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Part 2: Common Implementation Conformance Statement (ICS) proforma
(3GPP TS 38.508-2 version 16.7.0 Release 16)

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

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

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

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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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2 presented to TSG for approval;

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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”

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 relevant.

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

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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:

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.....

.....

A.2.4 Client

Name:

.....

Address:

.....

.....

.....

Telephone number:

.....

Facsimile number:

.....

E-mail address:

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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	

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 both 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	

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-15	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	

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		

A.4.3.1 RF Baseline Implementation Capabilities

NOTE: The values indicated in column "Release" in tables A.4.3.1-1 and A.4.3.1-2 below 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].

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 1
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 2
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 3
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 5
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 7
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 8
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 12
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 14
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 18
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 20
7a to 7d	Reserved				
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 25
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 26
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 28
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 30
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 65
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 66
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 70
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 71
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 74
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 91
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 92
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 93
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 94

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	38.101-1, 5.2	Rel-15	pc_nrBand34_Supp	NR TDD FR1 Band 34
0a to 0c	Reserved				
1	NR Frequency band: 2570-2620 MHz	38.101-1, 5.2	Rel-15	pc_nrBand38_Supp	NR TDD FR1 Band 38
1a	NR Frequency band: 1880-1920 MHz	38.101-1, 5.2	Rel-15	pc_nrBand39_Supp	NR TDD FR1 Band 39
1b	NR Frequency band: 2300-2400 MHz	38.101-1, 5.2	Rel-15	pc_nrBand40_Supp	NR TDD FR1 Band 40
2	NR Frequency band: 2496-2690 MHz	38.101-1, 5.2	Rel-15	pc_nrBand41_Supp	NR TDD FR1 Band 41
2a to 2f	Reserved				
2g	NR Frequency band: 3550-3700 MHz	38.101-1, 5.2	Rel-16	pc_nrBand48_Supp	NR TDD FR1 Band 48
2h	Reserved				
2i	NR Frequency band: 1432-1517 MHz	38.101-1, 5.2	Rel-15	pc_nrBand50_Supp	NR TDD FR1 Band 50
2j	NR Frequency band: 1427-1432 MHz	38.101-1, 5.2	Rel-15	pc_nrBand51_Supp	NR TDD FR1 Band 51
2k	Reserved				
2l	NR Frequency band: 2483.5-2495 MHz	38.101-1, 5.2	Rel-16	pc_nrBand53_Supp	NR TDD FR1 Band 53
3	NR Frequency band: 3300–4200 MHz	38.101-1, 5.2	Rel-15	pc_nrBand77_Supp	NR TDD FR1 Band 77
4	NR Frequency band: 3300–3800 MHz	38.101-1, 5.2	Rel-15	pc_nrBand78_Supp	NR TDD FR1 Band 78
5	NR Frequency band: 4400–5000 MHz	38.101-1, 5.2	Rel-15	pc_nrBand79_Supp	NR TDD FR1 Band 79
6	NR Frequency band: 2496–2690 MHz	38.101-1, 5.2	Rel-16	pc_nrBand90_Supp	NR TDD FR1 Band 90

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	38.101-2, 5.2	Rel-15	pc_nrBand257_Supp	NR TDD FR2 Band 257
2	NR Frequency band: 24250-27500 MHz	38.101-2, 5.2	Rel-15	pc_nrBand258_Supp	NR TDD FR2 Band 258
2a	NR Frequency band: 39500-43500 MHz	38.101-2, 5.2	Rel-16	pc_nrBand259_Supp	NR TDD FR2 Band 259
3	NR Frequency band: 37000–40000 MHz	38.101-2, 5.2	Rel-15	pc_nrBand260_Supp	NR TDD FR2 Band 260
4	NR Frequency band: 27500–28350 MHz	38.101-2, 5.2	Rel-15	pc_nrBand261_Supp	NR TDD FR2 Band 261

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	38.101-1, 6.2.1	Rel-16	pc_nrBand40_PC2_Supp	NR FR1 PC2 Band 40
1	NR Frequency band: 2496-2690 MHz	38.101-1, 6.2.1	Rel-15	pc_nrBand41_PC2_Supp	NR FR1 PC2 Band 41
2	NR Frequency band: 3300-4200 MHz	38.101-1, 6.2.1	Rel-15	pc_nrBand77_PC2_Supp	NR FR1 PC2 Band 77
3	NR Frequency band: 3300–3800 MHz	38.101-1, 6.2.1	Rel-15	pc_nrBand78_PC2_Supp	NR FR1 PC2 Band 78
4	NR Frequency band: 4400–5000 MHz	38.101-1, 6.2.1	Rel-15	pc_nrBand79_PC2_Supp	NR FR1 PC2 Band 79

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	38.101-2, 6.2.1	Rel-15	pc_nrBand257_PC2_Supp	NR FR2 PC2 Band 257
2	NR Frequency band: 24250-27500 MHz	38.101-2, 6.2.1	Rel-15	pc_nrBand258_PC2_Supp	NR FR2 PC2 Band 258
3	NR Frequency band: 27500–28350 MHz	38.101-2, 6.2.1	Rel-15	pc_nrBand261_PC2_Supp	NR FR2 PC2 Band 261

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, 758-768 MHz	38.101-1, 6.2.1	Rel-16	pc_nrBand14_PC1_Supp	NR FR1 PC1 Band 14

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	38.101-2, 6.2.1	Rel-15	pc_nrBand257_PC1_Supp	NR FR2 PC1 Band 257
2	NR Frequency band: 24250-27500 MHz	38.101-2, 6.2.1	Rel-15	pc_nrBand258_PC1_Supp	NR FR2 PC1 Band 258
3	NR Frequency band: 37000-40000 MHz	38.101-2, 6.2.1	Rel-15	pc_nrBand260_PC1_Supp	NR FR2 PC1 Band 260
4	NR Frequency band: 27500–28350 MHz	38.101-2, 6.2.1	Rel-15	pc_nrBand261_PC1_Supp	NR FR2 PC1 Band 261

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	38.101-2, 6.2.1	Rel-15	pc_nrBand257_PC4_Supp	NR FR2 PC4 Band 257
2	NR Frequency band: 24250-27500 MHz	38.101-2, 6.2.1	Rel-15	pc_nrBand258_PC4_Supp	NR FR2 PC4 Band 258
3	NR Frequency band: 37000-40000 MHz	38.101-2, 6.2.1	Rel-15	pc_nrBand260_PC4_Supp	NR FR2 PC4 Band 260
4	NR Frequency band: 27500–28350 MHz	38.101-2, 6.2.1	Rel-15	pc_nrBand261_PC4_Supp	NR FR2 PC4 Band 261

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	38.101-1, 5.2	Rel-15	pc_nrBand80_Supp	NR SUL FR1 Band 80
2	NR Frequency band: 880-915 MHz	38.101-1, 5.2	Rel-15	pc_nrBand81_Supp	NR SUL FR1 Band 81
3	NR Frequency band: 832-862 MHz	38.101-1, 5.2	Rel-15	pc_nrBand82_Supp	NR SUL FR1 Band 82
4	NR Frequency band: 703-748 MHz	38.101-1, 5.2	Rel-15	pc_nrBand83_Supp	NR SUL FR1 Band 83
5	NR Frequency band: 1920-1980 MHz	38.101-1, 5.2	Rel-15	pc_nrBand84_Supp	NR SUL FR1 Band 84
6	NR Frequency band: 1710-1780 MHz	38.101-1, 5.2	Rel-15	pc_nrBand86_Supp	NR SUL FR1 Band 86
6a to 6b	Reserved				
6c	NR Frequency band: 824-849 MHz	38.101-1, 5.2	Rel-16	pc_nrBand89_Supp	NR SUL FR1 Band 89
7	NR Frequency band: 2010-2025 MHz	38.101-1, 5.2	Rel-16	pc_nrBand95_Supp	NR SUL FR1 Band 95

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	38.101-1, 5.2	Rel-16	pc_nrBand29_Supp	NR SDL FR1 Band 29
1	NR Frequency band: 1432-1517 MHz	38.101-1, 5.2	Rel-15	pc_nrBand75_Supp	NR SDL FR1 Band 75
2	NR Frequency band: 1427-1432 MHz	38.101-1, 5.2	Rel-15	pc_nrBand76_Supp	NR SDL FR1 Band 76

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 and Table A.4.3.1-4d)

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

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

Table A.4.3.1-8: Void

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	Yes		
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	38.306, 4.2.7.9	Rel-15	pc_dynamicPowerSharing	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. 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	CY		
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

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_Type 0_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_Type 0_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	No		
31a	Supports pi/2-BPSK modulation scheme for PUSCH in FR2	38.306, 4.2.7.10	Rel-15	pc_pusch_halfpiBPSK	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

A.4.3.2A NR CA Physical Layer Baseline Implementation Capabilities

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	

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	UL NR FR1 Intra-band contiguous CA BW Class D	38.101-1, 5.3A.5	pc_UL_intra_contiguous_CA_NR_FR1_Class_D	
5	UL NR FR1 Intra-band contiguous CA BW Class E	38.101-1, 5.3A.5	pc_UL_intra_contiguous_CA_NR_FR1_Class_E	
6	void	void	void	
7	UL NR FR1 Intra-band contiguous CA BW Class G	38.101-1, 5.3A.5	pc_UL_intra_contiguous_CA_NR_FR1_Class_G	
8	UL NR FR1 Intra-band contiguous CA BW Class H	38.101-1, 5.3A.5	pc_UL_intra_contiguous_CA_NR_FR1_Class_H	
9	UL NR FR1 Intra-band contiguous CA BW Class I	38.101-1, 5.3A.5	pc_UL_intra_contiguous_CA_NR_FR1_Class_I	
10	UL NR FR1 Intra-band contiguous CA BW Class J	38.101-1, 5.3A.5	pc_UL_intra_contiguous_CA_NR_FR1_Class_J	
11	UL NR FR1 Intra-band contiguous CA BW Class K	38.101-1, 5.3A.5	pc_UL_intra_contiguous_CA_NR_FR1_Class_K	
12	UL NR FR1 Intra-band contiguous CA BW Class L	38.101-1, 5.3A.5	pc_UL_intra_contiguous_CA_NR_FR1_Class_L	

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)	Release	Supported	Supported CA Bandwidth Class(es) in UL (Note 2,5)	Supported Bandwidth Combination Set(s) (Note 3)
CA_n1B	Rel-16			
CA_n7B	Rel-16			
CA_n40B	Rel-16			
CA_n41C	Rel-15			
CA_n48B	Rel-16			
CA_n48C	Rel-16			
CA_n66B (Note 6)	Rel-16			
CA_n71B	Rel-16			
CA_n77C	Rel-15			
CA_n77D	Rel-16			
CA_n78B	Rel-16			
CA_n78C	Rel-15			
CA_n78D	Rel-16			
CA_n79C	Rel-15			
CA_n79D	Rel-16			

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', 'nXC' and 'nXD', 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: Reference to all items is 38.101-1, 5.5A.1 and 38.331, 6.3.4

Note 5: UL(Table A.4.3.2A.2.1-3) shall return all supported CA Configurations where at least one UL CA Bandwidth Class was declared in column "Supported CA Bandwidth Class(es) in UL".
UL_2CC(Table A.4.3.2A.2.1-3) shall return all supported CA Configurations where at least one 2 Carrier UL CA Bandwidth Class was declared in column "Supported CA Bandwidth Class(es) in UL".
UL_3CC(Table A.4.3.2A.2.1-3) shall return all supported CA Configurations where at least one 3 Carrier UL CA Bandwidth Class was declared.

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].

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)	Release	Supported	Supported CA Bandwidth Class(es) in UL (Note 2,5)	Supported Bandwidth Combination Set(s) (Note 3)
CA_n257B	Rel-15			
CA_n257C	Rel-16			
CA_n257D	Rel-15			
CA_n257E	Rel-15			
CA_n257F	Rel-15			
CA_n257G	Rel-15			
CA_n257H	Rel-15			
CA_n257I	Rel-15			
CA_n257J	Rel-15			
CA_n257K	Rel-15			
CA_n257L	Rel-15			
CA_n257M	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_n259B	Rel-16	CA_n259B		
CA_n259C	Rel-16	CA_n259C		
CA_n259G	Rel-16	CA_n259G		
CA_n259H	Rel-16	CA_n259H		
CA_n259I	Rel-16	CA_n259I		
CA_n259J	Rel-16	CA_n259J		
CA_n259K	Rel-16	CA_n259K		
CA_n259L	Rel-16	CA_n259L		
CA_n259M	Rel-16	CA_n259M		
CA_n260B	Rel-15			
CA_n260C	Rel-15			
CA_n260D	Rel-15			
CA_n260E	Rel-15			
CA_n260F	Rel-15			
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_n260O	Rel-15			
CA_n260P	Rel-15			
CA_n260Q	Rel-15			
CA_n261B	Rel-15			
CA_n261C	Rel-15			
CA_n261D	Rel-15			
CA_n261E	Rel-15			
CA_n261F	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			

CA_n261O	Rel-15			
CA_n261P	Rel-15			
CA_n261Q	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.

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: Reference to all items is 38.101-2, 5.5A.1 and 38.331, 6.3.4

Note 5: UL(Table A.4.3.2A.2.2-3) shall return all supported CA Configurations where at least one UL CA Bandwidth Class was declared in column "Supported CA Bandwidth Class(es) in UL".
UL_2CC(Table A.4.3.2A.2.2-3) shall return all supported CA Configurations where at least one 2 Carrier UL CA Bandwidth Class was declared in column "Supported CA Bandwidth Class(es) in UL".
UL_3CC(Table A.4.3.2A.2.2-3) shall return all supported CA Configurations where at least one 3 Carrier UL CA Bandwidth Class was declared.
UL_4CC(Table A.4.3.2A.2.2-3) shall return all supported CA Configurations where at least one 4 Carrier UL CA Bandwidth Class was declared.
UL_5CC(Table A.4.3.2A.2.2-3) shall return all supported CA Configurations where at least one 5 Carrier UL CA Bandwidth Class was declared.
UL_6CC(Table A.4.3.2A.2.2-3) shall return all supported CA Configurations where at least one 6 Carrier UL CA Bandwidth Class was declared.
UL_7CC(Table A.4.3.2A.2.2-3) shall return all supported CA Configurations where at least one 7 Carrier UL CA Bandwidth Class was declared.
UL_8CC(Table A.4.3.2A.2.2-3) shall return all supported CA Configurations where at least one 8 Carrier UL CA Bandwidth Class was declared.

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.3.1-2: 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.3.1-3: Supported configurations for NR Intra-band non-contiguous CA within FR1

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

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: Reference to all items is 38.101-1 [23], 5.5A.2 and 38.331, 6.3.4

Note 3: UL(Table A.4.3.2A.3.1-3) shall return all supported CA Configurations where at least one UL CA Bandwidth Class was declared in column "Supported CA Bandwidth Class(es) in UL".
UL_2CC(Table A.4.3.2A.3.1-3) shall return all supported CA Configurations where at least one 2 Carrier UL CA Bandwidth Class was declared in column "Supported CA Bandwidth Class(es) in UL".
UL_3CC(Table A.4.3.2A.3.1-3) shall return all supported CA Configurations where at least one 3 Carrier UL CA Bandwidth Class was declared.

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].

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	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: Reference to all items is 38.101-2 [24], 5.5A.2 and 38.331, 6.3.4
Note 3: UL (Table A.4.3.2A.3.2-3) shall return all supported CA Configurations where at least one UL CA Bandwidth Class was declared in column "Supported CA Bandwidth Class(es) in UL".
UL_2CC (Table A.4.3.2A.3.2-3) shall return all supported CA Configurations where at least one 2 Carrier UL CA Bandwidth Class was declared in column "Supported CA Bandwidth Class(es) in UL".
UL_3CC (Table A.4.3.2A.3.2-3) shall return all supported CA Configurations where at least one 3 Carrier UL CA Bandwidth Class was declared.
UL_4CC (Table A.4.3.2A.3.2-3) shall return all supported CA Configurations where at least one 4 Carrier UL CA Bandwidth Class was declared.

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	

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)	Release	Supported	Supported CA Bandwidth Class(es) in UL (Note 2,5)	Supported Bandwidth Combination Set(s) (Note 3)	Supported ULTxSwitching Band Pair (Note 2, 3, 7, 8)
CA_n1A-n77A	Rel-16				
CA_n1A-n78A	Rel-16				
CA_n1A-n78C	Rel-16				
CA_n1A-n79A	Rel-16				
CA_n3A-n78A	Rel-15				
CA_n8A-n78A	Rel-15				
CA_n29A-n66A	Rel-16				
CA_n29A-n66B	Rel-16				
CA_n29A-n66(2A)	Rel-16				
CA_n29A-n70A	Rel-16				
CA_n41A-n79A	Rel-16				
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_n66B-n71A (Note 6)	Rel-16				
CA_n66(2A)-n71A (Note 6)	Rel-16				
CA_n70A-n71A	Rel-16				
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, 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.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.3-1.
Note 4:	Reference to all items is 38.101-1 [23], 5.5A.3 and 38.331, 6.3.4
Note 5:	UL(Table A.4.3.2A.4.1-3) shall return all supported CA Configurations where at least one UL CA Bandwidth Class was declared in column "Supported CA Bandwidth Class(es) in UL". UL_2CC(Table A.4.3.2A.4.1-3) shall return all supported CA Configurations where at least one 2 Carrier UL CA Bandwidth Class was declared in column "Supported CA Bandwidth Class(es) in UL". UL_3CC(Table A.4.3.2A.4.1-3) shall return all supported CA Configurations where at least one 3 Carrier UL CA Bandwidth Class was declared.
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 lease 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:	ULSwitching(Table A.4.3.2A.4.1-3) shall return all supported CA Configurations where at least one UL CA band pair was declared in column "Supported ULTxSwitching Band Pair".

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-A (three bands)	38.101-1, 5.3A.5	pc_UL_inter_band_CA_NR_FR1_3B_Class_A-A-A	

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)	Release	Supported	Supported CA Bandwidth Class(es) in UL (Note 2,5)	Supported Bandwidth Combination Set(s) (Note 3)
CA_n29A-n66A-n70A	Rel-16			
CA_n66A-n70A-n71A (Note 6)	Rel-16			
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', '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.3-2.

Note 4: Reference to all items is 38.101-1 [23], 5.5A.3 and 38.331, 6.3.4

Note 5: UL(Table A.4.3.2A.4.2-3) shall return all supported CA Configurations where at least one UL CA Bandwidth Class was declared in column "Supported CA Bandwidth Class(es) in UL".
UL_2CC(Table A.4.3.2A.4.2-3) shall return all supported CA Configurations where at least one 2 Carrier UL CA Bandwidth Class was declared in column "Supported CA Bandwidth Class(es) in UL".
UL_3CC(Table A.4.3.2A.4.2-3) shall return all supported CA Configurations where at least one 3 Carrier UL CA Bandwidth Class was declared.

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].

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)

TBD

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

TBD

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

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, 5.3B	pc_DL_NR_DC_2CC	
2	DL NR-DC with 3 carriers	38.101-3, 5.3B	pc_DL_NR_DC_3CC	
3	DL NR-DC with 4 carriers	38.101-3, 5.3B	pc_DL_NR_DC_4CC	
4	DL NR-DC with 5 carriers	38.101-3, 5.3B	pc_DL_NR_DC_5CC	
5	DL NR-DC with 6 carriers	38.101-3, 5.3B	pc_DL_NR_DC_6CC	
6	DL NR-DC with 7 carriers	38.101-3, 5.3B	pc_DL_NR_DC_7CC	
7	DL NR-DC with 8 carriers	38.101-3, 5.3B	pc_DL_NR_DC_8CC	
8	DL NR-DC with 9 carriers	38.101-3, 5.3B	pc_DL_NR_DC_9CC	
9	DL NR-DC with 10 carriers	38.101-3, 5.3B	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, 5.3B	pc_UL_NR_DC_2CC	
2	UL NR-DC with 3 carriers	38.101-3, 5.3B	pc_UL_NR_DC_3CC	
3	UL NR-DC with 4 carriers	38.101-3, 5.3B	pc_UL_NR_DC_4CC	
4	UL NR-DC with 5 carriers	38.101-3, 5.3B	pc_UL_NR_DC_5CC	
5	UL NR-DC with 6 carriers	38.101-3, 5.3B	pc_UL_NR_DC_6CC	
6	UL NR-DC with 7 carriers	38.101-3, 5.3B	pc_UL_NR_DC_7CC	
7	UL NR-DC with 8 carriers	38.101-3, 5.3B	pc_UL_NR_DC_8CC	
8	UL NR-DC with 9 carriers	38.101-3, 5.3B	pc_UL_NR_DC_9CC	
9	UL NR-DC with 10 carriers	38.101-3, 5.3B	pc_UL_NR_DC_10CC	

A.4.3.2B.1.1 NR-DC between FR1 and FR2 (two bands)

Table A.4.3.2B.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.1.1-2)

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.1.1-1a: 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.1.1-2)

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.1.1-2: 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.	Comments
1	DL EN-DC with 2 carriers	38.101-3, 5.3B	
2	DL EN-DC with 3 carriers	38.101-3, 5.3B	
3	DL EN-DC with 4 carriers	38.101-3, 5.3B	
4	DL EN-DC with 5 carriers	38.101-3, 5.3B	
5	DL EN-DC with 6 carriers	38.101-3, 5.3B	
6	DL EN-DC with 7 carriers	38.101-3, 5.3B	
7	DL EN-DC with 8 carriers	38.101-3, 5.3B	

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

Item	Bandwidth Class	Ref.	Comments
1	DL EN-DC with 1 NR DL carriers	38.101-3, 5.3B	
2	DL EN-DC with 2 NR DL carriers	38.101-3, 5.3B	
3	DL EN-DC with 3 NR DL carriers	38.101-3, 5.3B	
4	DL EN-DC with 4 NR DL carriers	38.101-3, 5.3B	
5	DL EN-DC with 5 NR DL carriers	38.101-3, 5.3B	
6	DL EN-DC with 6 NR DL carriers	38.101-3, 5.3B	
7	DL EN-DC with 7 NR DL carriers	38.101-3, 5.3B	

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

Item	Bandwidth Class	Ref.	Comments
1	UL EN-DC with 2 carriers	38.101-3, 5.3B	
2	UL EN-DC with 3 carriers	38.101-3, 5.3B	
3	UL EN-DC with 4 carriers	38.101-3, 5.3B	
4	UL EN-DC with 5 carriers	38.101-3, 5.3B	
5	UL EN-DC with 6 carriers	38.101-3, 5.3B	
6	UL EN-DC with 7 carriers	38.101-3, 5.3B	
7	UL EN-DC with 8 carriers	38.101-3, 5.3B	

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

Item	Bandwidth Class	Ref.	Comments
1	UL EN-DC with 1 NR UL carriers	38.101-3, 5.3B	
2	UL EN-DC with 2 NR UL carriers	38.101-3, 5.3B	
3	UL EN-DC with 3 NR UL carriers	38.101-3, 5.3B	
4	UL EN-DC with 4 NR UL carriers	38.101-3, 5.3B	
5	UL EN-DC with 5 NR UL carriers	38.101-3, 5.3B	
6	UL EN-DC with 6 NR UL carriers	38.101-3, 5.3B	
7	UL EN-DC with 7 NR UL carriers	38.101-3, 5.3B	

A.4.3.2B.2.1 Intra-band contiguous EN-DC in FR1

Table A.4.3.2B.2.1-1: Downlink Bandwidth Class Combination capabilities for Intra-band contiguous EN-DC configurations in FR1 (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 in FR1 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 in FR1 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 in FR1 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 in FR1 (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 in FR1 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 in FR1 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 in FR1

EN-DC configuration / Item (Note 1)	Release	Supported	Supported EN-DC Bandwidth Class(es) in UL	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.				

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

A.4.3.2B.2.2 Intra-band non-contiguous EN-DC in FR1

Table A.4.3.2B.2.2-1: Downlink Bandwidth Class Combination capabilities for Intra-band non-contiguous EN-DC configurations in FR1 (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 in FR1 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 in FR1 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 in FR1 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 in FR1 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 in FR1 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 in FR1 (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 in FR1 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 in FR1 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 in FR1

EN-DC configuration / Item (Note 1)	Release	Supported	Supported EN-DC Bandwidth Class(es) in UL	Supported Bandwidth Combination Set(s)
DC_41A_n41A	Rel-15			
DC_41C_n41A	Rel-15			
DC_41D_n41A	Rel-15			
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.				

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

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 (Note 1)	Release	Supported	Supported EN-DC Bandwidth Class(es) in UL	Supported Bandwidth Combination Set(s)	Supported ULTxSwitching Band Pair (Note 2, 3)
DC_1A_n3A	Rel-16				
DC_1A_n28A	Rel-15				
DC_1A_n77A	Rel-15				
DC_1A_n78A	Rel-15				
DC_1A_n78C	Rel-15				
DC_1A_n79A	Rel-15				
DC_2A_n5A	Rel-15				
DC_2A_n41A	Rel-16				
DC_2C_n41A	Rel-16				
DC_2A_n71A	Rel-15				
DC_3A_n1A	Rel-16				
DC_3A_n7A	Rel-15				
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_3C_n78A	Rel-15				
DC_5A_n2A	Rel-16				
DC_5A_n66A	Rel-15				
DC_5A_n78A	Rel-15				
DC_7A_n1A	Rel-16				
DC_7A_n3A	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_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_n66A	Rel-15				
DC_12A_n78A	Rel-16				
DC_13A_n2A	Rel-16				
DC_13A_n66A	Rel-15				
DC_14A_n2A	Rel-16				
DC_14A_n66A	Rel-16				
DC_19A_n77A	Rel-15				
DC_19A_n78A	Rel-15				
DC_19A_n79A	Rel-15				
DC_20A_n28A	Rel-15				
DC_20A_n78A	Rel-15				
DC_21A_n77A	Rel-15				
DC_21A_n78A	Rel-15				
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_n77A	Rel-15				
DC_28A_n78A	Rel-15				
DC_28A_n79A	Rel-15				

DC_30A_n5A	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_40C_n78A	Rel-16				
DC_41A_n77A	Rel-16				
DC_41A_n78A	Rel-16				
DC_41A_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_n78A	Rel-15				

Note 1: Notation used for inter-band EN-DC Bands is according to TS 38.101-3 [25] Table 5.5B.4.1-1, e.g. 'DC_1A_n28A' indicates EN-DC operation on E-UTRA band 1 with E-UTRA DL Bandwidth Class A and NR band n28 with NR DL CA Bandwidth Class A.

Note 2: The ULTxSwitching capability can be reported on EN-DC band combinations. The UE supplier shall indicate E-UTRA/NR band pairs on which it supports ULTxSwitching. For this release of specification valid choices are 'N' and 'A-nB', where A is LTE band and nB is NR band. For example, for DC_3A_n77A, N would mean not supporting ULTxSwitching, '3-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 lease one UL EN-DC configuration on the same band pair in the column "Supported EN-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 EN-DC configuration with > 2 component carriers.

Note 3: ULSwitching(Table A.4.3.2B.2.3.1-2) shall return all supported EN-DC Configurations where at least one E-UTRA/NR band pair was declared in column "Supported ULTxSwitching Band Pair".

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

Item	Inter-band EN-DC within FR1 (two bands) PC2 UE RF Baseline Implementation Capabilities	Ref.	Release	Mnemonic	Comments
1	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	DC_39A_n41A
2	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	DC_39A_n79A
3	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	DC_41A_n79A
4	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	DC_3A_n78A DC_3C_n78A
5	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	DC_3A_n41A DC_3A_n41C DC_3C_n41A

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

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)	Release	Supported	Supported EN-DC Bandwidth Class(es) in UL	Supported Bandwidth Combination Set(s)
DC_1A-3A_n28A	Rel-15			
DC_1A-3A_n78A	Rel-15			
DC_1A-3A_n78C	Rel-15			
DC_1A-3C_n78A	Rel-15			
DC_1A-3A_n79A	Rel-15			
DC_1A-7A_n3A	Rel-16			
DC_1A-7A_n78A	Rel-15			
DC_1A-8A_n3A	Rel-16			
DC_1A-8A_n78A	Rel-15			
DC_1A-19A_n78A	Rel-15			
DC_1A-19A_n79A	Rel-15			
DC_1A-20A_n3A	Rel-16			
DC_1A-20A_n78A	Rel-15			
DC_1A-21A_n78A	Rel-15			
DC_1A-21A_n79A	Rel-15			
DC_1A-28A_n3A	Rel-16			
DC_1A_n28A-n78A	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-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-(n)71AA	Rel-15			
DC_3A-7A_n1A	Rel-16			
DC_3A-7A_n78A	Rel-15			
DC_3A-8A_n1A	Rel-16			
DC_3A-8A_n78A	Rel-15			
DC_3A-19A_n78A	Rel-15			
DC_3A-19A_n79A	Rel-15			
DC_3A-20A_n1A	Rel-16			
DC_3A-20A_n78A	Rel-15			
DC_3A-21A_n78A	Rel-15			
DC_3A-21A_n79A	Rel-15			
DC_3A_n28A-n78A	Rel-15			
DC_3A-40A_n1A	Rel-16			
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-8A_n1A	Rel-16			
DC_7A-20A_n1A	Rel-16			
DC_7A-20A_n3A	Rel-16			
DC_7A-20A_n78A	Rel-15			
DC_7A_n28A-n78A	Rel-15			

DC_14A-66A_n2A	Rel-16			
DC_14A-66A-66A_n2A	Rel-16			
DC_14A-66A_n66A	Rel-16			
DC_19A-21A_n78A	Rel-15			
DC_19A-21A_n79A	Rel-15			
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-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_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.				

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-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)	Release	Supported	Supported EN-DC Bandwidth Class(es) in UL	Supported Bandwidth Combination Set(s)
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_n78A	Rel-15			
DC_1A-3A-19A_n79A	Rel-15			
DC_1A-3A-20A_n78A	Rel-15			
DC_1A-3A-21A_n78A	Rel-15			
DC_1A-3A-21A_n79A	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_n78A	Rel-15			
DC_1A-19A-21A_n78A	Rel-15			
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-14A-66A_n2A	Rel-16			
DC_2A-14A-66A_n66A	Rel-16			
DC_2A-14A-66A-66A_n2A	Rel-16			
DC_2A-66A-(n)71AA	Rel-15			
DC_3A-7A-20A_n1A	Rel-16			
DC_3A-7A-20A_n78A	Rel-15			
DC_3A-7A_n28A-n78A	Rel-15			
DC_3A-19A-21A_n78A	Rel-15			
DC_3A-19A-21A_n79A	Rel-15			
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-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_7A-20A_n28A-n78A	Rel-15			
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			

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.

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-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	
6	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)	Release	Supported	Supported EN-DC Bandwidth Class(es) in UL	Supported Bandwidth Combination Set(s)
DC_1A-3A-5A-41A_n79A	Rel-16			
DC_1A-3A-7A-20A_n28A	Rel-15			
DC_1A-3A-7A-20A_n78A	Rel-15			
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-19A-42C_n78A	Rel-16			
DC_1A-3A-19A-42C_n79A	Rel-16			
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-3A-21A-42C_n78A	Rel-16			
DC_1A-3A-21A-42C_n79A	Rel-16			
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_n78A	Rel-16			
DC_1A-19A-21A-42C_n79A	Rel-15			
DC_1A-19A-21A-42C_n79A	Rel-16			
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			

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.

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)	Release	Supported	Supported EN-DC Bandwidth Class(es) in UL	Supported Bandwidth Combination Set(s)
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.				

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	Release	Supported	Supported EN-DC Bandwidth Class(es) in UL	Supported Bandwidth Combination Set(s)
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_1A_n257K	Rel-16			
DC_1A_n257L	Rel-16			
DC_1A_n257M	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_12A_n260A	Rel-15			
DC_13A_n257A	Rel-15			
DC_19A_n257A	Rel-15			
DC_19A_n257G	Rel-16			
DC_19A_n257H	Rel-16			
DC_19A_n257I	Rel-16			
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.				

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	Release	Supported	Supported EN-DC Bandwidth Class(es) in UL	Supported Bandwidth Combination Set(s)
DC_1A-3A_n257A	Rel-15			
DC_1A-19A_n257A	Rel-15			
DC_1A-21A_n257A	Rel-15			
DC_1A-42A_n257A	Rel-15			
DC_1A-42C_n257A	Rel-15			
DC_1A-42D_n257A	Rel-15			
DC_1A-42E_n257A	Rel-15			
DC_2A-5A_n257A	Rel-15			
DC_2A-5A_n260A	Rel-15			
DC_2A-12A_n260A	Rel-15			
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-21A_n257A	Rel-15			
DC_3A-42A_n257A	Rel-15			
DC_3A-42C_n257A	Rel-15			
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_19A-21A_n257A	Rel-15			
DC_19A-42A_n257A	Rel-15			
DC_19A-42C_n257A	Rel-15			
DC_21A-42A_n257A	Rel-15			
DC_21A-42C_n257A	Rel-15			
DC_1A-3A_n257G	Rel-16			
DC_1A-3A_n257H	Rel-16			
DC_1A-3A_n257I	Rel-16			
DC_1A-19A_n257G	Rel-16			
DC_1A-19A_n257H	Rel-16			
DC_1A-19A_n257I	Rel-16			
DC_1A-21A_n257G	Rel-16			
DC_1A-21A_n257H	Rel-16			
DC_1A-21A_n257I	Rel-16			
DC_1A-42A_n257G	Rel-16			
DC_1A-42A_n257H	Rel-16			
DC_1A-42A_n257I	Rel-16			
DC_1A-42D_n257G	Rel-16			
DC_1A-42D_n257H	Rel-16			
DC_1A-42D_n257I	Rel-16			
DC_1A-42E_n257G	Rel-16			
DC_1A-42E_n257H	Rel-16			
DC_1A-42E_n257I	Rel-16			
DC_3A-19A_n257G	Rel-16			
DC_3A-19A_n257H	Rel-16			
DC_3A-19A_n257I	Rel-16			
DC_3A-21A_n257G	Rel-16			
DC_3A-21A_n257H	Rel-16			
DC_3A-21A_n257I	Rel-16			
DC_3A-42A_n257G	Rel-16			
DC_3A-42A_n257H	Rel-16			
DC_3A-42A_n257I	Rel-16			
DC_3A-42C_n257G	Rel-16			
DC_3A-42C_n257H	Rel-16			
DC_3A-42C_n257I	Rel-16			
DC_3A-42D_n257G	Rel-16			
DC_3A-42D_n257H	Rel-16			

DC_3A-42D_n257I	Rel-16			
DC_3A-42E_n257G	Rel-16			
DC_3A-42E_n257H	Rel-16			
DC_3A-42E_n257I	Rel-16			
DC_19A-21A_n257G	Rel-16			
DC_19A-21A_n257H	Rel-16			
DC_19A-21A_n257I	Rel-16			
DC_19A-42A_n257G	Rel-16			
DC_19A-42A_n257H	Rel-16			
DC_19A-42A_n257I	Rel-16			
DC_19A-42C_n257G	Rel-16			
DC_19A-42C_n257H	Rel-16			
DC_19A-42C_n257I	Rel-16			
DC_21A-42A_n257G	Rel-16			
DC_21A-42A_n257H	Rel-16			
DC_21A-42A_n257I	Rel-16			
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.				

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	

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	Release	Supported	Supported EN-DC Bandwidth Class(es) in UL	Supported Bandwidth Combination Set(s)
DC_1A-3A-19A_n257A	Rel-15			
DC_1A-3A-21A_n257A	Rel-15			
DC_1A-3A-42A_n257A	Rel-15			
DC_1A-3A-42C_n257A	Rel-15			
DC_1A-19A-21A_n257A	Rel-15			
DC_1A-19A-42A_n257A	Rel-15			
DC_1A-19A-42C_n257A	Rel-15			
DC_1A-21A-42A_n257A	Rel-15			
DC_1A-21A-42C_n257A	Rel-15			
DC_3A-19A-21A_n257A	Rel-15			
DC_3A-19A-42A_n257A	Rel-15			
DC_3A-19A-42C_n257A	Rel-15			
DC_3A-21A-42A_n257A	Rel-15			
DC_3A-21A-42C_n257A	Rel-15			
DC_19A-21A-42A_n257A	Rel-15			
DC_19A-21A-42C_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_n257G	Rel-16			
DC_1A-3A-21A_n257H	Rel-16			
DC_1A-3A-21A_n257I	Rel-16			
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_n257G	Rel-16			
DC_1A-3A-42C_n257H	Rel-16			
DC_1A-3A-42C_n257I	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_n257G	Rel-16			
DC_1A-19A-21A_n257H	Rel-16			
DC_1A-19A-21A_n257I	Rel-16			
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_n257G	Rel-16			
DC_1A-19A-42C_n257H	Rel-16			
DC_1A-19A-42C_n257I	Rel-16			
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_n257G	Rel-16			
DC_1A-21A-42C_n257H	Rel-16			
DC_1A-21A-42C_n257I	Rel-16			
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_n257G	Rel-16			
DC_3A-19A-42C_n257H	Rel-16			
DC_3A-19A-42C_n257I	Rel-16			
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_n257G	Rel-16			
DC_3A-21A-42C_n257H	Rel-16			
DC_3A-21A-42C_n257I	Rel-16			
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_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.				

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	

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	Release	Supported	Supported EN-DC Bandwidth Class(es) in UL	Supported Bandwidth Combination Set(s)
DC_1A-3A-19A-42A_n257A	Rel-15			
DC_1A-3A-19A-42C_n257A	Rel-15			
DC_1A-3A-21A-42A_n257A	Rel-15			
DC_1A-3A-21A-42C_n257A	Rel-15			
DC_1A-19A-21A-42A_n257A	Rel-15			
DC_1A-19A-21A-42C_n257A	Rel-15			
DC_1A-3A-19A-42A_n257G	Rel-16			
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-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_n257G	Rel-16			
DC_1A-19A-21A-42A_n257H	Rel-16			
DC_1A-19A-21A-42A_n257I	Rel-16			
DC_1A-19A-21A-42C_n257G	Rel-16			
DC_1A-19A-21A-42C_n257H	Rel-16			
DC_1A-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.5.4-1, 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.				

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	Supported Bandwidth Combination Set(s)
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	Supported Bandwidth Combination Set(s)
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	Supported Bandwidth Combination Set(s)
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	Supported Bandwidth Combination Set(s)
TBD	TBD			

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		
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

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
1	Support RLC AM with 12 bit length of RLC sequence number	38.306, 4.2.5	Rel-15	pc_am_WithShort SN	Yes		
2	Support RLC UM with 12 bit length of RLC sequence number	38.306, 4.2.5	Rel-15	pc_um_WIthLong SN	Yes		
3	Support RLC UM with 6 bit length of RLC sequence number	38.306, 4.2.5	Rel-15	pc_um_WithShort SN	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		

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.
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	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	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

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		

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		
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		

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 FR2 power class 3

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	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	

Note 1: UE vendor to fill in the needed relaxation factor per band that is ≥0. 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 FR2 power class 3

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

Note 1: UE vendor to fill in the needed relaxation factor per band that is ≥0. 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
...				
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	
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	FDD Band n29	38.101-1, 7.3A.2.4	
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

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.4.3.9-5: 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, N, 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.						

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		

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	TBD		
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	TBD		

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	UE supports delivery of rachReport upon request from the network.
4	Support of GNSS	38.306, 4.2.18	Rel-16	pc_GNSS_location	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	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_logged_MDT	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	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	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	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	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	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	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	UE supports WLAN measurements in RRC_IDLE and RRC_INACTIVE state.

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	24.501	Rel-15	pc_IMS_DNN_default	

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	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 [x1], 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 [x1], 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.
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): 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

History

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