 5.5A.1	pc_UL_inter_band_CA_NR_FR1_FR2_2B_Class_A-D	
3	UL NR FR1 and FR2 Inter-band CA BW Class Combination A-G (two bands)	38.101-1, 5.3A.5 38.101-2, 5.3A.4 38.101-3, 5.5A.1	pc_UL_inter_band_CA_NR_FR1_FR2_2B_Class_A-G	
4	UL NR FR1 and FR2 Inter-band CA BW Class Combination A-H (two bands)	38.101-1, 5.3A.5 38.101-2, 5.3A.4 38.101-3, 5.5A.1	pc_UL_inter_band_CA_NR_FR1_FR2_2B_Class_A-H	
5	UL NR FR1 and FR2 Inter-band CA BW Class Combination A-I (two bands)	38.101-1, 5.3A.5 38.101-2, 5.3A.4 38.101-3, 5.5A.1	pc_UL_inter_band_CA_NR_FR1_FR2_2B_Class_A-I	
6	UL NR FR1 and FR2 Inter-band CA BW Class Combination A-J (two bands)	38.101-1, 5.3A.5 38.101-2, 5.3A.4 38.101-3, 5.5A.1	pc_UL_inter_band_CA_NR_FR1_FR2_2B_Class_A-J	
7	UL NR FR1 and FR2 Inter-band CA BW Class Combination A-K (two bands)	38.101-1, 5.3A.5 38.101-2, 5.3A.4 38.101-3, 5.5A.1	pc_UL_inter_band_CA_NR_FR1_FR2_2B_Class_A-K	
8	UL NR FR1 and FR2 Inter-band CA BW Class Combination A-L (two bands)	38.101-1, 5.3A.5 38.101-2, 5.3A.4 38.101-3, 5.5A.1	pc_UL_inter_band_CA_NR_FR1_FR2_2B_Class_A-L	
9	UL NR FR1 and FR2 Inter-band CA BW Class Combination A-M (two bands)	38.101-1, 5.3A.5 38.101-2, 5.3A.4 38.101-3, 5.5A.1	pc_UL_inter_band_CA_NR_FR1_FR2_2B_Class_A-M	
10	UL NR FR1 and FR2 Inter-band CA BW Class Combination G (two bands)	38.101-1, 5.3A.5 38.101-2, 5.3A.4 38.101-3, 5.5A.1	pc_UL_inter_band_CA_NR_FR1_FR2_2B_Class_G	
11	UL NR FR1 and FR2 Inter-band CA BW Class Combination H (two bands)	38.101-1, 5.3A.5 38.101-2, 5.3A.4 38.101-3, 5.5A.1	pc_UL_inter_band_CA_NR_FR1_FR2_2B_Class_H	
12	UL NR FR1 and FR2 Inter-band CA BW Class Combination I (two bands)	38.101-1, 5.3A.5 38.101-2, 5.3A.4 38.101-3, 5.5A.1	pc_UL_inter_band_CA_NR_FR1_FR2_2B_Class_I	
13	UL NR FR1 and FR2 Inter-band CA BW Class Combination J (two bands)	38.101-1, 5.3A.5 38.101-2, 5.3A.4 38.101-3, 5.5A.1	pc_UL_inter_band_CA_NR_FR1_FR2_2B_Class_J	
14	UL NR FR1 and FR2 Inter-band CA BW Class Combination K (two bands)	38.101-1, 5.3A.5 38.101-2, 5.3A.4 38.101-3, 5.5A.1	pc_UL_inter_band_CA_NR_FR1_FR2_2B_Class_K	
15	UL NR FR1 and FR2 Inter-band CA BW Class Combination L (two bands)	38.101-1, 5.3A.5 38.101-2, 5.3A.4 38.101-3, 5.5A.1	pc_UL_inter_band_CA_NR_FR1_FR2_2B_Class_L	
16	UL NR FR1 and FR2 Inter-band CA BW Class Combination M (two bands)	38.101-1, 5.3A.5 38.101-2, 5.3A.4 38.101-3, 5.5A.1	pc_UL_inter_band_CA_NR_FR1_FR2_2B_Class_M	

Table A.4.3.2A.6.1-3: Supported configurations for NR Inter-band CA between FR1 and FR2 and two bands

TBD

A.4.3.2A.6.2 NR Inter-band CA between FR1 and FR2 (three bands)

Table A.4.3.2A.6.2-1: Downlink Bandwidth Class Combination capabilities for NR Inter-band CA configuration between FR1 and FR2 and three bands (for one or more of the supported CA configurations in Table A.4.3.2A.6.2-3)

Item	DL NR FR1 and FR2 Inter-band CA Bandwidth Class	Ref.	Mnemonic	Comments
1	DL NR FR1 and FR2 Inter-band CA BW Class Combination A-A-A (three bands)	38.101-1, 5.3A.5 38.101-2, 5.3A.4 38.101-3, 5.5A.1	pc_DL_inter_band_CA_NR_FR1_FR2_3B_Class_A-A-A	
2	DL NR FR1 and FR2 Inter-band CA BW Class Combination A-A-D (three bands)	38.101-1, 5.3A.5 38.101-2, 5.3A.4 38.101-3, 5.5A.1	pc_DL_inter_band_CA_NR_FR1_FR2_3B_Class_A-A-D	
3	DL NR FR1 and FR2 Inter-band CA BW Class Combination A-A-G (three bands)	38.101-1, 5.3A.5 38.101-2, 5.3A.4 38.101-3, 5.5A.1	pc_DL_inter_band_CA_NR_FR1_FR2_3B_Class_A-A-G	
4	DL NR FR1 and FR2 Inter-band CA BW Class Combination A-A-H (three bands)	38.101-1, 5.3A.5 38.101-2, 5.3A.4 38.101-3, 5.5A.1	pc_DL_inter_band_CA_NR_FR1_FR2_3B_Class_A-A-H	
5	DL NR FR1 and FR2 Inter-band CA BW Class Combination A-A-I (three bands)	38.101-1, 5.3A.5 38.101-2, 5.3A.4 38.101-3, 5.5A.1	pc_DL_inter_band_CA_NR_FR1_FR2_3B_Class_A-A-I	
6	DL NR FR1 and FR2 Inter-band CA BW Class Combination A-(2A)-A (three bands)	38.101-1, 5.3A.5 38.101-2, 5.3A.4 38.101-3, 5.5A.1	pc_DL_inter_band_CA_NR_FR1_FR2_3B_Class_A-(2A)-A	
7	DL NR FR1 and FR2 Inter-band CA BW Class Combination A-(2A)-D (three bands)	38.101-1, 5.3A.5 38.101-2, 5.3A.4 38.101-3, 5.5A.1	pc_DL_inter_band_CA_NR_FR1_FR2_3B_Class_A-(2A)-D	
8	DL NR FR1 and FR2 Inter-band CA BW Class Combination A-(2A)-G (three bands)	38.101-1, 5.3A.5 38.101-2, 5.3A.4 38.101-3, 5.5A.1	pc_DL_inter_band_CA_NR_FR1_FR2_3B_Class_A-(2A)-G	
9	DL NR FR1 and FR2 Inter-band CA BW Class Combination A-(2A)-H (three bands)	38.101-1, 5.3A.5 38.101-2, 5.3A.4 38.101-3, 5.5A.1	pc_DL_inter_band_CA_NR_FR1_FR2_3B_Class_A-(2A)-H	
10	DL NR FR1 and FR2 Inter-band CA BW Class Combination A-(2A)-I (three bands)	38.101-1, 5.3A.5 38.101-2, 5.3A.4 38.101-3, 5.5A.1	pc_DL_inter_band_CA_NR_FR1_FR2_3B_Class_A-(2A)-I	

Table A.4.3.2A.6.2-2: Uplink Bandwidth Class Combination capabilities for NR Inter-band CA between FR1 and FR2 and three bands (for one or more of the supported CA configurations in Table A.4.3.2A.6.2-3)

Item	UL NR FR1 and FR2 Inter-band CA Bandwidth Class	Ref.	Mnemonic	Comments
1	UL NR FR1 and FR2 Inter-band CA BW Class Combination A-A (three bands)	38.101-1, 5.3A.5 38.101-2, 5.3A.4 38.101-3, 5.5A.1	pc_UL_inter_band_CA_NR_FR1_FR2_3B_Class_A-A	
2	UL NR FR1 and FR2 Inter-band CA BW Class Combination A-D (three bands)	38.101-1, 5.3A.5 38.101-2, 5.3A.4 38.101-3, 5.5A.1	pc_UL_inter_band_CA_NR_FR1_FR2_3B_Class_A-D	
3	UL NR FR1 and FR2 Inter-band CA BW Class Combination A-G (three bands)	38.101-1, 5.3A.5 38.101-2, 5.3A.4 38.101-3, 5.5A.1	pc_UL_inter_band_CA_NR_FR1_FR2_3B_Class_A-G	
4	UL NR FR1 and FR2 Inter-band CA BW Class Combination A-H (three bands)	38.101-1, 5.3A.5 38.101-2, 5.3A.4 38.101-3, 5.5A.1	pc_UL_inter_band_CA_NR_FR1_FR2_3B_Class_A-H	
5	UL NR FR1 and FR2 Inter-band CA BW Class Combination A-I (three bands)	38.101-1, 5.3A.5 38.101-2, 5.3A.4 38.101-3, 5.5A.1	pc_UL_inter_band_CA_NR_FR1_FR2_3B_Class_A-I	

Table A.4.3.2A.6.2-3: Supported configurations for NR Inter-band CA between FR1 and FR2 and three bands

TBD

A.4.3.2A.6.3 NR Inter-band CA between FR1 and FR2 (four bands)

Table A.4.3.2A.6.3-1: Downlink Bandwidth Class Combination capabilities for NR Inter-band CA configuration between FR1 and FR2 and four bands (for one or more of the supported CA configurations in Table A.4.3.2A.6.3-3)

Item	DL NR FR1 and FR2 Inter-band CA Bandwidth Class	Ref.	Mnemonic	Comments
1	DL NR FR1 and FR2 Inter-band CA BW Class Combination A-A-A-A (four bands)	38.101-1, 5.3A.5 38.101-2, 5.3A.4 38.101-3, 5.5A.1	pc_DL_inter_band_CA_NR_FR1_FR2_4B_Class_A-A-A-A	
2	DL NR FR1 and FR2 Inter-band CA BW Class Combination A-A-A-D (four bands)	38.101-1, 5.3A.5 38.101-2, 5.3A.4 38.101-3, 5.5A.1	pc_DL_inter_band_CA_NR_FR1_FR2_4B_Class_A-A-A-D	
3	DL NR FR1 and FR2 Inter-band CA BW Class Combination A-A-A-G (four bands)	38.101-1, 5.3A.5 38.101-2, 5.3A.4 38.101-3, 5.5A.1	pc_DL_inter_band_CA_NR_FR1_FR2_4B_Class_A-A-A-G	
4	DL NR FR1 and FR2 Inter-band CA BW Class Combination A-A-A-H (four bands)	38.101-1, 5.3A.5 38.101-2, 5.3A.4 38.101-3, 5.5A.1	pc_DL_inter_band_CA_NR_FR1_FR2_4B_Class_A-A-A-H	
5	DL NR FR1 and FR2 Inter-band CA BW Class Combination A-A-A-I (four bands)	38.101-1, 5.3A.5 38.101-2, 5.3A.4 38.101-3, 5.5A.1	pc_DL_inter_band_CA_NR_FR1_FR2_4B_Class_A-A-A-I	
6	DL NR FR1 and FR2 Inter-band CA BW Class Combination A-A-(2A)-A (four bands)	38.101-1, 5.3A.5 38.101-2, 5.3A.4 38.101-3, 5.5A.1	pc_DL_inter_band_CA_NR_FR1_FR2_4B_Class_A-A-(2A)-A	
7	DL NR FR1 and FR2 Inter-band CA BW Class Combination A-A-(2A)-D (four bands)	38.101-1, 5.3A.5 38.101-2, 5.3A.4 38.101-3, 5.5A.1	pc_DL_inter_band_CA_NR_FR1_FR2_4B_Class_A-A-(2A)-D	
8	DL NR FR1 and FR2 Inter-band CA BW Class Combination A-A-(2A)-G (four bands)	38.101-1, 5.3A.5 38.101-2, 5.3A.4 38.101-3, 5.5A.1	pc_DL_inter_band_CA_NR_FR1_FR2_4B_Class_A-A-(2A)-G	
9	DL NR FR1 and FR2 Inter-band CA BW Class Combination A-A-(2A)-H (four bands)	38.101-1, 5.3A.5 38.101-2, 5.3A.4 38.101-3, 5.5A.1	pc_DL_inter_band_CA_NR_FR1_FR2_4B_Class_A-A-(2A)-H	
10	DL NR FR1 and FR2 Inter-band CA BW Class Combination A-A-(2A)-I (four bands)	38.101-1, 5.3A.5 38.101-2, 5.3A.4 38.101-3, 5.5A.1	pc_DL_inter_band_CA_NR_FR1_FR2_4B_Class_A-A-(2A)-I	

Table A.4.3.2A.6.3-2: Uplink Bandwidth Class Combination capabilities for NR Inter-band CA between FR1 and FR2 and four bands (for one or more of the supported CA configurations in Table A.4.3.2A.6.3-3)

Item	UL NR FR1 and FR2 Inter-band CA Bandwidth Class	Ref.	Mnemonic	Comments
1	UL NR FR1 and FR2 Inter-band CA BW Class Combination A-A (four bands)	38.101-1, 5.3A.5 38.101-2, 5.3A.4 38.101-3, 5.5A.1	pc_UL_inter_band_CA_NR_FR1_FR2_4B_Class_A-A	Not used in any valid CA configurations in TS 38.101-3 [25] yet

Table A.4.3.2A.6.3-3: Supported configurations for NR Inter-band CA between FR1 and FR2 and four bands

TBD

A.4.3.2B NR-DC, EN-DC and NE-DC Physical Layer Baseline Implementation Capabilities

NOTE: See Annex B for status of completed NR-DC, EN-DC and NE-DC configurations and power classes in this version of 3GPP UE conformance test specifications.

A.4.3.2B.1 NR-DC Physical Layer Baseline Implementation Capabilities

A.4.3.2B.1.0 General NR-DC capabilities

Table A.4.3.2B.1.0-1: Downlink NR-DC capabilities (for one or more of the supported NR-DC configurations)

Item	Bandwidth Class	Ref.	Mnemonic	Comments
1	DL NR-DC with 2 carriers	38.101-3, 5.5B	pc_DL_NR_DC_2CC	
2	DL NR-DC with 3 carriers	38.101-3, 5.5B	pc_DL_NR_DC_3CC	
3	DL NR-DC with 4 carriers	38.101-3, 5.5B	pc_DL_NR_DC_4CC	
4	DL NR-DC with 5 carriers	38.101-3, 5.5B	pc_DL_NR_DC_5CC	
5	DL NR-DC with 6 carriers	38.101-3, 5.5B	pc_DL_NR_DC_6CC	
6	DL NR-DC with 7 carriers	38.101-3, 5.5B	pc_DL_NR_DC_7CC	
7	DL NR-DC with 8 carriers	38.101-3, 5.5B	pc_DL_NR_DC_8CC	
8	DL NR-DC with 9 carriers	38.101-3, 5.5B	pc_DL_NR_DC_9CC	
9	DL NR-DC with 10 carriers	38.101-3, 5.5B	pc_DL_NR_DC_10CC	

Table A.4.3.2B.1.0-2: Uplink NR-DC capabilities (for one or more of the supported NR-DC configurations)

Item	Bandwidth Class	Ref.	Mnemonic	Comments
1	UL NR-DC with 2 carriers	38.101-3, 5.5B	pc_UL_NR_DC_2CC	
2	UL NR-DC with 3 carriers	38.101-3, 5.5B	pc_UL_NR_DC_3CC	
3	UL NR-DC with 4 carriers	38.101-3, 5.5B	pc_UL_NR_DC_4CC	
4	UL NR-DC with 5 carriers	38.101-3, 5.5B	pc_UL_NR_DC_5CC	
5	UL NR-DC with 6 carriers	38.101-3, 5.5B	pc_UL_NR_DC_6CC	
6	UL NR-DC with 7 carriers	38.101-3, 5.5B	pc_UL_NR_DC_7CC	
7	UL NR-DC with 8 carriers	38.101-3, 5.5B	pc_UL_NR_DC_8CC	
8	UL NR-DC with 9 carriers	38.101-3, 5.5B	pc_UL_NR_DC_9CC	
9	UL NR-DC with 10 carriers	38.101-3, 5.5B	pc_UL_NR_DC_10CC	

A.4.3.2B.1.0a NR-DC within FR1

A.4.3.2B.1.0a.1 NR-DC within FR1 (two bands)

Table A.4.3.2B.1.0a.1-1: Downlink NR-DC Bandwidth Class Combination capabilities within FR1 and two bands (for one or more of the supported DC configurations in Table A.4.3.2B.1.0a.1-3)

Item	DL NR-DC FR1 Bandwidth Class (two bands)	Ref.	Mnemonic	Comments
1	DL NR-DC FR1 BW Class Combination A-A (two bands)	38.101-1, 5.5B	pc_DL_NR_DC_FR1_2B_Class_A-A	

Table A.4.3.2B.1.0a.1-2: Uplink NR-DC Bandwidth Class Combination capabilities within FR1 and two bands (for one or more of the supported DC configurations in Table A.4.3.2B.1.0a.1-3)

Item	UL NR-DC FR1 Bandwidth Class (two bands)	Ref.	Mnemonic	Comments
1	UL NR-DC FR1 BW Class Combination A-A (two bands)	38.101-1, 5.5B	pc_UL_NR_DC_FR1_2B_Class_A-A	

Table A.4.3.2B.1.0a.1-3: Supported NR-DC configurations within FR1 (two bands)

NR FR1 Inter-band NR-DC configuration / Item (Note 1, 6)	Release	Supported	Supported NR-DC Bandwidth Class(es) in UL (Note 2,3)	Supported Bandwidth Combination Set(s)	Supported ULTxSwitching Band Pair (Note 4, 5)
DC_n48A_n70A	Rel-17				

Note 1: Notation used for inter-band NR-DC Bands is according to TS 38.101-1 [23] Table 5.5B.1-1, e.g. 'DC_n2A-n48C' indicates NR-DC operation on NR band n2 and n48 with DL CA Bandwidth Class A and C respectively.

Note 2: The UL NR-DC capabilities as per Table A.4.3.2B.1.0a.1-2 can be supported on a single or multiple CA Band(s). The UE supplier shall indicate all supported UL NR-DC Bandwidth Class(es), in uplink of the supported NR-DC Band(s), as per TS 38.101-1 [23] Table 5.5B.1-1. For this release of specification valid choices are 'N', 'nXA-nYA', 'nX(2A)', 'nXB' and 'nXC', where both nX and nY are the NR bands. For example, for DC_n48A-n70A, 'N' would mean only DL NR_DC, 'n48A-n70A' would mean both DL and UL NR-DC.

Note 3: See UL(*table_index*) in Note 1 of Table 4.0-3 and UL_*n*CC(*table_index*) in Note 2 of Table 4.0-3 in TS 38.522 [9].

Note 4: The ULTxSwitching capability can be reported on inter-band NR-DC band combinations. The UE supplier shall indicate inter-band NR-DC band pairs on which it supports ULTxSwitching. For this release of specification valid choices are 'N' and 'nX-nY', where both nX and nY are NR bands. For example, for DC_n48A-n70A, 'N' would mean not supporting ULTxSwitching, 'n48-n70' would mean supporting of ULTxSwitching on this band pair. If UE supplier indicates supporting of ULTxSwitching on a band pair, they shall indicate at least one inter-band UL NR-DC configuration on the same band pair in the column "Supported NR-DC Bandwidth Class(es) in UL". The ULTxSwitching is only tested with 2 UL CCs, so UE is allowed to report 'N' by default for NR-DC configuration with > 2 component carriers.

Note 5: See ULTxSwitching(*table_index*) Note 6 of Table 4.0-3 in TS 38.522 [9].

Note 6: See DL_*n*CC(*table_index*) in Note 4 of Table 4.0-3 in TS 38.522 [9].

A.4.3.2B.1.0b NR-DC within FR2

TBD

A.4.3.2B.1.1 NR-DC between FR1 and FR2

A.4.3.2B.1.1.1 NR-DC between FR1 and FR2 (two bands)

Table A.4.3.2B.1.1.1-1: Downlink NR-DC Bandwidth Class Combination capabilities between FR1 and FR2 and two bands (for one or more of the supported DC configurations in Table A.4.3.2B.1.1.1-2)

Item	DL NR-DC between FR1 and FR2 Bandwidth Class (two bands)	Ref.	Mnemonic	Comments
1	DL NR-DC FR1 and FR2 BW Class Combination A-A (two bands)	38.101-1, 5.3A.5 38.101-2, 5.3A.4 38.101-3, 5.5B.7	pc_DL_NR_DC_FR1_FR2_2B_Class_A-A	
2	DL NR-DC FR1 and FR2 BW Class Combination A-(2A) (two bands)	38.101-1, 5.3A.5 38.101-2, 5.3A.4 38.101-3, 5.5B.7	pc_DL_NR_DC_FR1_FR2_2B_Class_A-(2A)	
3	DL NR-DC FR1 and FR2 BW Class Combination A-(3A) (two bands)	38.101-1, 5.3A.5 38.101-2, 5.3A.4 38.101-3, 5.5B.7	pc_DL_NR_DC_FR1_FR2_2B_Class_A-(3A)	
4	DL NR-DC FR1 and FR2 BW Class Combination A-(4A) (two bands)	38.101-1, 5.3A.5 38.101-2, 5.3A.4 38.101-3, 5.5B.7	pc_DL_NR_DC_FR1_FR2_2B_Class_A-(4A)	
5	DL NR-DC FR1 AND FR2 BW Class Combination A-D (two bands)	38.101-1, 5.3A.5 38.101-2, 5.3A.4 38.101-3, 5.5B.7	pc_DL_NR_DC_FR1_FR2_2B_Class_A-D	
6	DL NR-DC FR1 AND FR2 BW Class Combination A-E (two bands)	38.101-1, 5.3A.5 38.101-2, 5.3A.4 38.101-3, 5. 5B.7	pc_DL_NR_DC_FR1_FR2_2B_Class_A-E	
7	DL NR-DC FR1 AND FR2 BW Class Combination A-F (two bands)	38.101-1, 5.3A.5 38.101-2, 5.3A.4 38.101-3, 5. 5B.7	pc_DL_NR_DC_FR1_FR2_2B_Class_A-F	
8	DL NR-DC FR1 AND FR2 BW Class Combination A-G (two bands)	38.101-1, 5.3A.5 38.101-2, 5.3A.4 38.101-3, 5. 5B.7	pc_DL_NR_DC_FR1_FR2_2B_Class_A-G	
9	DL NR-DC FR1 AND FR2 BW Class Combination A-(2G) (two bands)	38.101-1, 5.3A.5 38.101-2, 5.3A.4 38.101-3, 5. 5B.7	pc_DL_NR_DC_FR1_FR2_2B_Class_A-(2G)	
10	DL NR-DC FR1 AND FR2 BW Class Combination A-H (two bands)	38.101-1, 5.3A.5 38.101-2, 5.3A.4 38.101-3, 5. 5B.7	pc_DL_NR_DC_FR1_FR2_2B_Class_A-H	
11	DL NR-DC FR1 AND FR2 BW Class Combination A-I (two bands)	38.101-1, 5.3A.5 38.101-2, 5.3A.4 38.101-3, 5. 5B.7	pc_DL_NR_DC_FR1_FR2_2B_Class_A-I	
12	DL NR-DC FR1 AND FR2 BW Class Combination A-(2I) (two bands)	38.101-1, 5.3A.5 38.101-2, 5.3A.4 38.101-3, 5. 5B.7	pc_DL_NR_DC_FR1_FR2_2B_Class_A-(2I)	
13	DL NR-DC FR1 AND FR2 BW Class Combination A-J (two bands)	38.101-1, 5.3A.5 38.101-2, 5.3A.4 38.101-3, 5. 5B.7	pc_DL_NR_DC_FR1_FR2_2B_Class_A-J	
14	DL NR-DC FR1 AND FR2 BW Class Combination A-K (two bands)	38.101-1, 5.3A.5 38.101-2, 5.3A.4 38.101-3, 5. 5B.7	pc_DL_NR_DC_FR1_FR2_2B_Class_A-K	
15	DL NR-DC FR1 AND FR2 BW Class Combination A-L (two bands)	38.101-1, 5.3A.5 38.101-2, 5.3A.4 38.101-3, 5. 5B.7	pc_DL_NR_DC_FR1_FR2_2B_Class_A-L	
16	DL NR-DC FR1 AND FR2 BW Class Combination A-M (two bands)	38.101-1, 5.3A.5 38.101-2, 5.3A.4 38.101-3, 5. 5B.7	pc_DL_NR_DC_FR1_FR2_2B_Class_A-M	
17	DL NR-DC FR1 AND FR2 BW Class Combination (2A)-A (two bands)	38.101-1, 5.3A.5 38.101-2, 5.3A.4 38.101-3, 5. 5B.7	pc_DL_NR_DC_FR1_FR2_2B_Class_(2A)-A	
18	DL NR-DC FR1 AND FR2 BW Class Combination (2A)-G (two bands)	38.101-1, 5.3A.5 38.101-2, 5.3A.4 38.101-3, 5. 5B.7	pc_DL_NR_DC_FR1_FR2_2B_Class_(2A)-G	
19	DL NR-DC FR1 AND FR2 BW Class Combination (2A)-H (two bands)	38.101-1, 5.3A.5 38.101-2, 5.3A.4 38.101-3, 5. 5B.7	pc_DL_NR_DC_FR1_FR2_2B_Class_(2A)-H	
20	DL NR-DC FR1 AND FR2 BW Class Combination (2A)-I (two bands)	38.101-1, 5.3A.5 38.101-2, 5.3A.4 38.101-3, 5. 5B.7	pc_DL_NR_DC_FR1_FR2_2B_Class_(2A)-I	
21	DL NR-DC FR1 AND FR2 BW Class Combination (2A)-J (two bands)	38.101-1, 5.3A.5 38.101-2, 5.3A.4 38.101-3, 5. 5B.7	pc_DL_NR_DC_FR1_FR2_2B_Class_(2A)-J	

22	DL NR-DC FR1 AND FR2 BW Class Combination (2A)-K (two bands)	38.101-1, 5.3A.5 38.101-2, 5.3A.4 38.101-3, 5. 5B.7	pc_DL_NR_DC_FR1_FR2_2B_Class_(2A)-K	
23	DL NR-DC FR1 AND FR2 BW Class Combination (2A)-L (two bands)	38.101-1, 5.3A.5 38.101-2, 5.3A.4 38.101-3, 5. 5B.7	pc_DL_NR_DC_FR1_FR2_2B_Class_(2A)-L	
24	DL NR-DC FR1 AND FR2 BW Class Combination (2A)-M (two bands)	38.101-1, 5.3A.5 38.101-2, 5.3A.4 38.101-3, 5. 5B.7	pc_DL_NR_DC_FR1_FR2_2B_Class_(2A)-M	
25	DL NR-DC FR1 AND FR2 BW Class Combination C-A (two bands)	38.101-1, 5.3A.5 38.101-2, 5.3A.4 38.101-3, 5. 5B.7	pc_DL_NR_DC_FR1_FR2_2B_Class_C-A	
26	DL NR-DC FR1 AND FR2 BW Class Combination C-D (two bands)	38.101-1, 5.3A.5 38.101-2, 5.3A.4 38.101-3, 5. 5B.7	pc_DL_NR_DC_FR1_FR2_2B_Class_C-D	
27	DL NR-DC FR1 AND FR2 BW Class Combination C-E (two bands)	38.101-1, 5.3A.5 38.101-2, 5.3A.4 38.101-3, 5. 5B.7	pc_DL_NR_DC_FR1_FR2_2B_Class_C-E	
28	DL NR-DC FR1 AND FR2 BW Class Combination C-F (two bands)	38.101-1, 5.3A.5 38.101-2, 5.3A.4 38.101-3, 5. 5B.7	pc_DL_NR_DC_FR1_FR2_2B_Class_C-F	

Table A.4.3.2B.1.1.1-1a: Uplink NR-DC Bandwidth Class Combination capabilities between FR1 and FR2 and two bands (for one or more of the supported DC configurations in Table A.4.3.2B.1.1.1-2)

Item	UL NR-DC between FR1 and FR2 Bandwidth Class (two bands)	Ref.	Mnemonic	Comments
1	UL NR-DC FR1 and FR2 BW Class Combination A-A (two bands)	38.101-1, 5.3A.5 38.101-2, 5.3A.4 38.101-3, 5.5B.7	pc_UL_NR_DC_FR1_FR2_2B_Class_A-A	
2	UL NR-DC FR1 and FR2 BW Class Combination A-D (two bands)	38.101-1, 5.3A.5 38.101-2, 5.3A.4 38.101-3, 5.5B.7	pc_UL_NR_DC_FR1_FR2_2B_Class_A-D	
3	UL NR-DC FR1 and FR2 BW Class Combination A-G (two bands)	38.101-1, 5.3A.5 38.101-2, 5.3A.4 38.101-3, 5.5B.7	pc_UL_NR_DC_FR1_FR2_2B_Class_A-G	
4	UL NR-DC FR1 and FR2 BW Class Combination A-H (two bands)	38.101-1, 5.3A.5 38.101-2, 5.3A.4 38.101-3, 5.5B.7	pc_UL_NR_DC_FR1_FR2_2B_Class_A-H	
5	UL NR-DC FR1 and FR2 BW Class Combination A-I (two bands)	38.101-1, 5.3A.5 38.101-2, 5.3A.4 38.101-3, 5.5B.7	pc_UL_NR_DC_FR1_FR2_2B_Class_A-I	
6	UL NR-DC FR1 and FR2 BW Class Combination A-J (two bands)	38.101-1, 5.3A.5 38.101-2, 5.3A.4 38.101-3, 5.5B.7	pc_UL_NR_DC_FR1_FR2_2B_Class_A-J	
7	UL NR-DC FR1 and FR2 BW Class Combination A-K (two bands)	38.101-1, 5.3A.5 38.101-2, 5.3A.4 38.101-3, 5.5B.7	pc_UL_NR_DC_FR1_FR2_2B_Class_A-K	
8	UL NR-DC FR1 and FR2 BW Class Combination A-L (two bands)	38.101-1, 5.3A.5 38.101-2, 5.3A.4 38.101-3, 5.5B.7	pc_UL_NR_DC_FR1_FR2_2B_Class_A-L	
9	UL NR-DC FR1 and FR2 BW Class Combination A-M (two bands)	38.101-1, 5.3A.5 38.101-2, 5.3A.4 38.101-3, 5.5B.7	pc_UL_NR_DC_FR1_FR2_2B_Class_A-M	

Table A.4.3.2B.1.1.1-2: Supported NR-DC configurations between FR1 and FR2 (two bands)

NR-DC configuration / Item (Note 1)	Release	Supported	Supported DC Bandwidth Class(es) in UL	Supported Bandwidth Combination Set(s)
DC_n78A-n257A	Rel-15			
DC_n78A-n257G	Rel-15			
DC_n78A-n257H	Rel-15			
DC_n78A-n257I	Rel-15			
DC_n79A-n257A	Rel-15			
DC_n79A-n257G	Rel-15			
DC_n79A-n257H	Rel-15			
DC_n79A-n257I	Rel-15			
Note 1: Notation used NR-DC Bands is according to TS 38.101-3 [25] Table 5.5B.7-1, e.g. 'DC_n78A-n257G' indicates NR-DC operation on NR bands n78 and n257 with DL CA Bandwidth Class A and G respectively.				

A.4.3.2B.2 EN-DC Physical Layer Baseline Implementation Capabilities

A.4.3.2B.2.0 General EN-DC capabilities

Table A.4.3.2B.2.0-1: Downlink EN-DC capabilities (for one or more of the supported EN-DC configurations)

Item	Bandwidth Class	Ref.	Mnemonic	Comments
1	DL EN-DC with 2 carriers	38.101-3, 5.5B	pc_DL_EN_DC_2CC	
2	DL EN-DC with 3 carriers	38.101-3, 5.5B	pc_DL_EN_DC_3CC	
3	DL EN-DC with 4 carriers	38.101-3, 5.5B	pc_DL_EN_DC_4CC	
4	DL EN-DC with 5 carriers	38.101-3, 5.5B	pc_DL_EN_DC_5CC	
5	DL EN-DC with 6 carriers	38.101-3, 5.5B	pc_DL_EN_DC_6CC	
6	DL EN-DC with 7 carriers	38.101-3, 5.5B	pc_DL_EN_DC_7CC	
7	DL EN-DC with 8 carriers	38.101-3, 5.5B	pc_DL_EN_DC_8CC	

Table A.4.3.2B.2.0-1A: Downlink EN-DC capabilities (number of NR DL carriers)

Item	Bandwidth Class	Ref.	Mnemonic	Comments
1	DL EN-DC with 1 NR DL carriers	38.101-3, 5.5B	pc_EN_DC_NR_DL_1CC	
2	DL EN-DC with 2 NR DL carriers	38.101-3, 5.5B	pc_EN_DC_NR_DL_2CC	
3	DL EN-DC with 3 NR DL carriers	38.101-3, 5.5B	pc_EN_DC_NR_DL_3CC	
4	DL EN-DC with 4 NR DL carriers	38.101-3, 5.5B	pc_EN_DC_NR_DL_4CC	
5	DL EN-DC with 5 NR DL carriers	38.101-3, 5.5B	pc_EN_DC_NR_DL_5CC	
6	DL EN-DC with 6 NR DL carriers	38.101-3, 5.5B	pc_EN_DC_NR_DL_6CC	
7	DL EN-DC with 7 NR DL carriers	38.101-3, 5.5B	pc_EN_DC_NR_DL_7CC	
8	EN-DC with 8 NR DL carriers	38.101-3, 5.5B	pc_EN_DC_NR_DL_8CC	

Table A.4.3.2B.2.0-2: Uplink EN-DC capabilities (for one or more of the supported EN-DC configurations)

Item	Bandwidth Class	Ref.	Mnemonic	Comments
1	UL EN-DC with 2 carriers	38.101-3, 5.5B	pc_UL_EN_DC_2CC	
2	UL EN-DC with 3 carriers	38.101-3, 5.5B	pc_UL_EN_DC_3CC	
3	UL EN-DC with 4 carriers	38.101-3, 5.5B	pc_UL_EN_DC_4CC	
4	UL EN-DC with 5 carriers	38.101-3, 5.5B	pc_UL_EN_DC_5CC	
5	UL EN-DC with 6 carriers	38.101-3, 5.5B	pc_UL_EN_DC_6CC	
6	UL EN-DC with 7 carriers	38.101-3, 5.5B	pc_UL_EN_DC_7CC	
7	UL EN-DC with 8 carriers	38.101-3, 5.5B	pc_UL_EN_DC_8CC	

Table A.4.3.2B.2.0-2A: Uplink EN-DC capabilities (number of NR UL carriers)

Item	Bandwidth Class	Ref.	Mnemonic	Comments
1	UL EN-DC with 1 NR UL carriers	38.101-3, 5.5B	pc_EN_DC_NR_UL_1CC	
2	UL EN-DC with 2 NR UL carriers	38.101-3, 5.5B	pc_EN_DC_NR_UL_2CC	
3	UL EN-DC with 3 NR UL carriers	38.101-3, 5.5B	pc_EN_DC_NR_UL_3CC	
4	UL EN-DC with 4 NR UL carriers	38.101-3, 5.5B	pc_EN_DC_NR_UL_4CC	
5	UL EN-DC with 5 NR UL carriers	38.101-3, 5.5B	pc_EN_DC_NR_UL_5CC	
6	UL EN-DC with 6 NR UL carriers	38.101-3, 5.5B	pc_EN_DC_NR_UL_6CC	
7	UL EN-DC with 7 NR UL carriers	38.101-3, 5.5B	pc_EN_DC_NR_UL_7CC	
8	EN-DC with 8 NR UL carriers	38.101-3, 5.5B	pc_EN_DC_NR_UL_8CC	

A.4.3.2B.2.1 Intra-band contiguous EN-DC

Table A.4.3.2B.2.1-1: Downlink Bandwidth Class Combination capabilities for Intra-band contiguous EN-DC configurations (for one or more of the supported configurations in Table A.4.3.2B.2.1-2)

Item	DL Intra-band contiguous EN-DC Bandwidth Class	Ref.	Mnemonic	Comments
1	DL Intra-band contiguous EN-DC BW Class Combination AA	36.101, 5.6A.1 38.101-3, 5.3B.1.2	pc_DL_intra_contiguous_EN_DC_Class_AA	
2	DL Intra-band contiguous EN-DC BW Class Combination CA	36.101, 5.6A.1 38.101-3, 5.3B.1.2	pc_DL_intra_contiguous_EN_DC_Class_CA	
3	DL Intra-band contiguous EN-DC BW Class Combination DA	36.101, 5.6A.1 38.101-3, 5.3B.1.2	pc_DL_intra_contiguous_EN_DC_Class_DA	

Table A.4.3.2B.2.1-1a: Uplink Bandwidth Class Combination capabilities for Intra-band contiguous EN-DC configurations (for one or more of the supported configurations in Table A.4.3.2B.2.1-2)

Item	UL Intra-band contiguous EN-DC Bandwidth Class	Ref.	Mnemonic	Comments
1	UL Intra-band contiguous EN-DC BW Class Combination AA	36.101, 5.6A.1 38.101-3, 5.3B.1.2	pc_UL_intra_contiguous_EN_DC_Class_AA	
2	UL Intra-band contiguous EN-DC BW Class Combination A_A	36.101, 5.6A.1 38.101-3, 5.3B.1.2	pc_UL_intra_contiguous_EN_DC_Class_A_A	

Table A.4.3.2B.2.1-2: Supported Intra-band contiguous EN-DC configurations

EN-DC configuration / Item (Note 1, 3)	Release	Supported	Supported EN-DC Bandwidth Class(es) in UL (Note 2)	Supported Bandwidth Combination Set(s)
DC_(n)41AA	Rel-15			
DC_(n)71AA	Rel-15			
Note 1: Notation used for intra-band contiguous EN-DC Bands is according to TS 38.101-3 [25] Table 5.3B.1.2-1, e.g. 'DC_(n)41AA' indicates contiguous EN-DC operation on E-UTRA band 41 with DL Bandwidth Class A and NR band n41 with DL CA Bandwidth Class A. Note 2: See UL_*n*CC(*table_index*) in Note 2 of Table 4.0-3 in TS 38.522 [9]. Note 3: See DL_*n*CC(*table_index*) in Note 4 of Table 4.0-3 in TS 38.522 [9].				

Table A.4.3.2B.2.1-3: Intra-band contiguous EN-DC PC2 UE RF Baseline Implementation Capabilities

Item	Intra-band contiguous EN-DC PC2 UE RF Baseline Implementation Capabilities	Ref.	Release	Mnemonic	Comments
1	LTE Frequency band: 2496-2690 MHz NR Frequency band: 2496-2690 MHz	38.101-3, 6.2B.1.1	Rel-15	pc_Band41_nrBand41_C_PC2_Supp	DC_(n)41AA

Table A.4.3.2B.2.1-4: Intra-band contiguous EN-DC NR part power class UE RF Baseline Implementation Capabilities (Rel-16 and forward)

Item	EN-DC configuration	UE Physical Layer Baseline Implementation Capabilities	Ref.	Release	Mnemonic	Supported NR part power class
1	DC_(n)41AA	DC_(n)41AA NR part power class	38.306, 4.2.7.1	Rel-16	pc_Band41_nrBand41_C_powerClassNRPart_r16	

Table A.4.3.2B.2.1-4a: Intra-band contiguous EN-DC maxNumberSRS-Ports-PerResource UE RF Baseline Implementation Capabilities (Rel-15)

Item	EN-DC configuration	UE Physical Layer Baseline Implementation Capabilities	Ref.	Release	Mnemonic	Supported maxNumberSRS-Ports-PerResource
1	DC_(n)41AA	DC_(n)41AA maxNumberSRS-Ports-PerResource on NR band	38.306, 4.2.7.7	Rel-15	pc_Band41_nrBand41_C_maxNumberSRS-Ports-PerResource_NR_r15	

Table A.4.3.2B.2.1-4b: Intra-band contiguous EN-DC NR part power class UE RF Baseline Implementation Capabilities (Rel-15) (maxNumberSRS-Ports-PerResource=n2 in NR standalone operation mode, maxNumberSRS-Ports-PerResource=n1 for EN-DC on NR band)

Item	EN-DC configuration	UE Physical Layer Baseline Implementation Capabilities	Ref.	Release	Mnemonic	Supported NR part power class
1	DC_(n)41AA	DC_(n)41AA NR part power class	38.101-3, 6.1	Rel-15	pc_Band41_nrBand41_C_powerClassNRPart_r15	

A.4.3.2B.2.2 Intra-band non-contiguous EN-DC

Table A.4.3.2B.2.2-1: Downlink Bandwidth Class Combination capabilities for Intra-band non-contiguous EN-DC configurations (for one or more of the supported configurations in Table A.4.3.2B.2.2-2)

Item	DL Intra-band non-contiguous EN-DC Bandwidth Class	Ref.	Mnemonic	Comments
1	DL Intra-band non-contiguous EN-DC BW Class Combination A_A	36.101, 5.6A.1 38.101-3, 5.3B.1.3	pc_DL_intra_non_contiguous_EN_DC_Class_A_A	
2	DL Intra-band non-contiguous EN-DC BW Class Combination A_AA	36.101, 5.6A.1 38.101-3, 5.3B.1.3	pc_DL_intra_non_contiguous_EN_DC_Class_A_AA	
3	DL Intra-band non-contiguous EN-DC BW Class Combination A-A_A	36.101, 5.6A.1 38.101-3, 5.3B.1.3	pc_DL_intra_non_contiguous_EN_DC_Class_A-A_A	
4	DL Intra-band non-contiguous EN-DC BW Class Combination C_A	36.101, 5.6A.1 38.101-3, 5.3B.1.3	pc_DL_intra_non_contiguous_EN_DC_Class_C_A	
5	DL Intra-band non-contiguous EN-DC BW Class Combination D_A	36.101, 5.6A.1 38.101-3, 5.3B.1.3	pc_DL_intra_non_contiguous_EN_DC_Class_D_A	

Table A.4.3.2B.2.2-1a: Uplink Bandwidth Class Combination capabilities for Intra-band non-contiguous EN-DC configurations (for one or more of the supported configurations in Table A.4.3.2B.2.2-2)

Item	UL Intra-band non-contiguous EN-DC Bandwidth Class	Ref.	Mnemonic	Comments
1	UL Intra-band non-contiguous EN-DC BW Class Combination A_A	36.101, 5.6A.1 38.101-3, 5.3B.1.3	pc_UL_intra_non_contiguous_EN_DC_Class_A_A	
2	UL Intra-band non-contiguous EN-DC BW Class Combination AA	36.101, 5.6A.1 38.101-3, 5.3B.1.3	pc_UL_intra_non_contiguous_EN_DC_Class_AA	

Table A.4.3.2B.2.2-2: Supported Intra-band non-contiguous EN-DC configurations

EN-DC configuration / Item (Note 1, 3, 4)	Release	Supported	Supported EN-DC Bandwidth Class(es) in UL (Note 2)	Supported Bandwidth Combination Set(s)
DC_2A_n2A[6]	Rel-16			
DC_41A_n41A	Rel-15			
DC_41C_n41A	Rel-15			
DC_41D_n41A	Rel-15			
DC_66A_n66A[6]	Rel-16			
Note 1: Notation used for intra-band non-contiguous EN-DC Bands is according to TS 38.101-3 [25] Table 5.3B.1.3-1, e.g. 'DC_41A_n41A' indicates non-contiguous EN-DC operation on E-UTRA band 41 with DL Bandwidth Class A and NR band n41 with DL CA Bandwidth Class A. Note 2: See UL_*n*CC(*table_index*) in Note 2 of Table 4.0-3 in TS 38.522 [9]. Note 3: See DL_*n*CC(*table_index*) in Note 4 of Table 4.0-3 in TS 38.522 [9]. Note 4: See DL_NR_*n*CC(*table_index*) in Note 5 of Table 4.0-3 in TS 38.522 [9]. Note 5: Only single switched UL is supported in Rel-15. Note 6: Only single switched UL is supported.				

Table A.4.3.2B.2.2-3: Intra-band non-contiguous EN-DC PC2 UE RF Baseline Implementation Capabilities

Item	Intra-band non-contiguous EN-DC PC2 UE RF Baseline Implementation Capabilities	Ref.	Release	Mnemonic	Comments
1	LTE Frequency band: 2496-2690 MHz NR Frequency band: 2496-2690 MHz	38.101-3, 6.2B.1.2	Rel-15	pc_Band41_nrBand41_NC_PC2_Supp	DC_41A_n41A

Table A.4.3.2B.2.2-4: Intra-band non-contiguous EN-DC NR part power class UE RF Baseline Implementation Capabilities (Rel-16 and forward)

Item	EN-DC configuration	UE Physical Layer Baseline Implementation Capabilities	Ref.	Release	Mnemonic	Supported NR part power class
1	DC_41A_n41A	DC_41A_n41A NR part power class	38.306, 4.2.7.1	Rel-16	pc_Band41_nrBand41_NC_powerClassNRPart_r16	

Table A.4.3.2B.2.2-4a: Intra-band non-contiguous EN-DC maxNumberSRS-Ports-PerResource UE RF Baseline Implementation Capabilities (Rel-15)

Item	EN-DC configuration	UE Physical Layer Baseline Implementation Capabilities	Ref.	Release	Mnemonic	Supported maxNumberSRS-Ports-PerResource
1	DC_41A_n41A	DC_41A_n41A maxNumberSRS-Ports-PerResource on NR band	38.306, 4.2.7.7	Rel-15	pc_Band41_nrBand41_NC_maxNumberSRS-Ports-PerResource_NR_r15	

Table A.4.3.2B.2.2-4b: Intra-band non-contiguous EN-DC NR part power class UE RF Baseline Implementation Capabilities (Rel-15) (maxNumberSRS-Ports-PerResource=n2 in NR standalone operation mode, maxNumberSRS-Ports-PerResource=n1 for EN-DC on NR band)

Item	EN-DC configuration	UE Physical Layer Baseline Implementation Capabilities	Ref.	Release	Mnemonic	Supported NR part power class
1	DC_41A_n41A	DC_41A_n41A NR part power class	38.101-3, 6.1	Rel-15	pc_Band41_nrBand41_NC_powerClassNRPart_r15	

A.4.3.2B.2.3 Inter-band EN-DC

A.4.3.2B.2.3.1 Inter-band EN-DC within FR1 (two bands)

Table A.4.3.2B.2.3.1-1: Downlink Bandwidth Class Combination capabilities for Inter-band EN-DC within FR1 and two bands (for one or more of the supported DC configurations in Table A.4.3.2B.2.3.1-2)

Item	DL inter-band EN-DC within FR1 Bandwidth Class	Ref.	Mnemonic	Comments
1	Inter-band EN-DC within FR1 BW Class Combination A_A (two bands)	36.101, 5.6A.1 38.101-3, 5.5B.4.1	pc_DL_inter_band_EN_DC_FR1_2B_Class_A_A	
2	Inter-band EN-DC within FR1 BW Class Combination A_(2A) (two bands)	36.101, 5.6A.1 38.101-3, 5.5B.4.1	pc_DL_inter_band_EN_DC_FR1_2B_Class_A_(2A)	
3	Inter-band EN-DC within FR1 BW Class Combination A_B (two bands)	36.101, 5.6A.1 38.101-3, 5.5B.4.1	pc_DL_inter_band_EN_DC_FR1_2B_Class_A_B	
4	Inter-band EN-DC within FR1 BW Class Combination A_C (two bands)	36.101, 5.6A.1 38.101-3, 5.5B.4.1	pc_DL_inter_band_EN_DC_FR1_2B_Class_A_C	
5	Inter-band EN-DC within FR1 BW Class Combination (2A)_A (two bands)	36.101, 5.6A.1 38.101-3, 5.5B.4.1	pc_DL_inter_band_EN_DC_FR1_2B_Class_(2A)_A	
6	Inter-band EN-DC within FR1 BW Class Combination (2A)_(2A) (two bands)	36.101, 5.6A.1 38.101-3, 5.5B.4.1	pc_DL_inter_band_EN_DC_FR1_2B_Class_(2A)_(2A)	
7	Inter-band EN-DC within FR1 BW Class Combination (2A)_B (two bands)	36.101, 5.6A.1 38.101-3, 5.5B.4.1	pc_DL_inter_band_EN_DC_FR1_2B_Class_(2A)_B	
8	Inter-band EN-DC within FR1 BW Class Combination (3A)_A (two bands)	36.101, 5.6A.1 38.101-3, 5.5B.4.1	pc_DL_inter_band_EN_DC_FR1_2B_Class_(3A)_A	
9	Inter-band EN-DC within FR1 BW Class Combination B_A (two bands)	36.101, 5.6A.1 38.101-3, 5.5B.4.1	pc_DL_inter_band_EN_DC_FR1_2B_Class_B_A	
10	Inter-band EN-DC within FR1 BW Class Combination C_A (two bands)	36.101, 5.6A.1 38.101-3, 5.5B.4.1	pc_DL_inter_band_EN_DC_FR1_2B_Class_C_A	
11	Inter-band EN-DC within FR1 BW Class Combination C_(2A) (two bands)	36.101, 5.6A.1 38.101-3, 5.5B.4.1	pc_DL_inter_band_EN_DC_FR1_2B_Class_C_(2A)	
12	Inter-band EN-DC within FR1 BW Class Combination C_B (two bands)	36.101, 5.6A.1 38.101-3, 5.5B.4.1	pc_DL_inter_band_EN_DC_FR1_2B_Class_C_B	
13	Inter-band EN-DC within FR1 BW Class Combination C_C (two bands)	36.101, 5.6A.1 38.101-3, 5.5B.4.1	pc_DL_inter_band_EN_DC_FR1_2B_Class_C_C	
14	Inter-band EN-DC within FR1 BW Class Combination D_A (two bands)	36.101, 5.6A.1 38.101-3, 5.5B.4.1	pc_DL_inter_band_EN_DC_FR1_2B_Class_D_A	
15	Inter-band EN-DC within FR1 BW Class Combination D_C (two bands)	36.101, 5.6A.1 38.101-3, 5.5B.4.1	pc_DL_inter_band_EN_DC_FR1_2B_Class_D_C	
16	Inter-band EN-DC within FR1 BW Class Combination E_A (two bands)	36.101, 5.6A.1 38.101-3, 5.5B.4.1	pc_DL_inter_band_EN_DC_FR1_2B_Class_E_A	
17	Inter-band EN-DC within FR1 BW Class Combination E_C (two bands)	36.101, 5.6A.1 38.101-3, 5.5B.4.1	pc_DL_inter_band_EN_DC_FR1_2B_Class_E_C	

Table A.4.3.2B.2.3.1-1a: Uplink Bandwidth Class Combination capabilities for Inter-band EN-DC within FR1 and two bands (for one or more of the supported configurations in Table A.4.3.2B.2.3.1-2)

Item	UL inter-band EN-DC within FR1 Bandwidth Class	Ref.	Mnemonic	Comments
1	UL Inter-band EN-DC within FR1 BW Class Combination A_A (two bands)	36.101, 5.6A.1 38.101-3, 5.5B.4.1	pc_UL_inter_band_EN_DC_FR1_2B_Class_A_A	
2	UL Inter-band EN-DC within FR1 BW Class Combination A_B (two bands)	36.101, 5.6A.1 38.101-3, 5.5B.4.1	pc_UL_inter_band_EN_DC_FR1_2B_Class_A_B	
3	UL Inter-band EN-DC within FR1 BW Class Combination A_C (two bands)	36.101, 5.6A.1 38.101-3, 5.5B.4.1	pc_UL_inter_band_EN_DC_FR1_2B_Class_A_C	
4	UL Inter-band EN-DC within FR1 BW Class Combination (2A)_A (two bands)	36.101, 5.6A.1 38.101-3, 5.5B.4.1	pc_UL_inter_band_EN_DC_FR1_2B_Class_(2A)_A	
5	UL Inter-band EN-DC within FR1 BW Class Combination C_A (two bands)	36.101, 5.6A.1 38.101-3, 5.5B.4.1	pc_UL_inter_band_EN_DC_FR1_2B_Class_C_A	

Table A.4.3.2B.2.3.1-2: Supported Inter-band EN-DC configurations within FR1 (two bands)

EN-DC configuration / Item	Release	Supported	Supported EN-DC Bandwidth Class(es) in UL	Supported ULTxSwitching Band Pair
DC_1A_n3A	Rel-16			
DC_1A_n5A	Rel-16			
DC_1A_n7A	Rel-16			
DC_1A_n28A	Rel-15			
DC_1A_n41A	Rel-16			
DC_1A_n77A	Rel-15			
DC_1A_n78A	Rel-15			
DC_1A_n78C	Rel-15			
DC_1A-1A_n78A	Rel-17			
DC_1A_n79A	Rel-15			
DC_2A_n5A	Rel-15			
DC_2A_n41A	Rel-16			
DC_2C_n41A	Rel-16			
DC_2A_n66A	Rel-15			
DC_2A_n71A	Rel-15			
DC_2A_n77A	Rel-17			
DC_2A_n78A	Rel-15			
DC_3A_n1A	Rel-16			
DC_3A_n8A	Rel-16			
DC_3A_n7A	Rel-15			
DC_3A_n5A	Rel-16			
DC_3A_n28A	Rel-15			
DC_3A_n41A	Rel-16			
DC_3A_n77A	Rel-15			
DC_3A_n78A	Rel-15			
DC_3A_n78C	Rel-15			
DC_3A_n79A	Rel-15			
DC_3A_n82A	Rel-15			
DC_3C_n78A	Rel-15			
DC_5A_n2A	Rel-16			
DC_5A_n66A	Rel-15			
DC_5A_n77A	Rel-17			
DC_5A_n78A	Rel-15			
DC_5A_n78C	Rel-17			
DC_7A_n1A	Rel-16			
DC_7A_n3A	Rel-16			
DC_7A_n5A	Rel-16			
DC_7A_n8A	Rel-16			
DC_7A_n28A	Rel-15			
DC_7A_n78A	Rel-15			
DC_7A_n66A	Rel-15			
DC_7C_n66A	Rel-15			
DC_7C_n78A	Rel-15			
DC_8A_n1A	Rel-16			
DC_8A_n3A	Rel-16			
DC_8A_n20A	Rel-16			
DC_8A_n41A	Rel-16			
DC_8A_n77A	Rel-15			
DC_8A_n78A	Rel-15			
DC_11A_n77A	Rel-15			
DC_11A_n78A	Rel-15			
DC_11A_n79A	Rel-15			
DC_12A_n2A	Rel-16			
DC_12A_n5A	Rel-15			
DC_12A_n66A	Rel-15			
DC_12A_n78A	Rel-16			
DC_13A_n2A	Rel-16			
DC_13A_n66A	Rel-15			
DC_13A_n77A	Rel-17			
DC_14A_n2A	Rel-16			

DC_14A_n66A	Rel-16			
DC_18A_n77A	Rel-15			
DC_18A_n78A	Rel-15			
DC_18A_n79A	Rel-15			
DC_19A_n1A	Rel-17			
DC_19A_n77A	Rel-15			
DC_19A_n77(2A)	Rel-17			
DC_19A_n78A	Rel-15			
DC_19A_n78(2A)	Rel-17			
DC_19A_n79A	Rel-15			
DC_20A_n1A	Rel-16			
DC_20A_n3A	Rel-16			
DC_20A_n7A	Rel-16			
DC_20A_n8A	Rel-15			
DC_20A_n28A	Rel-15			
DC_20A_n78A	Rel-15			
DC_20A_n83A	Rel-16			
DC_21A_n1A	Rel-17			
DC_21A_n28A	Rel-17			
DC_21A_n77A	Rel-15			
DC_21A_n77(2A)	Rel-17			
DC_21A_n78A	Rel-15			
DC_21A_n78(2A)	Rel-17			
DC_21A_n79A	Rel-15			
DC_25A_n41A	Rel-15			
DC_26A_n41A	Rel-16			
DC_26A_n77A	Rel-16			
DC_26A_n78A	Rel-16			
DC_26A_n79A	Rel-16			
DC_28A_n3A	Rel-16			
DC_28A_n5A	Rel-16			
DC_28A_n7A	Rel-16			
DC_28A n51A	Rel-15			
DC_28A_n77A	Rel-15			
DC_28A_n78A	Rel-15			
DC_28A_n79A	Rel-15			
DC_30A_n5A	Rel-15			
DC_30A_n66A	Rel-15			
DC_38A_n78A	Rel-15			
DC_39A_n41A	Rel-16			
DC_39A_n79A	Rel-15			
DC_40A_n1A	Rel-16			
DC_40A_n41A	Rel-16			
DC_40A_n78A	Rel-16			
DC_40A_n79A	Rel-16			
DC_40C_n78A	Rel-16			
DC_40C_n79A	Rel-16			
DC_41A_n28A	Rel-16			
DC_41A_n77A	Rel-16			
DC_41A_n78A	Rel-16			
DC_41A_n79A	Rel-15			
DC_42A_n1A	Rel-17			
DC_42C_n1A	Rel-17			
DC_42A_n77A	Rel-15			
DC_42A_n78A	Rel-15			
DC_42A_n79A	Rel-15			
DC_48A_n5A	Rel-16			
DC_48A_n66A	Rel-16			
DC_66A_n2A	Rel-16			
DC_66A_n5A	Rel-15			
DC_66A_n41A	Rel-16			
DC_66A_n71A	Rel-15			
DC_66A_n77A	Rel-17			
DC_66A_n78A	Rel-15			
DC_71A_n2A	Rel-17			

DC_71A_n66A	Rel-16			

Table A.4.3.2B.2.3.1-3: Inter-band EN-DC within FR1 (two bands) PC2 UE RF Baseline Implementation Capabilities

Item	EN-DC configuration	Inter-band EN-DC within FR1 (two bands) PC2 UE RF Baseline Implementation Capabilities	Ref.	Release	Mnemonic	Comments
1	DC_39A_n41A	LTE Frequency band: 1880-1920 MHz NR Frequency band: 2496-2690 MHz	38.101-3, 6.2B.1.3	Rel-16	pc_Band39_nrBand41_ PC2_Supp	
2	DC_39A_n79A	LTE Frequency band: 1880-1920 MHz NR Frequency band: 4400-5000 MHz	38.101-3, 6.2B.1.3	Rel-16	pc_Band39_nrBand79_ PC2_Supp	
3	DC_41A_n79A	LTE Frequency band: 2496-2690 MHz NR Frequency band: 4400-5000 MHz	38.101-3, 6.2B.1.3	Rel-16	pc_Band41_nrBand79_ PC2_Supp	
4	DC_3A_n78A	LTE Frequency band: 1710-1785 MHz (UL), 1805-1880 MHz (DL) NR Frequency band: 3300-3800 MHz	38.101-3, 6.2B.1.3	Rel-16	pc_Band3_nrBand78_ PC2_Supp	
5	DC_3A_n41A	LTE Frequency band: 1710-1785 MHz (UL), 1805-1880 MHz (DL) NR Frequency band: 2496-2690 MHz	38.101-3, 6.2B.1.3	Rel-16	pc_Band3_nrBand41_ PC2_Supp	
6	DC_1A_n78A	LTE Frequency band: 1920-1980 MHz (UL),2110- 2170 MHz (DL) NR Frequency band: 3300-3800 MHz	38.101-3, 6.2B.1.3	Rel-17	pc_Band1_nrBand78_ PC2_Supp	
7	Void					
8	DC_8A_n78A	LTE Frequency band: 703-748 MHz (UL), 758-803 MHz (DL) NR Frequency band: 3300-3800 MHz	38.101-3, 6.2B.1.3	Rel-17	pc_Band8_nrBand78_ PC2_Supp	
9	DC_2A_n77A	LTE Frequency band: 1850-1910 MHz (UL),1930-1990 MHz (DL) NR Frequency band: 3300-4200 MHz[1]	38.101-3, 6.2B.1.3	Rel-17	pc_Band2_nrBand77_ PC2_Supp	
10	DC_5A_n77A	LTE Frequency band: 824-849 MHz (UL),869- 894 MHz (DL) NR Frequency band: 3300-4200 MHz[1]	38.101-3, 6.2B.1.3	Rel-17	pc_Band5_nrBand77_ PC2_Supp	
11	DC_13A_n77A	LTE Frequency band: 777-787 MHz (UL),746-756 MHz (DL) NR Frequency band: 3300-4200 MHz[1]	38.101-3, 6.2B.1.3	Rel-17	pc_Band13_nrBand77_ PC2_Supp	
12	DC_66A_n77A	LTE Frequency band: 1710-1780 MHz (UL),2110-2200 MHz (DL) NR Frequency band: 3300-4200 MHz[1]	38.101-3, 6.2B.1.3	Rel-17	pc_Band66_nrBand77_ PC2_Supp	
NOTE 1: In the USA this band is restricted to 3450 – 3550 MHz and 3700 – 3980 MHz						

Table A.4.3.2B.2.3.1-3a: Inter-band EN-DC within FR1 (two bands) NR part power class UE RF Baseline Implementation Capabilities (Rel-16 and forward)

Item	EN-DC configuration	UE Physical Layer Baseline Implementation Capabilities	Ref.	Release	Mnemonic	Supported NR part power class
1	DC_39A_n41A	DC_39A_n41A NR part power class	38.306, 4.2.7.1	Rel-16	pc_Band39_nrBand41_powerClassNRPart_r16	
2	DC_39A_n79A	DC_39A_n79A NR part power class	38.306, 4.2.7.1	Rel-16	pc_Band39_nrBand79_powerClassNRPart_r16	
3	DC_41A_n79A	DC_41A_n79A NR part power class	38.306, 4.2.7.1	Rel-16	pc_Band41_nrBand79_powerClassNRPart_r16	
4	DC_3A_n78A	DC_3A_n78A NR part power class	38.306, 4.2.7.1	Rel-16	pc_Band3_nrBand78_powerClassNRPart_r16	
5	DC_3A_n41A	DC_3A_n41A NR part power class	38.306, 4.2.7.1	Rel-16	pc_Band3_nrBand41_powerClassNRPart_r16	
6	DC_1A_n78A	DC_1A_n78A NR part power class	38.306, 4.2.7.1	Rel-17	pc_Band1_nrBand78_powerClassNRPart_r17	
7	DC_8A_n78A	DC_8A_n78A NR part power class	38.306, 4.2.7.1	Rel-17	pc_Band8_nrBand78_powerClassNRPart_r17	
8	DC_2A_n77A	DC_2A_n77A NR part power class	38.306, 4.2.7.1	Rel-17	pc_Band2_nrBand77_powerClassNRPart_r17	
9	DC_5A_n77A	DC_5A_n77A NR part power class	38.306, 4.2.7.1	Rel-17	pc_Band5_nrBand77_powerClassNRPart_r17	
10	DC_13A_n77A	DC_13A_n77A NR part power class	38.306, 4.2.7.1	Rel-17	pc_Band13_nrBand77_powerClassNRPart_r17	
11	DC_66A_n77A	DC_66A_n77A NR part power class	38.306, 4.2.7.1	Rel-17	pc_Band66_nrBand77_powerClassNRPart_r17	

Table A.4.3.2B.2.3.1-3b: Inter-band EN-DC within FR1 (two bands) maxNumberSRS-Ports-PerResource UE RF Baseline Implementation Capabilities (Rel-15)

Item	EN-DC configuration	UE Physical Layer Baseline Implementation Capabilities	Ref.	Release	Mnemonic	Supported maxNumberSRS-Ports-PerResource
1	DC_39A_n41A	DC_39A_n41A maxNumberSRS-Ports-PerResource on NR band	38.306, 4.2.7.7	Rel-15	pc_Band39_nrBand41_maxNumberSRS-Ports-PerResource_NR_r15	
2	DC_39A_n79A	DC_39A_n79A maxNumberSRS-Ports-PerResource on NR band	38.306, 4.2.7.7	Rel-15	pc_Band39_nrBand79_maxNumberSRS-Ports-PerResource_NR_r15	
3	DC_41A_n79A	DC_41A_n79A maxNumberSRS-Ports-PerResource on NR band	38.306, 4.2.7.7	Rel-15	pc_Band41_nrBand79_maxNumberSRS-Ports-PerResource_NR_r15	
4	DC_3A_n78A	DC_3A_n78A maxNumberSRS-Ports-PerResource on NR band	38.306, 4.2.7.7	Rel-15	pc_Band3_nrBand78_maxNumberSRS-Ports-PerResource_NR_r15	
5	DC_3A_n41A	DC_3A_n41A maxNumberSRS-Ports-PerResource on NR band	38.306, 4.2.7.7	Rel-15	pc_Band3_nrBand41_maxNumberSRS-Ports-PerResource_NR_r15	
6	DC_1A_n78A	DC_1A_n78A maxNumberSRS-Ports-PerResource on NR band	38.306, 4.2.7.7	Rel-15	pc_Band1_nrBand78_maxNumberSRS-Ports-PerResource_NR_r15	
7	DC_8A_n78A	DC_8A_n78A maxNumberSRS-Ports-PerResource on NR band	38.306, 4.2.7.7	Rel-15	pc_Band8_nrBand78_maxNumberSRS-Ports-PerResource_NR_r15	
8	DC_2A_n77A	DC_2A_n77A maxNumberSRS-Ports-PerResource on NR band	38.306, 4.2.7.7	Rel-15	pc_Band2_nrBand77_maxNumberSRS-Ports-PerResource_NR_r15	
9	DC_5A_n77A	DC_5A_n77A maxNumberSRS-Ports-PerResource on NR band	38.306, 4.2.7.7	Rel-15	pc_Band5_nrBand77_maxNumberSRS-Ports-PerResource_NR_r15	
10	DC_13A_n77A	DC_13A_n77 maxNumberSRS-Ports-PerResource on NR band	38.306, 4.2.7.7	Rel-15	pc_Band13_nrBand77_maxNumberSRS-Ports-PerResource_NR_r15	
11	DC_66A_n77A	DC_66A_n77A maxNumberSRS-Ports-PerResource on NR band	38.306, 4.2.7.7	Rel-15	pc_Band66_nrBand77_maxNumberSRS-Ports-PerResource_NR_r15	

Table A.4.3.2B.2.3.1-3c: Inter-band EN-DC within FR1 (two bands) NR part power class UE RF Baseline Implementation Capabilities (Rel-15) (maxNumberSRS-Ports-PerResource=n2 in NR standalone operation mode, maxNumberSRS-Ports-PerResource=n1 for EN-DC on NR band)

Item	EN-DC configuration	UE Physical Layer Baseline Implementation Capabilities	Ref.	Release	Mnemonic	Supported NR part power class
1	DC_39A_n41A	DC_39A_n41A NR part power class	38.101-3, 6.1	Rel-15	pc_Band39_nrBand41_powerClassNRPart_r15	
2	DC_39A_n79A	DC_39A_n79A NR part power class	38.101-3, 6.1	Rel-15	pc_Band39_nrBand79_powerClassNRPart_r15	
3	DC_41A_n79A	DC_41A_n79A NR part power class	38.101-3, 6.1	Rel-15	pc_Band41_nrBand79_powerClassNRPart_r15	
4	DC_3A_n78A	DC_3A_n78A NR part power class	38.101-3, 6.1	Rel-15	pc_Band3_nrBand78_powerClassNRPart_r15	
5	DC_3A_n41A	DC_3A_n41A NR part power class	38.101-3, 6.1	Rel-15	pc_Band3_nrBand41_powerClassNRPart_r15	
6	DC_1A_n78A	DC_1A_n78A NR part power class	38.101-3, 6.1	Rel-15	pc_Band1_nrBand78_powerClassNRPart_r15	
7	DC_8A_n78A	DC_8A_n78A NR part power class	38.101-3, 6.1	Rel-15	pc_Band8_nrBand78_powerClassNRPart_r15	
8	DC_2A_n77A	DC_2A_n77A NR part power class	38.101-3, 6.1	Rel-15	pc_Band2_nrBand77_powerClassNRPart_r15	
9	DC_5A_n77A	DC_5A_n77A NR part power class	38.101-3, 6.1	Rel-15	pc_Band5_nrBand77_powerClassNRPart_r15	
10	DC_13A_n77A	DC_13A_n77A NR part power class	38.101-3, 6.1	Rel-15	pc_Band13_nrBand77_powerClassNRPart_r15	
11	DC_66A_n77A	DC_66A_n77A NR part power class	38.101-3, 6.1	Rel-15	pc_Band66_nrBand77_powerClassNRPart_r15	

Table A.4.3.2B.2.3.1-4: UE Power Class implementation Capabilities for inter-band EN-DC within FR1 (two bands)

Item	UE Power Class implementation Capabilities	Ref.	Comments
1	UE Power Class 2 for Inter-band EN-DC within FR1 (two bands)	38.101-3, 6.2B.1.3	Applicable to the bands in Table A.4.3.2B.2.3.1-3
2	UE Power Class 3 for Inter-band EN-DC within FR1 (two bands)	38.101-3, 6.2B.1.3	Applicable to the bands in Table A.4.3.2B.2.3.1-2

A.4.3.2B.2.3.2 Inter-band EN-DC within FR1 (three bands)

Table A.4.3.2B.2.3.2-1: Downlink Bandwidth Class Combination capabilities for Inter-band EN-DC within FR1 and three bands (for one or more of the supported DC configurations in Table A.4.3.2B.2.3.2-2)

Item	DL inter-band EN-DC within FR1 Bandwidth Class	Ref.	Mnemonic
1	Inter-band EN-DC within FR1 BW Class Combination A-A_A (three bands)	36.101, 5.6A.1 38.101-3, 5.5B.4.2	pc_DL_inter_band_EN_DC_FR1_3B_Class_A-A_A
2	Inter-band EN-DC withinFR1 BW Class Combination A-A_B (three bands)	36.101, 5.6A.1 38.101-3, 5.5B.4.2	pc_DL_inter_band_EN_DC_FR1_3B_Class_A-A_B
3	Inter-band EN-DC within FR1 BW Class Combination A-A_C (three bands)	36.101, 5.6A.1 38.101-3, 5.5B.4.2	pc_DL_inter_band_EN_DC_FR1_3B_Class_A-A_C
4	Inter-band EN-DC within FR1 BW Class Combination A-C_A (three bands)	36.101, 5.6A.1 38.101-3, 5.5B.4.2	pc_DL_inter_band_EN_DC_FR1_3B_Class_A-C_A
5	Inter-band EN-DC within FR1 BW Class Combination A-C_C (three bands)	36.101, 5.6A.1 38.101-3, 5.5B.4.2	pc_DL_inter_band_EN_DC_FR1_3B_Class_A-C_C
6	Inter-band EN-DC withinFR1 BW Class Combination A-D_A (three bands)	36.101, 5.6A.1 38.101-3, 5.5B.4.2	pc_DL_inter_band_EN_DC_FR1_3B_Class_A-D_A
7	Inter-band EN-DC within FR1 BW Class Combination A-E_A (three bands)	36.101, 5.6A.1 38.101-3, 5.5B.4.2	pc_DL_inter_band_EN_DC_FR1_3B_Class_A-E_A
8	Inter-band EN-DC within FR1 BW Class Combination A_A-A (three bands)	36.101, 5.6A.1 38.101-3, 5.5B.4.2	pc_DL_inter_band_EN_DC_FR1_3B_Class_A_A-A
9	Inter-band EN-DC within FR1 BW Class Combination C-A_A (three bands)	36.101, 5.6A.1 38.101-3, 5.5B.4.2	pc_DL_inter_band_EN_DC_FR1_3B_Class_C-A_A
10	Inter-band EN-DC within FR1 BW Class Combination C-C_A (three bands)	36.101, 5.6A.1 38.101-3, 5.5B.4.2	pc_DL_inter_band_EN_DC_FR1_3B_Class_C-C_A
11	Inter-band EN-DC within FR1 BW Class Combination A_(n)AA (three bands)	36.101, 5.6A.1 38.101-3, 5.5B.4.2	pc_DL_inter_band_EN_DC_FR1_3B_Class_A_(n)AA
12	Inter-band EN-DC within FR1 BW Class Combination (2A)-A_A (three bands)	36.101, 5.6A.1 38.101-3, 5.5B.4.2	pc_DL_inter_band_EN_DC_FR1_3B_Class_(2A)-A_A
13	Inter-band EN-DC within FR1 BW Class Combination (2A)-C_A (three bands)	36.101, 5.6A.1 38.101-3, 5.5B.4.2	pc_DL_inter_band_EN_DC_FR1_3B_Class_(2A)-C_A
14	Inter-band EN-DC within FR1 BW Class Combination A-A_(2A) (three bands)	36.101, 5.6A.1 38.101-3, 5.5B.4.2	pc_DL_inter_band_EN_DC_FR1_3B_Class_A-A_(2A)
15	Inter-band EN-DC within FR1 BW Class Combination A-C_(2A) (three bands)	36.101, 5.6A.1 38.101-3, 5.5B.4.2	pc_DL_inter_band_EN_DC_FR1_3B_Class_A-C_(2A)

Table A.4.3.2B.2.3.2-1a: Uplink Bandwidth Class Combination capabilities for Inter-band EN-DC within FR1 and three bands (for one or more of the supported configurations in Table A.4.3.2B.2.3.2-2)

Item	UL inter-band EN-DC within FR1 Bandwidth Class	Ref.	Mnemonic	Comments
1	UL Inter-band EN-DC within FR1 BW Class Combination A_A (three bands)	36.101, 5.6A.1 38.101-3, 5.5B.4.2	pc_UL_inter_band_EN_DC_FR1_3B_Class_A_A	
2	UL Inter-band EN-DC within FR1 BW Class Combination C_A (three bands)	36.101, 5.6A.1 38.101-3, 5.5B.4.2	pc_UL_inter_band_EN_DC_FR1_3B_Class_C_A	
3	UL Inter-band EN-DC within FR1 BW Class Combination C_B (three bands)	36.101, 5.6A.1 38.101-3, 5.5B.4.2	pc_UL_inter_band_EN_DC_FR1_3B_Class_C_B	
4	UL Inter-band EN-DC within FR1 BW Class Combination (n)AA (three bands)	36.101, 5.6A.1 38.101-3, 5.5B.4.2	pc_UL_inter_band_EN_DC_FR1_3B_Class_(n)AA	

Table A.4.3.2B.2.3.2-2: Supported Inter-band EN-DC configurations within FR1 (three bands)

EN-DC configuration / Item (Note 1, 3, 5)	Release	Supported	Supported EN-DC Bandwidth Class(es) in UL (Note 2, 4)
DC_1A-3A_n28A	Rel-15		
DC_1A-3A_n41A	Rel-16		
DC_1A-3A_n77A	Rel-15		
DC_1A-3A_n78A	Rel-15		
DC_1A-3C_n78A	Rel-15		
DC_1A-3C_n78(2A)	Rel-16		
DC_1A-1A-3A_n78A	Rel-17		
DC_1A-1A-3C_n78A	Rel-17		
DC_1A-1A-5A_n78A	Rel-17		
DC_1A-3A_n79A	Rel-15		
DC_1A-5A_n78C	Rel-17		
DC_1A-7A_n3A	Rel-16		
DC_1A-7A_n28A	Rel-15		
DC_1A-7A_n78A	Rel-15		
DC_1A-8A_n3A	Rel-16		
DC_1A-8A_n78A	Rel-15		
DC_1A-8A_n78(2A)	Rel-17		
DC_1A-18A_n77A	Rel-15		
DC_1A-19A_n77(2A)	Rel-17		
DC_1A-19A_n78A	Rel-15		
DC_1A-19A_n78(2A)	Rel-17		
DC_1A-19A_n79A	Rel-15		
DC_1A-20A_n3A	Rel-16		
DC_1A-20A_n8A	Rel-16		
DC_1A-20A_n28A	Rel-15		
DC_1A-20A_n78A	Rel-15		
DC_1A-21A_n28A	Rel-17		
DC_1A-21A_n77(2A)	Rel-17		
DC_1A-21A_n78A	Rel-15		
DC_1A-21A_n78(2A)	Rel-17		
DC_1A-21A_n79A	Rel-15		
DC_1A-28A_n3A	Rel-16		
DC_1A-28A_n5A	Rel-16		
DC_1A-28A_n78C	Rel-15		
DC_1A_n28A-n78A	Rel-15		
DC_1A_n28A-n79A	Rel-17		
DC_1A-41A_n28A	Rel-17		
DC_1A-41C_n28A	Rel-17		
DC_1A-41A_n41A	Rel-16		
DC_1A-41A_n77A	Rel-15		
DC_1A-42A_n78A	Rel-15		
DC_1A-42C_n78A	Rel-15		
DC_1A-42D_n78A	Rel-15		
DC_1A-42E_n78A	Rel-15		
DC_1A-42A_n79A	Rel-15		
DC_1A-42C_n79A	Rel-15		
DC_1A-42D_n79A	Rel-15		
DC_1A-42E_n79A	Rel-15		
DC_1A_n78A-n79A	Rel-15		
DC_2A-13A_n77A	Rel-17		
DC_2A-2A-14A_n66A	Rel-16		
DC_2A-14A_n2A	Rel-16		
DC_2A-14A_n66A	Rel-16		
DC_2A-66A_n41A	Rel-16		
DC_2A-66A_n5A	Rel-16		
DC_2A-66A_n71A	Rel-15		
DC_2A-66A_n77A	Rel-17		
DC_2A-(n)71AA	Rel-15		
DC_3A_n1A-n78A	Rel-17		
DC_3A_n1A-n79A	Rel-17		

DC_3A-5A_n78C	Rel-17		
DC_3A-7A_n1A	Rel-16		
DC_3A-7A_n5A	Rel-16		
DC_3A-7A_n8A	Rel-16		
DC_3A-7A_n28A	Rel-15		
DC_3A-7A_n78A	Rel-15		
DC_3A-8A_n1A	Rel-16		
DC_3A-8A_n28A	Rel-16		
DC_3A-8A_n78A	Rel-15		
DC_3A-8A_n78(2A)	Rel-17		
DC_3A-18A_n77A	Rel-17		
DC_3A-18A_n78A	Rel-17		
DC_3A-19A_n1A	Rel-17		
DC_3A-19A_n77(2A)	Rel-17		
DC_3A-19A_n78A	Rel-15		
DC_3A-19A_n78(2A)	Rel-17		
DC_3A-19A_n79A	Rel-15		
DC_3A-20A_n1A	Rel-16		
DC_3A-20A_n8A	Rel-16		
DC_3A-20A_n28A	Rel-15		
DC_3A-20A_n78A	Rel-15		
DC_3A-21A_n1A	Rel-17		
DC_3A-21A_n28A	Rel-17		
DC_3A-21A_n77(2A)	Rel-17		
DC_3A-21A_n78A	Rel-15		
DC_3A-21A_n78(2A)	Rel-17		
DC_3A-21A_n79A	Rel-15		
DC_3A-28A_n78A	Rel-15		
DC_3A_n28A-n78A	Rel-15		
DC_3A_n28A-n79A	Rel-17		
DC_3A-40A_n1A	Rel-16		
DC_3A-41A_n28A	Rel-17		
DC_3A-41C_n28A	Rel-17		
DC_3A-41A_n41A	Rel-17		
DC_3A-41A_n77A	Rel-17		
DC_3A-41A_n77(2A)	Rel-17		
DC_3A-41C_n77A	Rel-17		
DC_3A-42A_n1A	Rel-17		
DC_3A-42C_n1A	Rel-17		
DC_3A-42A_n78A	Rel-15		
DC_3A-42C_n78A	Rel-15		
DC_3A-42D_n78A	Rel-15		
DC_3A-42E_n78A	Rel-15		
DC_3A-42A_n79A	Rel-15		
DC_3A-42C_n79A	Rel-15		
DC_3A-42D_n79A	Rel-15		
DC_3A-42E_n79A	Rel-15		
DC_3A_n78A-n79A	Rel-15		
DC_5A-7A_n78A	Rel-15		
DC_7A-5A_n78A	Rel-16		
DC_7A-8A_n1A	Rel-16		
DC_7A-8A_n3A	Rel-16		
DC_7A-20A_n1A	Rel-16		
DC_7A-20A_n3A	Rel-16		
DC_7A-20A_n8A	Rel-16		
DC_7A-20A_n28A	Rel-15		
DC_7A-20A_n78A	Rel-15		
DC_7A-28A_n5A	Rel-16		
DC_7A_n28A-n78A	Rel-15		
DC_7C-5A_n78A	Rel-16		
DC_7C_n28A-n78A	Rel-16		
DC_13A-66A_n77A	Rel-17		
DC_14A-66A_n2A	Rel-16		
DC_14A-66A-66A_n2A	Rel-16		
DC_14A-66A_n66A	Rel-16		

DC_18A-41C_n3A	Rel-17		
DC_18A-41A_n77A	Rel-17		
DC_18A-41C_n77A	Rel-17		
DC_18A-41A_n78A	Rel-17		
DC_18A-41C_n78A	Rel-17		
DC_19A_n1A-n78A	Rel-17		
DC_19A_n1A-n79A	Rel-17		
DC_19A-21A_n1A	Rel-17		
DC_19A-21A_n77(2A)	Rel-17		
DC_19A-21A_n78A	Rel-15		
DC_19A-21A_n78(2A)	Rel-17		
DC_19A-21A_n79A	Rel-15		
DC_19A-42A_n1A	Rel-17		
DC_19A-42C_n1A	Rel-17		
DC_19A-42A_n78A	Rel-15		
DC_19A-42A_n79A	Rel-15		
DC_19A-42C_n78A	Rel-15		
DC_19A-42C_n79A	Rel-15		
DC_19A_n78A-n79A	Rel-15		
DC_20A_n28A-n78A	Rel-15		
DC_21A_n1A-n78A	Rel-17		
DC_21A_n1A-n79A	Rel-17		
DC_21A_n28A-n77A	Rel-17		
DC_21A_n28A-n78A	Rel-17		
DC_21A_n28A-n79A	Rel-17		
DC_21A-42A_n1A	Rel-17		
DC_21A-42C_n1A	Rel-17		
DC_21A-42A_n78A	Rel-15		
DC_21A-42C_n78A	Rel-15		
DC_21A-42A_n79A	Rel-15		
DC_21A-42C_n79A	Rel-15		
DC_21A_n78A-n79A	Rel-15		
DC_28A_n7A-n78A	Rel-16		
DC_66A-(n)71AA	Rel-15		

Note 1: Notation used for inter-band EN-DC Bands is according to TS 38.101-3 [25] Table 5.5B.4.2-1, e.g. 'DC_1A-3C_n78A' indicates EN-DC operation on E-UTRA CA configuration CA_1A-3C with E-UTRA DL Bandwidth Classes A, C for the E-UTRA bands 1 and 3 respectively and NR band n78 with NR DL CA Bandwidth Class A.

Note 2: See UL_*n*CC(*table_index*) in Note 2 of Table 4.0-3 in TS 38.522 [9].

Note 3: See DL_*n*CC(*table_index*) in Note 4 of Table 4.0-3 in TS 38.522 [9].

Note 4: See UL_NR_*n*CC(*table_index*) in Note 3 of Table 4.0-3 in TS 38.522 [9].

Note 5: See DL_NR_*n*CC(*table_index*) in Note 5 of Table 4.0-3 in TS 38.522 [9].

A.4.3.2B.2.3.3 Inter-band EN-DC within FR1 (four bands)

Table A.4.3.2B.2.3.3-1: Downlink Bandwidth Class Combination capabilities for Inter-band EN-DC within FR1 and four bands (for one or more of the supported DC configurations in Table A.4.3.2B.2.3.3-2)

Item	DL inter-band EN-DC within FR1 Bandwidth Class	Ref.	Mnemonic	Comments
1	Inter-band EN-DC within FR1 BW Class Combination A-A-A_A (four bands)	36.101, 5.6A.1 38.101-1, 5.5B.4.3	pc_DL_inter_band_EN_DC_FR1_4B_Class_A-A-A_A	
2	Inter-band EN-DC within FR1 BW Class Combination A-A-C_A (four bands)	36.101, 5.6A.1 38.101-1, 5.5B.4.3	pc_DL_inter_band_EN_DC_FR1_4B_Class_A-A-C_A	
3	Inter-band EN-DC within FR1 BW Class Combination A-A-D_A (four bands)	36.101, 5.6A.1 38.101-1, 5.5B.4.3	pc_DL_inter_band_EN_DC_FR1_4B_Class_A-A-D_A	
4	Inter-band EN-DC within FR1 BW Class Combination A-C-A_A (four bands)	36.101, 5.6A.1 38.101-1, 5.5B.4.3	pc_DL_inter_band_EN_DC_FR1_4B_Class_A-C-A_A	
5	Inter-band EN-DC within FR1 BW Class Combination A-(2A)-A_A (four bands)	36.101, 5.6A.1 38.101-1, 5.5B.4.3	pc_DL_inter_band_EN_DC_FR1_4B_Class_A-(2A)-A_A	
6	Inter-band EN-DC within FR1 BW Class Combination A-A_A-A (four bands)	36.101, 5.6A.1 38.101-1, 5.5B.4.3	pc_DL_inter_band_EN_DC_FR1_4B_Class_A-A_A-A	
7	Inter-band EN-DC within FR1 BW Class Combination A-C_A-A (four bands)	36.101, 5.6A.1 38.101-1, 5.5B.4.3	pc_DL_inter_band_EN_DC_FR1_4B_Class_A-C_A-A	
8	Inter-band EN-DC within FR1 BW Class Combination A-A_(n)AA (four bands)	36.101, 5.6A.1 38.101-1, 5.5B.4.3	pc_DL_inter_band_EN_DC_FR1_4B_Class_A-A_(n)AA	

Table A.4.3.2B.2.3.3-1a: Uplink Bandwidth Class Combination capabilities for Inter-band EN-DC within FR1 and four bands (for one or more of the supported configurations in Table A.4.3.2B.2.3.3-2)

Item	UL inter-band EN-DC within FR1 Bandwidth Class	Ref.	Mnemonic	Comments
1	UL Inter-band EN-DC within FR1 BW Class Combination A_A (four bands)	36.101, 5.6A.1 38.101-3, 5.5B.4.3	pc_UL_inter_band_EN_DC_FR1_4B_Class_A_A	
2	UL Inter-band EN-DC within FR1 BW Class Combination A_B (four bands)	36.101, 5.6A.1 38.101-3, 5.5B.4.3	pc_UL_inter_band_EN_DC_FR1_4B_Class_A_B	
3	UL Inter-band EN-DC within FR1 BW Class Combination (n)AA (four bands)	36.101, 5.6A.1 38.101-3, 5.5B.4.3	pc_UL_inter_band_EN_DC_FR1_4B_Class_(n)AA	
4	UL Inter-band EN-DC within FR1 BW Class Combination C_A (four bands)	36.101, 5.6A.1 38.101-3, 5.5B.4.3	pc_UL_inter_band_EN_DC_FR1_4B_Class_C_A	
5	UL Inter-band EN-DC within FR1 BW Class Combination C_B (four bands)	36.101, 5.6A.1 38.101-3, 5.5B.4.3	pc_UL_inter_band_EN_DC_FR1_4B_Class_C_B	

Table A.4.3.2B.2.3.3-2: Supported Inter-band EN-DC configurations within FR1 (four bands)

EN-DC configuration / Item (Note 1, 3, 5)	Release	Supported	Supported EN-DC Bandwidth Class(es) in UL (Note 2, 4)
DC_1A-3A-7A_n28A	Rel-15		
DC_1A-3A-7A_n78A	Rel-15		
DC_1A-3A-8A_n78A	Rel-15		
DC_1A-3A-19A_n77(2A)	Rel-17		
DC_1A-3A-19A_n78A	Rel-15		
DC_1A-3A-19A_n78(2A)	Rel-17		
DC_1A-3A-19A_n79A	Rel-15		
DC_1A-3A-20A_n28A	Rel-15		
DC_1A-3A-20A_n78A	Rel-15		
DC_1A-3A-21A_n77(2A)	Rel-17		
DC_1A-3A-21A_n78A	Rel-15		
DC_1A-3A-21A_n78(2A)	Rel-17		
DC_1A-3A-21A_n79A	Rel-15		
DC_1A-3A-28A_n78A	Rel-15		
DC_1A-3A_n28A-n78A	Rel-15		
DC_1A-3A-42A_n78A	Rel-15		
DC_1A-3A-42C_n78A	Rel-15		
DC_1A-3A-42D_n78A	Rel-16		
DC_1A-3A-42D_n79A	Rel-16		
DC_1A-3A-42A_n79A	Rel-15		
DC_1A-3A-42C_n79A	Rel-15		
DC_1A-7A_n28A-n78A	Rel-15		
DC_1A-7A-20A_n28A	Rel-15		
DC_1A-7A-20A_n78A	Rel-15		
DC_1A-7A-28A_n78A	Rel-16		
DC_1A-19A-21A_n77(2A)	Rel-17		
DC_1A-19A-21A_n78A	Rel-15		
DC_1A-19A-21A_n78(2A)	Rel-17		
DC_1A-19A-21A_n79A	Rel-15		
DC_1A-19A-42A_n78A	Rel-15		
DC_1A-19A-42C_n78A	Rel-15		
DC_1A-19A-42A_n79A	Rel-15		
DC_1A-19A-42C_n79A	Rel-15		
DC_1A-20A_n28A-n78A	Rel-15		
DC_1A-21A-42A_n78A	Rel-15		
DC_1A-21A-42C_n78A	Rel-15		
DC_1A-21A-42A_n79A	Rel-15		
DC_1A-21A-42C_n79A	Rel-15		
DC_2A-2A-14A-66A_n66A	Rel-16		
DC_2A-7A-7A-13A_n66A	Rel-16		
DC_2A-7A-7A-66A_n66A	Rel-16		
DC_2A-7A-7A-66A_n78A	Rel-16		
DC_2A-7A-13A_n66A	Rel-16		
DC_2A-7A-66A_n66A	Rel-16		
DC_2A-7C-13A_n66A	Rel-16		
DC_2A-7C-66A_n66A	Rel-16		
DC_2A-7C-66A_n78A	Rel-16		
DC_2A-13A-66A_n77A	Rel-17		
DC_2A-14A-66A_n2A	Rel-16		
DC_2A-14A-66A_n66A	Rel-16		
DC_2A-14A-66A-66A_n2A	Rel-16		
DC_2A-66A_n5A-n77A	Rel-17		
DC_2A-66A-(n)71AA	Rel-15		
DC_3A-7A-20A_n1A	Rel-16		
DC_3A-7A-20A_n8A	Rel-16		
DC_3A-7A-20A_n28A	Rel-15		
DC_3A-7A-20A_n78A	Rel-15		
DC_3A-7A-28A_n78A	Rel-15		
DC_3A-7A_n28A-n78A	Rel-15		
DC_3A-19A_n1A-n78A	Rel-17		

DC_3A-19A_n1A-n79A	Rel-17		
DC_3A-19A-21A_n78A	Rel-15		
DC_3A-19A-21A_n79A	Rel-15		
DC_3A-19A-42A_n1A	Rel-17		
DC_3A-19A-42C_n1A	Rel-17		
DC_3A-19A-42A_n78A	Rel-15		
DC_3A-19A-42C_n78A	Rel-15		
DC_3A-19A-42A_n79A	Rel-15		
DC_3A-19A-42C_n79A	Rel-15		
DC_3A-20A_n28A-n78A	Rel-15		
DC_3A-21A_n1A-n78A	Rel-17		
DC_3A-21A_n1A-n79A	Rel-17		
DC_3A-21A-42A_n78A	Rel-15		
DC_3A-21A-42C_n78A	Rel-15		
DC_3A-21A-42A_n79A	Rel-15		
DC_3A-21A-42C_n79A	Rel-15		
DC_3A-42A_n1A-n78A	Rel-17		
DC_3A-42C_n1A-n78A	Rel-17		
DC_3A-42A_n1A-n79A	Rel-17		
DC_3A-42C_n1A-n79A	Rel-17		
DC_7A-20A_n28A-n78A	Rel-15		
DC_13A-66A_n2A-n77A	Rel-17		
DC_19A-21A_n1A-n78A	Rel-17		
DC_19A-21A_n1A-n79A	Rel-17		
DC_19A-21A-42A_n1A	Rel-17		
DC_19A-21A-42C_n1A	Rel-17		
DC_19A-21A-42A_n78A	Rel-15		
DC_19A-21A-42C_n78A	Rel-15		
DC_19A-21A-42A_n79A	Rel-15		
DC_19A-21A-42C_n79A	Rel-15		
DC_19A-42A_n1A-n78A	Rel-17		
DC_19A-42C_n1A-n78A	Rel-17		
DC_19A-42A_n1A-n79A	Rel-17		
DC_19A-42C_n1A-n79A	Rel-17		
DC_21A-42A_n1A-n78A	Rel-17		
DC_21A-42C_n1A-n78A	Rel-17		
DC_21A-42A_n1A-n79A	Rel-17		
DC_21A-42C_n1A-n79A	Rel-17		

Note 1: Notation used for inter-band EN-DC Bands is according to TS 38.101-3 [25] Table 5.5B.4.3-1, e.g. 'DC_2A-7C-13A_n66A' indicates EN-DC operation on E-UTRA CA configuration CA_2A-7C-13A with E-UTRA DL Bandwidth Classes A, C, A for the E-UTRA bands 2, 7 and 13 respectively and NR band n66 with NR DL CA Bandwidth Class A.
Note 2: See UL_*n*CC(*table_index*) in Note 2 of Table 4.0-3 in TS 38.522 [9].
Note 3: See DL_*n*CC(*table_index*) in Note 4 of Table 4.0-3 in TS 38.522 [9].
Note 4: See UL_NR_*n*CC(*table_index*) in Note 3 of Table 4.0-3 in TS 38.522 [9].
Note 5: See DL_NR_*n*CC(*table_index*) in Note 5 of Table 4.0-3 in TS 38.522 [9].

A.4.3.2B.2.3.4 Inter-band EN-DC within FR1 (five bands)

Table A.4.3.2B.2.3.4-1: Downlink Bandwidth Class Combination capabilities for Inter-band EN-DC within FR1 and five bands (for one or more of the supported DC configurations in Table A.4.3.2B.2.3.4-2)

Item	DL inter-band EN-DC within FR1 Bandwidth Class	Ref.	Mnemonic	Comments
1	Inter-band EN-DC within FR1 BW Class Combination A-A-A-A_A (five bands)	36.101, 5.6A.1 38.101-1, 5.5B.4.4	pc_DL_inter_band_EN_DC_FR1_5B_Class_A-A-A-A_A	
2	Inter-band EN-DC within FR1 BW Class Combination A-A-A_A-A (five bands)	36.101, 5.6A.1 38.101-1, 5.5B.4.4	pc_DL_inter_band_EN_DC_FR1_5B_Class_A-A-A_A-A	
3	Inter-band EN-DC within FR1 BW Class Combination A-A-A-C_A (five bands)	36.101, 5.6A.1 38.101-1, 5.5B.4.4	pc_DL_inter_band_EN_DC_FR1_5B_Class_A-A-A-C_A	
4	Inter-band EN-DC within FR1 BW Class Combination A-A-C-A_A (five bands)	36.101, 5.6A.1 38.101-1, 5.5B.4.4	pc_DL_inter_band_EN_DC_FR1_5B_Class_A-A-C-A_A	
5	Inter-band EN-DC within FR1 BW Class Combination A-A-C_A-A (five bands)	36.101, 5.6A.1 38.101-1, 5.5B.4.4	pc_DL_inter_band_EN_DC_FR1_5B_Class_A-A-C_A-A	
6	Inter-band EN-DC within FR1 BW Class Combination A-C-A-A_A (five bands)	36.101, 5.6A.1 38.101-1, 5.5B.4.4	pc_DL_inter_band_EN_DC_FR1_5B_Class_A-C-A-A_A	
7	Inter-band EN-DC within FR1 BW Class Combination C-A-A-A_A (five bands)	36.101, 5.6A.1 38.101-1, 5.5B.4.4	pc_DL_inter_band_EN_DC_FR1_5B_Class_C-A-A-A_A	

Table A.4.3.2B.2.3.4-1a: Uplink Bandwidth Class Combination capabilities for Inter-band EN-DC within FR1 and five bands (for one or more of the supported configurations in Table A.4.3.2B.2.3.4-2)

Item	UL inter-band EN-DC within FR1 Bandwidth Class	Ref.	Mnemonic	Comments
1	UL Inter-band EN-DC within FR1 BW Class Combination A_A (five bands)	36.101, 5.6A.1 38.101-3, 5.5B.4.4	pc_UL_inter_band_EN_DC_FR1_5B_Class_A_A	
2	UL Inter-band EN-DC within FR1 BW Class Combination A_B (five bands)	36.101, 5.6A.1 38.101-3, 5.5B.4.4	pc_UL_inter_band_EN_DC_FR1_5B_Class_A_B	
3	UL Inter-band EN-DC within FR1 BW Class Combination C_A (five bands)	36.101, 5.6A.1 38.101-3, 5.5B.4.4	pc_UL_inter_band_EN_DC_FR1_5B_Class_C_A	
4	UL Inter-band EN-DC within FR1 BW Class Combination C_B (five bands)	36.101, 5.6A.1 38.101-3, 5.5B.4.4	pc_UL_inter_band_EN_DC_FR1_5B_Class_C_B	

Table A.4.3.2B.2.3.4-2: Supported Inter-band EN-DC configurations within FR1 (five bands)

EN-DC configuration / Item (Note 1, 3, 5)	Release	Supported	Supported EN-DC Bandwidth Class(es) in UL (Note 2, 4)
DC_1A-3A-7A-20A_n28A	Rel-15		
DC_1A-3A-7A-20A_n78A	Rel-15		
DC_1A-3A-7A-28A_n78A	Rel-16		
DC_1A-3A-7A_n28A-n78A	Rel-15		
DC_1A-3A-19A-42A_n78A	Rel-15		
DC_1A-3A-19A-42C_n78A	Rel-15		
DC_1A-3A-19A-42A_n79A	Rel-15		
DC_1A-3A-19A-42C_n79A	Rel-15		
DC_1A-3A-20A_n28A-n78A	Rel-15		
DC_1A-3A-21A-42A_n78A	Rel-15		
DC_1A-3A-21A-42C_n78A	Rel-15		
DC_1A-3A-21A-42A_n79A	Rel-15		
DC_1A-3A-21A-42C_n79A	Rel-15		
DC_1A-7A-20A_n28A-n78A	Rel-15		
DC_1A-19A-21A-42A_n78A	Rel-15		
DC_1A-19A-21A-42C_n78A	Rel-15		
DC_1A-19A-21A-42A_n79A	Rel-15		
DC_1A-19A-21A-42C_n79A	Rel-15		
DC_3A-7A-20A_n28A-n78A	Rel-15		
DC_3A-19A-21A-42A_n78A	Rel-16		
DC_3A-19A-21A-42C_n78A	Rel-16		
DC_3A-19A-21A-42A_n79A	Rel-16		
DC_3A-19A-21A-42C_n79A	Rel-16		
DC_3A-19A-42A_n1A-n78A	Rel-17		
DC_3A-19A-42C_n1A-n78A	Rel-17		
DC_3A-19A-42A_n1A-n79A	Rel-17		
DC_3A-19A-42C_n1A-n79A	Rel-17		
DC_3A-21A-42A_n1A-n78A	Rel-17		
DC_3A-21A-42C_n1A-n78A	Rel-17		
DC_3A-21A-42A_n1A-n79A	Rel-17		
DC_3A-21A-42C_n1A-n79A	Rel-17		
DC_19A-21A-42A_n1A-n78A	Rel-17		
DC_19A-21A-42C_n1A-n78A	Rel-17		
DC_19A-21A-42A_n1A-n79A	Rel-17		
DC_19A-21A-42C_n1A-n79A	Rel-17		

Note 1: Notation used for inter-band EN-DC Bands is according to TS 38.101-3 [25] Table 5.5B.4.4-1, e.g. 'DC_1A-3A-5A-41A_n79A' indicates EN-DC operation on E-UTRA CA configuration CA_1A-3A-5A-41A with E-UTRA DL Bandwidth Classes A for all the E-UTRA bands 1, 3, 5 and 41 and NR band n79 with NR DL CA Bandwidth Class A.
Note 2: See UL_*n*CC(*table_index*) in Note 2 of Table 4.0-3 in TS 38.522 [9].
Note 3: See DL_*n*CC(*table_index*) in Note 4 of Table 4.0-3 in TS 38.522 [9].
Note 4: See UL_NR_*n*CC(*table_index*) in Note 3 of Table 4.0-3 in TS 38.522 [9].
Note 5: See DL_NR_nCC(table_index) in Note 5 of Table 4.0-3 in TS 38.522 [9].

A.4.3.2B.2.3.5 Inter-band EN-DC within FR1 (six bands)

Table A.4.3.2B.2.3.5-1: Downlink Bandwidth Class Combination capabilities for Inter-band EN-DC within FR1 and six bands (for one or more of the supported DC configurations in Table A.4.3.2B.2.3.5-2)

Item	DL inter-band EN-DC within FR1 Bandwidth Class	Ref.	Mnemonic	Comments
1	EN-DC Inter-band with NR FR1 BW Class Combination A-A-A-A_A-A (six bands)	36.101, 5.6A.1 38.101-1, 5.5B.4.5	pc_DL_inter_band_EN_DC_FR1_6B_Class_A-A-A-A_A-A	
2	EN-DC Inter-band with NR FR1 BW Class Combination A-A-C-A_A-A (six bands)	36.101, 5.6A.1 38.101-1, 5.5B.4.5	pc_DL_inter_band_EN_DC_FR1_6B_Class_A-A-C-A_A-A	
3	EN-DC Inter-band with NR FR1 BW Class Combination A-C-A-A_A-A (six bands)	36.101, 5.6A.1 38.101-1, 5.5B.4.5	pc_DL_inter_band_EN_DC_FR1_6B_Class_A-C-A-A_A-A	
4	EN-DC Inter-band with NR FR1 BW Class Combination A-C-C-A_A-A (six bands)	36.101, 5.6A.1 38.101-1, 5.5B.4.5	pc_DL_inter_band_EN_DC_FR1_6B_Class_A-C-C-A_A-A	

Table A.4.3.2B.2.3.5-1a: Uplink Bandwidth Class Combination capabilities for Inter-band EN-DC within FR1 and six bands (for one or more of the supported configurations in Table A.4.3.2B.2.3.5-2)

Item	UL inter-band EN-DC within FR1 Bandwidth Class	Ref.	Mnemonic	Comments
1	UL Inter-band EN-DC within FR1 BW Class Combination A_A (six bands)	36.101, 5.6A.1 38.101-1, 5.5B.4.5	pc_UL_inter_band_EN_DC_FR1_6B_Class_A_A	
2	UL Inter-band EN-DC within FR1 BW Class Combination C_A (six bands)	36.101, 5.6A.1 38.101-1, 5.5B.4.5	pc_UL_inter_band_EN_DC_FR1_6B_Class_C_A	

Table A.4.3.2B.2.3.5-2: Supported Inter-band EN-DC configurations within FR1 (six bands)

EN-DC configuration / Item (Note 1, 3, 5)	Release	Supported	Supported EN-DC Bandwidth Class(es) in UL (Note 2, 4)
DC_1A-3A-7A-20A_n28A-n78A	Rel-15		

Note 1: Notation used for inter-band EN-DC Bands is according to TS 38.101-3 [25] Table 5.5B.4.5-1, e.g. 'DC_1A-3A-7A-20A_n28A-n78A' indicates EN-DC operation on E-UTRA CA configuration CA_1A-3A-7A-20A with E-UTRA DL Bandwidth Class A for all the E-UTRA bands 1, 3, 7 and 20 and NR CA configuration CA_n28A-n78A with NR DL CA Bandwidth Class A for all the NR bands n28 and n78.
Note 2: See UL_*n*CC(*table_index*) in Note 2 of Table 4.0-3 in TS 38.522 [9].
Note 3: See DL_*n*CC(*table_index*) in Note 4 of Table 4.0-3 in TS 38.522 [9].
Note 4: See UL_NR_*n*CC(*table_index*) in Note 3 of Table 4.0-3 in TS 38.522 [9].
Note 5: See DL_NR_nCC(table_index) in Note 5 of Table 4.0-3 in TS 38.522 [9].

A.4.3.2B.2.3.6 Inter-band EN-DC including FR2 (two bands)

Table A.4.3.2B.2.3.6-1: Downlink Bandwidth Class Combination capabilities for Inter-band EN-DC including FR2 and two bands (for one or more of the supported DC configurations in Table A.4.3.2B.2.3.6-2)

Item	DL inter-band EN-DC including FR2 Bandwidth Class	Ref.	Mnemonic	Comments
1	Inter-band EN-DC including FR2 BW Class Combination A_A (two bands)	36.101, 5.6A.1 38.101-3, 5.5B.5.1	pc_DL_inter_band_EN_DC_FR2_2B_Class_A_A	
2	Inter-band EN-DC including FR2 BW Class Combination A_B (two bands)	36.101, 5.6A.1 38.101-3, 5.5B.5.1	pc_DL_inter_band_EN_DC_FR2_2B_Class_A_B	
3	Inter-band EN-DC including FR2 BW Class Combination A_C (two bands)	36.101, 5.6A.1 38.101-3, 5.5B.5.1	pc_DL_inter_band_EN_DC_FR2_2B_Class_A_C	
4	Inter-band EN-DC including FR2 BW Class Combination A_D (two bands)	36.101, 5.6A.1 38.101-3, 5.5B.5.1	pc_DL_inter_band_EN_DC_FR2_2B_Class_A_D	
5	Inter-band EN-DC including FR2 BW Class Combination A_E (two bands)	36.101, 5.6A.1 38.101-3, 5.5B.5.1	pc_DL_inter_band_EN_DC_FR2_2B_Class_A_E	
6	Inter-band EN-DC including FR2 BW Class Combination A_F (two bands)	36.101, 5.6A.1 38.101-3, 5.5B.5.1	pc_DL_inter_band_EN_DC_FR2_2B_Class_A_F	
7	Inter-band EN-DC including FR2 BW Class Combination A_G (two bands)	36.101, 5.6A.1 38.101-3, 5.5B.5.1	pc_DL_inter_band_EN_DC_FR2_2B_Class_A_G	
8	Inter-band EN-DC including FR2 BW Class Combination A_H (two bands)	36.101, 5.6A.1 38.101-3, 5.5B.5.1	pc_DL_inter_band_EN_DC_FR2_2B_Class_A_H	
9	Inter-band EN-DC including FR2 BW Class Combination A_I (two bands)	36.101, 5.6A.1 38.101-3, 5.5B.5.1	pc_DL_inter_band_EN_DC_FR2_2B_Class_A_I	
10	Inter-band EN-DC including FR2 BW Class Combination A_J (two bands)	36.101, 5.6A.1 38.101-3, 5.5B.5.1	pc_DL_inter_band_EN_DC_FR2_2B_Class_A_J	
11	Inter-band EN-DC including FR2 BW Class Combination A_K (two bands)	36.101, 5.6A.1 38.101-3, 5.5B.5.1	pc_DL_inter_band_EN_DC_FR2_2B_Class_A_K	
12	Inter-band EN-DC including FR2 BW Class Combination A_L (two bands)	36.101, 5.6A.1 38.101-3, 5.5B.5.1	pc_DL_inter_band_EN_DC_FR2_2B_Class_A_L	
13	Inter-band EN-DC including FR2 BW Class Combination A_M (two bands)	36.101, 5.6A.1 38.101-3, 5.5B.5.1	pc_DL_inter_band_EN_DC_FR2_2B_Class_A_M	
14	Inter-band EN-DC including FR2 BW Class Combination A_O (two bands)	36.101, 5.6A.1 38.101-3, 5.5B.5.1	pc_DL_inter_band_EN_DC_FR2_2B_Class_A_O	
15	Inter-band EN-DC including FR2 BW Class Combination A_P (two bands)	36.101, 5.6A.1 38.101-3, 5.5B.5.1	pc_DL_inter_band_EN_DC_FR2_2B_Class_A_P	
16	Inter-band EN-DC including FR2 BW Class Combination A_Q (two bands)	36.101, 5.6A.1 38.101-3, 5.5B.5.1	pc_DL_inter_band_EN_DC_FR2_2B_Class_A_Q	
17	Inter-band EN-DC including FR2 BW Class Combination (2A)_A (two bands)	36.101, 5.6A.1 38.101-3, 5.5B.5.1	pc_DL_inter_band_EN_DC_FR2_2B_Class_(2A)_A	
18	Inter-band EN-DC including FR2 BW Class Combination C_A (two bands)	36.101, 5.6A.1 38.101-3, 5.5B.5.1	pc_DL_inter_band_EN_DC_FR2_2B_Class_C_A	
19	Inter-band EN-DC including FR2 BW Class Combination C_E (two bands)	36.101, 5.6A.1 38.101-3, 5.5B.5.1	pc_DL_inter_band_EN_DC_FR2_2B_Class_C_E	
20	Inter-band EN-DC including FR2 BW Class Combination C_F (two bands)	36.101, 5.6A.1 38.101-3, 5.5B.5.1	pc_DL_inter_band_EN_DC_FR2_2B_Class_C_F	
21	Inter-band EN-DC including FR2 BW Class Combination D_A (two bands)	36.101, 5.6A.1 38.101-3, 5.5B.5.1	pc_DL_inter_band_EN_DC_FR2_2B_Class_D_A	

22	Inter-band EN-DC including FR2 BW Class Combination E_A (two bands)	36.101, 5.6A.1 38.101-3, 5.5B.5.1	c_DL_inter_band_ EN_DC_FR2_2B_ Class_E_A	

Table A.4.3.2B.2.3.6-1a: Uplink Bandwidth Class Combination capabilities for Inter-band EN-DC including FR2 and two bands (for one or more of the supported DC configurations in Table A.4.3.2B.2.3.6-2)

Item	UL inter-band EN-DC including FR2 Bandwidth Class	Ref.	Mnemonic	Comments
1	UL Inter-band EN-DC including FR2 BW Class Combination A_A (two bands)	36.101, 5.6A.1 38.101-3, 5.5B.5.1	pc_UL_inter_band _EN_DC_FR2_2B _Class_A_A	
2	UL Inter-band EN-DC including FR2 BW Class Combination A_D (two bands)	36.101, 5.6A.1 38.101-3, 5.5B.5.1	pc_UL_inter_band _EN_DC_FR2_2B _Class_A_D	
3	UL Inter-band EN-DC including FR2 BW Class Combination A_G (two bands)	36.101, 5.6A.1 38.101-3, 5.5B.5.1	pc_UL_inter_band _EN_DC_FR2_2B _Class_A_G	
4	UL Inter-band EN-DC including FR2 BW Class Combination A_H (two bands)	36.101, 5.6A.1 38.101-3, 5.5B.5.1	pc_UL_inter_band _EN_DC_FR2_2B _Class_A_H	
5	UL Inter-band EN-DC including FR2 BW Class Combination A_I (two bands)	36.101, 5.6A.1 38.101-3, 5.5B.5.1	pc_UL_inter_band _EN_DC_FR2_2B _Class_A_I	
6	UL Inter-band EN-DC including FR2 BW Class Combination A_J (two bands)	36.101, 5.6A.1 38.101-3, 5.5B.5.1	pc_UL_inter_band _EN_DC_FR2_2B _Class_A_J	
7	UL Inter-band EN-DC including FR2 BW Class Combination A_K (two bands)	36.101, 5.6A.1 38.101-3, 5.5B.5.1	pc_UL_inter_band _EN_DC_FR2_2B _Class_A_K	
8	UL Inter-band EN-DC including FR2 BW Class Combination A_L (two bands)	36.101, 5.6A.1 38.101-3, 5.5B.5.1	pc_UL_inter_band _EN_DC_FR2_2B _Class_A_L	
9	UL Inter-band EN-DC including FR2 BW Class Combination A_M (two bands)	36.101, 5.6A.1 38.101-3, 5.5B.5.1	pc_UL_inter_band _EN_DC_FR2_2B _Class_A_M	

Table A.4.3.2B.2.3.6-2: Supported Inter-band EN-DC configurations including FR2 (two bands)

EN-DC configuration / Item (Note 1, 3, 5)	Release	Supported	Supported EN-DC Bandwidth Class(es) in UL (Note 2, 4)
DC_1A_n257A	Rel-15		
DC_1A_n257G	Rel-16		
DC_1A_n257H	Rel-16		
DC_1A_n257I	Rel-16		
DC_1A_n257J	Rel-16		
DC_2A_n257A	Rel-15		
DC_2A_n260A	Rel-15		
DC_2A-2A_n260A	Rel-15		
DC_3A_n257A	Rel-15		
DC_3A_n257G	Rel-16		
DC_3A_n257H	Rel-16		
DC_3A_n257I	Rel-16		
DC_5A_n257A	Rel-15		
DC_5A_n260A	Rel-15		
DC_5A_n261A	Rel-15		
DC_7A_n257A	Rel-15		
DC_7A-7A_n257A	Rel-15		
DC_8A_n257A	Rel-15		
DC_12A_n260A	Rel-15		
DC_13A_n257A	Rel-15		
DC_14A_n260A	Rel-16		
DC_14A_n260G	Rel-16		
DC_14A_n260H	Rel-16		
DC_14A_n260I	Rel-16		
DC_19A_n257A	Rel-15		
DC_19A_n257G	Rel-16		
DC_19A_n257H	Rel-16		
DC_19A_n257I	Rel-16		
DC_20A_n257A	Rel-17		
DC_21A_n257A	Rel-15		
DC_21A_n257G	Rel-16		
DC_21A_n257H	Rel-16		
DC_21A_n257I	Rel-16		
DC_30A_n260A	Rel-15		
DC_66A-66A_n257A	Rel-15		
DC_66A_n260A	Rel-15		
DC_66A_n261A	Rel-15		
DC_66A_n261G	Rel-15		
DC_66A_n261H	Rel-15		
DC_66A_n261I	Rel-15		
DC_66A_n261J	Rel-15		
DC_66A_n261K	Rel-15		
DC_66A_n261L	Rel-15		
DC_66A_n261M	Rel-15		

Note 1: Notation used for inter-band EN-DC Bands is according to TS 38.101-3 [25] Table 5.5B.5.1-1, e.g. 'DC_1A_n257A' indicates EN-DC operation on E-UTRA band 1 with E-UTRA DL Bandwidth Class A and NR band n257 with NR DL CA Bandwidth Class A.
Note 2: See UL_*n*CC(*table_index*) in Note 2 of Table 4.0-3 in TS 38.522 [9].
Note 3: See DL_*n*CC(*table_index*) in Note 4 of Table 4.0-3 in TS 38.522 [9].
Note 4: See UL_NR_*n*CC(*table_index*) in Note 3 of Table 4.0-3 in TS 38.522 [9].
Note 5: See DL_NR_*n*CC(*table_index*) in Note 5 of Table 4.0-3 in TS 38.522 [9].

A.4.3.2B.2.3.7 Inter-band EN-DC including FR2 (three bands)

Table A.4.3.2B.2.3.7-1: Downlink Bandwidth Class Combination capabilities for Inter-band EN-DC including FR2 and three bands (for one or more of the supported DC configurations in Table A.4.3.2B.2.3.7-2)

Item	DL inter-band EN-DC including FR2 Bandwidth Class	Ref.	Mnemonic	Comments
1	Inter-band EN-DC including FR2 BW Class Combination A-A_A (three bands)	36.101, 5.6A.1 38.101-3, 5.5B.5.2	pc_DL_inter_band_EN_DC_FR2_3B_Class_A-A_A	
2	Inter-band EN-DC including FR2 BW Class Combination A-A_G (three bands)	36.101, 5.6A.1 38.101-3, 5.5B.5.2	pc_DL_inter_band_EN_DC_FR2_3B_Class_A-A_G	
3	Inter-band EN-DC including FR2 BW Class Combination A-A_H (three bands)	36.101, 5.6A.1 38.101-3, 5.5B.5.2	pc_DL_inter_band_EN_DC_FR2_3B_Class_A-A_H	
4	Inter-band EN-DC including FR2 BW Class Combination A-A_I (three bands)	36.101, 5.6A.1 38.101-3, 5.5B.5.2	pc_DL_inter_band_EN_DC_FR2_3B_Class_A-A_I	
5	Inter-band EN-DC including FR2 BW Class Combination A-C_A (three bands)	36.101, 5.6A.1 38.101-3, 5.5B.5.2	pc_DL_inter_band_EN_DC_FR2_3B_Class_A-C_A	
6	Inter-band EN-DC including FR2 BW Class Combination A-C_G (three bands)	36.101, 5.6A.1 38.101-3, 5.5B.5.2	pc_DL_inter_band_EN_DC_FR2_3B_Class_A-C_G	
7	Inter-band EN-DC including FR2 BW Class Combination A-C_H (three bands)	36.101, 5.6A.1 38.101-3, 5.5B.5.2	pc_DL_inter_band_EN_DC_FR2_3B_Class_A-C_H	
8	Inter-band EN-DC including FR2 BW Class Combination A-C_I (three bands)	36.101, 5.6A.1 38.101-3, 5.5B.5.2	pc_DL_inter_band_EN_DC_FR2_3B_Class_A-C_I	
9	Inter-band EN-DC including FR2 BW Class Combination A-D_A (three bands)	36.101, 5.6A.1 38.101-3, 5.5B.5.2	pc_DL_inter_band_EN_DC_FR2_3B_Class_A-D_A	
10	Inter-band EN-DC including FR2 BW Class Combination A-D_G (three bands)	36.101, 5.6A.1 38.101-3, 5.5B.5.2	pc_DL_inter_band_EN_DC_FR2_3B_Class_A-D_G	
11	Inter-band EN-DC including FR2 BW Class Combination A-D_H (three bands)	36.101, 5.6A.1 38.101-3, 5.5B.5.2	pc_DL_inter_band_EN_DC_FR2_3B_Class_A-D_H	
12	Inter-band EN-DC including FR2 BW Class Combination A-D_I (three bands)	36.101, 5.6A.1 38.101-3, 5.5B.5.2	pc_DL_inter_band_EN_DC_FR2_3B_Class_A-D_I	
13	Inter-band EN-DC including FR2 BW Class Combination A-E_A (three bands)	36.101, 5.6A.1 38.101-3, 5.5B.5.2	pc_DL_inter_band_EN_DC_FR2_3B_Class_A-E_A	
14	Inter-band EN-DC including FR2 BW Class Combination A-E_G (three bands)	36.101, 5.6A.1 38.101-3, 5.5B.5.2	pc_DL_inter_band_EN_DC_FR2_3B_Class_A-E_G	
15	Inter-band EN-DC including FR2 BW Class Combination A-E_H (three bands)	36.101, 5.6A.1 38.101-3, 5.5B.5.2	pc_DL_inter_band_EN_DC_FR2_3B_Class_A-E_H	
16	Inter-band EN-DC including FR2 BW Class Combination A-E_I (three bands)	36.101, 5.6A.1 38.101-3, 5.5B.5.2	pc_DL_inter_band_EN_DC_FR2_3B_Class_A-E_I	

Table A.4.3.2B.2.3.7-1a: Uplink Bandwidth Class Combination capabilities for Inter-band EN-DC including FR2 and three bands (for one or more of the supported DC configurations in Table A.4.3.2B.2.3.7-2)

Item	UL inter-band EN-DC including FR2 Bandwidth Class	Ref.	Mnemonic	Comments
1	UL Inter-band EN-DC including FR2 BW Class Combination A_A (three bands)	36.101, 5.6A.1 38.101-3, 5.5B.5.2	pc_UL_inter_band_EN_DC_FR2_3B_Class_A_A	
2	UL Inter-band EN-DC including FR2 BW Class Combination A_D (three bands)	36.101, 5.6A.1 38.101-3, 5.5B.5.2	pc_UL_inter_band_EN_DC_FR2_3B_Class_A_D	
3	UL Inter-band EN-DC including FR2 BW Class Combination A_G (three bands)	36.101, 5.6A.1 38.101-3, 5.5B.5.2	pc_UL_inter_band_EN_DC_FR2_3B_Class_A_G	
4	UL Inter-band EN-DC including FR2 BW Class Combination A_H (three bands)	36.101, 5.6A.1 38.101-3, 5.5B.5.2	pc_UL_inter_band_EN_DC_FR2_3B_Class_A_H	
5	UL Inter-band EN-DC including FR2 BW Class Combination A_I (three bands)	36.101, 5.6A.1 38.101-3, 5.5B.5.2	pc_UL_inter_band_EN_DC_FR2_3B_Class_A_I	
6	UL Inter-band EN-DC including FR2 BW Class Combination A_J (three bands)	36.101, 5.6A.1 38.101-3, 5.5B.5.2	pc_UL_inter_band_EN_DC_FR2_3B_Class_A_J	
7	UL Inter-band EN-DC including FR2 BW Class Combination A_K (three bands)	36.101, 5.6A.1 38.101-3, 5.5B.5.2	pc_UL_inter_band_EN_DC_FR2_3B_Class_A_K	
8	UL Inter-band EN-DC including FR2 BW Class Combination A_L (three bands)	36.101, 5.6A.1 38.101-3, 5.5B.5.2	pc_UL_inter_band_EN_DC_FR2_3B_Class_A_L	
9	UL Inter-band EN-DC including FR2 BW Class Combination A_M (three bands)	36.101, 5.6A.1 38.101-3, 5.5B.5.2	pc_UL_inter_band_EN_DC_FR2_3B_Class_A_M	

Table A.4.3.2B.2.3.7-2: Supported Inter-band EN-DC configurations including FR2 (three bands)

EN-DC configuration / Item (Note 1, 3, 5)	Release	Supported	Supported EN-DC Bandwidth Class(es) in UL (Note 2, 4)
DC_1A-3A_n257A	Rel-15		
DC_1A-3A_n257G	Rel-16		
DC_1A-3A_n257H	Rel-16		
DC_1A-3A_n257I	Rel-16		
DC_1A-19A_n257A	Rel-15		
DC_1A-19A_n257G	Rel-16		
DC_1A-19A_n257H	Rel-16		
DC_1A-19A_n257I	Rel-16		
DC_1A-21A_n257A	Rel-15		
DC_1A-21A_n257G	Rel-16		
DC_1A-21A_n257H	Rel-16		
DC_1A-21A_n257I	Rel-16		
DC_1A-42A_n257A	Rel-15		
DC_1A-42A_n257G	Rel-16		
DC_1A-42A_n257H	Rel-16		
DC_1A-42A_n257I	Rel-16		
DC_1A-42C_n257A	Rel-15		
DC_1A-42D_n257A	Rel-15		
DC_1A-42D_n257G	Rel-16		
DC_1A-42D_n257H	Rel-16		
DC_1A-42D_n257I	Rel-16		
DC_1A-42E_n257A	Rel-15		
DC_1A-42E_n257G	Rel-16		
DC_1A-42E_n257H	Rel-16		
DC_1A-42E_n257I	Rel-16		
DC_2A-2A-14A_n260A	Rel-16		
DC_2A-2A-14A_n260G	Rel-16		
DC_2A-2A-14A_n260H	Rel-16		
DC_2A-2A-14A_n260I	Rel-16		
DC_2A-2A-14A_n260J	Rel-16		
DC_2A-2A-14A_n260K	Rel-16		
DC_2A-2A-14A_n260L	Rel-16		
DC_2A-2A-14A_n260M	Rel-16		
DC_2A-5A_n257A	Rel-15		
DC_2A-5A_n260A	Rel-15		
DC_2A-12A_n260A	Rel-15		
DC_2A-14A_n260A	Rel-16		
DC_2A-14A_n260G	Rel-16		
DC_2A-14A_n260H	Rel-16		
DC_2A-14A_n260I	Rel-16		
DC_2A-14A_n260A	Rel-16		
DC_2A-30A_n260A	Rel-15		
DC_2A-66A_n257A	Rel-15		
DC_2A-66A_n260A	Rel-15		
DC_3A-19A_n257A	Rel-15		
DC_3A-19A_n257G	Rel-16		
DC_3A-19A_n257H	Rel-16		
DC_3A-19A_n257I	Rel-16		
DC_3A-21A_n257A	Rel-15		
DC_3A-21A_n257G	Rel-16		
DC_3A-21A_n257H	Rel-16		
DC_3A-21A_n257I	Rel-16		
DC_3A-42A_n257A	Rel-15		
DC_3A-42A_n257G	Rel-16		
DC_3A-42A_n257H	Rel-16		
DC_3A-42A_n257I	Rel-16		
DC_3A-42C_n257A	Rel-15		
DC_3A-42C_n257G	Rel-16		
DC_3A-42C_n257H	Rel-16		
DC_3A-42C_n257I	Rel-16		

DC_3A-42D_n257A	Rel-15		
DC_3A-42D_n257G	Rel-16		
DC_3A-42D_n257H	Rel-16		
DC_3A-42D_n257I	Rel-16		
DC_3A-42E_n257A	Rel-15		
DC_3A-42E_n257G	Rel-16		
DC_3A-42E_n257H	Rel-16		
DC_3A-42E_n257I	Rel-16		
DC_5A-7A_n257A	Rel-15		
DC_5A-30A_n260A	Rel-15		
DC_5A-66A_n257A	Rel-15		
DC_5A-66A_n260A	Rel-15		
DC_12A-30A_n260A	Rel-15		
DC_12A-66A_n260A	Rel-15		
DC_14A-30A_n260A	Rel-16		
DC_14A-30A_n260G	Rel-16		
DC_14A-30A_n260H	Rel-16		
DC_14A-30A_n260I	Rel-16		
DC_14A-30A_n260J	Rel-16		
DC_14A-30A_n260K	Rel-16		
DC_14A-30A_n260L	Rel-16		
DC_14A-30A_n260M	Rel-16		
DC_14A-66A_n260A	Rel-16		
DC_14A-66A_n260G	Rel-16		
DC_14A-66A_n260H	Rel-16		
DC_14A-66A_n260I	Rel-16		
DC_14A-66A_n260J	Rel-16		
DC_14A-66A_n260K	Rel-16		
DC_14A-66A_n260L	Rel-16		
DC_14A-66A_n260M	Rel-16		
DC_14A-66A-66A_n260A	Rel-16		
DC_14A-66A-66A_n260G	Rel-16		
DC_14A-66A-66A_n260H	Rel-16		
DC_14A-66A-66A_n260I	Rel-16		
DC_14A-66A-66A_n260J	Rel-16		
DC_14A-66A-66A_n260K	Rel-16		
DC_14A-66A-66A_n260L	Rel-16		
DC_14A-66A-66A_n260M	Rel-16		
DC_19A-21A_n257A	Rel-15		
DC_19A-21A_n257G	Rel-16		
DC_19A-21A_n257H	Rel-16		
DC_19A-21A_n257I	Rel-16		
DC_19A-42A_n257A	Rel-15		
DC_19A-42A_n257G	Rel-16		
DC_19A-42A_n257H	Rel-16		
DC_19A-42A_n257I	Rel-16		
DC_19A-42C_n257A	Rel-15		
DC_19A-42C_n257G	Rel-16		
DC_19A-42C_n257H	Rel-16		
DC_19A-42C_n257I	Rel-16		
DC_21A-42A_n257A	Rel-15		
DC_21A-42A_n257G	Rel-16		
DC_21A-42A_n257H	Rel-16		
DC_21A-42A_n257I	Rel-16		
DC_21A-42C_n257A	Rel-15		
DC_21A-42C_n257G	Rel-16		
DC_21A-42C_n257H	Rel-16		
DC_21A-42C_n257I	Rel-16		

Note 1:	Notation used for inter-band EN-DC Bands is according to TS 38.101-3 [25] Table 5.5B.5.2-1, e.g. 'DC_1A-3A_n257A' indicates EN-DC operation on E-UTRA CA configuration CA_1A-3A with E-UTRA DL Bandwidth Class A for both the E-UTRA bands 1 and 3 and NR band n257 with NR DL CA Bandwidth Class A.
Note 2:	See UL_*n*CC(*table_index*) in Note 2 of Table 4.0-3 in TS 38.522 [9].
Note 3:	See DL_*n*CC(*table_index*) in Note 4 of Table 4.0-3 in TS 38.522 [9].
Note 4:	See UL_NR_*n*CC(*table_index*) in Note 3 of Table 4.0-3 in TS 38.522 [9].
Note 5:	See DL_NR_*n*CC(*table_index*) in Note 5 of Table 4.0-3 in TS 38.522 [9].

A.4.3.2B.2.3.8 Inter-band EN-DC including FR2 (four bands)

Table A.4.3.2B.2.3.8-1: Downlink Bandwidth Class Combination capabilities for Inter-band EN-DC including FR2 and four bands (for one or more of the supported DC configurations in Table A.4.3.2B.2.3.8-2)

Item	DL inter-band EN-DC including FR2 Bandwidth Class	Ref.	Mnemonic	Comments
1	Inter-band EN-DC including FR2 BW Class Combination A-A-A_A (four bands)	36.101, 5.6A.1 38.101-3, 5.5B.5.3	pc_DL_inter_band_EN_DC_FR2_4B_Class_A-A-A_A	
2	Inter-band EN-DC including FR2 BW Class Combination A-A-A_G (four bands)	36.101, 5.6A.1 38.101-3, 5.5B.5.3	pc_DL_inter_band_EN_DC_FR2_4B_Class_A-A-A_G	
3	Inter-band EN-DC including FR2 BW Class Combination A-A-A_H (four bands)	36.101, 5.6A.1 38.101-3, 5.5B.5.3	pc_DL_inter_band_EN_DC_FR2_4B_Class_A-A-A_H	
4	Inter-band EN-DC including FR2 BW Class Combination A-A-A_I (four bands)	36.101, 5.6A.1 38.101-3, 5.5B.5.3	pc_DL_inter_band_EN_DC_FR2_4B_Class_A-A-A_I	
5	Inter-band EN-DC including FR2 BW Class Combination A-A-C_A (four bands)	36.101, 5.6A.1 38.101-3, 5.5B.5.3	pc_DL_inter_band_EN_DC_FR2_4B_Class_A-A-C_A	
6	Inter-band EN-DC including FR2 BW Class Combination A-A-C_G (four bands)	36.101, 5.6A.1 38.101-3, 5.5B.5.3	pc_DL_inter_band_EN_DC_FR2_4B_Class_A-A-C_G	
7	Inter-band EN-DC including FR2 BW Class Combination A-A-C_H (four bands)	36.101, 5.6A.1 38.101-3, 5.5B.5.3	pc_DL_inter_band_EN_DC_FR2_4B_Class_A-A-C_H	
8	Inter-band EN-DC including FR2 BW Class Combination A-A-C_I (four bands)	36.101, 5.6A.1 38.101-3, 5.5B.5.3	pc_DL_inter_band_EN_DC_FR2_4B_Class_A-A-C_I	
9	Inter-band EN-DC including FR2 BW Class Combination A-A-D_G (four bands)	36.101, 5.6A.1 38.101-3, 5.5B.5.3	pc_DL_inter_band_EN_DC_FR2_4B_Class_A-A-D_G	
10	Inter-band EN-DC including FR2 BW Class Combination A-A-D_H (four bands)	36.101, 5.6A.1 38.101-3, 5.5B.5.3	pc_DL_inter_band_EN_DC_FR2_4B_Class_A-A-D_H	
11	Inter-band EN-DC including FR2 BW Class Combination A-A-D_I (four bands)	36.101, 5.6A.1 38.101-3, 5.5B.5.3	pc_DL_inter_band_EN_DC_FR2_4B_Class_A-A-D_I	
12	Inter-band EN-DC including FR2 BW Class Combination A-A-A_J (four bands)	36.101, 5.6A.1 38.101-3, 5.5B.5.3	pc_DL_inter_band_EN_DC_FR2_4B_Class_A-A-A_J	
13	Inter-band EN-DC including FR2 BW Class Combination A-A-A_K (four bands)	36.101, 5.6A.1 38.101-3, 5.5B.5.3	pc_DL_inter_band_EN_DC_FR2_4B_Class_A-A-A_K	
14	Inter-band EN-DC including FR2 BW Class Combination A-A-A_L (four bands)	36.101, 5.6A.1 38.101-3, 5.5B.5.3	pc_DL_inter_band_EN_DC_FR2_4B_Class_A-A-A_L	
15	Inter-band EN-DC including FR2 BW Class Combination A-A-A_M (four bands)	36.101, 5.6A.1 38.101-3, 5.5B.5.3	pc_DL_inter_band_EN_DC_FR2_4B_Class_A-A-A_M	

Table A.4.3.2B.2.3.8-1a: Uplink Bandwidth Class Combination capabilities for Inter-band EN-DC including FR2 and four bands (for one or more of the supported DC configurations in Table A.4.3.2B.2.3.8-2)

Item	UL inter-band EN-DC including FR2 Bandwidth Class	Ref.	Mnemonic	Comments
1	UL Inter-band EN-DC including FR2 BW Class Combination A_A (four bands)	36.101, 5.6A.1 38.101-3, 5.5B.5.3	pc_UL_inter_band_EN_DC_FR2_4B_Class_A_A	
2	UL Inter-band EN-DC including FR2 BW Class Combination A_D (four bands)	36.101, 5.6A.1 38.101-3, 5.5B.5.3	pc_UL_inter_band_EN_DC_FR2_4B_Class_A_D	
3	UL Inter-band EN-DC including FR2 BW Class Combination A_G (four bands)	36.101, 5.6A.1 38.101-3, 5.5B.5.3	pc_UL_inter_band_EN_DC_FR2_4B_Class_A_G	
4	UL Inter-band EN-DC including FR2 BW Class Combination A_H (four bands)	36.101, 5.6A.1 38.101-3, 5.5B.5.3	pc_UL_inter_band_EN_DC_FR2_4B_Class_A_H	
5	UL Inter-band EN-DC including FR2 BW Class Combination A_I (four bands)	36.101, 5.6A.1 38.101-3, 5.5B.5.3	pc_UL_inter_band_EN_DC_FR2_4B_Class_A_I	
6	UL Inter-band EN-DC including FR2 BW Class Combination A_J (four bands)	36.101, 5.6A.1 38.101-3, 5.5B.5.3	pc_UL_inter_band_EN_DC_FR2_4B_Class_A_J	
7	UL Inter-band EN-DC including FR2 BW Class Combination A_K (four bands)	36.101, 5.6A.1 38.101-3, 5.5B.5.3	pc_UL_inter_band_EN_DC_FR2_4B_Class_A_K	
8	UL Inter-band EN-DC including FR2 BW Class Combination A_L (four bands)	36.101, 5.6A.1 38.101-3, 5.5B.5.3	pc_UL_inter_band_EN_DC_FR2_4B_Class_A_L	
9	UL Inter-band EN-DC including FR2 BW Class Combination A_M (four bands)	36.101, 5.6A.1 38.101-3, 5.5B.5.3	pc_UL_inter_band_EN_DC_FR2_4B_Class_A_M	

Table A.4.3.2B.2.3.8-2: Supported Inter-band EN-DC configurations including FR2 (four bands)

EN-DC configuration / Item (Note 1, 3, 5)	Release	Supported	Supported EN-DC Bandwidth Class(es) in UL (Note 2, 4)
DC_1A-3A-19A_n257A	Rel-15		
DC_1A-3A-19A_n257G	Rel-16		
DC_1A-3A-19A_n257H	Rel-16		
DC_1A-3A-19A_n257I	Rel-16		
DC_1A-3A-21A_n257A	Rel-15		
DC_1A-3A-21A_n257G	Rel-16		
DC_1A-3A-21A_n257H	Rel-16		
DC_1A-3A-21A_n257I	Rel-16		
DC_1A-3A-42A_n257A	Rel-15		
DC_1A-3A-42A_n257G	Rel-16		
DC_1A-3A-42A_n257H	Rel-16		
DC_1A-3A-42A_n257I	Rel-16		
DC_1A-3A-42C_n257A	Rel-15		
DC_1A-3A-42C_n257G	Rel-16		
DC_1A-3A-42C_n257H	Rel-16		
DC_1A-3A-42C_n257I	Rel-16		
DC_1A-3A-42D_n257A	Rel-16		
DC_1A-3A-42D_n257G	Rel-16		
DC_1A-3A-42D_n257H	Rel-16		
DC_1A-3A-42D_n257I	Rel-16		
DC_1A-19A-21A_n257A	Rel-15		
DC_1A-19A-21A_n257G	Rel-16		
DC_1A-19A-21A_n257H	Rel-16		
DC_1A-19A-21A_n257I	Rel-16		
DC_1A-19A-42A_n257A	Rel-15		
DC_1A-19A-42A_n257G	Rel-16		
DC_1A-19A-42A_n257H	Rel-16		
DC_1A-19A-42A_n257I	Rel-16		
DC_1A-19A-42C_n257A	Rel-15		
DC_1A-19A-42C_n257G	Rel-16		
DC_1A-19A-42C_n257H	Rel-16		
DC_1A-19A-42C_n257I	Rel-16		
DC_1A-21A-42A_n257A	Rel-15		
DC_1A-21A-42A_n257G	Rel-16		
DC_1A-21A-42A_n257H	Rel-16		
DC_1A-21A-42A_n257I	Rel-16		
DC_1A-21A-42C_n257A	Rel-15		
DC_1A-21A-42C_n257G	Rel-16		
DC_1A-21A-42C_n257H	Rel-16		
DC_1A-21A-42C_n257I	Rel-16		
DC_2A-2A-14A-66A_n260A	Rel-16		
DC_2A-2A-14A-66A_n260G	Rel-16		
DC_2A-2A-14A-66A_n260H	Rel-16		
DC_2A-2A-14A-66A_n260I	Rel-16		
DC_2A-2A-14A-66A_n260J	Rel-16		
DC_2A-2A-14A-66A_n260K	Rel-16		
DC_2A-2A-14A-66A_n260L	Rel-16		
DC_2A-2A-14A-66A_n260M	Rel-16		
DC_2A-14A-30A_n260A	Rel-16		
DC_2A-14A-30A_n260G	Rel-16		
DC_2A-14A-30A_n260H	Rel-16		
DC_2A-14A-30A_n260I	Rel-16		
DC_2A-14A-30A_n260J	Rel-16		
DC_2A-14A-30A_n260K	Rel-16		
DC_2A-14A-30A_n260L	Rel-16		
DC_2A-14A-30A_n260M	Rel-16		
DC_2A-14A-66A_n260A	Rel-16		
DC_2A-14A-66A_n260G	Rel-16		
DC_2A-14A-66A_n260H	Rel-16		
DC_2A-14A-66A_n260I	Rel-16		

DC_2A-14A-66A_n260J	Rel-16		
DC_2A-14A-66A_n260K	Rel-16		
DC_2A-14A-66A_n260L	Rel-16		
DC_2A-14A-66A_n260M	Rel-16		
DC_2A-14A-66A-66A_n260A	Rel-16		
DC_2A-14A-66A-66A_n260G	Rel-16		
DC_2A-14A-66A-66A_n260H	Rel-16		
DC_2A-14A-66A-66A_n260I	Rel-16		
DC_2A-14A-66A-66A_n260J	Rel-16		
DC_2A-14A-66A-66A_n260K	Rel-16		
DC_2A-14A-66A-66A_n260L	Rel-16		
DC_2A-14A-66A-66A_n260M	Rel-16		
DC_3A-19A-21A_n257A	Rel-15		
DC_3A-19A-42A_n257A	Rel-15		
DC_3A-19A-42A_n257G	Rel-16		
DC_3A-19A-42A_n257H	Rel-16		
DC_3A-19A-42A_n257I	Rel-16		
DC_3A-19A-42C_n257A	Rel-15		
DC_3A-19A-42C_n257G	Rel-16		
DC_3A-19A-42C_n257H	Rel-16		
DC_3A-19A-42C_n257I	Rel-16		
DC_3A-21A-42A_n257A	Rel-15		
DC_3A-21A-42A_n257G	Rel-16		
DC_3A-21A-42A_n257H	Rel-16		
DC_3A-21A-42A_n257I	Rel-16		
DC_3A-21A-42C_n257A	Rel-15		
DC_3A-21A-42C_n257G	Rel-16		
DC_3A-21A-42C_n257H	Rel-16		
DC_3A-21A-42C_n257I	Rel-16		
DC_14A-30A-66A_n260A	Rel-16		
DC_14A-30A-66A_n260G	Rel-16		
DC_14A-30A-66A_n260H	Rel-16		
DC_14A-30A-66A_n260I	Rel-16		
DC_14A-30A-66A_n260J	Rel-16		
DC_14A-30A-66A_n260K	Rel-16		
DC_14A-30A-66A_n260L	Rel-16		
DC_14A-30A-66A_n260M	Rel-16		
DC_14A-30A-66A-66A_n260A	Rel-16		
DC_14A-30A-66A-66A_n260G	Rel-16		
DC_14A-30A-66A-66A_n260H	Rel-16		
DC_14A-30A-66A-66A_n260I	Rel-16		
DC_14A-30A-66A-66A_n260J	Rel-16		
DC_14A-30A-66A-66A_n260K	Rel-16		
DC_14A-30A-66A-66A_n260L	Rel-16		
DC_14A-30A-66A-66A_n260M	Rel-16		
DC_19A-21A-42A_n257A	Rel-15		
DC_19A-21A-42A_n257G	Rel-16		
DC_19A-21A-42A_n257H	Rel-16		
DC_19A-21A-42A_n257I	Rel-16		
DC_19A-21A-42C_n257A	Rel-15		
DC_19A-21A-42C_n257G	Rel-16		
DC_19A-21A-42C_n257H	Rel-16		
DC_19A-21A-42C_n257I	Rel-16		

Note 1:	Notation used for inter-band EN-DC Bands is according to TS 38.101-3 [25] Table 5.5B.5.3-1, e.g. 'DC_1A-3A-19A_n257A' indicates EN-DC operation on E-UTRA CA configuration CA_1A-3A-19A with E.UTRA DL Bandwidth Class A for all the E-UTRA bands 1, 3 and 19 and NR band n257 with NR DL CA Bandwidth Class A.
Note 2:	See UL_*n*CC(*table_index*) in Note 2 of Table 4.0-3 in TS 38.522 [9].
Note 3:	See DL_*n*CC(*table_index*) in Note 4 of Table 4.0-3 in TS 38.522 [9].
Note 4:	See UL_NR_*n*CC(*table_index*) in Note 3 of Table 4.0-3 in TS 38.522 [9].
Note 5:	See DL_NR_*n*CC(*table_index*) in Note 5 of Table 4.0-3 in TS 38.522 [9].

A.4.3.2B.2.3.9 Inter-band EN-DC including FR2 (five bands)

Table A.4.3.2B.2.3.9-1: Downlink Bandwidth Class Combination capabilities for Inter-band EN-DC including FR2 and five bands (for one or more of the supported DC configurations in Table A.4.3.2B.2.3.9-2)

Item	DL inter-band EN-DC including FR2 Bandwidth Class	Ref.	Mnemonic	Comments
1	Inter-band EN-DC including FR2 BW Class Combination A-A-A-A_A (five bands)	36.101, 5.6A.1 38.101-3, 5.5B.5.4	pc_DL_inter_band_EN_DC_FR2_5B_Class_A-A-A-A_A	
2	Inter-band EN-DC including FR2 BW Class Combination A-A-A-A_G (five bands)	36.101, 5.6A.1 38.101-3, 5.5B.5.4	pc_DL_inter_band_EN_DC_FR2_5B_Class_A-A-A-A_G	
3	Inter-band EN-DC including FR2 BW Class Combination A-A-A-A_H (five bands)	36.101, 5.6A.1 38.101-3, 5.5B.5.4	pc_DL_inter_band_EN_DC_FR2_5B_Class_A-A-A-A_H	
4	Inter-band EN-DC including FR2 BW Class Combination A-A-A-A_I (five bands)	36.101, 5.6A.1 38.101-3, 5.5B.5.4	pc_DL_inter_band_EN_DC_FR2_5B_Class_A-A-A-A_I	
5	Inter-band EN-DC including FR2 BW Class Combination A-A-A-C_A (five bands)	36.101, 5.6A.1 38.101-3, 5.5B.5.4	pc_DL_inter_band_EN_DC_FR2_5B_Class_A-A-A-C_A	
6	Inter-band EN-DC including FR2 BW Class Combination A-A-A-C_G (five bands)	36.101, 5.6A.1 38.101-3, 5.5B.5.4	pc_DL_inter_band_EN_DC_FR2_5B_Class_A-A-A-C_G	
7	Inter-band EN-DC including FR2 BW Class Combination A-A-A-C_H (five bands)	36.101, 5.6A.1 38.101-3, 5.5B.5.4	pc_DL_inter_band_EN_DC_FR2_5B_Class_A-A-A-C_H	
8	Inter-band EN-DC including FR2 BW Class Combination A-A-A-C_I (five bands)	36.101, 5.6A.1 38.101-3, 5.5B.5.4	pc_DL_inter_band_EN_DC_FR2_5B_Class_A-A-A-C_I	
9	Inter-band EN-DC including FR2 BW Class Combination A-A-A-A_J (five bands)	36.101, 5.6A.1 38.101-3, 5.5B.5.4	pc_DL_inter_band_EN_DC_FR2_5B_Class_A-A-A-A_J	
10	Inter-band EN-DC including FR2 BW Class Combination A-A-A-A_K (five bands)	36.101, 5.6A.1 38.101-3, 5.5B.5.4	pc_DL_inter_band_EN_DC_FR2_5B_Class_A-A-A-A_K	
11	Inter-band EN-DC including FR2 BW Class Combination A-A-A-A_L (five bands)	36.101, 5.6A.1 38.101-3, 5.5B.5.4	pc_DL_inter_band_EN_DC_FR2_5B_Class_A-A-A-A_L	
12	Inter-band EN-DC including FR2 BW Class Combination A-A-A-A_M (five bands)	36.101, 5.6A.1 38.101-3, 5.5B.5.4	pc_DL_inter_band_EN_DC_FR2_5B_Class_A-A-A-A_M	

Table A.4.3.2B.2.3.9-1a: Uplink Bandwidth Class Combination capabilities for Inter-band EN-DC including FR2 and five bands (for one or more of the supported DC configurations in Table A.4.3.2B.2.3.9-2)

Item	UL inter-band EN-DC including FR2 Bandwidth Class	Ref.	Mnemonic	Comments
1	Inter-band EN-DC including FR2 BW Class Combination A_A (five bands)	36.101, 5.6A.1 38.101-3, 5.5B.5.4	pc_UL_inter_band_EN_DC_FR2_5B_Class_A_A	
2	Inter-band EN-DC including FR2 BW Class Combination A_D (five bands)	36.101, 5.6A.1 38.101-3, 5.5B.5.4	pc_UL_inter_band_EN_DC_FR2_5B_Class_A_D	
3	Inter-band EN-DC including FR2 BW Class Combination A_G (five bands)	36.101, 5.6A.1 38.101-3, 5.5B.5.4	pc_UL_inter_band_EN_DC_FR2_5B_Class_A_G	
4	Inter-band EN-DC including FR2 BW Class Combination A_H (five bands)	36.101, 5.6A.1 38.101-3, 5.5B.5.4	pc_UL_inter_band_EN_DC_FR2_5B_Class_A_H	
5	Inter-band EN-DC including FR2 BW Class Combination A_I (five bands)	36.101, 5.6A.1 38.101-3, 5.5B.5.4	pc_UL_inter_band_EN_DC_FR2_5B_Class_A_I	
6	Inter-band EN-DC including FR2 BW Class Combination A_J (five bands)	36.101, 5.6A.1 38.101-3, 5.5B.5.4	pc_UL_inter_band_EN_DC_FR2_5B_Class_A_J	
7	Inter-band EN-DC including FR2 BW Class Combination A_K (five bands)	36.101, 5.6A.1 38.101-3, 5.5B.5.4	pc_UL_inter_band_EN_DC_FR2_5B_Class_A_K	
8	Inter-band EN-DC including FR2 BW Class Combination A_L (five bands)	36.101, 5.6A.1 38.101-3, 5.5B.5.4	pc_UL_inter_band_EN_DC_FR2_5B_Class_A_L	
9	Inter-band EN-DC including FR2 BW Class Combination A_M (five bands)	36.101, 5.6A.1 38.101-3, 5.5B.5.4	pc_UL_inter_band_EN_DC_FR2_5B_Class_A_M	
10	Inter-band EN-DC including FR2 BW Class Combination C_A (five bands)	36.101, 5.6A.1 38.101-3, 5.5B.5.4	pc_UL_inter_band_EN_DC_FR2_5B_Class_C_A	
11	Inter-band EN-DC including FR2 BW Class Combination C_G (five bands)	36.101, 5.6A.1 38.101-3, 5.5B.5.4	pc_UL_inter_band_EN_DC_FR2_5B_Class_C_G	
12	Inter-band EN-DC including FR2 BW Class Combination C_H (five bands)	36.101, 5.6A.1 38.101-3, 5.5B.5.4	pc_UL_inter_band_EN_DC_FR2_5B_Class_C_H	
13	Inter-band EN-DC including FR2 BW Class Combination C_I (five bands)	36.101, 5.6A.1 38.101-3, 5.5B.5.4	pc_UL_inter_band_EN_DC_FR2_5B_Class_C_I	

Table A.4.3.2B.2.3.9-2: Supported Inter-band EN-DC configurations including FR2 (five bands)

EN-DC configuration / Item (Note 1, 3, 5)	Release	Supported	Supported EN-DC Bandwidth Class(es) in UL (Note 2, 4)
DC_1A-3A-19A-42A_n257A	Rel-15		
DC_1A-3A-19A-42A_n257G	Rel-16		
DC_1A-3A-19A-42C_n257A	Rel-15		
DC_1A-3A-19A-42C_n257G	Rel-16		
DC_1A-3A-19A-42C_n257H	Rel-16		
DC_1A-3A-19A-42C_n257I	Rel-16		
DC_1A-3A-21A-42A_n257A	Rel-15		
DC_1A-3A-21A-42C_n257A	Rel-15		
DC_1A-3A-21A-42C_n257G	Rel-16		
DC_1A-3A-21A-42C_n257H	Rel-16		
DC_1A-3A-21A-42C_n257I	Rel-16		
DC_1A-19A-21A-42A_n257A	Rel-15		
DC_1A-19A-21A-42A_n257G	Rel-16		
DC_1A-19A-21A-42A_n257H	Rel-16		
DC_1A-19A-21A-42A_n257I	Rel-16		
DC_1A-19A-21A-42C_n257A	Rel-15		
DC_1A-19A-21A-42C_n257G	Rel-16		
DC_1A-19A-21A-42C_n257H	Rel-16		
DC_1A-19A-21A-42C_n257I	Rel-16		
DC_2A-14A-30A-66A_n260A	Rel-16		
DC_2A-14A-30A-66A_n260G	Rel-16		
DC_2A-14A-30A-66A_n260H	Rel-16		
DC_2A-14A-30A-66A_n260I	Rel-16		
DC_2A-14A-30A-66A_n260J	Rel-16		
DC_2A-14A-30A-66A_n260K	Rel-16		
DC_2A-14A-30A-66A_n260L	Rel-16		
DC_2A-14A-30A-66A_n260M	Rel-16		

Note 1: Notation used for inter-band EN-DC Bands is according to TS 38.101-3 [25] Table 5.5B.5.4-1, e.g. 'DC_1A-3A-19A-42A_n257A' indicates EN-DC operation on E-UTRA CA configuration CA_1A-3A-19A-42A with E-UTRA DL Bandwidth Class A for all the E-UTRA bands 1, 3, 19 and 42 and NR band n257 with NR DL CA Bandwidth Class A.
Note 2: See UL_*n*CC(*table_index*) in Note 2 of Table 4.0-3 in TS 38.522 [9].
Note 3: See DL_*n*CC(*table_index*) in Note 4 of Table 4.0-3 in TS 38.522 [9].
Note 4: See UL_NR_*n*CC(*table_index*) in Note 3 of Table 4.0-3 in TS 38.522 [9].
Note 5: See DL_NR_*n*CC(*table_index*) in Note 5 of Table 4.0-3 in TS 38.522 [9].

A.4.3.2B.2.3.10 Void

A.4.3.2B.2.3.11 Inter-band EN-DC including FR1 and FR2 (three bands)

Table A.4.3.2B.2.3.11-1: Downlink Bandwidth Class Combination capabilities for Inter-band EN-DC including FR1 and FR2, and three bands (for one or more of the supported DC configurations in Table A.4.3.2B.2.3.11-2)

Item	DL inter-band EN-DC including FR1 and FR2 Bandwidth Class	Ref.	Mnemonic	Comments
1	Inter-band EN-DC including FR1 and FR2 BW Class Combination A_A-A (three bands)	36.101, 5.6A.1 38.101-1, 5.3A.5 38.101-2, 5.3A.4 38.101-3, 5.5B.6.2	pc_DL_inter_band_EN_DC_FR1_FR2_3B_Class_A_A-A	

Table A.4.3.2B.2.3.11-1a: Uplink Bandwidth Class Combination capabilities for Inter-band EN-DC including FR1 and FR2, and three bands (for one or more of the supported DC configurations in Table A.4.3.2B.2.3.11-2)

Item	UL inter-band EN-DC including FR1 and FR2 Bandwidth Class	Ref.	Mnemonic	Comments
1	UL Inter-band EN-DC including FR1 and FR2 BW Class Combination A_A (three bands)	36.101, 5.6A.1 38.101-1, 5.3A.5 38.101-2, 5.3A.4 38.101-3, 5.5B.6.2	pc_UL_inter_band_EN_DC_FR1_FR2_3B_Class_A_A	

Table A.4.3.2B.2.3.11-2: Supported Inter-band EN-DC configurations including FR1 and FR2 (three bands)

EN-DC configuration / Item	Release	Supported	Supported EN-DC Bandwidth Class(es) in UL
DC_1A_n78A-n257A	Rel-15		
DC_1A_n79A-n257A	Rel-15		
DC_3A_n78A-n257A	Rel-15		
DC_3A_n79A-n257A	Rel-15		
DC_19A_n78A-n257A	Rel-15		
DC_19A_n79A-n257A	Rel-15		
Note 1: Notation used for inter-band EN-DC Bands is according to TS 38.101-3 [25] Table 5.5B.6.2-1, e.g. 'DC_1A_n78A-n257A' indicates EN-DC operation on E-UTRA band 1 with E-UTRA DL Bandwidth Class A and NR CA configuration CA_n78A-n257A on NR band n78 and n257 both with NR DL CA Bandwidth Class A.			

A.4.3.2B.2.3.12 Inter-band EN-DC including FR1 and FR2 (four bands)

Table A.4.3.2B.2.3.12-1: Downlink Bandwidth Class Combination capabilities for Inter-band EN-DC including FR1 and FR2, and four bands (for one or more of the supported DC configurations in Table A.4.3.2B.2.3.12-2)

Item	DL inter-band EN-DC including FR1 and FR2 Bandwidth Class	Ref.	Mnemonic	Comments
1	Inter-band EN-DC including FR1 and FR2 BW Class Combination A-A_A-A (four bands)	36.101, 5.6A.1 38.101-1, 5.3A.5 38.101-2, 5.3A.4 38.101-3, 5.5B.6.3	pc_DL_inter_band_EN_DC_FR1_FR2_4B_Class_A-A_A-A	
2	Inter-band EN-DC including FR1 and FR2 BW Class Combination A-A_A-G (four bands)	36.101, 5.6A.1 38.101-1, 5.3A.5 38.101-2, 5.3A.4 38.101-3, 5.5B.6.3	pc_DL_inter_band_EN_DC_FR1_FR2_4B_Class_A-A_A-G	
3	Inter-band EN-DC including FR1 and FR2 BW Class Combination A-A_A-H (four bands)	36.101, 5.6A.1 38.101-1, 5.3A.5 38.101-2, 5.3A.4 38.101-3, 5.5B.6.3	pc_DL_inter_band_EN_DC_FR1_FR2_4B_Class_A-A_A-H	
4	Inter-band EN-DC including FR1 and FR2 BW Class Combination A-A_A-I (four bands)	36.101, 5.6A.1 38.101-1, 5.3A.5 38.101-2, 5.3A.4 38.101-3, 5.5B.6.3	pc_DL_inter_band_EN_DC_FR1_FR2_4B_Class_A-A_A-I	

Table A.4.3.2B.2.3.12-1a: Uplink Bandwidth Class Combination capabilities for Inter-band EN-DC including FR1 and FR2, and four bands (for one or more of the supported DC configurations in Table A.4.3.2B.2.3.12-2)

Item	UL inter-band EN-DC including FR1 and FR2 Bandwidth Class	Ref.	Mnemonic	Comments
1	UL Inter-band EN-DC including FR1 and FR2 BW Class Combination A_A (four bands)	36.101, 5.6A.1 38.101-1, 5.3A.5 38.101-2, 5.3A.4 38.101-3, 5.5B.6.3	pc_UL_inter_band_EN_DC_FR1_FR2_4B_Class_A_A	
2	UL Inter-band EN-DC including FR1 and FR2 BW Class Combination A_G (four bands)	36.101, 5.6A.1 38.101-1, 5.3A.5 38.101-2, 5.3A.4 38.101-3, 5.5B.6.3	pc_UL_inter_band_EN_DC_FR1_FR2_4B_Class_A_G	
3	UL Inter-band EN-DC including FR1 and FR2 BW Class Combination A_H (four bands)	36.101, 5.6A.1 38.101-1, 5.3A.5 38.101-2, 5.3A.4 38.101-3, 5.5B.6.3	pc_UL_inter_band_EN_DC_FR1_FR2_4B_Class_A_H	
4	UL Inter-band EN-DC including FR1 and FR2 BW Class Combination A_I (four bands)	36.101, 5.6A.1 38.101-1, 5.3A.5 38.101-2, 5.3A.4 38.101-3, 5.5B.6.3	pc_UL_inter_band_EN_DC_FR1_FR2_4B_Class_A_I	
5	UL Inter-band EN-DC including FR1 and FR2 BW Class Combination A_A-A (four bands)	36.101, 5.6A.1 38.101-1, 5.3A.5 38.101-2, 5.3A.4 38.101-3, 5.5B.6.3	pc_UL_inter_band_EN_DC_FR1_FR2_4B_Class_A_A-A	
6	UL Inter-band EN-DC including FR1 and FR2 BW Class Combination A_A-G (four bands)	36.101, 5.6A.1 38.101-1, 5.3A.5 38.101-2, 5.3A.4 38.101-3, 5.5B.6.3	pc_UL_inter_band_EN_DC_FR1_FR2_4B_Class_A_A-G	
7	UL Inter-band EN-DC including FR1 and FR2 BW Class Combination A_A-H (four bands)	36.101, 5.6A.1 38.101-1, 5.3A.5 38.101-2, 5.3A.4 38.101-3, 5.5B.6.3	pc_UL_inter_band_EN_DC_FR1_FR2_4B_Class_A_A-H	
8	UL Inter-band EN-DC including FR1 and FR2 BW Class Combination A_A-I (four bands)	36.101, 5.6A.1 38.101-1, 5.3A.5 38.101-2, 5.3A.4 38.101-3, 5.5B.6.3	pc_UL_inter_band_EN_DC_FR1_FR2_4B_Class_A_A-I	

Table A.4.3.2B.2.3.12-2: Supported Inter-band EN-DC configurations including FR1 and FR2 (four bands)

EN-DC configuration / Item	Release	Supported	Supported EN-DC Bandwidth Class(es) in UL
DC_1A-3A_n78A-n257A	Rel-15		
DC_1A-3A_n78A-n257G	Rel-16		
DC_1A-3A_n78A-n257H	Rel-16		
DC_1A-3A_n78A-n257I	Rel-16		
Note 1: Notation used for inter-band EN-DC Bands is according to TS 38.101-3 [25] Table 5.5B.6.3-1, e.g. 'DC_1A-3A_n78A-n257G' indicates EN-DC operation on E-UTRA CA configuration CA_1A-3A with E-UTRA DL Bandwidth Class A for all the E-UTRA bands 1 and 3 and NR bands n78 and n257 with NR DL CA Bandwidth Class A and G respectively.			

A.4.3.2B.2.3.13 Inter-band EN-DC including FR1 and FR2 (five bands)

Table A.4.3.2B.2.3.13-1: Downlink Bandwidth Class Combination capabilities for Inter-band EN-DC including FR1 and FR2, and five bands (for one or more of the supported DC configurations in Table A.4.3.2B.2.3.13-2)

Item	DL inter-band EN-DC including FR1 and FR2 Bandwidth Class	Ref.	Mnemonic	Comments
1	TBD	TBD	TBD	

Table A.4.3.2B.2.3.13-1a: Uplink Bandwidth Class Combination capabilities for Inter-band EN-DC including FR1 and FR2, and five bands (for one or more of the supported DC configurations in Table A.4.3.2B.2.3.13-2)

Item	UL inter-band EN-DC including FR1 and FR2 Bandwidth Class	Ref.	Mnemonic	Comments
1	TBD	TBD	TBD	

Table A.4.3.2B.2.3.13-2: Supported Inter-band EN-DC configurations including FR1 and FR2 (five bands)

EN-DC configuration / Item	Release	Supported	Supported EN-DC Bandwidth Class(es) in UL
TBD	TBD		

A.4.3.2B.2.3.14 Inter-band EN-DC including FR1 and FR2 (six bands)

Table A.4.3.2B.2.3.14-1: Downlink Bandwidth Class Combination capabilities for Inter-band EN-DC including FR1 and FR2, and six bands (for one or more of the supported DC configurations in Table A.4.3.2B.2.3.14-2)

Item	DL inter-band EN-DC including FR1 and FR2 Bandwidth Class	Ref.	Mnemonic	Comments
1	TBD	TBD	TBD	

Table A.4.3.2B.2.3.14-1a: Uplink Bandwidth Class Combination capabilities for Inter-band EN-DC including FR1 and FR2, and six bands (for one or more of the supported DC configurations in Table A.4.3.2B.2.3.14-2)

Item	UL inter-band EN-DC including FR1 and FR2 Bandwidth Class	Ref.	Mnemonic	Comments
1	TBD	TBD	TBD	

Table A.4.3.2B.2.3.14-2: Supported Inter-band EN-DC configurations including FR1 and FR2 (six bands)

EN-DC configuration / Item	Release	Supported	Supported EN-DC Bandwidth Class(es) in UL
TBD	TBD		

A.4.3.2B.3 NE-DC Physical Layer Baseline Implementation Capabilities

A.4.3.2B.3.0 General NE-DC capabilities

Table A.4.3.2B.3.0-1: Downlink NE-DC capabilities (for one or more of the supported NE-DC configurations)

Item	Bandwidth Class	Ref.	Comments
1	DL NE-DC with 2 carriers	38.101-3, 5.5B	
2	DL NE-DC with 3 carriers	38.101-3, 5.5B	
3	DL NE-DC with 4 carriers	38.101-3, 5.5B	
4	DL NE-DC with 5 carriers	38.101-3, 5.5B	
5	DL NE-DC with 6 carriers	38.101-3, 5.5B	

Table A.4.3.2B.3.0-1A: Downlink NE-DC capabilities (number of NR DL carriers)

Item	Bandwidth Class	Ref.	Comments
1	DL NE-DC with 1 NR DL carriers	38.101-3, 5.5B	

Table A.4.3.2B.3.0-2: Uplink NE-DC capabilities (for one or more of the supported NE-DCconfigurations)

Item	Bandwidth Class	Ref.	Comments
1	UL NE-DC with 2 carriers	38.101-3, 5.5B	

Table A.4.3.2B.3.0-2A: Uplink NE-DC capabilities (number of NR UL carriers)

Item	Bandwidth Class	Ref.	Comments
1	UL NE-DC with 1 NR UL carriers	38.101-3, 5.5B	

A.4.3.2B.3.1 Inter-band NE-DC within FR1

A.4.3.2B.3.1.1 Inter-band NE-DC within FR1 (two bands)

Table A.4.3.2B.3.1.1-1: Downlink Bandwidth Class Combination capabilities for Inter-band NE-DC within FR1 and two bands (for one or more of the supported DC configurations in Table A.4.3.2B.3.1.1-2)

Item	DL inter-band NE-DC within FR1 Bandwidth Class	Ref.	Mnemonic	Comments
1	Inter-band NE-DC within FR1 BW Class Combination A_A (two bands)	36.101, 5.6A.1 38.101-3, 5.5B.4a.1	pc_DL_inter_band_NE_DC_FR1_2B_Class_A_A	
2	Inter-band NE-DC within FR1 BW Class Combination (2A)_A (two bands)	36.101, 5.6A.1 38.101-3, 5.5B.4a.1	pc_DL_inter_band_NE_DC_FR1_2B_Class_(2A)_A	
3	Inter-band NE-DC within FR1 BW Class Combination A_C (two bands)	36.101, 5.6A.1 38.101-3, 5.5B.4a.1	pc_DL_inter_band_NE_DC_FR1_2B_Class_A_C	
4	Inter-band NE-DC within FR1 BW Class Combination A_(2A) (two bands)	36.101, 5.6A.1 38.101-3, 5.5B.4a.1	pc_DL_inter_band_NE_DC_FR1_2B_Class_A_(2A)	

Table A.4.3.2B.3.1.1-1a: Uplink Bandwidth Class Combination capabilities for Inter-band NE-DC within FR1 and two bands (for one or more of the supported configurations in Table A.4.3.2B.3.1.1-2)

Item	UL inter-band NE-DC within FR1 Bandwidth Class	Ref.	Mnemonic	Comments
1	UL Inter-band NE-DC within FR1 BW Class Combination A_A (two bands)	36.101, 5.6A.1 38.101-3, 5.5B.4a.1	pc_UL_inter_band_NE_DC_FR1_2B_Class_A_A	

Table A.4.3.2B.3.1.1-2: Supported Inter-band NE-DC configurations within FR1 (two bands)

NE-DC configuration / Item (Note 1)	Release	Supported	Supported NE-DC Bandwidth Class(es) in UL	Supported Bandwidth Combination Set(s)
DC_n28A_3A	Rel-17			
DC_n28A_3C	Rel-17			
DC_n28A_39A	Rel-17			
DC_n28A_39C	Rel-17			
NOTE 1: Notation used for inter-band NE-DC Bands is according to TS 38.101-3 [25] Table 5.5B.4a.1-1, e.g. 'DC_n28A_3A' indicates NE-DC operation on NR band n28 with NR DL Bandwidth Class A and E-UTRA band 3 with E-UTRA DL CA Bandwidth Class A.				

Table A.4.3.2B.3.1.1-3: Inter-band NE-DC within FR1 (two bands) PC3 UE RF Baseline Implementation Capabilities

Item	NE-DC configuration	Inter-band NE-DC within FR1 (two bands) PC3 UE RF Baseline Implementation Capabilities	Ref.	Release	Mnemonic	Comments
1	DC_n28A_3A DC_n28A_3C	NR Frequency band: 703–748 MHz (UL),758 MHz–803 MHz (DL) LTE Frequency band: 1710-1785 MHz (UL), 1805-1880 MHz (DL)	38.101-3, 6.2B.1.3 a	Rel-17	pc_nrBand28_Band3_ PC3_Supp	
2	DC_n28A_39A DC_n28A_39C	NR Frequency band: 703–748 MHz (UL),758 MHz–803 MHz (DL) LTE Frequency band: 1880-1920 MHz	38.101-3, 6.2B.1.3 a	Rel-17	pc_nrBand28_Band39_ PC3_Supp	

Table A.4.3.2B.3.1.1-3a: Inter-band NE-DC within FR1 (two bands) NR part power class UE RF Baseline Implementation Capabilities

Item	EN-DC configuration	UE Physical Layer Baseline Implementation Capabilities	Ref.	Release	Mnemonic	Supported NR part power class
1	DC_n28A_3A DC_n28A_3C	DC_n28A_3A NR part power class DC_n28A_3C NR part power class	38.306, 4.2.7.1	Rel-16	pc_nrBand28_Band3_powerClassNRPart_r16	
2	DC_n28A_39A DC_n28A_39C	DC_n28A_39A NR part power class DC_n28A_39C NR part power class	38.306, 4.2.7.1	Rel-16	pc_nrBand28_Band39_powerClassNRPart_r16	

Table A.4.3.2B.3.1.1-4: UE Power Class implementation Capabilities for inter-band NE-DC within FR1 (two bands)

Item	UE Power Class implementation Capabilities	Ref.	Comments
1	UE Power Class 3 for Inter-band NE-DC within FR1 (two bands)	38.101-3, 6.2B.1.3a	Applicable to the bands in Table A.4.3.2B.3.1.1-3

A.4.3.2C NR SUL Physical Layer Baseline Implementation Capabilities

NOTE: See Annex B for status of completed NR SUL configurations in this version of 3GPP UE conformance test specifications.

A.4.3.2C.1 General NR SUL capabilities

Table A.4.3.2C.1-1: Uplink NR SUL capabilities (for one or more of the supported NR SULconfigurations)

Item	Bandwidth Class	Ref.	Comments
1	UL NR SUL with 2 carriers	38.101-1, 5.5C	
2	UL NR SUL with 3 carriers	38.101-1, 5.5C	

A.4.3.2C.2 SUL band combinations without CA

Table A.4.3.2C.2-1: Supported SUL configurations without CA

SUL configuration / Item (Note 1)	Release	Supported	Supported Bandwidth Combination Set(s)	Supported ULTxSwitching Band Pair (Note 2, 3)
SUL_n41A-n83A	Rel-17			
SUL_n78A-n80A	Rel-15			
SUL_n78A-n84A	Rel-15			
SUL_n79A-n83A	Rel-17			

Note 1: Notation used for SUL configurations is according to TS 38.101-1 [23] Table 5.5C-1, e.g. ‘SUL_n78A-n80A’ indicates SUL operation on NR bands n78 and n80 with UL CA Bandwidth Class A on both bands.

Note 2: The ULTxSwitching capability can be reported on SUL band combinations. The UE supplier shall indicate SUL band pairs on which it supports ULTxSwitching. For this release of specification valid choices are ’N’ and ‘nX-nY’, where both nX and nY are NR bands. For example, for SUL_n78A-n80A, N would mean not supporting ULTxSwitching, ‘n78-n80’ would mean supporting of ULTxSwitching on this band pair. The ULTxSwitching is only tested with 2 UL CCs, so UE is allowed to report ‘N’ by default for SUL configuration with > 2 component carriers.

Note 3: ULSwitching(Table A.4.3.2C.2-1) shall return all supported SUL Configurations where at least one SUL band pair was declared in column “Supported ULTxSwitching Band Pair".

A.4.3.2C.3SUL band combinations with CA

Table A.4.3.2C.3-1: Supported SUL configurations with Intra-band non-contiguous CA

NR SUL with CA configuration / Item (Note 1)	Release	Supported	Supported SUL configuration in UL	Supported Bandwidth Combination Set(s)	Supported ULTxSwitching Band Pair (Note 2, 3)
TBD	TBD				

Note 1: Notation used for SUL configurations is according to TS 38.101-1 [23] Table 5.5C-2.
Note 2: The ULTxSwitching capability can be reported on SUL band combinations. The UE supplier shall indicate SUL band pairs on which it supports ULTxSwitching. For this release of specification valid choices are 'N' and 'nX-nY', where both nX and nY are NR bands. For example, for SUL_n78A-n80A, N would mean not supporting ULTxSwitching, 'n78-n80' would mean supporting of ULTxSwitching on this band pair.
Note 3: ULSwitching(Table A.4.3.2C.2-1) shall return all supported SUL Configurations where at least one SUL band pair was declared in column "Supported ULTxSwitching Band Pair".

Table A.4.3.2C.3-2: Supported SUL configurations with Intra-band contiguous CA

NR SUL configuration / Item (Note 1)	Release	Supported	Supported SUL configuration in UL	Supported Bandwidth Combination Set(s)	Supported ULTxSwitching Band Pair (Note 2, 3)
SUL_n41C-n83A	Rel-17				
SUL_n78C-n80A	Rel-17				
SUL_n78C-n84A	Rel-17				
SUL_n79C-n83A	Rel-17				

Note 1: Notation used for SUL configurations is according to TS 38.101-1 [23] Table 5.5C-3,. e.g. 'SUL_n41C-n83A' indicates SUL operation on NR bands n41 and n83 with DL CA Bandwidth Class C on band n41.
Note 2: The ULTxSwitching capability can be reported on SUL band combinations. The UE supplier shall indicate SUL band pairs on which it supports ULTxSwitching. For this release of specification valid choices are 'N' and 'nX-nY', where both nX and nY are NR bands. For example, for SUL_n78A-n80A, N would mean not supporting ULTxSwitching, 'n78-n80' would mean supporting of ULTxSwitching on this band pair.
Note 3: ULSwitching(Table A.4.3.2C.2-1) shall return all supported SUL Configurations where at least one SUL band pair was declared in column "Supported ULTxSwitching Band Pair".

Table A.4.3.2C.3-3: Supported SUL configurations with Inter-band CA

NR SUL configuration / Item (Note 1)	Release	Supported	Supported SUL configuration in UL	Supported Bandwidth Combination Set(s)	Supported ULTxSwitching Band Pair (Note 2, 3)
CA_n1A_SUL_n78A-n80A	Rel-17				
CA_n1A_SUL_n78A-n84A	Rel-17				
CA_n3A_SUL_n78A-n80A	Rel-17				
CA_n28A_SUL_n41A-n83A	Rel-17				
CA_n28A_SUL_n79A-n83A	Rel-17				

Note 1: Notation used for SUL configurations is according to TS 38.101-1 [23] Table 5.5C-4. e.g. 'CA_n1A_SUL_n78A-n84A' indicates SUL operation on NR bands n1, n78 and n84 with DL CA Bandwidth Class A on bands n1 and n78.

Note 2: The ULTxSwitching capability can be reported on SUL band combinations. The UE supplier shall indicate SUL band pairs on which it supports ULTxSwitching. For this release of specification valid choices are 'N' and 'nX-nY', where both nX and nY are NR bands. For example, for SUL_n78A-n80A, N would mean not supporting ULTxSwitching, 'n78-n80' would mean supporting of ULTxSwitching on this band pair.

Note 3: ULSwitching(Table A.4.3.2C.2-1) shall return all supported SUL Configurations where at least one SUL band pair was declared in column "Supported ULTxSwitching Band Pair".

A.4.3.3 PDCP Implementation Capabilities

Table A.4.3.3-1: UE PDCP Implementation Capabilities

Item	UE PDCP Implementation Capabilities	Ref.	Release	Mnemonic	M	If indicated "Yes" the feature shall be implemented and successfully tested for the corresponding release	Comments
1	Support 12 bit length of PDCP sequence number	38.306, 4.2.4	Rel-15	pc_shortSN	Yes	Yes (for RedCap UE)	This PICS shall always be true for RedCap UE.
1A	Support of 18 bit length of PDCP sequence number	38.822, 4.2, 38.306, 4.2.21.3	Rel-15	pc_longSN	No	Yes (for non-RedCap UE)	This PICS shall always be true for non-RedCap UE.
2	Supports Out of order delivery of data to upper layers by PDCP	38.306, 4.2.4	Rel-15	pc_outOfOrderDelivery	No		
3	Support CA-based PDCP duplication over MCG or SCG DRB	38.306, 4.2.4	Rel-15	pc_pdcp_DuplicationMCG_OrSCG_DRB	No		
4	Support PDCP duplication over split DRB	38.306, 4.2.4	Rel-15	pc_pdcp_DuplicationSplitDRB	No		
5	Support PDCP duplication with more than two RLC entities	38.306, 4.2.4	Rel-16	pc_pdcp_DuplicationMoreThanTwoRLC_r16	No		specifically for TSC (time sensitive communication) services
6	Support PDCP duplication over split SRB1/2	38.306, 4.2.4	Rel-15	pc_pdcp_DuplicationSplitSRB	No		
7	Support EHC (Ethernet header compression)	38.306, 4.2.4	Rel-16	pc_NR_ehc_r16	No		specifically for TSC (time sensitive communication) services
8	Support UDC (Uplink data compression)	38.306, 4.2.4	Rel-17	pc_NR_udc_r17	No		

9	Support standard Dictionary	38.306, 4.2.4	Rel-17	pc_NR_udc_standardDictionary_r17	No		
10	Support continuation of uplink data compression protocol operation	38.306, 4.2.4	Rel-17	pc_NR_udc_continueUDC_r17	No		

A.4.3.4 RLC Implementation Capabilities

Table A.4.3.4-1: UE RLC Implementation Capabilities

Item	UE RLC Implementation Capabilities	Ref.	Release	Mnemonic	M	If indicated "Yes" the feature shall be implemented and successfully tested for the corresponding release	Comments
1A	Support RLC AM with 18 bit length of RLC sequence number	38.306, 4.2.21.4	Rel-15	pc_am_WithLongSN	No	Yes (for non-RedCap UE)	This PICS shall always be true for non-RedCap UE.
1	Support RLC AM with 12 bit length of RLC sequence number	38.306, 4.2.5	Rel-15	pc_am_WithShortSN	Yes	Yes (for RedCap UE)	This PICS shall always be true for RedCap UE.
2	Support RLC UM with 12 bit length of RLC sequence number	38.306, 4.2.5	Rel-15	pc_um_WIthLongSN	Yes		
3	Support RLC UM with 6 bit length of RLC sequence number	38.306, 4.2.5	Rel-15	pc_um_WithShortSN	Yes		

A.4.3.5 MAC Implementation Capabilities

Table A.4.3.5-1: UE MAC Implementation Capabilities

Item	UE MAC Implementation Capabilities	Ref.	Release	Mnemonic	M	If indicated "Yes" the feature shall be implemented and successfully tested for the corresponding release	Comments
1	Support long DRX cycle	38.306, 4.2.6	Rel-15	pc_longDRX_Cycle	Yes		
2	Support short DRX cycle	38.306, 4.2.6	Rel-15	pc_shortDRX_Cycle	Yes		
3	Support skipping of UL transmission for an uplink grant indicated on PDCCH if no data is available for transmission	38.306, 4.2.6	Rel-15	pc_skipUplinkTxDynamic	No		
4	Supports the logicalChannelSR-DelayTimer	38.306, 4.2.6	Rel-15	pc_logicalChannelSR_DelayTimer	No		
5	Supports DRX adaptation	38.306, 4.2.6	Rel-16	pc_DRX_Adaptation	No		
6	Support LCH-based prioritization	38.306, 4.2.6	Rel-16	pc_lch_PriorityBasedPrioritization_r16	No		
7	Supports autonomous transmission of the MAC PDU generated for a deprioritized configured uplink grant	38.306, 4.2.6	Rel-16	pc_autonomousTransmission_r16	No		
8	Supports the bit rate recommendation message from the gNB to the UE as specified in TS 38.321	38.306, 4.2.6	Rel-15	pc_recommendedBitRate	No		
9	Supports the bit rate recommendation query message from the UE to the gNB as specified in TS 38.321.	38.306, 4.2.6	Rel-15	pc_recommendedBitRateQuery	No		This field is only applicable if the UE supports pc_recommendedBitRate.
10	Support PUSCH transmissions on multiple configured uplink grants	38.306, 4.2.6	Rel-16	pc_multipleConfiguredGrants_r16	No		
11	Support the selection of logical channels for each UL grant based on RRC configured restriction	38.306, 4.2.6	Rel-15	pc_lcp_Restriction	No		

12	Support direct NR SCG SCell activation, as specified in TS 38.321, upon SCell addition and upon reconfiguration with sync of the SCG, both performed via an RRCReconfiguration message received via SRB3 or contained in an RRC(Connection)Reconfiguration message received via SRB1, as specified in TS 38.331 and TS 36.331	38.306, 4.2.6	Rel-16	pc_directSCG_SCell Activation_r16	No		A UE indicating support of directSCG-SCellActivation-r16 shall indicate support of EN-DC or support of NGEN-DC as specified in TS 36.331 or support of NR-DC as specified in TS 38.331.
13	Support direct NR MCG SCell activation, as specified in TS 38.321, upon SCell addition, upon reconfiguration with sync of the MCG, as specified in TS 38.331.	38.306, 4.2.6	Rel-17	pc_directMCG_SCell Activation_r17	No		
14	Support direct NR MCG SCell activation, as specified in TS 38.321, upon reception of an RRCResume message, as specified in TS 38.331.	38.306, 4.2.6	Rel-17	pc_directMCG_SCell ActivationResume_r17	No		
15	Support direct NR SCG SCell activation, as specified in TS 38.321: - upon reception of an RRCReconfiguration included in an RRCConnectionResume message, as specified in TS 38.331 and TS 36.331, if the UE indicates support of EN-DC or NGEN-DC, and support of resumeWithSCG-Config-r16 as specified in TS 36.331, - upon reception of an RRCReconfiguration included in an RRCResume message, as specified in TS 38.331, if the UE indicates support of NR-DC and of resumeWithSCG-Config-r16 as specified in TS 38.331.	38.306, 4.2.6	Rel-17	pc_directSCG_SCell ActivationResume_r17	No		A UE indicating support of directSCG-SCellActivationResume-r16 shall indicate support of EN-DC or NGEN-DC and support of resumeWithSCG-Config-r16 as specified in TS 36.331 or indicate support of NR-DC and of resumeWithSCG-Config-r16 as specified in TS 38.331.

16	Support services with survival time requirement using configured grant resource and PDCP duplication, as specified in TS 38.321.	38.306, 4.2.6	Rel-17	pc_survivalTime_r17	No		A UE supporting this feature shall support pdcp-DuplicationMCG-orSCG-DRB or pdcp-DuplicationSplitDRB. A UE supporting this feature shall also support configuredUL-GrantType1-v1650 or configuredUL-GrantType2-v1650.

A.4.3.6 Measurement Capabilities

Table A.4.3.6-1: UE Measurement Capabilities

Item	UE Measurement Capabilities	Ref.	Release	Mnemonic	M	If indicated "Yes" the feature shall be implemented and successfully tested for the corresponding release	Comments
1	Support NR measurements and events A triggered reporting	38.306, 4.2.9	Rel-15	pc_eventA_MeasAndReport	Yes		
2	Support two independent measurement gap configurations for FR1 and FR2	38.306, 4.2.9	Rel-15	pc_independentGapConfig	No		
3	Support NR intra-frequency and inter-frequency measurements and at least periodical reporting	38.306, 4.2.9	Rel-15	pc_intraAndInterF_MeasAndReport	Yes		
4	Support CSI-RSRP and CSI-RSRQ measurement as specified in TS38.215 [21], where CSI-RS resource is configured with an associated SS/PBCH	38.306, 4.2.9	Rel-15	pc_csi_RSRP_AndRSRQ_MeasWithSSB	No		
5	Support inter-RAT E-UTRA measurements and events B triggered reporting	38.306, 4.2.9	Rel-15	pc_eventB_MeasAndReport	Yes		
6	Support SS-SINR measurents	38.306, 4.2.9	Rel-15	pc_ss_SINR_Meas	No		
7	Support acquisition of relevant information from a neighbouring E-UTRA cell by reading the SI of the neighbouring cell and reporting the acquired information to the network as specified in TS 38.331 [9] when the EN-DC is not configured.	38.306, 4.2.9	Rel-15	pc_eutra_CGI_Reporting	Yes		
8	Support acquisition of relevant information from a neighbouring intra-frequency or inter-frequency NR cell by reading the SI of the neighbouring cell and reporting the acquired information to the network as specified in TS 38.331 [9] when EN-DC is not configured.	38.306, 4.2.9	Rel-15	pc_nr_CGI_Reporting	Yes		
9	Support acquisition of relevant information from a neighbouring intra-frequency or inter-frequency NR cell by reading the SI of the neighbouring cell and reporting the acquired information to the network as specified in TS 38.331 [9] when the EN-DC is configured.	38.306, 4.2.9	Rel-15	pc_nr_CGI_Reporting_ENDC	Yes		
10	Support shorter measurement gap length (i.e. *gp2* and *gp3*) for independent measurement gap configuration on FR1 and per-UE gap in (NG)EN-DC.	36.331, 6.3.6	Rel-15	pc_gp2_gp3_en_dc	No		

11	Support NR supports gap pattern 4 for independent measurement gap configuration on FR1 and per-UE gap in (NG)EN-DC	36.331, 6.3.6	Rel-15	pc_gp4_en_dc	No		
12	Support NR supports gap pattern 5 for independent measurement gap configuration on FR1 and per-UE gap in (NG)EN-DC	36.331, 6.3.6	Rel-15	pc_gp5_en_dc	No		
13	Support NR supports gap pattern 6 for independent measurement gap configuration on FR1 and per-UE gap in (NG)EN-DC	36.331, 6.3.6	Rel-15	pc_gp6_en_dc	No		
14	Support NR supports gap pattern 7 for independent measurement gap configuration on FR1 and per-UE gap in (NG)EN-DC	36.331, 6.3.6	Rel-15	pc_gp7_en_dc	No		
15	Support NR supports gap pattern 8 for independent measurement gap configuration on FR1 and per-UE gap in (NG)EN-DC	36.331, 6.3.6	Rel-15	pc_gp8_en_dc	No		
16	Support NR supports gap pattern 9 for independent measurement gap configuration on FR1 and per-UE gap in (NG)EN-DC	36.331, 6.3.6	Rel-15	pc_gp9_en_dc	No		
17	Support NR supports gap pattern 10 for independent measurement gap configuration on FR1 and per-UE gap in (NG)EN-DC	36.331, 6.3.6	Rel-15	pc_gp10_en_dc	No		
18	Support NR supports gap pattern 11 for independent measurement gap configuration on FR1 and per-UE gap in (NG)EN-DC	36.331, 6.3.6	Rel-15	pc_gp11_en_dc	No		
19	Support measurement gap pattern 2 configured by NR RRC.	38.306, 4.2.9	Rel-15	pc_gp2_nr	No		
20	Support measurement gap pattern 3 configured by NR RRC.	38.306, 4.2.9	Rel-15	pc_gp3_nr	No		
21	Support measurement gap pattern 4 configured by NR RRC.	38.306, 4.2.9	Rel-15	pc_gp4_nr	No		
22	Support measurement gap pattern 5 configured by NR RRC.	38.306, 4.2.9	Rel-15	pc_gp5_nr	No		
23	Support measurement gap pattern 6 configured by NR RRC.	38.306, 4.2.9	Rel-15	pc_gp6_nr	No		
24	Support measurement gap pattern 7 configured by NR RRC.	38.306, 4.2.9	Rel-15	pc_gp7_nr	No		
25	Support measurement gap pattern 8 configured by NR RRC.	38.306, 4.2.9	Rel-15	pc_gp8_nr	No		

26	Support measurement gap pattern 9 configured by NR RRC.	38.306, 4.2.9	Rel-15	pc_gp9_nr	No		
27	Support measurement gap pattern 10 configured by NR RRC.	38.306, 4.2.9	Rel-15	pc_gp10_nr	No		
28	Support measurement gap pattern 11 configured by NR RRC.	38.306, 4.2.9	Rel-15	pc_gp11_nr	No		
29	Support measurement gap pattern 12 configured by NR RRC.	38.306, 4.2.9	Rel-15	pc_gp12_nr	No		
30	Support measurement gap pattern 15 configured by NR RRC.	38.306, 4.2.9	Rel-15	pc_gp15_nr	No		
31	Support measurement gap pattern 16 configured by NR RRC.	38.306, 4.2.9	Rel-15	pc_gp16_nr	No		
32	Support measurement gap pattern 17 configured by NR RRC.	38.306, 4.2.9	Rel-15	pc_gp17_nr	No		
34	Support measurement gap pattern 18 configured by NR RRC.	38.306, 4.2.9	Rel-15	pc_gp18_nr	No		
35	Support measurement gap pattern 19 configured by NR RRC.	38.306, 4.2.9	Rel-15	pc_gp19_nr	No		
36	Support measurement gap pattern 20 configured by NR RRC.	38.306, 4.2.9	Rel-15	pc_gp20_nr	No		
37	Support measurement gap pattern 21 configured by NR RRC.	38.306, 4.2.9	Rel-15	pc_gp21_nr	No		
38	Support measurement gap pattern 22 configured by NR RRC.	38.306, 4.2.9	Rel-15	pc_gp22_nr	No		
39	Support measurement gap pattern 23 configured by NR RRC.	38.306, 4.2.9	Rel-15	pc_gp23_nr	No		
40	Support CSI-RSRP and CSI-RSRQ measurement as specified in TS38.215 [21], where CSI-RS resource is configured without an associated SS/PBCH	38.306, 4.2.9	Rel-15	pc_csi_RSRP_AndRSRQ_MeasWithoutSSB	No		
41	Support CSI-RS based Radio Link Monitoring for FR1	38.306, 4.2.9	Rel-15	pc_CSI_RS_RLM_FR1	Yes		If the UE supports this feature, the UE needs to report maxNumberResource-CSI-RS-RLM in its capability report. If the UE doesn't support CSI-RS based RLM, it will not include this IE in its capability report.

41a	Support CSI-RS based Radio Link Monitoring for FR2	38.306, 4.2.9	Rel-15	pc_CSI_RS_RLM_FR2	Yes		If the UE supports this feature, the UE needs to report maxNumberResource-CSI-RS-RLM in its capability report. If the UE doesn't support CSI-RS based RLM, it will not include this IE in its capability report.
42	Support of E-UTRA RS-SINR measurements	38.306, 4.2.10	Rel-15	pc_RS_SINR_MeasEUTRA	No		
43	Support of SFTD measurements between a E-UTRA PCell and an NR PSCell in FDD	38.306, 4.2.9	Rel-15	pc_SFTD_MeasPSCell_MRDC_FDD	No		The SFTD measurement support should be indicated in MRDC capabilities for EN-DC. The support needs to be declared for FDD and TDD separately
44	Support of SFTD measurements between a E-UTRA PCell and an NR PSCell in TDD	38.306, 4.2.9	Rel-15	pc_SFTD_MeasPSCell_MRDC_TDD	No		The SFTD measurement support should be indicated in MRDC capabilities for EN-DC. The support needs to be declared for FDD and TDD separately
45	Support of relaxed RRM measurements of neighbour cells in RRC_IDLE/RRC_INACTIVE	38.306, 5.6	Rel-16	pc_Relaxed_Measurement	No		

46	Support of SFTD measurements between a E-UTRA PCell and an NR neighbour cell in FDD	38.306, 4.2.9	Rel-15	pc_SFTD_MeasNR_Cell_FDD	No		The support needs to be declared for FDD and TDD separately The SFTD measurement support can only be indicated in MRDC capabilities for EN-DC
47	Support of SFTD measurements between a E-UTRA PCell and an NR neighbour cell in TDD	38.306, 4.2.9	Rel-15	pc_SFTD_MeasNR_Cell_TDD	No		The support needs to be declared for FDD and TDD separately The SFTD measurement support can only be indicated in MRDC capabilities for EN-DC
48	Support of SFTD measurements between a NR PCell and an NR neighbour cell in FDD	38.306, 4.2.9	Rel-15	pc_SFTD_MeasNR_Neigh_FDD	No		The support needs to be declared for FDD and TDD separately
49	Support of SFTD measurements between a NR PCell and an NR neighbour cell in TDD	38.306, 4.2.9	Rel-15	pc_SFTD_MeasNR_Neigh_TDD	No		The support needs to be declared for FDD and TDD separately
50	Support of SFTD measurements between a NR PCell and an NR PSCell in FDD	38.306, 4.2.9	Rel-15	pc_SFTD_MeasPSCell_NRDC_FDD	No		The SFTD measurement support should be indicated in UE-NR-Capability

51	Support of SFTD measurements between a NR PCell and an NR PSCell in TDD	38.306, 4.2.9	Rel-15	pc_SFTD_MeasPSCell_NRDC_TDD	No		The SFTD measurement support should be indicated in UE-NR-Capability
52	Support of acquisition of CGI related information from a neighbouring intra-frequency or inter-frequency NPN CAG cell	38.306, 4.2.9	Rel-16	pc_nr_CGI_Reporting_NPN_r16	No		
53	Supports periodic EUTRA measurement and reporting.	38.306, 4.2.9	Rel-15	pc_periodicEUTRA_MeasAndReport	Yes		
54	Support configuration of NR SSB measurements in RRC_IDLE/RRC_INACTIVE and reporting of the corresponding results upon network request as specified in TS 38.331 [9]	38.306, 4.2.9	Rel-16	pc_idleInactiveNR_MeasReport	No		
55	Support configuration of E-UTRA measurements in RRC_IDLE/RRC_INACTIVE and reporting of the corresponding results upon network request as specified in TS 38.331 [9]	38.306, 4.2.9	Rel-16	pc_idleInactiveEUTRA_MeasReport	No		
56	Support SRS-RSRP measurements between a NR Pcell and an interfering UE, upon network request as specified in 38.331 [9]	38.306, 4.2.9	Rel-16	pc_nr_CLI_Reporting_r16	No		If the UE supports this feature, the UE needs to report *maxNumberCLI-SRS-RSRP-r16* and *maxNumberPerSlotCLI-SRS-RSRP-r16* If the UE doesn't support CLI SRS-RSRP measurement, it will not include this IE in its capability report.
57	Support acquisition of relevant information from a neighbouring E-UTRA cell by reading the SI of the neighbouring cell and reporting the acquired information to the network as specified in TS 38.331 [9] when the NE-DC is configured.	38.306, 4.2.9	Rel-15	pc_eutra_CGI_Reporting_NEDC	No		

58	Support acquisition of relevant information from a neighbouring E-UTRA cell by reading the SI of the neighbouring cell and reporting the acquired information to the network as specified in TS 38.331 [9] when the NR-DC is configured wherein MN and SN have different DRX cycles, or on-duration configured by MN does not contain on-duration configured by SN if the DRX cycles are the same.	38.306, 4.2.9	Rel-15	pc_eutra_CGI_Reporting_NRDC	No		
59	Support acquisition of relevant information from a neighbouring intra-frequency or inter-frequency NR cell by reading the SI of the neighbouring cell and reporting the acquired information to the network as specified in TS 38.331 [9] when the NE-DC is configured.	38.306, 4.2.9	Rel-15	pc_nr_CGI_Reporting_NEDC	Yes		
60	Support acquisition of relevant information from a neighbouring intra-frequency or inter-frequency NR cell by reading the SI of the neighbouring cell and reporting the acquired information to the network as specified in TS 38.331 [9] when the NR-DC is configured wherein MN and SN have different DRX cycles, or on-duration configured by MN does not contain on-duration configured by SN if the DRX cycles are the same.	38.306, 4.2.9	Rel-15	pc_nr_CGI_Reporting_NRDC	Yes		
61	Supports performing eNB-configured SSB-based RRM measurements for EN-DC configured NR FR1 carrier(s) in RRC_IDLE and reporting them when requested by the eNB while resuming from RRC_IDLE or in RRC_CONNECTED, as specified in TS 36.331 [5].	36.306, 4.3.6.41	Rel-16	pc_nrIdleInactiveNRFR1_MeasReport	No		
62	Supports performing eNB-configured SSB-based RRM measurements for EN-DC configured NR FR2 carrier(s) in RRC_IDLE and reporting them when requested by the eNB while resuming from RRC_IDLE or in RRC_CONNECTED, as specified in TS 36.331 [5].	36.306, 4.3.6.42	Rel-16	pc_nrIdleInactiveNRFR2_MeasReport	No		
63	Support more than 1 per-UE measurement gap configurations.	38.306, 4.2.9	Rel-17	pc_concurrentPerUE_OnlyMeasGap_r17	No		

64	Support all concurrent gap combination configurations as specified in TS 38.133 [5] including support of more than 1 per-UE measurement gap configurations.	38.306, 4.2.9	Rel-17	pc_concurrentPerUE_PerFRCombMeasGap_r17	No		
65	Support the configurations of E-UTRAN measurement objectives associated with more than 1 concurrent measurement gaps.	38.306, 4.2.9	Rel-17	pc_concurrentMeasGapEUTRA_r17	No		
66	Support reporting of the NCSG and measurement gap requirement information for E-UTRA target bands in the UE response to a network configuration RRC message as specified in TS 38.331 [9].	38.306, 4.2.9	Rel-17	pc_eutra_NeedForGapNCSG_Reporting_r17	No		
67	Support two independent measurement gap configurations for FR1 and FR2 for PRS measurement.	38.306, 4.2.9	Rel-17	pc_independentGapConfigPRS_r17	No		
68	Support NR-only NCSG patterns.	38.306, 4.2.9	Rel-17	pc_ncsg_MeasGapNR_Patterns_r17	No		
69	Support NCSG patterns.	38.306, 4.2.9	Rel-17	pc_ncsg_MeasGapPatterns_r17	No		
70	Support per-FR NCSG.	38.306, 4.2.9	Rel-17	pc_ncsg_MeasGapPerFR_r17	No		
71	Support performing measurement with NCSG based on flag deriveSSB-IndexFromCell-inter and meeting the following requirements that the scheduling restriction in FR2 serving cell during NCSG ML is on SSB symbol level.	38.306, 4.2.9	Rel-17	pc_ncsg_SymbolLevelScheduleRestrictionInter_r17	No		
72	Support reporting of the NCSG and measurement gap requirement information for SSB based measurement in the UE response to a network configuration RRC message.	38.306, 4.2.9	Rel-17	pc_nr_NeedForGapNCSG_Reporting_r17	No		
73	Support the preconfigured measurement gap with UE-autonomous mechanism for activation and deactivation.	38.306, 4.2.9	Rel-17	pc_preconfiguredUE_AutonomousMeasGap_r17	No		
74	Support the preconfigured measurement gap with network-controlled mechanism for activation and deactivation.	38.306, 4.2.9	Rel-17	pc_preconfiguredNW_ControlledMeasGap_r17	No		
75	Support of SFTD measurements between the NR PCell and a configured E-UTRA PSCell	38.306, 4.2.9	Rel-15	pc_SFTD_MeasPSCell_NEDC	No		

A.4.3.7 General Capabilities

Table A.4.3.7-1: UE General Capabilities

Item	UE General Capabilities	Ref.	Release	Mnemonic	M	If indicated "Yes" the feature shall be implemented and successfully tested for the corresponding release	Comments
1	Support UL transmission via either MCG path or SCG path for the split SRB as specified in TS 37.340[20]	38.306, 4.2.2	Rel-15	pc_splitSRB_WithOneUL_Path	No		
2	Support UL transmission via both MCG path and SCG path for the split DRB as specified in TS 37.340[20]	38.306, 4.2.2	Rel-15	pc_splitDRB_withUL_Both_MCG_SCG	Yes		
3	Support direct SRB between the SN and the UE as specified in TS 37.340[20]	38.306, 4.2.2	Rel-15	pc_srb3	Yes		
4	Support of reflective QoS	38.306, 4.2.2	Rel-15	pc_as_ReflectiveQoS	No		
5	Support of NAS reflective QoS	24.501, 6.2.5.1.4.1, 9.11.4.1	Rel-15	pc_nas_ReflectiveQoS	No		
6	Support of SMS over NAS	24.501, 5.5.1.2	Rel-15	pc_sms_over_NAS	No		
7	Support of CMAS message on NR	38.331, 5.2.2.2.2	Rel-15	pc_CMAS_NR	No		
8	Support of ETWS message on NR	38.331, 5.2.2.2.2	Rel-15	pc_ETWS_NR	No		
9	The UE supports additional UE-requested PDU establishment	24.501, 6.4.1.5	Rel-15	pc_Additional_PDU_establishment	No		pc_ExpectedNoOfPDUSessionsAtRegistration +1
10	The UE includes the SM PDU DN request container IE in the PDU SESSION ESTABLISHMENT REQUEST message	24.501, 6.4.1.2	Rel-15	pc_SM_PDU_DN_RequestContainer	No		
11	Support of emergency services fallback in NR connected to 5GCN	24.501	Rel-15	pc_NR_5GC_EmergencyService_fallback	No		
12	Support of EPS fallback	24.501,	Rel-15	pc_EPS_fallback	No		
13	Support of UE requested PDU session modification	24.501, 6.4.2.2	Rel-15	pc_MO_PDU_Session_Modification	Yes		
14	Support of emergency services in NR connected to 5GCN	24.501	Rel-15	pc_NR_5GC_EmergencyServices	No		
15	Support of voiceFallbackIndication	38.306, 4.2.13	Rel-16	pc_voiceFallbackIndication	No		

16	Support provision of referenceTimeInfo	38.306, 4.2.2	Rel-16	pc_referenceTimeProvision_r16	No		specifically for TSC (time sensitive communication) services
17	Support of RACS	24.501, 9.11.3.1	Rel-16	pc_5GC_RACS	No		
18	Support of RRC message Segmentation in the UL	38.306, 5.4	Rel-16	pc_NR_UL_Segmentation	No		UE supports segmenation of UECapabilityInformation message, IF size > maximum supported size of a PDCP SDU
19	Support of RRC_INACTIVE as specified in TS 38.331 [9].	38.306, 4.2.2	Rel-15	pc_inactiveState	Yes		
20	Support of UE local release when the security check is successful but SOR Transparent container indicates ACK has been NOT requested	23.122 clause C.2	Rel-15	pc_SOR_ACKNotReqLocalRel	No		
21	Support of RRC connection release with deprioritisation	38.306, 5.3	Rel-15	pc_NR_RRC_Release_With_Deprioritisation	No		
22	Support of RRC connection establishment failure with temporary offset	38.306, 5.3	Rel-15	pc_NR_RRC_ConEstFail_With_TempOffset	No		
23	Support of Closed Access Group	24.501, 9.11.3.1	Rel-16	pc_CAG	No		
24	Support of Stand-alone Non-Public Network	23.501, 3.1	Rel-16	pc_SNPN	No		
25	Support of test function SET UL MESSAGE for using a preconfigured UE capability container over NR	38.509, 5.9	Rel-16	pc_Set_UE_Cap_Info_NR	No		This test function is mandatory for UEs supporting UL RRC segmentation and whose maximum UECapabilityInformation message size is less than the allowed maximum supported size of a PDCP SDU.
26	Support of network slice-specific authentication and authorization	24.501, 9.11.3.1	Rel-16	pc_5GC_NSSAA	No		

27	Support of EAP-AKA' as EAP method for network slice-specific authentication and authorization	24.501, 5.4.7	Rel-16	pc_5GC_NSSAA_EAP_AKA_Prime	No		
28	Support reduced control plane latency as defined in TS 38.331 [9]	38.306, 4.2.2	Rel-15	pc_reducedCP_Latency	No		
29	Support of release preference assistance information	38.306, 4.2.2	Rel-16	pc_releasePreference_r16	No		
30	Support of user initiated SNPN reselection in automatic mode	23.122	Rel-16	pc_UserInitiated_SNPN_Reselection	No		
31	Support of autonomous search function to detect CAG cells on serving and non-serving frequencies	38.304, 5.2.4.10	Rel-16	pc_Autonomous_search_function_nr_CAG	No		
32	Support IMS voice over NR	38.306, 4.2.13	Rel-15	pc_voiceOverNR	No		A UE supporting IMS voice over NR shall support: - IMS emergency call over NR, and - IMS voice over E-UTRA/EPC if it supports E-UTRA/EPC.
33	Support of V2X communication	24.501, 9.11.3.1	Rel-16	pc_V2X	No		UE support V2X communication over NR-Uu and/or NR-PC5.
34	Support of V2X communication over NR-PC5	24.501, 9.11.3.1	Rel-16	pc_V2XCNPC5	No		
35	Support of Manufacturer assigned Radio Capability ID	23.501, 5.9.10	Rel-16	pc_5GC_RACS_Manufacturer_URCID	No		UE support of Manufacturer assigned radio capability ID
36	Support of 3GPP PS data off	24.501, 6.2.10	Rel-15	pc_PS_data_off	No		UE support of 3GPP PS data off
37	Support of Network Slice Simultaneous Registration Group	24.501, 9.11.3.82	Rel-17	pc_5GC_NSSRG	No		
38	Support of slice reselection information in SIB and on RRC release for slice based cell reselection in RRC _IDLE and RRC INACTIVE	38.306, 4.2.2	Rel-17	pc_sliceInfoforCellReselection_r17	No		

39	Support of reception of segmented DL RRC messages	38.306, 4.2.2	Rel-16	pc_NR_dl_DedicatedMessageSegmentation	No		The SS initiates the DL Dedicated Message Segment transfer procedure IF the encoded RRCReconfiguration or RRCResume message PDU size > maximum PDCP SDU size.
40	Support of unified access control configuration in the list of subscriber data, indicating for which access identities (see 3GPP TS 24.501 [64]) the ME is configured, when the MS accesses an SNPN.	23.122, 4.9.3.0, 24.501 4.5.2A	Rel-16	pc_SNPN_access_control_configuration	No		
41	Support of polarization signalling in NR NTN	38.306, 5.4	Rel-17	pc_Polarization_Signalling_NR_NTN	No		UE supports polarization signalling in NR NTN
42	Supports receiving paging early indication and UE subgrouping indication with UEID	38.306, 4.2.2	Rel-17	pc_pei_SubgroupingSupportBandList_r17	No		
43	Support of Rel-17 extended DRX cycle up to 10485.76 seconds	38.306, 5.8 24.501, 5.3.16	Rel-17	pc_NR_eDRX	No		
44	Support of (re-)configuration of an SCG during the resume procedure.	38.306, 4.2.2	Rel-16	pc_resumeWithSCG_Config_r16	No		
45	Support of slice-based RACH prioritisation	38.306, 5.4	Rel-17	pc_Slice_RACH_Prioiritisation	No		
46	Support of slice-based RACH partitioning	38.306, 5.4	Rel-17	pc_Slice_RACH_Partitioning	No		
47	Support of RACH prioritisation for Access Identity 1	38.306, 5.4	Rel-17	pc_AccId1_RACH_Prioiritisation	No		US supporting this shall also support MPS (Access ID 1)
48	Support of ATSSS and MA PDU session	24.501, 6.4.1.2	Rel-16	pc_5GC_ATSSS	No		

49	Support gNB-side RTT-based PDC	38.306, 4.2.2	Rel-17	pc_gNB_SideRTT_BasedPDC_r17	No		A UE supporting this feature shall also support rtt-BasedPDC-CSI-RS-ForTracking-r17 and/or rtt-BasedPDC-PRS-r17.

A.4.3.8 Mobility Capabilities

Table A.4.3.8-1: UE Mobility Capabilities

Item	UE Mobility Capabilities	Ref.	Release	Mnemonic	M	If indicated "Yes" the feature shall be implemented and successfully tested for the corresponding release	Comments
1	Support inter-RAT Handover to EUTRA connected to EPC	38.306, 4.2.9	Rel-15	pc_interRAT_EUTRA_Handover	Yes		
2	Support inter-frequency Handover from the corresponding duplex mode or from the corresponding frequency range.	38.306, 4.2.9	Rel-15	pc_handoverInterF	Yes		
3	Support Handover between FR1 and FR2	38.306, 4.2.9	Rel-15	pc_FR1toFR2_Handover	Yes		
4	Support Handover between FDD and TDD	38.306, 4.2.9	Rel-15	pc_FDDtoTDD_Handover	Yes		
5	Support inter-RAT Handover to E-UTRA connected to 5GC	38.306, 4.2.9	Rel-15	pc_interRAT_eLTE_Handover	Yes		
6	Support inter-RAT Handover to NR FR1 TDD from EUTRA connected to EPC	36.306, 4.3.34.9	Rel-15	pc_eutra_EPC_HO_ToNR_TDD_FR1_r15	Yes		
7	Support inter-RAT Handover to NR FR1 FDD from EUTRA connected to EPC	36.306, 4.3.34.8	Rel-15	pc_eutra_EPC_HO_ToNR_FDD_FR1_r15	Yes		
8	Support inter-RAT Handover to NR FR2 TDD from EUTRA connected to EPC	36.306, 4.3.34.11	Rel-15	pc_eutra_EPC_HO_ToNR_TDD_FR2_r15	Yes		
9	Support intra-frequency DAPS handover	38.306, 4.2.7.5	Rel-16	pc_intraFreqDAPS_r16	No		It is mandated if the UE supports asynchronous intra-frequency DAPS handover
10	Support inter-RAT Handover from NR to EN-DC	38.306, 4.2.10	Rel-16	pc_interRAT_NR_ToENDC	CY		It is mandated if the UE supports EN-DC.
11	Support conditional handover	38.306, 4.2.7.2	Rel-16	pc_condHandover_r16	No		
12	Support conditional handover during re-establishment procedure when the selected cell is configured as candidate cell for condition handover	38.306, 4.2.7.2	Rel-16	pc_condHandoverFailure_r16	No		
13	Support 2 trigger events for same execution condition of conditional handover	38.306, 4.2.7.2	Rel-16	pc_condHandoverTwoTriggerEvents_r16	CY		It is mandated if the UE supports *condHandover-r16*.
14	Support inter-RAT Handover from NR to UTRA-FDD CELL_DCH CS	38.306, 4.2.9	Rel-16	pc_handoverUTRA_FDD_r16	No		

15	Support inter-frequency DAPS handover	38.306, 4.2.7.4	Rel-16	pc_interFreqDAPS_r16	No		It is mandated if the UE supports asynchronous inter-frequency DAPS handover or supports different SCSs in source PCell and inter-frequency target PCell in DAPS handover
16	UE supports asynchronous intra-frequency DAPS handover	38.306, 4.2.7.5	Rel-16	pc_intraFreqAsyncDAPS_r16	No		
17	UE supports asynchronous inter-frequency DAPS handover	38.306, 4.2.7.5	Rel-16	pc_interFreqAsyncDAPS_r16	No		
18	UE supports different SCSs in source PCell and inter-frequency target PCell in DAPS handover	38.306, 4.2.7.5	Rel-16	pc_interFreqDiffSCS-DAPS_r16	No		
19	Support conditional PSCell change	38.306, 4.2.7.2	Rel-16	pc_condPSCellChange_r16	No		
20	Support handover from 5GS to EPC/ePDG	24.302, 7.2.2.1	Rel-15	pc_HO_from_5GS_to_EPC_ePDG	No		
21	Support handover from EPC/ePDG to 5GS	23.502, 4.11.4.1	Rel-15	pc_HO_from_EPC_ePDG_to_5GS	No		
22	Support Handover from EPS to 5GC-N3IWF	23.502, 4.11.3.1	Rel-15	pc_HO_from_EPS_to_5GC_N3IWF	No		
23	Support Handover from 5GC-N3IWF to EPS	23.502, 4.11.3.2	Rel-15	pc_HO_from_5GC_N3IWF_to_EPS	No		
24	Support Handover of a PDU Session procedure from untrusted non-3GPP to 3GPP access	23.502, 4.9.2.1	Rel-15	pc_HO_from_5GC_N3IWF_to_5GC	No		
25	Support Handover of a PDU Session procedure from 3GPP to untrusted non-3GPP access	23.502, 4.9.2.2	Rel-15	pc_HO_from_5GC_to_5GC_N3IWF	No		

A.4.3.9 Additional capabilities for UE declared capability

Table A.4.3.9-1: UE declared capabilities

Item	UE declared capabilities	Ref.	Release	Mnemonic	Comments
1	Enhanced Type 1 Receiver for NR	38.101-4, 5	Rel-15	pc_nr_enh_type1_receiver	Support for Enhanced Type 1 Receiver (SU-MIMO Interference Mitigation advanced receiver)
2	Vehicular UE	38.101-1, 3	Rel-15	pc_nr_vehicular_ue	

Table A.4.3.9-2: UE declared multi-band peak EIRP relaxation factors for Rel-15 FR2 power class 3 UE

Item	Supported FR2 bands set	Ref.	Release	peak EIRP relaxation factor per band, MB_p (dB) (Note 1)				Maximum sum of MB_p, $\sum MB_P$ (dB) (Note 2)	Comments
				n257	n258	n260	n261		
1	n257, n258	38.101-2, 6.2.1.3	Rel-15			N/A	N/A	1.3	
2	n257, n260				N/A		N/A	1.0	
3	n258, n260			N/A			N/A	1.0	
4	n258, n261			N/A		N/A		1.0	
5	n260, n261			N/A	N/A			0.0	No relaxation factor allowed
6	n257, n258, n260						N/A	1.7	
7	n257, n258, n261					N/A		1.7	
8	n257, n260, n261				N/A			0.5	
9	n258, n260, n261			N/A				1.5	
10	n257, n258, n260, n261							1.7	
11	n257, n261				N/A	N/A		0.0	No relaxation factor allowed

Note 1: UE vendor to fill in the needed relaxation factor per band that is ≥0 for Rel-15 UE supporting only Rel-15 FR2 bands. One row to be filled in, the one matching the supported FR2 bands of the UE as declared in Table A.4.3.1-3.
Note 2: Max allowed sum of MB_p over all supported FR2 bands as defined in TS 38.521-2 clause 6.2.1.1.3.3

Table A.4.3.9-3: UE declared multi-band peak EIRP Spherical coverage relaxation factors for Rel-15 FR2 power class 3 UE

Item	Supported FR2 bands set	Ref.	Release	EIRP Spherical coverage relaxation factor per band, MB_s (dB) (Note 1)				Maximum sum of MB_s, $\sum MB_s$ (dB) (Note 2)	Comments
				n257	n258	n260	n261		
1	n257, n258	38.101-2, 6.2.1.3	Rel-15			N/A	N/A	1.25	
2	n257, n260				N/A		N/A	0.75	Maximum 0.4 dB relaxation allowed for n260
3	n258, n260			N/A			N/A	0.75	Maximum 0.4 dB relaxation allowed for n260
4	n258, n261			N/A		N/A		1.25	
5	n260, n261			N/A	N/A			0.75	No relaxation allowed for n260
6	n257, n258, n260						N/A	1.75	Maximum 0.4 dB relaxation allowed for n260
7	n257, n258, n261					N/A		1.75	
8	n257, n260, n261				N/A			1.25	Maximum 0.4 dB relaxation allowed for n260
9	n258, n260, n261			N/A				1.25	Maximum 0.4 dB relaxation allowed for n260
10	n257, n258, n260, n261							1.75	Maximum 0.4 dB relaxation allowed for n260
11	n257, n261				N/A	N/A		0.0	No relaxation factor allowed

Note 1: UE vendor to fill in the needed relaxation factor per band that is ≥0 for Rel-15 UE supporting only Rel-15 FR2 bands. One row to be filled in, the one matching the supported FR2 bands of the UE as declared in Table A.4.3.1-3

Note 2: Max allowed sum of MB_s over all supported FR2 bands as defined in TS 38.521-2 clause 6.2.1.1.3.3

Table A.4.3.9-4a: FDD 4 Rx antenna ports Capabilities

Item	Band	Ref.	Release	Comments
1	FDD Band n1	38.101-1, 7.3.2	Rel-15	
2	FDD Band n2	38.101-1, 7.3.2	Rel-15	
3	FDD Band n3	38.101-1, 7.3.2	Rel-15	
…				
7	FDD Band n7	38.101-1, 7.3.2	Rel-15	NOTE 2
8	FDD Band n8	38.101-1.7.3.2	Rel-17	4 Rx operation is targeted for FWA form factor
...				
28	FDD Band n28	38.101-1, 7.3.2	Rel-16	4 Rx operation is targeted for FWA form factor
...				
30	FDD Band n30	38.101-1, 7.3.2	Rel-16	
...				
66	FDD Band n66	38.101-1, 7.3.2	Rel-15	
…				
70	FDD Band n70	38.101-1, 7.3.2	Rel-15	
71	FDD Band n71	38.101-1, 7.3.2	Rel-16	4 Rx operation is targeted for FWA form factor

NOTE 1: At least one band from those listed in the present table needs to be supported if UE has indicated support of the capability defined in Table A.4.3.1-7a/2.
NOTE 2: Support of 4 Rx for this band is mandatory for non-vehicular UEs i.e. if support has NOT been indicated to the capability specified in Table A.4.3.9-1/2.

Table A.4.3.9-4b: TDD 4 Rx antenna ports Capabilities

Item	Band	Ref.	Release	Comments
34	TDD Band n34	38.101-1, 7.3.2	Rel-15	
...				
38	TDD Band n38	38.101-1, 7.3.2	Rel-15	NOTE 2
39	TDD Band n39	38.101-1, 7.3.2	Rel-15	
...				
40	TDD Band n40	38.101-1, 7.3.2	Rel-15	
41	TDD Band n41	38.101-1, 7.3.2	Rel-15	NOTE 2
...				
48	TDD Band n48	38.101-1, 7.3.2	Rel-16	NOTE 2
…				
77	TDD Band n77	38.101-1, 7.3.2	Rel-15	NOTE 2
78	TDD Band n78	38.101-1, 7.3.2	Rel-15	NOTE 2
79	TDD Band n79	38.101-1, 7.3.2	Rel-15	NOTE 2

NOTE 1: At least one band from those listed in the present table needs to be supported if UE has indicated support of the capability defined in Table A.4.3.1-7a/3.
NOTE 2: Support of 4 Rx for this band is mandatory for non-vehicular UEs i.e. if support has NOT been indicated to the capability specified in Table A.4.3.9-1/2.

Table A.4.3.9-4c: 2 Rx antenna ports Capabilities

Item	Band	Ref.	Comments
1	FDD Band n1	38.101-1, 7.3.2	
2	FDD Band n2	38.101-1, 7.3.2	
3	FDD Band n3	38.101-1, 7.3.2	
4	FDD Band n5	38.101-1, 7.3.2	
5	FDD Band n7	38.101-1, 7.3.2	NOTE 2
6	FDD Band n8	38.101-1, 7.3.2	
7	FDD Band n12	38.101-1, 7.3.2	
7b	FDD Band n14	38.101-1, 7.3.2	
8	FDD Band n20	38.101-1, 7.3.2	
8d	FDD Band n24	38.101-1, 7.3.2	
9	FDD Band n25	38.101-1, 7.3.2	
9a	FDD Band n26	38.101-1, 7.3.2	
10	FDD Band n28	38.101-1, 7.3.2	
10a	SDL Band n29	38.101-1, 7.3.2	
10b	FDD Band n30	38.101-1, 7.3.2	
11	TDD Band n34	38.101-1, 7.3.2	
12	TDD Band n38	38.101-1, 7.3.2	NOTE 2
13	TDD Band n39	38.101-1, 7.3.2	
14	TDD Band n40	38.101-1, 7.3.2	
15	TDD Band n41	38.101-1, 7.3.2	NOTE 2
16	TDD Band n48	38.101-1, 7.3.2	
17	TDD Band n50	38.101-1, 7.3.2	
18	TDD Band n51	38.101-1, 7.3.2	
18a	Reserved		
18b	TDD Band n53	38.101-1, 7.3.2	
19	FDD Band n65	38.101-1, 7.3.2	
20	FDD Band n66	38.101-1, 7.3.2	
21	FDD Band n70	38.101-1, 7.3.2	
22	FDD Band n71	38.101-1, 7.3.2	
23	FDD Band n74	38.101-1, 7.3.2	
24	TDD Band n77	38.101-1, 7.3.2	NOTE 2
25	TDD Band n78	38.101-1, 7.3.2	NOTE 2
26	TDD Band n79	38.101-1, 7.3.2	NOTE 2
27	FDD Band n91	38.101-1, 7.3.2	
28	FDD Band n92	38.101-1, 7.3.2	
29	FDD Band n93	38.101-1, 7.3.2	
30	FDD Band n94	38.101-1, 7.3.2	
31	FDD Band n100	38.101-1, 7.3.2	
32	TDD Band n101	38.101-1, 7.3.2	

NOTE 1:	At least one band from those listed in the present table needs to be supported if UE has indicated support of the capability defined in Table A.4.3.1-7a/1.
NOTE 2:	Support of 2 Rx for this band is allowed only for vehicular UEs i.e. if support has been indicated to the capability specified in Table A.4.3.9-1/2.

Table A.4.3.9-4d: Enhanced transient capabilities

Item	Band	Ref	Release	enhanced transient capability per band			Comments
				2us	4us	7us	

1	FDD Band n1	38.101-1, 6.4.2.1a	Rel-16				
2	FDD Band n2	38.101-1, 6.4.2.1a	Rel-16				
3	FDD Band n3	38.101-1, 6.4.2.1a	Rel-16				
4	FDD Band n5	38.101-1, 6.4.2.1a	Rel-16				
5	FDD Band n7	38.101-1, 6.4.2.1a	Rel-16				
6	FDD Band n8	38.101-1, 6.4.2.1a	Rel-16				
7	FDD Band n12	38.101-1, 6.4.2.1a	Rel-16				
8	FDD Band n14	38.101-1, 6.4.2.1a	Rel-16				
9	FDD Band n20	38.101-1, 6.4.2.1a	Rel-16				
10	FDD Band n24	38.101-1, 6.4.2.1a	Rel-16				
11	FDD Band n25	38.101-1, 6.4.2.1a	Rel-16				
12	FDD Band n26	38.101-1, 6.4.2.1a	Rel-16				
13	FDD Band n28	38.101-1, 6.4.2.1a	Rel-16				
14	FDD Band n30	38.101-1, 6.4.2.1a	Rel-16				
15	TDD Band n34	38.101-1, 6.4.2.1a	Rel-16				
16	TDD Band n38	38.101-1, 6.4.2.1a	Rel-16				
17	TDD Band n39	38.101-1, 6.4.2.1a	Rel-16				
18	TDD Band n40	38.101-1, 6.4.2.1a	Rel-16				
19	TDD Band n41	38.101-1, 6.4.2.1a	Rel-16				
20	TDD Band n46	38.101-1, 6.4.2.1a	Rel-16				
21	TDD Band n48	38.101-1, 6.4.2.1a	Rel-16				
22	TDD Band n50	38.101-1, 6.4.2.1a	Rel-16				
23	TDD Band n51	38.101-1, 6.4.2.1a	Rel-16				
24	TDD Band n53	38.101-1, 6.4.2.1a	Rel-16				
25	FDD Band n65	38.101-1, 6.4.2.1a	Rel-16				
26	FDD Band n66	38.101-1, 6.4.2.1a	Rel-16				
27	FDD Band n70	38.101-1, 6.4.2.1a	Rel-16				
28	FDD Band n71	38.101-1, 6.4.2.1a	Rel-16				
29	FDD Band n74	38.101-1, 6.4.2.1a	Rel-16				
30	TDD Band n77	38.101-1, 6.4.2.1a	Rel-16				
31	TDD Band n78	38.101-1, 6.4.2.1a	Rel-16				
32	TDD Band n79	38.101-1, 6.4.2.1a	Rel-16				
33	TDD Band n96	38.101-1, 6.4.2.1a	Rel-16				

NOTE 1: At least one band from those listed in the present table needs to be supported with enhanced transient capability of 2us, 4us or 7us if UE has indicated support of the capability defined in Table A.4.3.2-1/79.

NOTE 2: Indicate transient capability for each band by ticking the cell corresponding to the smallest enhanced transient capability that the UE supports for that band.

Table A.4.3.9-4e: 1 Rx antenna ports Capabilities

Item	Band	Ref.	Comments
1	FDD Band n1	38.101-1, 7.3I.2	
2	FDD Band n2	38.101-1, 7.3I.2	
3	FDD Band n3	38.101-1, 7.3I.2	
4	FDD Band n5	38.101-1, 7.3I.2	
5	FDD Band n8	38.101-1, 7.3I.2	
6	FDD Band n12	38.101-1, 7.3I.2	
7	FDD Band n13	38.101-1, 7.3I.2	
8	FDD Band n14	38.101-1, 7.3I.2	
9	FDD Band n18	38.101-1, 7.3I.2	
10	FDD Band n20	38.101-1, 7.3I.2	
11	FDD Band n24	38.101-1, 7.3I.2	
12	FDD Band n25	38.101-1, 7.3I.2	
13	FDD Band n26	38.101-1, 7.3I.2	
14	FDD Band n28	38.101-1, 7.3I.2	
15	FDD Band n30	38.101-1, 7.3I.2	
16	TDD Band n34	38.101-1, 7.3I.2	
17	TDD Band n39	38.101-1, 7.3I.2	
18	TDD Band n40	38.101-1, 7.3I.2	
19	TDD Band n50	38.101-1, 7.3I.2	
20	TDD Band n51	38.101-1, 7.3I.2	
21	TDD Band n53	38.101-1, 7.3I.2	
22	FDD Band n65	38.101-1, 7.3I.2	
23	FDD Band n66	38.101-1, 7.3I.2	
24	FDD Band n70	38.101-1, 7.3I.2	
25	FDD Band n71	38.101-1, 7.3I.2	
26	FDD Band n74	38.101-1, 7.3I.2	
27	FDD Band n85	38.101-1, 7.3I.2	
28	FDD Band n91	38.101-1, 7.3I.2	
29	FDD Band n92	38.101-1, 7.3I.2	
30	FDD Band n93	38.101-1, 7.3I.2	
31	FDD Band n94	38.101-1, 7.3I.2	
32	FDD Band n100	38.101-1, 7.3I.2	NOTE 2
33	TDD Band n101	38.101-1, 7.3I.2	
34	TDD Band n104	38.101-1, 7.3I.2	

NOTE 1: At least one band from those listed in the present table needs to be supported if UE has indicated support of the capability defined in Table A.4.3.1-7a/1.
NOTE 2: HD-FDD is not supported.

Table A.4.3.9-5: Beam Peak Search Vendor Declarations with respect to test frequency range for single CC

Item	Band	Intent	Ref.	Release	Comments
1	n257	n257 single CC beam peak is leveraged from mid to low and high channels	38.521-2, K.1.1 & K.1.2	Rel-15	NOTE 1
2	n258	n258 single CC beam peak is leveraged from mid to low and high channels	38.521-2, K.1.1 & K.1.2	Rel-15	NOTE 1.
3	n260	n260 single CC beam peak is leveraged from mid to low and high channels	38.521-2, K.1.1 & K.1.2	Rel-15	NOTE 1
4	n261	n261 single CC beam peak is leveraged from mid to low and high channels	38.521-2, K.1.1 & K.1.2	Rel-15	NOTE 1
5	n261	n261 single CC beam peak is leveraged from n257 single CC mid channel to n261 low, mid and high channels	38.521-2, K.1.1 & K.1.2	Rel-15	NOTE 2
NOTE 1: The beam peak searches shall be performed for every test frequency range by default unless the device manufacturer explicitly declares that the beam peak at the mid test frequency range is applicable for the remaining (low, high) test frequency ranges. NOTE 2: Beam peak search results can be re-used from bands that completely contain the target bands if explicitly declared by the manufacturer.					

Table A.4.3.9-6: Beam Peak Search Vendor Declarations with respect to test frequency range for different CA BW classes

Item	Bands	NR CA bandwidth class	Intent	Ref.	Release	Comments
1	n257, n258, n260, n261	A, B, C, D, E, F, G, H, I, J, K, L, M, O, P, Q	The beam peak is leveraged from a reference (frequency band, CBW) or (frequency band combination, CA BW class) to a group of other intra-band contiguous combinations and CA BW classes	38.521-2, K.1.1 & K.1.2	Rel-15	A beam peak search shall be performed for every intra-band contiguous combination and CA BW class by default unless the device manufacturer explicitly declares that the beam peak for a reference (frequency band, CBW) or (frequency band combination, CA BW class) is applicable for a group of other intra-band contiguous combinations and CA BW classes.

Table A.4.3.9-7: Beam Peak Search Vendor Declarations with respect to modulation for single CC

Item	Band	Intent	Ref.	Release	Comments
1	n257	n257 single CC beam peak is leveraged from QPSK modulation to 16QAM and 64QAM	38.521-2, K.1.1 & K.1.2	Rel-15	NOTE 1
2	n258	n258 single CC beam peak is leveraged from QPSK modulation to 16QAM and 64QAM	38.521-2, K.1.1 & K.1.2	Rel-15	NOTE 1
3	n260	n260 single CC beam peak is leveraged from QPSK modulation to 16QAM and 64QAM	38.521-2, K.1.1 & K.1.2	Rel-15	NOTE 1
4	n261	n261 single CC beam peak is leveraged from QPSK modulation to 16QAM and 64QAM	38.521-2, K.1.1 & K.1.2	Rel-15	NOTE 1
NOTE 1: The beam peak searches shall be performed for every modulation by default unless the device manufacturer explicitly declares that the beam peak at the QPSK modulation is applicable for the remaining 16QAM and 64QAM modulations.					

Table A.4.3.9-8: Beam Peak Search Vendor Declarations with respect to waveform for single CC

Item	Band	Intent	Reference Waveform	Ref.	Release	Comments
1	n257	n257 single CC beam peak is leveraged from the reference waveform to the other waveform	CP-OFDM or DFT-s-OFDM	38.521-2, K.1.1	Rel-15	NOTE 1
2	n258	n258 single CC beam peak is leveraged from the reference waveform to the other waveform	CP-OFDM or DFT-s-OFDM	38.521-2, K.1.1	Rel-15	NOTE 1
3	n260	n260 single CC beam peak is leveraged from the reference waveform to the other waveform	CP-OFDM or DFT-s-OFDM	38.521-2, K.1.1	Rel-15	NOTE 1
4	n261	n261 single CC beam peak is leveraged from the reference waveform to the other waveform	CP-OFDM or DFT-s-OFDM	38.521-2, K.1.1	Rel-15	NOTE 1
NOTE 1: The beam peak searches shall be performed for every waveform by default unless the device manufacturer explicitly declares that the beam peak from one waveform is applicable for the other waveform.						

Table A.4.3.9-9: Reference Point Vendor Declaration for grey-box test approach

Item	Band	Positioning Reference Point: Offset (*x*/*y*/*z*) from geometric centre of DUT [cm]	Minimum QZ required to contain all active antennas within the quiet zone	Ref.	Release
1	n257			38.508-1, B.2.2.2	Rel-15
2	n258			38.508-1, B.2.2.2	Rel-15
3	n260			38.508-1, B.2.2.2	Rel-15
4	n261			38.508-1, B.2.2.2	Rel-15
NOTE: The available QZ sizes are defined in TS 38.508-1, Clause B.2.2.2, i.e., 20cm, 30cm, 40cm, and 55cm					

Table A.4.3.9-10: Vendor Declarations with respect to PC3 antenna configuration

Item	Band	Intent	Ref.	Release	Comments
1	n257	n257 PC3 measurement grids can be relaxed based on 4x2 worst case antenna array configuration	38.521-2, M.2 – M.4	Rel-15	NOTE 1
2	n258	n258 PC3 measurement grids can be relaxed based on 4x2 worst case antenna array configuration	38.521-2, M.2 – M.4	Rel-15	NOTE 1
3	n259	n259 PC3 measurement grids can be relaxed based on 4x2 worst case antenna array configuration	38.521-2, M.2 – M.4	Rel-16	NOTE 1
43	n260	n260 PC3 measurement grids can be relaxed based on 4x2 worst case antenna array configuration	38.521-2, M.2 – M.4	Rel-15	NOTE 1
5	n261	n261 PC3 measurement grids can be relaxed based on 4x2 worst case antenna array configuration	38.521-2, M.2 – M.4	Rel-15	NOTE 1
NOTE 1: The fine PC3 measurement grids based on the 8x2 worst case configuration shall be applied by default unless the device manufacturer explicitly declares that all antenna arrays with M x N ($M \geq N$) comply with $M \leq 4$ and $N \leq 2$ for each band.					

Table A.4.3.9-10a: Vendor Declarations with respect to PC5 antenna configuration

Item	Band	Intent	Ref.	Release	Comments
1	n257	n257 PC5 measurement grids can be relaxed based on 6x6 worst case antenna array configuration	38.521-2, M.2 – M.4	Rel-15	NOTE 1
2	n258	n258 PC5 measurement grids can be relaxed based on 6x6 worst case antenna array configuration	38.521-2, M.2 – M.4	Rel-15	NOTE 1
NOTE 1: The fine PC5 measurement grids based on the 12x12 worst case configuration shall be applied by default unless the device manufacturer explicitly declares that all antenna arrays with M x N ($M \geq N$) comply with $M \leq 6$ and $N \leq 6$ for each band.					

Table A.4.3.9-11: Antenna Aperture Vendor Declaration

Item	Band	Antenna Aperture Declaration	Ref.	Release
1	n257	Maximum radiating aperture of any of the panels integrated in the DUTs is ≤5cm	38.508-1, B.2	Rel-15
2	n258	Maximum radiating aperture of any of the panels integrated in the DUTs is ≤5cm	38.508-1, B.2	Rel-15
3	n260	Maximum radiating aperture of any of the panels integrated in the DUTs is ≤5cm	38.508-1, B.2	Rel-15
4	n261	Maximum radiating aperture of any of the panels integrated in the DUTs is ≤5cm	38.508-1, B.2	Rel-15

Table A.4.3.9-12: NR FR1 UL MIMO Capabilities

Item	RF Baseline Implementation Capabilities	Ref.	Comments
1	NR Frequency band: 1920-1980 MHz, 2110-2170 MHz	38.101-1, 5.2D	NR FDD FR1 Band 1
2	NR Frequency band: 1850-1910 MHz, 1930-1990 MHz	38.101-1, 5.2D	NR FDD FR1 Band 2
3	NR Frequency band: 1710-1785 MHz, 1805-1880 MHz	38.101-1, 5.2D	NR FDD FR1 Band 3
...			
7	NR Frequency band: 832-862 MHz, 791-821 MHz	38.101-1, 5.2D	NR FDD FR1 Band 7
...			
25	NR Frequency band: 1850-1915 MHz, 1930-1995 MHz	38.101-1, 5.2D	NR FDD FR1 Band 25
...			
30[1]	NR Frequency band: 2305-2315 MHz, 2350-2360 MHz	38.101-1, 5.2D	NR FDD FR1 Band 30
...			
34	NR Frequency band: 2010-2025 MHz	38.101-1, 5.2D	NR TDD FR1 Band 34
...			
38	NR Frequency band: 2570-2620 MHz	38.101-1, 5.2D	NR TDD FR1 Band 38
39	NR Frequency band: 1880-1920 MHz	38.101-1, 5.2D	NR TDD FR1 Band 39
40	NR Frequency band: 2300-2400 MHz	38.101-1, 5.2D	NR TDD FR1 Band 40
41	NR Frequency band: 2496-2690 MHz	38.101-1, 5.2D	NR TDD FR1 Band 41
...			
46	NR Frequency band: 5150-5925 MHz	38.101-1, 5.2D	NR TDD FR1 Band 46
...			
48	NR Frequency band: 3550-3700 MHz	38.101-1, 5.2D	NR TDD FR1 Band 48
...			
66	NR Frequency band: 1710-1780, 2110-2200 MHz	38.101-1, 5.2D	NR FDD FR1 Band 66
...			
70	NR Frequency band: 1695-1710, 1995-2020 MHz	38.101-1, 5.2D	NR FDD FR1 Band 70
71[2]	NR Frequency band: 663-698 MHz, 617-652 MHz	38.101-1, 5.2D	NR FDD FR1 Band 71
...			
77	NR Frequency band: 3300–4200 MHz	38.101-1, 5.2D	NR TDD FR1 Band 77
78	NR Frequency band: 3300–3800 MHz	38.101-1, 5.2D	NR TDD FR1 Band 78
79	NR Frequency band: 4400–5000 MHz	38.101-1, 5.2D	NR TDD FR1 Band 79
95	NR Frequency band: 2010–2025 MHz	38.101-1, 5.2D	NR SUL FR1 Band 95
97	NR Frequency band: 2300–2400 MHz	38.101-1, 5.2D	NR SUL FR1 Band 97
98	NR Frequency band: 1880–1920 MHz	38.101-1, 5.2D	NR SUL FR1 Band 98
99	NR Frequency band: 1626.5–1660.5 MHz	38.101-1, 5.2D	NR SUL FR1 Band 99

NOTE 1: Uplink transmission is not allowed at this band for UE with external vehicle-mounted antennas.
NOTE 2: UL MIMO is targeted for FWA form factor.

Table A.4.3.9-13: NR FR2 UL MIMO Capabilities

Item	RF Baseline Implementation Capabilities	Ref.	Comments
257	NR Frequency band: 26500-29500 MHz	38.101-2, 5.2D	NR TDD FR2 Band 257
258	NR Frequency band: 24250-27500 MHz	38.101-2, 5.2D	NR TDD FR2 Band 258
259	NR Frequency band: 39500-43500 MHz	38.101-2, 5.2D	NR TDD FR2 Band 259
260	NR Frequency band: 37000–40000 MHz	38.101-2, 5.2D	NR TDD FR2 Band 260
261	NR Frequency band: 27500–28350 MHz	38.101-2, 5.2D	NR TDD FR2 Band 261

A.4.3.10 Sidelink Capabilities

Table A.4.3.10-1: NR Sidelink Capabilities

Item	UE Sidelink Capabilities	Ref.	Release	Mnemonic	M	If indicated "Yes" the feature shall be implemented and successfully tested for the corresponding release	Comments
1	Support transmitting NR sidelink mode 1 scheduled by Uu	38.306, 4.2.16.1.6	Rel-16	pc_NR_sl_TransmissionMode1_r16	No		
2	Support of NR sidelink transmission mode 2	38.306, 4.2.16.1.6	Rel-16	pc_NR_sl_TransmissionMode2_r16	No		
3	Support of sidelink CSI report with 2 antenna ports	38.306, 4.2.16.1.6	Rel-16	pc_NR_sl_csi_rs_portssidelink_p2	No		
4	Support of out of order delivery of data to upper layers by PDCP for sidelink	38.306, 4.2.16.1.2	Rel-16	pc_outOfOrderDeliverySidelink_r16	No		
5	Support of AM DRB with 18 bit length of RLC sequence number for sidelink	38.306, 4.2.16.1.3	Rel-16	pc_amWithLongSN_Sidelink_r16	No		
6	Support of UM DRB with 12 bit length of RLC sequence number for sidelink	38.306, 4.2.16.1.3	Rel-16	pc_umWithLongSN_Sidelink_r16	No		
7	supports receiving 5 PSFCH resources in a slot	38.306, 4.2.16.1.6	Rel-16	pc_psfch_RxNumber_n5	No		
8	supports receiving 15 PSFCH resources in a slot	38.306, 4.2.16.1.6	Rel-16	pc_psfch_RxNumber_n15	No		
9	supports receiving 25 PSFCH resources in a slot	38.306, 4.2.16.1.6	Rel-16	pc_psfch_RxNumber_n25	No		
10	supports receiving 32 PSFCH resources in a slot	38.306, 4.2.16.1.6	Rel-16	pc_psfch_RxNumber_n32	No		
11	supports receiving 35 PSFCH resources in a slot	38.306, 4.2.16.1.6	Rel-16	pc_psfch_RxNumber_n35	No		
12	supports receiving 45 PSFCH resources in a slot	38.306, 4.2.16.1.6	Rel-16	pc_psfch_RxNumber_n45	No		
13	supports receiving 50 PSFCH resources in a slot	38.306, 4.2.16.1.6	Rel-16	pc_psfch_RxNumber_n50	No		
14	supports receiving 64 PSFCH resources in a slot	38.306, 4.2.16.1.6	Rel-16	pc_psfch_RxNumber_n64	No		
15	supports transmitting 4 PSFCH resources in a slot	38.306, 4.2.16.1.6	Rel-16	pc_psfch_TxNumber_n4	No		
16	supports transmitting 8 PSFCH resources in a slot	38.306, 4.2.16.1.6	Rel-16	pc_psfch_TxNumber_n8	No		
17	supports transmitting 16 PSFCH resources in a slot	38.306, 4.2.16.1.6	Rel-16	pc_psfch_TxNumber_n16	No		
18	supports 16 SL HARQ processes for NR PSSCH reception across all links	38.306, 4.2.16.1.6	Rel-16	pc_harq_RxProcessSidelink_n16	No		

19	supports 24 SL HARQ processes for NR PSSCH reception across all links	38.306, 4.2.16.1.6	Rel-16	pc_harq_RxProcessSidelink_n24	No		
20	supports 32 SL HARQ processes for NR PSSCH reception across all links	38.306, 4.2.16.1.6	Rel-16	pc_harq_RxProcessSidelink_n32	No		
21	supports 48 SL HARQ processes for NR PSSCH reception across all links	38.306, 4.2.16.1.6	Rel-16	pc_harq_RxProcessSidelink_n48	No		
22	supports 64 SL HARQ processes for NR PSSCH reception across all links	38.306, 4.2.16.1.6	Rel-16	pc_harq_RxProcessSidelink_n64	No		

A.4.3.11 High Speed Capabilities

Table A.4.3.11-1: High Speed Capabilities

Item	UE High Speed Capabilities	Ref.	Release	Mnemonic	M	If indicated "Yes" the feature shall be implemented and successfully tested for the corresponding release	Comments
1	Support the enhanced intra-NR and inter-RAT E-UTRAN measurement requirements to support high speed up to 500 km/h	38.306, 4.2.19	Rel-16	pc_hst_meas_enh_r16	No		
2	Support the enhanced demodulation processing for HST-SFN joint transmission scheme with velocity up to 500km/h	38.306, 4.2.19	Rel-16	pc_hst_demod_enh_r16	No		
3	Support the enhanced intra-NR RRM requirements to support high speed up to 500 km/h	38.306, 4.2.19	Rel-16	pc_hst_intraNR_meas_enh_r16	No		This PICS can only be set to true when pc_hst_meas_enh_r16 is set to false. Up to one PICS between pc_hst_intraNR_meas_enh_r16 and pc_hst_interRAT_meas_enh_r16 can be set to true
4	Supports the enhanced inter-RAT E-UTRAN RRM requirements to support high speed up to 500 km/h	38.306, 4.2.19	Rel-16	pc_hst_interRAT_meas_enh_r16	No		This PICS can only be set to true when pc_hst_meas_enh_r16 is set to false. Up to one PICS between pc_hst_intraNR_meas_enh_r16 and pc_hst_interRAT_meas_enh_r16 can be set to true
5	Support for enhanced inter-RAT NR measurement requirements in high speed scenario	36.306,4.3.33.7	Rel-16	pc_hst_interRAT_NR_meas_enh_r16	No		
6	Supports the enhanced RRM requirements for carrier aggregation to support high speed up to 500 km/h	38.306, 4.2.19	Rel-17	pc_hst_RRM_CA_enh_r17	No		FR1 only UE indicating support of this feature shall indicate support of measurementEnhancement-r16 or intraNR-MeasurementEnhancement-r16.

7	Supports the enhanced RRM requirements for inter-frequency measurements in connected mode to support high speed up to 500 km/h	38.306, 4.2.19	Rel-17	pc_hst_RRM_interfreq_meas_enh_r17	No		FR1 only UE indicating support of this feature shall indicate support of measurementEnhancement-r16 or intraNR-MeasurementEnhancement-r16.
8	Support the enhanced RRM requirements for inter-frequency IDLE/INACTIVE measurements to support high speed up to 500 km/h	38.306, 5.6	Rel-17	pc_hst_RRM_interfreq_idle_inactive_meas_enh_r17	No		FR1 only UE indicating support of this feature shall indicate support of measurementEnhancement-r16 or intraNR-MeasurementEnhancement-r16.

A.4.3.12 RedCap Capabilities

According to TS 38.306 [17] clause 4.2.21:

CA, MR-DC, DAPS, CPAC and IAB (i.e the RedCap IE is not expected to act as IAB mode) related UE features and corresponding capabilities are not supported by the RedCap UEs.

- PICS associated to the following features are as below:
  - CA: PICS defined in clause A.4.3.2A;
  - MR-DC: PICS defined in clause A.4.3.2B;
  - DAPS: PICS include pc_intraFreqDAPS_r16, interFreqDAPS_r16 and other DAPS related PICS;
  - CPAC: PICS include pc_condPSCellChange_r16 and other CPAC related PICS.
- UE features and corresponding capabilities related to more than 2 UE Rx branches or more than 2 DL MIMO layers, as well as UE features and capabilities related to more than 1 UE Tx branches or more than 1 UL MIMO layers are not supported by RedCap UE.
- For FR1, 1 DL MIMO layer if 1 Rx branch is supported, and 2 DL MIMO layers if 2 Rx branches are supported.
- For FR2, either 1 or 2 DL MIMO layers can be supported, while 2 Rx branches are always supported.

Table A.4.3.12-1: RedCap UE Capabilities

Item	UE Capabilities	Ref.	Release	Mnemonic	M	If indicated "Yes" the feature shall be implemented and successfully tested for the corresponding release	Comments
1	Support of 16 DRBs for RedCap UEs.	38.306, 4.2.21.2	Rel-17	pc_supportOf16DRB_RedCap_r17	No		
2	Support of RedCap.	38.306, 4.2.21.2	Rel-17	pc_supportOfRedCap_r17	No		This PICS shall always be true for RedCap UE.
3	Void						
4	Void						
5	Support of Half-duplex FDD operation (instead of full-duplex FDD operation) type A for RedCap UE.	38.306 4.2.21.6.1	Rel-17	pc_halfDuplexFDD_TypeA_RedCap_r17	No		FDD FR1 only
6	Support of relaxed RRM measurements in RRC_CONNECTED for RedCap UE.	38.306 4.2.21.5	Rel-17	pc_rrm_RelaxationRRC_ConnectedRedCap_r17	No		
7	Support of initiating UE Assistance Information procedure immediately upon change of its fulfilment status for RRM measurement relaxation criterion for connected mode.	TS 38.331 5.7.4.2	Rel-17	pc_UAI_rrm_RelaxationRRC_ConnectedRedCap	No		The UE will initiate UE Assistance Information procedure immediately upon change of its fulfilment status for RRM measurement relaxation criterion for connected mode. It is only applicable for RedCap UE.

A.4.3.13 Multi-SIM Capabilities

Table A.4.3.13-1: Multi-SIM Capabilities

Item	UE Sidelink Capabilities	Ref.	Release	Mnemonic	M	If indicated "Yes" the feature shall be implemented and successfully tested for the corresponding release	Comments
1	Support one or more Multi-SIM features include N1 NAS signalling connection release/Paging indication for voice services/Reject paging request/Paging restriction/IMSI offset and so on.	24.501, 4.25	Rel-17	pc_5GC _MUSIM	No		
2	Support of Multi-SIM N1 NAS signalling connection release	24.501, 4.25	Rel-17	pc_5GC_MUSIM_NCR	No		
3	Support of Multi-SIM Paging indication for voice services	24.501, 4.25	Rel-17	pc_5GC_MUSIM_PIV	No		
4	Support of Multi-SIM Reject paging request	24.501, 4.25	Rel-17	pc_5GC_MUSIM_RPR	No		
5	Support of Multi-SIM Paging restriction	24.501, 4.25	Rel-17	pc_5GC_MUSIM_PR	No		A UE support Pging restriction shall support: - N1 NAS signalling connection release or - Reject paging request or - both of them
6	Supports providing MUSIM assistance information with MUSIM gap preference and related MUSIM gap configuration	38.306 4.2.2	Rel-17	pc_musim_GapPreference_r17	No		UE supporting this feature supports 3 periodic gaps and 1 aperiodic gap.
7	Supports providing MUSIM assistance information with indication of leaving RRC_CONNECTED state	38.306 4.2.2	Rel-17	pc_musimLeaveConnected_r17	No		

A.4.3.14 MBS Capabilities

Table A.4.3.14-1: MBS Capabilities

Item	UE Sidelink Capabilities	Ref.	Release	Mnemonic	M	If indicated "Yes" the feature shall be implemented and successfully tested for the corresponding release	Comments
1	Support of broadcast reception.	38.306, 5.10	Rel-17	pc_Broadcast_reception	No		
2	Support of dynamic scheduling for multicast for PCell.	38.306, 4.2.7.5	Rel-17	pc_dynamicMulticastPCell_r17	No		
3	Support of ACK/NACK based HARQ-ACK feedback and RRC-based enabling/disabling ACK/NACK-based feedback for dynamic scheduling for multicast.	38.306, 4.2.7.4	Rel-17	pc_ack_NACK_Feedback ForMulticast_r17	No		This PICS can only be set to true when pc_dynamicMulticastPCell_ r17 is set to true.
4	Support of PTP retransmission for multicast on the same cell as multicast initial transmission.	38.306, 4.2.7.4	Rel-17	pc_ptp_Retx_Multicast_r17	No		This PICS can only be set to true when pc_ack_NACK_Feedback ForMulticast_r17 is set to true.
5	Support of NACK-only based HARQ-ACK feedback for multicast with ACK/NACK transforming	38.306, 4.2.7.4	Rel-17	pc_nack_OnlyFeedback ForMulticast_r17	No		This PICS can only be set to true when pc_ack_NACK_Feedback ForMulticast_r17 is set to true.
6	Support of NACK-only based HARQ-ACK feedback for multicast corresponding to a specific sequence or a PUCCH transmission	38.306, 4.2.7.4	Rel-17	pc_nack_OnlyFeedback SpecificResourceForMulticast_r17	No		This PICS can only be set to true when pc_nack_OnlyFeedback ForMulticast_r17 is set to true.
7	Support of multiplexing HARQ-ACK for unicast and for multicast with the same priority and different HARQ-ACK codebook types in a PUCCH or in a PUSCH.	38.306, 4.2.7.4	Rel-17	pc_mux_HARQ_ACK_ UnicastMulticast_r17	No		

A.4.4 Additional information

Table A.4.4-1: Additional information

Item	Additional information	Ref.	Release	Mnemonic	Comments
1	Support of ICMP or ICMP IPv6	RFC 792 OR RFC 4443, RFC 4884	NA	pc_IP_Ping	UE supports ICMP or ICMPv6 protocol to enable IP Ping Operation
2	Support of IMS	24.229, Annex U	Rel-15	pc_IMS_5GS	
3	Support of rachReport	38.306, 4.2.17	Rel-16	pc_rachReport_r16	UE supports delivery of rachReport upon request from the network.
4	Support of GNSS	38.306, 4.2.18	Rel-16	pc_GNSS_location_r16	UE is equipped with a GNSS or A-GNSS receiver that may be used to provide detailed location information along with SON or MDT related measurements in RRC_CONNECTED, RRC_IDLE and RRC_INACTIVE.
5	Support of UL PDCP Packet Average Delay	38.306, 4.2.18	Rel-16	pc_PDCP_Delay_r16	UE supports UL PDCP Packet Average Delay measurement and reporting in RRC_CONNECTED state
6	Support logged MDT	38.306, 4.2.18	Rel-16	pc_loggedMeasurements_r16	UE supports logged measurements in RRC_IDLE and RRC_INACTIVE. A UE that supports logged measurements shall support both periodical logging and event-triggered logging. The memory size of MDT logged measurements is 64KB.
7	Support of uncompensated barometric pressure measurement reporting	38.306, 4.2.18	Rel-16	pc_barometer_r16	UE supports uncompensated barometric pressure measurement reporting upon request from the network.
8	Support of orientation information reporting	38.306, 4.2.18	Rel-16	pc_orientation_r16	UE supports orientation information reporting upon request from the network.
9	Support of speed information reporting	38.306, 4.2.18	Rel-16	pc_speed_r16	UE supports speed information reporting upon request from the network.
10	Support of Bluetooth measurements in RRC_CONNECTED state	38.306, 4.2.18	Rel-16	pc_immMeasBT_r16	UE supports Bluetooth measurements in RRC_CONNECTED state.
11	Support of WLAN measurements in RRC_CONNECTED state	38.306, 4.2.18	Rel-16	pc_immMeasWLAN_r16	UE supports WLAN measurements in RRC_CONNECTED state.
12	Support of Bluetooth measurements in RRC_IDLE and RRC_INACTIVE state	38.306, 4.2.18	Rel-16	pc_loggedMeasBT_r16	UE supports Bluetooth measurements in RRC_IDLE and RRC_INACTIVE state.
13	Support of WLAN measurements in RRC_IDLE and RRC_INACTIVE state	38.306, 4.2.18	Rel-16	pc_loggedMeasWLAN_r16	UE supports WLAN measurements in RRC_IDLE and RRC_INACTIVE state.
14	Support of SDT in RRC_INACTIVE state via Random Access Procedure	38.306, 4.2.2	Rel-17	pc_ra_SDT_r17	UE supports SDT via Random Access procedure in RRC_INACTIVE state
15	Support of SRB SDT in RRC_INACTIVE state	38.306, 4.2.2	Rel-17	pc_srb_SDT_r17	UE supports SRB SDT in RRC_INACTIVE state
16	Support of SDT in RRC_INACTIVE state via Configured Grant Type 1	38.306, 4.2.7.2	Rel-17	pc_cg_SDT_r17	UE supports SDT via Configured Grant Type 1 in RRC_INACTIVE state
17	Support of NR NTN access	38.306, 4.2.2	Rel-17	pc_nonTerrestrialNetwork_r17	UE supports NR NTN access.

Item	Additional information	Ref.	Release	Mnemonic	Comments
18	Support of RRC INACTIVE state in NTN	38.331, 6.3.3	Rel-17	pc_inactiveStateNTN_r17	UE supports RRC INACTIVE state in NTN
19	Support of RA-SDT in NTN	38.331, 6.3.3	Rel-17	pc_ra_SDT_NTN_r17	UE supports RA-SDT in NTN
20	Support of SRB-SDT in NTN	38.331, 6.3.3	Rel-17	pc_srb_SDT_NTN_r17	UE supports SRB-SDT in NTN
21	Support of storage and delivery of multiple CEF reports	38.306, 4.2.18	Rel-17	pc_multiple_CEF_Report_r17	UE supports the storage and delivery of multiple CEF reports upon request from the network
22	Support of the storage of Early Measurement Logging in logged measurements.	38.306, 4.2.18	Rel-17	pc_earlyMeasLog_r17	UE supports the storage of Early Measurement Logging in logged measurements and the reporting upon request from the network as specified in TS 38.331
23	Support of IDC problem detection	38.331, 6.2.2	Rel-17	pc_inDeviceCoexDetected_r17	UE supports that measurement logging is suspended due to IDC problem detection

Table A.4.4-2: Definition of UE implementation capabilities

Item	Definition of UE implementation capabilities	Ref.	Release	Mnemonic	Comments
1	Void				
2	Void				
3	Number of UE-requested PDU session establishments after REGISTRATION during the same signalling connection	24.501	Rel-15	pc_noOf_PDUsSameConnection	
4	Number of UE-requested PDU session establishments after REGISTRATION in a new signalling connection	24.501	Rel-15	pc_noOf_PDUsNewConnection	
5	Number of UE-requested PDN connection establishments after ATTACH during the same signalling connection	24.301	Rel-15	pc_noOf_PDNsSameConnection	
6	Number of UE-requested PDN connection establishments after ATTACH in a new signalling connection	24.301	Rel-15	pc_noOf_PDNsNewConnection	
7	Void				
8	Support of Emergency PDU session transfer from N1 mode to S1 mode when network does not support N26 interface	TS 24.501, 6.1.4.2	Rel-15	pc_TransferEmergencyPDUN1toS1noN26	Will the UE attempt to transfer an existing Emergency PDU session upon inter-system change from N1 mode to S1 mode in EMM-IDLE mode if the network does not support N26 interface
9	Support of Emergency PDN connection transfer from S1 mode to N1 mode when network does not support N26 interface	TS 24.501, 6.1.4.2	Rel-15	pc_TransferEmergencyPDUS1toN1noN26	Will the UE attempt to transfer an existing Emergency PDN connection upon inter-system change from S1 mode to N1 mode in EMM-IDLE mode if the network does not support N26 interface
10	Support of UE's usage setting as data centric	TS 24.501, 4.3.1	Rel-15	pc_data_centric	UE supports to be configured to consistently behave as a Data centric UE.
11	Support of join in MBS multicast session by sending a PDU Session Modification Request	TS 23.247 7.2.1	Rel-17	pc_Join_MBS_by_PDU_Modification	If pc_Join_MBS_by_PDU_Modification, UE join in MBS multicast session by sending a PDU Session Modification Request, else UE join in MBS multicast session by sending a PDU Session Establishment Request

Table A.4.4-2A: UE APN/DNN Implementation details

Parameter Name	Parameter Type	Supported Value	Description
pc_APN_Default_Configuration	enumerated	none, internet, ims, urllc, miot, v2x, ethernet, mbs	The DNN/APN configuration specified in TS 38.508-1 [2], Table 4.8.4-1 which is to be used for the default DNN/APN. The value provided shall match one of the DNN/APN types if a Default DNN will be established, e.g. internet, ims, etc. or shall be set to none if the UE will not establish default DNN/APN.
pc_APN_ID_Internet	charstring		APN/DNN ID of type Internet (NOTE 1) The APN/DNN Network Identifier portion of the Access Point / Data Network Name, as defined in TS 23.003 [26], subclause 9.1 OR "none" if the UE will not establish PDN/PDU of type Internet If the provided value is different to "none" then for this APN/DNN the DNN/APN configuration of type "Internet" as specified in TS 38.508-1 [2], Table 4.8.4-1 applies.
pc_APN_ID_IMS	charstring		APN/DNN ID of type IMS (NOTE 1) The APN/DNN Network Identifier portion of the Access Point / Data Network Name, as defined in TS 23.003 [26], subclause 9.1 OR "none" if the UE will not establish PDN/PDU of type IMS If the provided value is different to "none" then for this APN/DNN the DNN/APN configuration of type "IMS" as specified in TS 38.508-1 [2], Table 4.8.4-1 applies.
pc_APN_ID_URLLC	charstring		APN/DNN ID of type URLLC (NOTE 1) The APN/DNN Network Identifier portion of the Access Point / Data Network Name, as defined in TS 23.003 [26], subclause 9.1 OR "none" if the UE will not establish PDN/PDU of type URLLC If the provided value is different to "none" then for this APN/DNN the DNN/APN configuration of type "URLLC" as specified in TS 38.508-1 [2], Table 4.8.4-1 applies.
pc_APN_ID_MIOT	charstring		APN/DNN ID of type MIoT (NOTE 1) The APN/DNN Network Identifier portion of the Access Point / Data Network Name, as defined in TS 23.003 [26], subclause 9.1 OR "none" if the UE will not establish PDN/PDU of type MIoT If the provided value is different to "none" then for this APN/DNN the DNN/APN configuration of type "MIoT" as specified in TS 38.508-1 [2], Table 4.8.4-1 applies.

pc_APN_ID_V2X	charstring		APN/DNN ID of type V2X (NOTE 1) The APN/DNN Network Identifier portion of the Access Point / Data Network Name, as defined in TS 23.003 [26], subclause 9.1 OR "none" if the UE will not establish PDN/PDU of type V2X If the provided value is different to "none" then for this APN/DNN the DNN/APN configuration of type "V2X" as specified in TS 38.508-1 [2], Table 4.8.4-1 applies.
pc_APN_ID_Ethernet	charstring		APN/DNN ID of type Ethernet (NOTE 1) The APN/DNN Network Identifier portion of the Access Point / Data Network Name, as defined in TS 23.003 [26], subclause 9.1 OR "none" if the UE will not establish PDN/PDU of type Ethernet If the provided value is different to "none" then for this APN/DNN the DNN/APN configuration of type "Ethernet" as specified in TS 38.508-1 [2], Table 4.8.4-1 applies.
pc_APN_ID_MBS	charstring		APN/DNN ID of type MBS (NOTE 1) The APN/DNN Network Identifier portion of the Access Point / Data Network Name, as defined in TS 23.003 [26], subclause 9.1 OR "none" if the UE will not establish PDN/PDU of type MBS If the provided value is different to "none" then for this APN/DNN the DNN/APN configuration of type "MBS" as specified in TS 38.508-1 [2], Table 4.8.4-1 applies.

NOTE 1: For each UE, the APN/DNN IDs which will be used during for PDN/PDU establishment shall be provided. These shall cover both: The APN/DNN IDs which the UE will provide itself in the PDN/PDU establishment request, and, An APN/DNN ID which the UE will prefer to be assigned by the SS in the case of Default APN/DNN, if the UE utilises Provided and/or Default APN/DNN.

Annex B (informative): Status of NR band and NR CA, NR-DC, EN-DC, NE-DC and NR SUL configurations in 3GPP UE conformance test specifications

See attached document "PRD21 5G NR bands and CADC configurations list v1.4.0.zip" for the status of NR and V2X bands and its power classes, and NR-DC, EN-DC, NE-DC, NR SUL and V2X configurations and its power classes in the version of 3GPP UE conformance test specifications as indicated in the header of this document.

Annex C (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
2021-03	RAN#91	R5-211839	0159	1	F	Adding PICS for SUL with DL CA configurations	17.0.0
2021-06	RAN#92	R5-212120	0174	-	F	Updating UE capabilities for Rel-17 EN-DC band combinations within FR1	17.1.0
2021-06	RAN#92	R5-212136	0175	-	F	Updating UE capabilities for R17 NR inter-band CA configurations in FR1	17.1.0
2021-06	RAN#92	R5-212199	0177	-	F	Update of Table A.4.3.2B.2.3.6-2 - DC_8A_n257A	17.1.0
2021-06	RAN#92	R5-212568	0180	-	F	Corrections to Table A.4.3.2A.4.1-3 for NR Inter-band CA within FR1 and two bands	17.1.0
2021-06	RAN#92	R5-212830	0188	-	F	Correction of A.4.1 for UE implementation types for SA CA UE radio technologies	17.1.0
2021-06	RAN#92	R5-212831	0189	-	F	Correction of A.4.3.9 for additional capabilities for UE declared capability	17.1.0
2021-06	RAN#92	R5-212834	0191	-	F	Update of A.4.3.2A.2.2 for capabilities for NR intra-band contiguous CA within FR2	17.1.0
2021-06	RAN#92	R5-212835	0192	-	F	Update of A.4.3.2A.3.1 for capabilities for NR intra-band non-contiguous CA within FR1	17.1.0
2021-06	RAN#92	R5-212836	0193	-	F	Update of A.4.3.2A.4.1 for capabilities for NR inter-band CA within FR1	17.1.0
2021-06	RAN#92	R5-212837	0194	-	F	Update of A.4.3.2B.1 for capabilities for NR-DC	17.1.0
2021-06	RAN#92	R5-212838	0195	-	F	Update of A.4.3.2B.2.3.8 for capabilities for EN-DC including FR2	17.1.0
2021-06	RAN#92	R5-212854	0197	-	F	Addition of suffix for Mnemonic pc_pusch_halfpiBPSK to differentiate FR1 and FR2	17.1.0
2021-06	RAN#92	R5-212855	0198	-	F	Addition of ENDC NR part power class parameter	17.1.0
2021-06	RAN#92	R5-212931	0200	-	F	Addition of PICS for NR sidelink RF testing	17.1.0
2021-06	RAN#92	R5-212938	0201	-	F	Adding PICS for eMIMO single DCI based SDM	17.1.0
2021-06	RAN#92	R5-212947	0202	-	F	Adding PICS for URLLC low BLER	17.1.0
2021-06	RAN#92	R5-212987	0204	-	F	Introducing Rel-16 CA configuration CA_n28A-n41A	17.1.0
2021-06	RAN#92	R5-213006	0205	-	F	Introducing Rel-17 new SUL or CA configurations	17.1.0
2021-06	RAN#92	R5-213191	0210	-	F	Introduce PICS for NR URLLC	17.1.0
2021-06	RAN#92	R5-213258	0215	-	F	Addition of PC2 EN-DC DC_1A-n78A into RF Baseline implementation Capabilities	17.1.0
2021-06	RAN#92	R5-213374	0217	-	F	Introduce PICS for 2-step RACH	17.1.0
2021-06	RAN#92	R5-213406	0218	-	F	Addition of capability for NR Sidelink Transmission Mode 2	17.1.0
2021-06	RAN#92	R5-213453	0179	1	F	Addition of Emergency PDU-PDN transfer capabilities	17.1.0
2021-06	RAN#92	R5-213454	0216	1	F	Corrections and Addition of NR PICS	17.1.0
2021-06	RAN#92	R5-213552	0173	1	F	Add new UE capability for Rel-16 NR Mobility Enhancement	17.1.0
2021-06	RAN#92	R5-213575	0185	1	F	Addition of PICS for Rel-16 NPN	17.1.0
2021-06	RAN#92	R5-213581	0184	1	F	Addition of PICS for Test function for RACS	17.1.0
2021-06	RAN#92	R5-213602	0182	1	F	Update of Additional information	17.1.0
2021-06	RAN#92	R5-213642	0183	1	F	Addition of common ICS in A.4.3.7 for Rel-16 NSSAA	17.1.0
2021-06	RAN#92	R5-213646	0209	1	F	Addition of PICs for SST handling	17.1.0
2021-06	RAN#92	R5-213835	0212	1	F	CR to 38.508-2 on Optional 4x2 PC3 Antenna Array Configuration	17.1.0
2021-06	RAN#92	R5-213965	0181	1	F	Addition of CA_n41C-n79A	17.1.0

2021-06	RAN#92	R5-213966	0186	1	F	Addition of A.4.3.2A.5 for capabilities for NR inter-band CA within FR2	17.1.0
2021-06	RAN#92	R5-213967	0187	1	F	Addition of A.4.3.2A.6 for capabilities for NR inter-band CA between FR1 and FR2	17.1.0
2021-06	RAN#92	R5-213968	0190	1	F	Update of A.4.3.2A.2.1 for capabilities for NR intra-band contiguous CA within FR1	17.1.0
2021-06	RAN#92	R5-213969	0206	1	F	Introduction of CA_n48(2A)	17.1.0
2021-06	RAN#92	R5-214020	0172	1	F	Updating A.4.3.2C for Rel-17 SUL combinations	17.1.0
2021-06	RAN#92	R5-214027	0178	1	F	UL power boosting via suspended IBE requirements	17.1.0
2021-06	RAN#92	R5-214044	0213	1	F	CR to 38.508-2 on larger quiet zone with grey-box approach	17.1.0
2021-09	RAN#93	R5-214334	0220	-	F	Introduction of ICS for NR-U	17.2.0
2021-09	RAN#93	R5-214441	0221	-	F	Corrections and Addition of NR PICS	17.2.0
2021-09	RAN#93	R5-214565	0222	-	F	Addition of PICS for relaxed RRM measurement	17.2.0
2021-09	RAN#93	R5-214771	0226	-	F	Correction to NR capability	17.2.0
2021-09	RAN#93	R5-214934	0227	-	F	Introduce PICS for NR URLLC	17.2.0
2021-09	RAN#93	R5-215078	0232	-	F	Addition of PICS for V2X SL-MIMO test cases	17.2.0
2021-09	RAN#93	R5-215095	0233	-	F	Adding PICS for eMIMO demod test cases	17.2.0
2021-09	RAN#93	R5-215135	0236	-	F	Addition of capability for NR Sidelink Transmission Mode 2	17.2.0
2021-09	RAN#93	R5-215161	0237	-	F	Addition of PICS for Rel-16 release preference assistance information	17.2.0
2021-09	RAN#93	R5-215184	0238	-	F	Addition of UE capability for low PAPR DMRS	17.2.0
2021-09	RAN#93	R5-215281	0241	-	F	Introduction of CA_n71(2A)	17.2.0
2021-09	RAN#93	R5-215310	0242	-	F	Introduction of UE capabilities for R17 SUL band n97	17.2.0
2021-09	RAN#93	R5-215357	0244	-	F	Updating UE capability for NR inter-band EN-DC configurations	17.2.0
2021-09	RAN#93	R5-215581	0255	-	F	CR on Antenna Aperture Declarations	17.2.0
2021-09	RAN#93	R5-215838	0228	1	F	Addition of PICs for inter-RAT SFTD measurements	17.2.0
2021-09	RAN#93	R5-215839	0245	1	F	Update of A.4.3.2A.4.1 for implementation capabilities for NR inter-band CA within FR1 for two bands	17.2.0
2021-09	RAN#93	R5-215840	0246	1	F	Update of A.4.3.2A.4.2 for implementation capabilities for NR inter-band CA within FR1 for three bands	17.2.0
2021-09	RAN#93	R5-215841	0247	1	F	Update of A.4.3.2A.3.1 for implementation capabilities for NR intra-band non-contiguous CA within FR1	17.2.0
2021-09	RAN#93	R5-215842	0248	1	F	Update of A.4.3.2A.3.2 for implementation capabilities for NR intra-band non-contiguous CA within FR2	17.2.0
2021-09	RAN#93	R5-215843	0249	1	F	Update of A.4.3.2A.2.1 for implementation capabilities for NR intra-band contiguous CA within FR1	17.2.0
2021-09	RAN#93	R5-215844	0250	1	F	Update of A.4.3.2A.2.2 for implementation capabilities for NR intra-band contiguous CA within FR2	17.2.0
2021-09	RAN#93	R5-215930	0229	1	F	Addition of PICs for Mob_Enh TCs	17.2.0
2021-09	RAN#93	R5-215933	0225	1	F	Introduction of UE capabilities for UL full power Tx rel-16 for UL MIMO	17.2.0
2021-09	RAN#93	R5-215943	0231	1	F	Addition of PICs for NR HST TCs	17.2.0
2021-09	RAN#93	R5-215951	0234	1	F	Addition of PICS for URLLC test cases	17.2.0
2021-09	RAN#93	R5-215961	0239	1	B	Introduction of n24 and n99	17.2.0
2021-09	RAN#93	R5-215982	0235	1	F	Update of PC2 EN-DC configuration into 38.508-2	17.2.0
2021-09	RAN#93	R5-216028	0224	1	F	Correction to Physical Layer Baseline Implementation Capabilities	17.2.0
2021-09	RAN#93	R5-216106	0251	1	F	Editorial corrections of A.4.3.2B.2.3.1 for inter-band EN-DC within FR1	17.2.0
2021-09	RAN#93	R5-216115	0219	1	F	Updating UE capabilities for Rel-17 CA,DC,SUL band combinations within FR1 into TS 38.508-2	17.2.0
2021-09	RAN#93	R5-216257	0223	1	F	Introduction of common implementation conformance statements for Multi configured uplink grants in NR IIoT	17.2.0
2021-09	RAN#93	R5-216258	0253	1	F	Addition of PIC for MIoT SST	17.2.0
2021-09	RAN#93	R5-216271	0254	1	F	Addition of PIC for V2X SST	17.2.0
2021-12	RAN#94	R5-216465	0256	-	F	Introduction of PC1.5 n79 ICS	17.3.0
2021-12	RAN#94	R5-216466	0257	-	F	Introduction of PC2 n34 ICS	17.3.0
2021-12	RAN#94	R5-216467	0258	-	F	Introduction of PC2 n39 ICS	17.3.0
2021-12	RAN#94	R5-216554	0260	-	F	Addition of Power Class 1.5 implementation capability for n77 and n78	17.3.0
2021-12	RAN#94	R5-217009	0263	-	F	Add UE capability for NR MobEnh	17.3.0
2021-12	RAN#94	R5-217260	0269	-	F	Introduction of 9 new FR1 CA combos	17.3.0
2021-12	RAN#94	R5-217299	0270	-	F	Addition of physical baseline implementation capabilities for Rel-15 EN-DC configurations	17.3.0
2021-12	RAN#94	R5-217318	0271	-	F	Addition of ICS for UE type II PMI repoering capability	17.3.0
2021-12	RAN#94	R5-217352	0272	-	F	Update of A.4.3.1 for implementation capabilities for NR bands	17.3.0
2021-12	RAN#94	R5-217353	0273	-	F	Update of A.4.3.2A.2 for supported configurations for NR intra-band contiguous CA	17.3.0
2021-12	RAN#94	R5-217354	0274	-	F	Update of A.4.3.2A.3 for supported configurations for NR intra-band non-contiguous CA	17.3.0
2021-12	RAN#94	R5-217355	0275	-	F	Update of A.4.3.2A.4 for supported configurations for NR inter-band CA	17.3.0
2021-12	RAN#94	R5-217356	0276	-	F	Update of A.4.3.2B.2.1 for supported bandwidth classes for intra-band contiguous EN-DC configurations	17.3.0

2021-12	RAN#94	R5-217357	0277	-	F	Update of A.4.3.2B.2.2 for supported bandwidth classes for intra-band non-contiguous EN-DC configurations	17.3.0
2021-12	RAN#94	R5-217358	0278	-	F	Update of A.4.3.2B.2.3.1 to A.4.3.2B.2.3.5 for supported inter-band EN-DC configurations within FR1	17.3.0
2021-12	RAN#94	R5-217619	0281	-	F	Addition of capabilities for R16 EN-DC FR2 configurations with n260	17.3.0
2021-12	RAN#94	R5-217715	0283	-	F	Addition of PICS for NPN	17.3.0
2021-12	RAN#94	R5-217745	0284	-	F	Updating UE capabilities for Rel-16 DC band combinations within FR1 into TS 38.508-2	17.3.0
2021-12	RAN#94	R5-217802	0266	1	F	Introduce and update PICS	17.3.0
2021-12	RAN#94	R5-217889	0264	1	F	Addition of NR V2X Capability	17.3.0
2021-12	RAN#94	R5-218222	0279	1	F	Update of A.4.3.2B.2.3.6 to A.4.3.2B.2.3.9 for supported inter-band EN-DC configurations including FR2	17.3.0
2021-12	RAN#94	R5-218307	0280	1	F	Addition of PICS for enhanced type II CSI	17.3.0
2021-12	RAN#94	R5-218453	0268	1	F	Introduction_of_UE_capabilities_for_new_EN-DC_comb_within_FR1	17.3.0
2022-03	RAN#95	R5-220199	0289	-	F	Update Physical Layer Baseline Implementation Capabilities for NE-DC	17.4.0
2022-03	RAN#95	R5-220205	0290	-	F	Addition of NR CA Physical Layer Baseline Implementation Capabilities for R16 CA_n3A-n41A	17.4.0
2022-03	RAN#95	R5-220210	0291	-	F	Addition of NR FR1 PC1.5 RF Baseline Implementation Capabilities for n41	17.4.0
2022-03	RAN#95	R5-220312	0292	-	F	Introduction of Rel-16 inter-band EN-DC two band configurations within FR1 for physical layer baseline implementation capabilities	17.4.0
2022-03	RAN#95	R5-220533	0293	-	F	Editorial correction to UE declaration of Bandwidth Class and BCS information	17.4.0
2022-03	RAN#95	R5-220633	0294	-	F	Introduction_of_UE_capabilities_for_new_EN-DC_comb_within_FR1	17.4.0
2022-03	RAN#95	R5-220666	0295	-	F	Correction typo for Table A.4.3.2B.2.3.1-3a and Table A.4.3.8-1	17.4.0
2022-03	RAN#95	R5-220750	0296	-	F	Correction to PICS for PS TCs	17.4.0
2022-03	RAN#95	R5-220776	0297	-	F	Update of PC2 DC_8A-n78A Baseline Implementation Capabilities	17.4.0
2022-03	RAN#95	R5-220850	0298	-	F	Addition of new RACS PICS	17.4.0
2022-03	RAN#95	R5-220864	0299	-	F	Introducing Rel-17 2 band CA configurations for n24 and n41 to clause A.4.3.2A.4.1	17.4.0
2022-03	RAN#95	R5-220865	0300	-	F	Introducing Rel-17 2 band CA configurations for n24 and n48 to clause A.4.3.2A.4.1	17.4.0
2022-03	RAN#95	R5-220866	0301	-	F	Introducing Rel-17 2 band CA configurations for n24 and n77 to clause A.4.3.2A.4.1	17.4.0
2022-03	RAN#95	R5-220973	0303	-	F	Addition of physical baseline implementation capabilities for Rel-16 EN-DC configurations	17.4.0
2022-03	RAN#95	R5-221005	0305	-	F	Addition of PICs for FR2 CSI-RS based RLM	17.4.0
2022-03	RAN#95	R5-221006	0306	-	F	UE capabilities for completed NR CA configurations CA_n5A-n7A, CA_n5A-n78A and CA_n7A-n78A	17.4.0
2022-03	RAN#95	R5-221047	0307	-	F	Addition of A.4.3.2B.2.3.7 for DC_3A-42D_n257A and DC_3A-42E_n257A	17.4.0
2022-03	RAN#95	R5-221054	0308	-	F	Correction of A.4.3.2B.2 for intra-band contiguous and non-contiguous EN-DC	17.4.0
2022-03	RAN#95	R5-221055	0309	-	F	Correction of A.4.3.2B.2.3.4 for supported inter-band EN-DC configurations within FR1	17.4.0
2022-03	RAN#95	R5-221056	0310	-	F	Removal of supported BCS for inter-band EN-DC configurations including FR1 and FR2	17.4.0
2022-03	RAN#95	R5-221057	0311	-	F	Removal of supported BCS for inter-band EN-DC configurations including FR2	17.4.0
2022-03	RAN#95	R5-221058	0312	-	F	Removal of supported BCS for inter-band EN-DC configurations within FR1	17.4.0
2022-03	RAN#95	R5-221330	0317	-	F	Introduction of UE capabilities for Rel-17 EN-DC configurations	17.4.0
2022-03	RAN#95	R5-221427	0287	1	F	Introduction of common implementation conformance statements for NE-DC	17.4.0
2022-03	RAN#95	R5-221428	0315	1	F	Introduce and update PICS	17.4.0
2022-03	RAN#95	R5-221585	0314	1	F	Addition of new PICS for URLLC	17.4.0
2022-03	RAN#95	R5-221673	0285	1	F	Addition of PICS for frequencyShift7p5khz	17.4.0
2022-03	RAN#95	R5-221674	0313	1	F	Update of A.4.3.9 for Additional capabilities for UE declared capability	17.4.0
2022-03	RAN#95	R5-221793	0316	1	F	Addition of Condition for FR1 DL Interruptions test cases applicability	17.4.0
2022-03	RAN#95	R5-221830	0304	1	F	Addition of physical implementation capability for L1-SINR measurement	17.4.0
2022-03	RAN#95	R5-221853	0286	1	F	Addition of UE capability for maximum number of activated TCI states	17.4.0
2022-03	RAN#95	R5-221875	0288	1	F	Introduction of new R17 NR inter-band CA configurations in FR1	17.4.0
2022-03	RAN#95	R5-221876	0302	1	F	Addition of applicability tables of several NR CA combinations to FR1 inter-band configurations	17.4.0
2022-03	RAN#95	R5-221911	0318	1	F	Add_UE capability enhancedUL-TransientPeriod	17.4.0
2022-06	RAN#96	R5-222266	0320	-	F	Addition of new PICS for 3GPP PS Data off	17.5.0
2022-06	RAN#96	R5-222284	0321	-	F	Introduction of Rel-16 inter-band EN-DC three band configurations within FR1 for physical layer baseline implementation capabilities	17.5.0
2022-06	RAN#96	R5-222459	0322	-	F	Addition of UE capability for NSSRG	17.5.0

2022-06	RAN#96	R5-222573	0323	-	F	Addition of CA_n29A-n71A applicability	17.5.0
2022-06	RAN#96	R5-222618	0324	-	F	Addition of PICS for NR SL Demod TCs	17.5.0
2022-06	RAN#96	R5-222695	0326	-	F	Addition of table for NR UL MIMO Capabilities	17.5.0
2022-06	RAN#96	R5-222817	0327	-	F	Add PICS for PUCCH Scell	17.5.0
2022-06	RAN#96	R5-222827	0328	-	F	Add PICS for RedCap test	17.5.0
2022-06	RAN#96	R5-222877	0329	-	F	Limiting MBR relaxation reporting to Rel-15 only	17.5.0
2022-06	RAN#96	R5-222950	0332	-	F	Introduce and update PICS	17.5.0
2022-06	RAN#96	R5-223046	0334	-	F	Update of ICS baseline for CA configurations	17.5.0
2022-06	RAN#96	R5-223105	0336	-	F	Add PICS for MBS test	17.5.0
2022-06	RAN#96	R5-223127	0338	-	F	Introducing R17 band configuration DC_20A_n257A	17.5.0
2022-06	RAN#96	R5-223157	0339	-	F	Introduction of UE capabilities for additional Rel-17 EN-DC configurations with PC2 band	17.5.0
2022-06	RAN#96	R5-223164	0341	-	F	Introduction of UE capabilities for 3 band EN-DC configurations	17.5.0
2022-06	RAN#96	R5-223212	0343	-	F	Introduction of UE capabilities for additional Rel-17 NR CA and EN-DC configurations	17.5.0
2022-06	RAN#96	R5-223253	0348	-	F	Correction pc_dynamicPowerSharing to align with 38.306	17.5.0
2022-06	RAN#96	R5-223301	0350	-	F	Removal of redundant condition for FR1 DL Interruptions test cases applicability	17.5.0
2022-06	RAN#96	R5-223401	0333	1	F	Addition of Measurement Capabilities for Idle/Inactive measurements testcase	17.5.0
2022-06	RAN#96	R5-223654	0337	1	F	Introduction of UE capabilities for 2 band EN-DC configurations	17.5.0
2022-06	RAN#96	R5-223721	0325	1	F	Addition of PICS for NR HST RRM TCs	17.5.0
2022-06	RAN#96	R5-223733	0335	1	F	Addition of UE capabilities for Rel-17 NR inter-band EN-DC configurations including n1	17.5.0
2022-06	RAN#96	R5-223772	0340	1	F	Addition of PICS for TxD	17.5.0
2022-06	RAN#96	R5-223797	0319	1	F	Alignment of EN-DC Physical Layer Baseline Implementation Capabilities with 38.521-3	17.5.0
2022-06	RAN#96	R5-223798	0344	1	F	Correction to A.4.3.2C for NR SUL physical layer baseline implementation capabilities	17.5.0
2022-06	RAN#96	R5-223799	0345	1	F	Editorial correction to A.4.3.1 for RF baseline implementation capabilities	17.5.0
2022-06	RAN#96	R5-223800	0346	1	F	Editorial correction to A.4.3.9 for Additional capabilities for UE declared capability	17.5.0
2022-06	RAN#96	R5-223801	0347	1	F	Update to A.4.1 for addition of inter-band NE-DC within FR1 for NSA DC UE radio technologies	17.5.0
2022-09	RAN#97	R5-223988	0351	-	F	Update of A.4.3.2B.2.0 for EN-DC capabilities	17.6.0
2022-09	RAN#97	R5-224178	0354	-	F	Introduction of configurations for Inter-band NR-DC within FR1	17.6.0
2022-09	RAN#97	R5-224267	0359	-	F	Add UE new message 3 repetition implementation capability	17.6.0
2022-09	RAN#97	R5-224272	0360	-	F	Introduction of PC2 inter-band CA ICS for UL CA_n1A-n78A	17.6.0
2022-09	RAN#97	R5-224288	0361	-	F	Addition of PICS for NR Multi-SIM devices	17.6.0
2022-09	RAN#97	R5-224331	0362	-	F	Addition of new PICS for SDT feature	17.6.0
2022-09	RAN#97	R5-224593	0368	-	F	Addition of UE capability for slice based cell reselection	17.6.0
2022-09	RAN#97	R5-224833	0371	-	F	Addition of PC2 PICS for CA_41C	17.6.0
2022-09	RAN#97	R5-225041	0377	-	F	Update description for release column	17.6.0
2022-09	RAN#97	R5-225055	0378	-	F	Addition of 4Rx ICS Capability to FDD band n8	17.6.0
2022-09	RAN#97	R5-225187	0379	-	F	Addition of PICS for CLI test cases	17.6.0
2022-09	RAN#97	R5-225242	0382	-	F	Update of RF Baseline Implementation Capabilities for PC2 UE on FDD band	17.6.0
2022-09	RAN#97	R5-225270	0358	1	F	Editorial correction for Table A.4.3.7-1 and Table A.4.4-2	17.6.0
2022-09	RAN#97	R5-225301	0363	1	F	Addition of PICS for "SNPN Only" UE	17.6.0
2022-09	RAN#97	R5-225369	0365	1	F	Addition of new PICs dl-SchedulingOffset-PDSCH-TypeA	17.6.0
2022-09	RAN#97	R5-225370	0367	1	F	Add PICS for Rel-15 Inter-system mobility between untrusted Non-3GPP and 3GPP system	17.6.0
2022-09	RAN#97	R5-225371	0383	1	F	Addition of PICS for RRC DL segmentation	17.6.0
2022-09	RAN#97	R5-225685	0356	1	F	Update RF Baseline Implementation Capabilities for PC1.5 duty cycle	17.6.0
2022-09	RAN#97	R5-225688	0355	1	F	Update RF Baseline Implementation Capabilities for PC2 duty cycle	17.6.0
2022-09	RAN#97	R5-225700	0353	1	F	Introduction of DC_3A-7A-20A_n8A for physical layer baseline implementation capabilities	17.6.0
2022-09	RAN#97	R5-225701	0366	1	F	Addition of test capability for FR2 EN-DC TX Test Cases 5CC to 7CCs	17.6.0
2022-09	RAN#97	R5-225717	0357	1	F	Removing of n89, n91, n92, n93 and n94 from A.4.3.1	17.6.0
2022-09	RAN#97	R5-225732	0372	1	F	Addition of applicability statement for many 4CA NR combinations	17.6.0
2022-09	RAN#97	R5-225767	0380	1	F	Update PICS for RedCap UE	17.6.0
2022-09	RAN#97	R5-225783	0375	1	F	Corrections on 2 Rx antenna ports capabilities for band n29	17.6.0
2022-09	RAN#97	R5-225840	0381	1	F	Introduction of new UE ICS for UPLF test mode	17.6.0
2022-12	RAN#98	R5-225963	0384		F	Additional UE declared capabilities for new NR bands n91, n92, n93 and n94	17.7.0
2022-12	RAN#98	R5-226399	0388		F	Updates for NR CA_n2A-n77A, CA_n5A-n77A, CA_n66A-n77A	17.7.0
2022-12	RAN#98	R5-226625	0394		F	Update to Table A.4.3.2A.4.1-4: Inter-band CA within FR1 (two bands) PC2 UE RF Baseline Implementation Capabilities	17.7.0
2022-12	RAN#98	R5-226740	0398		F	Clean-up pending bands for R15 configurations	17.7.0
2022-12	RAN#98	R5-226741	0399		F	Clean-up pending bands for R16 configurations	17.7.0

2022-12	RAN#98	R5-226847	0404		F	Introducing SUL bands into NR FR1 UL MIMO Capabilities table	17.7.0
2022-12	RAN#98	R5-227276	0414		F	Introduction of CA_n48A-n77A and CA_n71A-n77A baseline capabilities	17.7.0
2022-12	RAN#98	R5-227336	0417		F	Updates to SET UL Message PICS	17.7.0
2022-12	RAN#98	R5-227411	0387	1	F	Addition of PICS for R15 SON_MDT	17.7.0
2022-12	RAN#98	R5-227450	0391	1	F	Addition of PICS for SNPN UEs supporting access identities definition	17.7.0
2022-12	RAN#98	R5-227472	0409	1	F	Addition of ethernet DNN-APN configuration set to PICS for EHC in 38.508-2	17.7.0
2022-12	RAN#98	R5-227475	0418		F	Addition of MAC implementation capabilities	17.7.0
2022-12	RAN#98	R5-227481	0390	1	F	Addition of new PICS for NTN feature	17.7.0
2022-12	RAN#98	R5-227500	0413	1	F	Addition of PICS for UE power saving enhancements	17.7.0
2022-12	RAN#98	R5-227513	0411	1	F	Addition of PICS for MBS TC	17.7.0
2022-12	RAN#98	R5-227521	0405	1	F	Addition of RedCap capabilities	17.7.0
2022-12	RAN#98	R5-227548	0393	1	F	Addition of PICS for support of (re-)configuration of an SCG during the resume procedure	17.7.0
2022-12	RAN#98	R5-227549	0410	1	F	Addition of UE capability clauses for idle mode measurements ENDC testcases	17.7.0
2022-12	RAN#98	R5-227585	0415	1	F	Addition of PICS for NR unlicensed	17.7.0
2022-12	RAN#98	R5-227588	0407	1	F	RedCap UE capability for Legacy test cases	17.7.0
2022-12	RAN#98	R5-227597	0401	1	F	Additional ICS for extendedBand-n77-r16	17.7.0
2022-12	RAN#98	R5-227598	0402	1	F	Additional ICS for extendedBand-n77-2-r17	17.7.0
2022-12	RAN#98	R5-227603	0389	1	F	Addition of test capability for PDCP UDC	17.7.0
2022-12	RAN#98	R5-227707	0396	1	F	Addition of PICS for NR-U	17.7.0
2022-12	RAN#98	R5-227708	0395	1	F	Addition of PICS for Redcap CSI test cases	17.7.0
2022-12	RAN#98	R5-227709	0397	1	F	Addition of DL1024QAM PICS	17.7.0
2022-12	RAN#98	R5-227710	0386	1	F	Addition of common ICS in A.4.3.11 for Rel-17 HST enh	17.7.0
2022-12	RAN#98	R5-227893	0406	1	F	Applicability for new Rel-16 FR2 RF requirements enhancements test cases	17.7.0
2022-12	RAN#98	R5-227894	0385	1	F	Addition of PICS for RedCap RRM TCs	17.7.0
2023-03	RAN#99	R5-230077	0419	-	F	Adding NR bands n100, n101 into RF Baseline Implementation Capabilities	17.8.0
2023-03	RAN#99	R5-230078	0420	-	F	Additional UE declared capabilities for new NR bands n100, n101	17.8.0
2023-03	RAN#99	R5-230097	0421	-	F	Clean-up mislabeling of FDD bands as TDD bands	17.8.0
2023-03	RAN#99	R5-230342	0429	-	F	Addition of test capability for PDCP UDC	17.8.0
2023-03	RAN#99	R5-230647	0432	-	F	Update the pc_maxNumberMIMO_LayersPDSCH	17.8.0
2023-03	RAN#99	R5-230775	0437	-	F	Update to BWP adaptation PICS	17.8.0
2023-03	RAN#99	R5-230803	0439	-	F	Editorial correction to pics naming convenction	17.8.0
2023-03	RAN#99	R5-230891	0442	-	F	Update for 38.508-2 for DC_71A_n66A and DC_12A_n2A	17.8.0
2023-03	RAN#99	R5-231024	0445	-	F	Addition of PICS for measurement gap enhancements	17.8.0
2023-03	RAN#99	R5-231270	0447	-	F	Addition of new PICS for RAN enhancements for NR Slicing	17.8.0
2023-03	RAN#99	R5-231401	0436	1	F	Add Handover Capabilities for 5GC-N3IWF	17.8.0
2023-03	RAN#99	R5-231441	0426	1	F	Addition of PICS for support of multiple CEF reports	17.8.0
2023-03	RAN#99	R5-231458	0422	1	F	Addition of PICS for ATSSS devices	17.8.0
2023-03	RAN#99	R5-231473	0431	1	F	Addition of PICS for MBS TC	17.8.0
2023-03	RAN#99	R5-231513	0433	1	F	Addition of PICS for NR MUSIM RRC features	17.8.0
2023-03	RAN#99	R5-231525	0434	1	F	Addition of Rel-17 IIoT_URLLC capabilities	17.8.0
2023-03	RAN#99	R5-231558	0430	1	F	Addition of UE capability for IDC mechanism and early measurements	17.8.0
2023-03	RAN#99	R5-231572	0435	1	F	Add Measurement Capabilities for SFTD	17.8.0
2023-03	RAN#99	R5-231586	0449	1	F	Addition of PICS for RedCap UE	17.8.0
2023-03	RAN#99	R5-231605	0428	1	F	Addition of UE capability for new EN-DC comb within FR1	17.8.0
2023-03	RAN#99	R5-231606	0427	1	F	Addition of UE capability for new 3CC EN-DC comb within FR1	17.8.0
2023-03	RAN#99	R5-231607	0438	1	F	Adding n259 to Optional 4x2 PC3 Antenna Array Configuration	17.8.0
2023-03	RAN#99	R5-231635	0425	1	F	Introduction of CA_n41A-n66A.	17.8.0
2023-03	RAN#99	R5-231636	0446	1	F	Introduction of CA_n41A-n71A.	17.8.0
2023-03	RAN#99	R5-231777	0424	1	F	CR on Optional 6x6 PC5 Antenna Array Configuration	17.8.0
2023-03	RAN#99	R5-231797	0441	1	F	Update for 38.508-2 for DC_71A_n2A	17.8.0
2023-03	RAN#99	R5-231853	0440	1	F	Addition of NR-U capabilities	17.8.0
2023-03	RAN#99	R5-231974	0444	2	F	Introduction of informative Annex for status of NR bands, and NR CA, NR-DC, EN-DC, NE-DC and NR SUL configurations	17.8.0
2023-03	RAN#99	R5-231974	0444	2	F	added attachment "PRD21 5G NR bands and CADC configurations list v1.4.0"	17.8.1

History

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