

**3rd Generation Partnership Project;
Technical Specification Group Radio Access Networks;
NR intra band Carrier Aggregation (CA) Rel-16 for xCC Down
Link (DL) / yCC Up Link (UL) including contiguous and non-
contiguous spectrum ($x \geq y$)
(Release 16)**



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Foreword

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

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1 Scope

The present document is a technical report for NR Intra-band Carrier Aggregation Rel-16 for xDL/yUL including contiguous and non-contiguous spectrum under Rel-16 time frame. The purpose is to gather the relevant background information and studies in order to address NR Intra-band Carrier Aggregation requirements for the Rel-16 band combinations in Table 1-1, Table 1-2, Table 1-3 and Table 1-4.

Table 1-1: Release 16 NR Intra-band carrier contiguous aggregation combinations FR1

CA combination
DL_n78C_UL_n78C
DL_n79C_UL_n79C
DL_n66B_UL_n66A
DL_n41C_UL_n41A
DL_n41C_UL_n41C
DL_n71B
DL_n77C_UL_n77C
2CC_DL_n5B_BCS0
2CC_DL_n5B_1CC_UL_n5A_BCS0
2CC_DL_n5B_2CC_UL_n5B_BCS0
2CC_DL_n48B_BCS0
2CC_DL_n48B_1CC_UL_n48A_BCS0
2CC_DL_n48B_2CC_UL_n48B_BCS0
2CC_DL_n48C_BCS0
2CC_DL_n48C_1CC_UL_n48A_BCS0
2CC_DL_n48C_2CC_UL_n48C_BCS0
2CC_DL_n66B_BCS0
2CC_DL_n66B_1CC_UL_n66A_BCS0
2CC_DL_n66B_2CC_UL_n66B_BCS0
DL_n3B_UL_n3B_BCS0
CA_n1B_UL_n1B_BCS0
CA_n41C_UL_n41A_BCS1
CA_n7B_UL_n7A_BCS0
CA_n7B_UL_n7B_BCS0
CA_n71B
CA_n41B_UL_n41B_BCS0

Table 1-2: Release 16 NR Intra-band carrier non-contiguous aggregation combinations FR1

CA combination
DL_n66(2A)_UL_66A
DL_n41(2A)_UL_n41A
DC_n25(2A)_UL_n25A
2CC_DL_n2(2A)_BCS0
2CC_DL_n2(2A)_1CC_UL_n2A_BCS0
2CC_DL_n5(2A)_BCS0
2CC_DL_n5(2A)_1CC_UL_n5A_BCS0
2CC_DL_n48(2A)_BCS0
2CC_DL_n48(2A)_1CC_n48A_BCS0
2CC_DL_n66(2A)_1CC_UL_n66A_BCS0
3CC_DL_n66(A-B)_BCS0
3CC_DL_n66(A-B)_1CC_UL_n66A_BCS0
3CC_DL_n66(A-B)_2CC_UL_n66B_BCS0
CA_n41(2A)
DL_n77(2A)_UL_n77A
DL_n78(2A)_UL_n78A
CA_n25(2A)_UL_n25A_BCS0
CA_n7(2A)_UL_n7A_BCS0
CA_n78(2A)_UL_n78A_BCS0
CA_n3(2A)_UL_n3A_BCS0
CA_n41(2A)_UL_n41A_BCS1
CA_n78(2A)
CA_n77(3A)
CA_n48(A-C)
CA_n48(3A)
CA_n48(4A)
CA_n77(2A)_UL_n77(2A)_BCS0
CA_n78(2A)_UL_n78(2A)_BCS0
CA_n78(2A)_UL_n78(2A)_BCS1

Table 1-3: Release 16 NR Intra-band carrier contiguous aggregation combinations FR2

CA combination	REL-indep. from
CA_n258B	Rel-15
CA_n258C	Rel-15
CA_n258D	Rel-15
CA_n258E	Rel-15
CA_n258F	Rel-15
CA_n258G	Rel-15
CA_n258H	Rel-15
CA_n258I	Rel-15
CA_n258J	Rel-15
CA_n258K	Rel-15
CA_n258L	Rel-15
CA_n258M	Rel-15
CA_n257G_UL_n257G	Rel-15
CA_n257H_UL_n257G	Rel-15
CA_n257H_UL_n257H	Rel-15
CA_n257I_UL_n257G	Rel-15
CA_n257I_UL_n257H	Rel-15
CA_n257I_UL_n257I	Rel-15
CA_n257J_UL_n257G	Rel-15
CA_n257J_UL_n257H	Rel-15
CA_n257J_UL_n257I	Rel-15
CA_n257J_UL_n257J	Rel-15
CA_n257K_UL_n257G	Rel-15
CA_n257K_UL_n257H	Rel-15
CA_n257K_UL_n257I	Rel-15
CA_n257K_UL_n257J	Rel-15
CA_n257K_UL_n257K	Rel-15
CA_n257L_UL_n257G	Rel-15
CA_n257L_UL_n257H	Rel-15
CA_n257L_UL_n257I	Rel-15
CA_n257L_UL_n257J	Rel-15
CA_n257L_UL_n257K	Rel-15
CA_n257L_UL_n257L	Rel-15
CA_n257M_UL_n257G	Rel-15
CA_n257M_UL_n257H	Rel-15
CA_n257M_UL_n257I	Rel-15
CA_n257M_UL_n257J	Rel-15
CA_n257M_UL_n257K	Rel-15
CA_n257M_UL_n257L	Rel-15
CA_n257M_UL_n257M	Rel-15
CA_n261G_UL_n261G	Rel-15
CA_n261H_UL_n261H	Rel-15
CA_n261I_UL_n261H	Rel-15
CA_n261J_UL_n261H	Rel-15
CA_n261K_UL_n261H	Rel-15
CA_n261L_UL_n261H	Rel-15
CA_n261M_UL_n261H	Rel-15

CA_n258D_UL_n258D	Rel-15
CA_n257C	Rel-15

Table 1-4: Release 16 NR Intra-band carrier non-contiguous aggregation combinations FR2

CA combination	
CA_n260(5A)	
CA_n260(6A)	
CA_n260(7A)	
CA_n260(8A)	
CA_n260(9A)	
CA_n260(10A)	
CA_n260(2G)	
CA_n260(4G)	
CA_n260(2H)	
CA_n260(2O)	
CA_n260(3O)	
CA_n260(4O)	
CA_n260(2P)	
CA_n260(4P)	
CA_n261(2D)	
CA_n261(2G)	
CA_n261(3G)	
CA_n261(4G)	
CA_n261(2H)	
CA_n261(2I)	
CA_n261(2O)	
CA_n261(4O)	
CA_n261(7O)	
CA_n261(2P)	
CA_n261(4Q)	
CA_n261(7O)	
CA_n261(2P)	
CA_n261(4Q)	
CA_n260(2P)	
CA_n260(3G)	
CA_n260(4G)	
CA_n260(A-G-O)	
CA_n260(2A-G-O)	
CA_n260(2A-2G-O)	
CA_n260(A-G)	
CA_n260(G-O)	
CA_n260(G-O)	
CA_n260(A-D)	
CA_n260(2A-D)_UL_n260(2A)	
CA_n260(A-D-O)	
CA_n260(2A-D-O)	
CA_n260(D-2O)	
CA_n260(A-D-2O)	
CA_n260(2A-D-2O)	
CA_n260(A-2D)	
CA_n260(2A-2D)	
DC_n260(A-P)	
DC_n260(2A-P)_UL_n260(2A)	

DC_n260(2A-O)_UL_n260(2A)	
DC_n260(2A-G)_UL_n260(2A)	
DC_n260(2A-H)_UL_n260(2A)	
DC_n260(A-2P)	
DC_n260(2A-2P)	
CA_n260(3A-3O)	
CA_n260(D-2G)	
CA_n260(2D-O)	
CA_n260(G-2O)	
CA_n260(2G-2O)	
CA_n260(G-3O)	
CA_n260(2G-3O)	
CA_n260(G-4O)	
CA_n260(2G-4O)	
CA_n260(3G-O)	
CA_n260(4G-O)	
CA_n260(H-O)	
CA_n260(2H-O)	
CA_n261(A-D)	
CA_n261(A-D-H)	
CA_n261(A-G)	
CA_n261(A-G-H)	
CA_n261(G-I)	
CA_n261(A-G-I)	
CA_n261(A-H-I)	
CA_n261(G-H)	
CA_n261(H-I)	
CA_n260(2A-G-2O)	
CA_n260(A-2G-2O)	
CA_n260(2A-2O-P)	
CA_n260(2A-O-2P)	
CA_n260(A-2O-2P)	
CA_n260(2A-2O-Q)	
CA_n260(2A-O-2Q)	
CA_n260(A-2O-2Q)	
CA_n260(4A-3O)	
CA_n260(3A-4O)	
CA_n260(4A-Q)	
CA_n260(3A-2Q)	
CA_n260(3A-P)	
CA_n260(A-O-P)	
CA_n260(A-Q)	
CA_n260(P-Q)	
CA_n260(2A-3P)	
CA_n260(A-4P)	
CA_n260(6A-O)	
CA_n260(5A-2O)	
CA_n260(5A-3O)	
CA_n260(6A-P)	

CA_n260(5A-2P)	
CA_n260(8A-O)	
CA_n260(7A-2O)	
CA_n260(2O-P)	
CA_n260(O-2P)	
CA_n261(A-D-O)	
CA_n261(A-2O)	
CA_n261(D-2O)	
CA_n261(A-2G-O)	
CA_n261(A-G-2O)	
CA_n261(2G-2O)	
CA_n261(A-3G)	
CA_n261(A-2G-O)	
CA_n261(3G-O)	
CA_n261(A-3G)	
CA_n261(A-3O)	
CA_n261(A-6O)	
CA_n261(A-P)	
CA_n261(A-Q)	
CA_n260(A-G-2O)	
CA_n260(2A-O-P)	
CA_n260(A-2O-P)	
CA_n260(A-O-2P)	
CA_n260(A-2O-P)	
CA_n260(2A-O-Q)	
CA_n260(A-2O-Q)	
CA_n260(2A-2Q)	
CA_n260(A-O-2Q)	
CA_n260(2O-2Q)	
CA_n260(3A-Q)	
CA_n260(O-P)	
CA_n260(A-3P)	
CA_n260(5A-O)	
CA_n260(5A-P)	
CA_n260(4A-2P)	
CA_n260(7A-O)	
CA_n261(A-O)	
CA_n261(A-2G)	
CA_n261(A-G-O)	
CA_n261(2G-O)	
CA_n261(G-2O)	
CA_n261(3O)	
CA_n261(A-5O)	
CA_n261(6O)	
CA_n260(2A-Q)	
CA_n260(A-O-Q)	
CA_n260(2O-Q)	
CA_n260(A-2Q)	
CA_n260(O-2Q)	

CA_n260(4A-P)	
CA_n260(3A-2P)	
CA_n261(G-O)	
CA_n261(5O)	
CA_n260(O-Q)	
CA_n258(2A)	
CA_n258(3A)	
CA_n258(4A)	
CA_n258(5A)	
CA_n260(G-H)	
CA_n261(A-J)	
CA_n261(A-K)	
CA_n261(2A-G)	
CA_n261(2A-H)	
CA_n261(2A-I)	
CA_n261(3A-G)	

This TR contains a band specific combination part. The actual requirements are added to the corresponding technical specifications.

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".

3 Definitions, symbols and abbreviations

3.1 Definitions

For the purposes of the present document, the terms and definitions given in TR 21.905 [1] 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 [1].

3.2 Symbols

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

$\Delta R_{IB,c}$	Allowed reference sensitivity relaxation due to support for inter-band CA operation, for serving cell c .
$\Delta T_{IB,c}$	Allowed maximum configured output power relaxation due to support for inter-band CA
F_{DL_low}	The lowest frequency of the downlink operating band
F_{DL_high}	The highest frequency of the downlink operating band
F_{UL_low}	The lowest frequency of the uplink operating band
F_{UL_high}	The highest frequency of the uplink operating band

3.3 Abbreviations

For the purposes of the present document, the abbreviations given in 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 TR 21.905 [1].

BS	Base Station
CA	Carrier Aggregation
CA_nX-nY	Inter-band CA of component carrier(s) in one sub-block within Band X and component carrier(s) in one sub-block within Band Y where X and Y are the applicable NR operating band
CC	Component Carriers
DL	DownLink
FDD	Frequency Division Duplex
IMD	Inter-modulation
MSD	Maximum Sensitivity Deduction
NR	New RAT
SCS	Subcarrier spacing
TDD	Time Division Duplex
UE	User Equipment
UL	UpLink

4 Background

The present document is a technical report for NR Intra-band Carrier Aggregation under Rel-16 timeframe. The document covers each band combination specific issues (i.e. one sub-clause defined per band combination)

4.1 TR Maintenance

A single company is responsible for introducing all approved TPs in the current TR, i.e. TR editor. However, it is the responsibility of the contact person of each band combination to ensure that the TPs related to the band combination have been implemented.

5 Intra-Band Contiguous Carrier Aggregation FR1: Specific Band Combination Part

5.1 CA_2DL_n66B_1UL_n66A

5.1.1 Channel bandwidths per operating band for CA

Table 5.1.1-1: Supported bandwidth combinations for CA_n66B

E-UTRA CA configuration / Bandwidth combination set					
NR CA configuration	Uplink CA configurations	Component carriers in order of increasing carrier frequency		Aggregated bandwidth (MHz)	Bandwidth combination set
		Channel bandwidths for carrier (MHz)	Channel bandwidths for carrier (MHz)		
CA_n66B	-	5 ¹	20	25	0
		10	15		
		15	10		
		20	5 ¹		
		10	20	30	
		15	15		
		20	10		
		15	20	35	
		20	15		
		5 ¹	40	45	
		40	5 ¹		
		10	40	50	

E-UTRA CA configuration / Bandwidth combination set					
NR CA configuration	Uplink CA configurations	Component carriers in order of increasing carrier frequency		Aggregated bandwidth (MHz)	Bandwidth combination set
		Channel bandwidths for carrier (MHz)	Channel bandwidths for carrier (MHz)		
		40	10		
Note 1: 5MHz is not applicable for 30/60kHz SCS					

5.1.2 UE co-existence studies

There are no co-existence issues for this combination.

5.2 CA_2DL_n71B

5.2.1 Channel bandwidths per operating band for CA

Table 5.2.1-1: Supported bandwidth combinations for CA_n71B

E-UTRA CA configuration / Bandwidth combination set					
NR CA configuration	Uplink CA configurations	Component carriers in order of increasing carrier frequency		Aggregated bandwidth (MHz)	Bandwidth combination set
		Channel bandwidths for carrier (MHz)	Channel bandwidths for carrier (MHz)		
		5	20		
CA_n71B	-	10	15	25	0
		15	10		
		20	5		
		10	20		
		15	15,20	35	1
		20	10,15		

Table 5.2.1-1: Supported bandwidth combinations for CA_n71B

E-UTRA CA configuration / Bandwidth combination set					
NR CA configuration	Uplink CA configurations	Component carriers in order of increasing carrier frequency		Aggregated bandwidth (MHz)	Bandwidth combination set
		Channel bandwidths for carrier (MHz)	Channel bandwidths for carrier (MHz)		
CA_n71B	-	5	20	25	0
		10	15		
		15	10		
		20	5		
		35	1	35	1
		15	15, 20		
		20	10, 15		

Clarification: UE with split band dual duplexer implement may not support BCS1.

5.2.2 UE co-existence studies

There are no co-existence issues for this combination.

5.2.3 REFSSENS

General REFSSENS for intra-band CA has been specified in the spec.

5.3 CA_2DL_n41C_1UL_n41A

5.3.1 Channel bandwidths per operating band for CA

Table 5.3.1-1: Bandwidth combination sets for Intra band contiguous CA configurations FR1

E-UTRA CA configuration / Bandwidth combination set								
NR CA configuration	Uplink CA configurations	Channel bandwidths for carrier [MHz]	Channel bandwidths for carrier [MHz]	Channel bandwidths for carrier [MHz]	Channel bandwidths for carrier [MHz]	Channel bandwidths for carrier [MHz]	Maximum aggregated bandwidth [MHz]	Bandwidth combination set
CA_n41C	-	50	60				110	0
		40	80				120	
		60	60					
		50	80				130	
		40	100				140	
		60	80					
		50	100				150	
		60	100				160	
		80	80					
		80	100				180	
		60	50				110	
		80	40				120	
		80	50				130	
		100	40				140	
		80	60					
		100	50				150	
		100	60				160	
		100	80				180	

		10, 15, 20, 40, 50, 60, 80, 90	15, 20, 40, 50, 60, 80, 90, 100				190	1
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5.3.2 Co-existence studies

There are no co-existence issues for this combination.

5.4 CA_2DL_n48B, CA_2DL_n48C

5.4.1 Channel bandwidths per operating band for CA

Table 5.4.1-1: Supported bandwidth combinations for CA_2DL_n48B and CA_2DL_n48C

		E-UTRA CA configuration / Bandwidth combination set						
NR CA configuration	Uplink CA configurations	Component carriers in order of increasing carrier frequency					Maximum aggregated bandwidth [MHz]	Bandwidth combination set
		Channel bandwidths for carrier [MHz]	Channel bandwidths for carrier [MHz]	Channel bandwidths for carrier [MHz]	Channel bandwidths for carrier [MHz]	Channel bandwidths for carrier [MHz]		
CA_n48B	-	5 ¹	15				20	0
		10	10					
		15	5 ¹					
		5 ¹	20				25	
		10	15					
		15	10					
		20	5 ¹				30	
		10	20					
		15	15					
		20	10				35	
		15	20					
		20	15					
		20	20				40	
		5 ¹	40				45	
		40	5 ¹					
		10	40				50	
40	10							
CA_n48C	-	10	90				100	0
		20	80					
		40	60					
		50	50					
		60	40					
		80	20					
		90	10					
		15	90				105	
		90	15					
		10	100				110	
		20	90					
		50	60					

		60	50					
		90	20					
		100	10					
		15	100				115	
		100	15				120	
		20	100					
		40	80					
		60	60					
		80	40					
		100	20				130	
		40	90					
		50	80					
		80	50					
		90	40					
		40	100				140	
		50	90					
		60	80					
		80	60					
		90	50					
		100	40				150	
		50	100					
		60	90					
		90	60					
		100	50					

NOTE 1: 5¹ MHz is not applicable for 30/60kHz SCS

NOTE 1: 5¹ MHz is not applicable for 30/60kHz SCS

5.4.2 Co-existence studies

There are no co-existence issues for these combinations.

5.4.3 REFSENS

There are no REFSENS exceptions for these combinations.

5.5 CA_2DL_n1B_1UL_n1A

5.5.1 Operating band for CA

Table 5.5.1-1: intra-band contiguous CA operating bands in FR1

NR CA Band	NR Band (Table 5.2-1)
CA_n1	n1

5.5.2 Channel bandwidths per operating band for CA

Table 5.5.2-1: Supported bandwidth combinations for CA_2DL_n1B_1UL_n1A

NR CA Configuration	Uplink Configurations	Channel bandwidths for carrier [MHz]	Channel bandwidths for carrier [MHz]	Aggregated bandwidth [MHz]	Bandwidth combination set
CA_n1B	-	10	10,15	40	0
		15	15,20		
		20	20		

5.5.3 Co-existence studies

There are no co-existence issues for this combination.

5.6 CA_2DL_n7B_2UL_n7B

5.6.1 Operating band for CA

Table 5.6.1-1: intra-band contiguous CA operating bands in FR1

NR CA Band	NR Band (Table 5.2-1)
CA_n7	n7

5.6.2 Channel bandwidths per operating band for CA

Table 5.6.2-1: Supported bandwidth combinations for CA_2DL_n1B_1UL_n1A

NR CA Configuration	Uplink Configurations	Channel bandwidths for carrier [MHz]	Channel bandwidths for carrier [MHz]	Aggregated bandwidth [MHz]	Bandwidth combination set
CA_n7B	CA_n7B	10, 15, 20	10, 15, 20, 30, 40	50	0

5.6.3 Co-existence studies

There are no co-existence issues for this combination.

5.7 CA_2DL_n41B_2UL_n41B

5.7.1 Channel bandwidths per operating band for CA

Table 5.7.1-1: Supported bandwidth combinations for CA_n41B

E-UTRA CA configuration / Bandwidth combination set					
NR CA configuration	Uplink CA configurations	Component carriers in order of increasing carrier frequency		Aggregated bandwidth (MHz)	Bandwidth combination set
		Channel bandwidths for carrier (MHz)	Channel bandwidths for carrier (MHz)		
CA_n41B	CA_n41B	10, 20, 30, 40, 50	10, 20, 30, 40, 50	100	0

5.7.2 UE maximum output power for CA

Table 5.7.2-1 UE Power Class for intra-band contiguous CA

NR CA Configuration	Class 1 (dBm)	Tolerance (dB)	Class 2 (dBm)	Tolerance (dB)	Class 3 (dBm)	Tolerance (dB)	Class 4 (dBm)	Tolerance (dB)
CA_n41B					23	±2		

5.7.3 Spurious emission for Co-existence band

Table 5.7.3 lists the protected bands required for the 2UL intra-band non-contiguous CA configuration

Table 5.7.3-1: Spurious emission band UE co-existence for CA_n41B

E-UTRA CA Configuration	Spurious emission						
	Protected band	Frequency range (MHz)			Maximum Level (dBm)	MBW (MHz)	NOTE
CA_n41B	E-UTRA Band 1, 2, 3, 4, 5, 8, 10, 12, 13, 14, 17, 24, 25, 26, 27, 28, 29, 30, 34, 39, 42, 44, 45, 48, 50, 51, 52, 65, 66, 70, 71, 73, 74, 85, NR Band n77, n78	F _{DL_low}	-	F _{DL_high}	-50	1	

	NR Band n79	F_{DL_low}	-	F_{DL_high}	-50	1	2
	E-UTRA Band 9, 11, 18, 19, 21	F_{DL_low}	-	F_{DL_high}	-50	1	30
	Frequency range	1884.5		1915.7	-41	0.3	8, 30
<p>NOTE 2: As exceptions, measurements with a level up to the applicable requirements defined in Table 6.5.3.1-2 are permitted for each assigned NR carrier used in the measurement due to 2nd, 3rd, 4th or 5th harmonic spurious emissions. Due to spreading of the harmonic emission the exception is also allowed for the first 1 MHz frequency range immediately outside the harmonic emission on both sides of the harmonic emission. This results in an overall exception interval centred at the harmonic emission of $(2 \text{ MHz} + N \times L_{CRB} \times RB_{size} \text{ kHz})$, where N is 2, 3, 4, 5 for the 2nd, 3rd, 4th or 5th harmonic respectively. The exception is allowed if the measurement bandwidth (MBW) totally or partially overlaps the overall exception interval.</p> <p>NOTE 8: Applicable when co-existence with PHS system operating in 1884.5 - 1915.7 MHz.</p> <p>NOTE 30: This requirement applies when the NR carrier is confined within 2545 – 2575 MHz or 2595 – 2645 MHz and the channel bandwidth is 10 or 20 MHz</p>							

5.7.3 REFSSENS

There are no REFSSENS exceptions for this combination.

5.8 CA_n46

5.8.1 Operating band for CA

Table 5.8.1-1: intra-band contiguous CA operating bands in FR1

NR CA Band	NR Band (Table 5.2-1)
CA_n46	n46

5.8.2 Channel bandwidths per operating band for CA

Table 5.8.2-1: Supported bandwidth combinations for CA_n46

NR CA configuration / Bandwidth combination set								
NR CA configuration	Uplink CA configurations	Channel bandwidths for carrier [MHz]	Channel bandwidths for carrier [MHz]	Channel bandwidths for carrier [MHz]	Channel bandwidths for carrier [MHz]	Channel bandwidths for carrier [MHz]	Maximum aggregated bandwidth [MHz]	Bandwidth combination set
CA_n46B	CA_n46A	20, 40, 60	20, 40				100	

CA_n46C	CA_n46A	60, 80	60, 80				160	
CA_n46D	CA_n46A	60, 80	80	80			240	
CA_n46E	CA_n46A	80	80	80	80		320	
CA_n46G	CA_n46A	40, 60	40	40			140	
CA_n46H	CA_n46A	40, 80	40	40	40		200	
CA_n46I	CA_n46A	60	40	40	40	40	220	

5.8.3 Co-existence studies

There are no co-existence issues for this combination.

5.8.4 REFSENS

In Rel-13 LAA, only CA was allowed involving band 46, thus we did not have any REFSENS values introduced in the REFSENS table in Section 7 of the spec.

In Rel-16, we will also have standalone NR-U operations. Following LAA specification, REFSENS for 15kHz SCS with 20MHz CBW can be reused as -90dBm. However, the other REFSENS numbers need to be investigated.

Operating band / SCS / Channel bandwidth / Duplex-mode															
ng	SCS kHz	5 MHz (dBm)	10 MHz (dBm)	15 MHz (dBm)	20 MHz (dBm)	25 MHz (dBm)	30 MHz (dBm)	40 MHz (dBm)	50 MHz (dBm)	60 MHz (dBm)	70 MHz (dBm)	80 MHz (dBm)	90 MHz (dBm)	100 MHz (dBm)	Du M
	15				-89.7			-86.6							T
	30				-89.9			-86.7		-84.8		-83.6			
	60				-90.1			-86.9		-85.0		-83.6			

5.8.5 A-MPR studies

Since there will be wideband UL operation (UL CBW larger than 20MHz), A-MPR studies are required too.

6 Intra-Band Non-Contiguous Carrier Aggregation FR1: Specific Band Combination Part

6.1 CA_2DL_n66(2A)_1UL_n66A

6.1.1 Channel bandwidths per operating band for CA

Table 6.1.1-1: Supported bandwidth combinations for CA_n66(2A)

NR CA Configuration	Uplink Configurations	Channel bandwidths for carrier [MHz]	Channel bandwidths for carrier [MHz]	Aggregated bandwidth [MHz]	Bandwidth combination set
CA_n66(2A)	-	5 ¹	20	25	0
		10	15		
		20	5 ¹		
		15	10		
		10	20	30	
		15	15		
		20	10		
		15	20	35	
		20	15		
		20	20	40	
		5 ¹	40	45	
		40	5 ¹		
		10	40	50	
		40	10		
		15	40	55	
		40	15		
		20	40	60	
		40	20		
Note 1: 5MHz is not applicable for 30/60kHz SCS					

6.1.2 UE co-existence studies

There are no co-existence issues for this combination.

6.1.3 REFSENS

There are no REFSENS exceptions for this combination. However, UL configuration for REFSENS needs to be captured after general principles for RX requirements have been agreed.

6.2 CA_2DL_n41(2A)_1UL_n41A

6.2.1 Operating band for CA

NR CA Band	NR Band (Table 5.2-1)
CA_n41(2A)	n41

6.2.2 Channel bandwidths per operating band for CA

Table 6.2.2-1: Supported bandwidth combinations for CA_2DL_n41(2A)_1UL_n41A

E-UTRA CA configuration / Bandwidth combination set								
NR CA configuration	Uplink CA configurations	Channel bandwidths for carrier [MHz]	Channel bandwidths for carrier [MHz]	Channel bandwidths for carrier [MHz]	Channel bandwidths for carrier [MHz]	Channel bandwidths for carrier [MHz]	Maximum aggregated bandwidth [MHz]	Bandwidth combination set
CA_n41(2A)	-	40	40				80	0
		40	50				90	
		40	60				100	
		50	50					
		50	60				110	
		40	80				120	
		60	60					
		50	80				130	
		40	100				140	
		60	80					
		50	100				150	
		60	100				160	
		80	80					
		50	40				90	
		60	40				100	
		60	50				110	
		80	40				120	
		80	50				130	

		100	40				140	
		80	60					
		100	50					
		100	60					
		100	80					
		80	100					
		10, 15, 20, 40, 50, 60, 80, 90, 100	10, 15, 20, 40, 50, 60, 80, 90, 100				190	1

6.2.3 Co-existence studies

There are no co-existence issues for this combination.

6.2.4 REFSENS

There are no REFSENS exceptions for this combination. UL configuration for REFSENS is listed below.

Table 6.2.4-1: Intra-band non-contiguous CA with one uplink configuration for reference sensitivity

CA configuration	Aggregated channel bandwidth (PCC+SCC)	W_{gap} / [MHz]	UL PCC allocation	ΔR_{IBNC} (dB)	Duplex mode
CA_n41(2A)	NOTE 1	NOTE 2	NOTE 3	0.0	TDD
NOTE 1: All combinations of channel bandwidths defined in Table 5.5A.2-1. NOTE 2: All applicable sub-block gap sizes. NOTE 3: The PCC allocation is same as Transmission bandwidth configuration N_{RB} as defined in Table 5.3.2-1. NOTE 4: The carrier center frequency of PCC in the DL operating band is configured closer to the UL operating band.					

6.3 CA_2DL_n25(2A)_1UL_n25A

6.3.1 Channel bandwidths per operating band for CA

Table 6.3.1-1: Supported bandwidth combinations for CA_2DL_n25(2A)_1UL_n25A

NR CA configuration	Uplink CA configurations	E-UTRA CA configuration / Bandwidth combination set						
		Component carriers in order of increasing carrier frequency					Maximum aggregated bandwidth [MHz]	Bandwidth combination set
		Channel bandwidths for carrier [MHz]	Channel bandwidths for carrier [MHz]	Channel bandwidths for carrier [MHz]	Channel bandwidths for carrier [MHz]	Channel bandwidths for carrier [MHz]		
CA_n25(2A)	-	5, 10, 15, 20	5, 10, 15, 20				40	0

6.3.2 Co-existence studies

There are no co-existence issues for this combination.

6.3.3 REFSENS

REFSENS can be impacted by the PCC UL being closer to do the SCC DL than the nominal spacing.

NOTE to rapporteur: The paragraph below has highlighted necessary changes to 38.101-1 section 7.3A.2.2 that will need to be included in the big CR.

For intra-band non-contiguous carrier aggregation with $F_{DL_low} < 2700$ MHz and $F_{UL_low} < 2700$ MHz with one uplink carrier and two or more downlink sub-blocks, throughput of each downlink component carrier shall be $\geq 95\%$ of the maximum throughput of the reference measurement channels as specified in Annexes A.2.2, A.2.3 and A.3.2 (with one sided dynamic OCNG Pattern OP.1 FDD/TDD for the DL-signal as described in Annex A.5.1.1/A.5.2.1) and parameters specified in Table 7.3.2-1, Table 7.3.2-2, and Table 7.3A.2.2-1 with the reference sensitivity power level increased by $D_{R_{BNC}}$ given in Table 7.3A.2.2-1 for the SCC(s). For aggregation of two or more downlink FDD carriers with one uplink carrier the reference sensitivity is defined only for the specific uplink and downlink test points which are specified in Table 7.3A.2.2-1. The requirements apply with all downlink carriers active. Unless given by Table 7.3.2-4, the reference sensitivity requirements shall be verified with the network signalling value NS_01 (Table 6.2.3-1) configured.

CA configuration	SCS kHz	Aggregated channel bandwidth (PCC+SCC)	Wgap / [MHz]	UL PCC allocation	ΔR_{BNC} (dB)	Duplex mode
CA_n25(2A)	15	25RB+25RB	$W_{gap} = 55.0$	10^1	5.0	FDD
			$W_{gap} = 30.0$	25	0.0	
NOTE 1: ¹ refers to the UL resource blocks shall be located as close as possible to the downlink operating band but confined within the transmission.						
NOTE 2: W_{gap} is the sub-block gap between the two sub-blocks.						
NOTE 3: The carrier centre frequency of SCC in the DL operating band is configured closer to the UL operating band.						

6.4 CA_2DL_n48(2A)_1UL_n48A

6.4.1 Channel bandwidths per operating band for CA

Table 6.4.1-1: Supported bandwidth combinations for CA_2DL_n48(2A)_1UL_n48A

		E-UTRA CA configuration / Bandwidth combination set						
NR CA configuration	Uplink CA configurations	Component carriers in order of increasing carrier frequency					Maximum aggregated bandwidth [MHz]	Bandwidth combination set
		Channel bandwidths for carrier [MHz]	Channel bandwidths for carrier [MHz]	Channel bandwidths for carrier [MHz]	Channel bandwidths for carrier [MHz]	Channel bandwidths for carrier [MHz]		
CA_n48(2A)	-	5 ¹ , 10, 15, 20, 40, 50	5 ¹ , 10, 15, 20, 40, 50				100	0
		10, 15, 20, 40, 50, 60, 80, 90, 100	10, 15, 20, 40, 50, 60, 80, 90, 100				140 ²	
NOTE 1: 5MHz is not applicable for 30/60kHz SCS								
NOTE 2: Parameter value accounts for both, the maximum frequency range of band n48 (150MHz), and the minimum frequency gaps in between NR non-contiguous component carriers								

6.4.2 Co-existence studies

There are no co-existence issues for this combination.

6.4.3 REFSENS

There are no REFSENS exceptions for this combination. However, UL configuration for REFSENS needs to be captured after general principles for RX requirements have been agreed

6.5 CA_2DL_n3(2A)_1UL_n3A

6.5.1 Operating band for CA

Table 6.5.1-1: intra-band non-contiguous CA operating bands in FR1

NR CA Band	NR Band (Table 5.2-1)
CA_n3	n3

6.5.2 Channel bandwidths per operating band for CA

Table 6.5.2-1: Supported bandwidth combinations for CA_2DL_n3(2A)_1UL_n3A

NR CA Configuration	Uplink Configurations	Channel bandwidths for carrier [MHz]	Channel bandwidths for carrier [MHz]	Aggregated bandwidth [MHz]	Bandwidth combination set
CA_n3(2A)	-	5,10,15,20	5,10,15,20	40	0

6.5.3 Co-existence studies

There are no co-existence issues for this combination.

6.5.4 REFSENS

There are no REFSENS exceptions for this combination. UL configuration for REFSENS is listed below.

Table 6.5.4-1: Intra-band non-contiguous CA with one uplink configuration for reference sensitivity

CA configuration	Aggregated channel bandwidth (PCC+SCC)	W_{gap} / [MHz]	UL PCC allocation	ΔR_{IBNC} (dB)	Duplex mode
CA_n3(2A)	25RB+25RB	$W_{\text{gap}} = 65.0$	12 ⁵	4.7	FDD
		$W_{\text{gap}} = 45.0$	25 ⁵	0	
NOTE 1: All combinations of channel bandwidths defined in Table 5.5A.2-1.					
NOTE 2: All applicable sub-block gap sizes.					
NOTE 3: The PCC allocation is same as Transmission bandwidth configuration N_{RB} as defined in Table 5.3.2-1.					
NOTE 4: The carrier center frequency of PCC in the DL operating band is configured closer to the UL operating band.					
NOTE 5: refers to the UL resource blocks shall be located as close as possible to the downlink operating band but confined within the transmission.					

6.6 CA_2DL_n7(2A)_1UL_n7A

6.6.1 Operating band for CA

Table 6.6.1-1: intra-band non-contiguous CA operating bands in FR1

NR CA Band	NR Band (Table 5.2-1)
CA_n7	n7

6.6.2 Channel bandwidths per operating band for CA

Table 6.6.2-1: Supported bandwidth combinations for CA_2DL_n7(2A)_1UL_n7A

NR CA Configuration	Uplink Configurations	Channel bandwidths for carrier [MHz]	Channel bandwidths for carrier [MHz]	Aggregated bandwidth [MHz]	Bandwidth combination set
CA_n7(2A)	-	5,10,15,20	5,10,15,20	40	0

6.6.3 Co-existence studies

There are no co-existence issues for this combination.

6.6.4 REFSENS

There are no REFSENS exceptions for this combination. UL configuration for REFSENS is listed below.

Table 6.6.4-1: Intra-band non-contiguous CA with one uplink configuration for reference sensitivity

CA configuration	Aggregated channel bandwidth (PCC+SCC)	W_{gap} / [MHz]	UL PCC allocation	ΔR_{IBNC} (dB)	Duplex mode
CA_n7(2A)	52RB+25RB (SCS=15kHz)	$W_{\text{gap}} = 55$	32 ⁵	0.0	FDD
		$W_{\text{gap}} = 30$	50 ⁵	0.0	FDD
NOTE 1: All combinations of channel bandwidths defined in Table 5.5A.2-1.					
NOTE 2: All applicable sub-block gap sizes.					
NOTE 3: The PCC allocation is same as Transmission bandwidth configuration NRB as defined in Table 5.3.2-1.					
NOTE 4: The carrier center frequency of PCC in the DL operating band is configured closer to the UL operating band.					
NOTE 5: Refers to the UL resource blocks shall be located as close as possible to the downlink operating band but confined within the transmission.					
NOTE 6: W_{gap} is the sub-block gap between the two sub-blocks.					
NOTE 7: The carrier centre frequency of SCC in the DL operating band is configured closer to the UL operating band.					

6.7 CA_2DL_n48(3A)_1UL_n48A, CA_2DL_n48(4A)_1UL_n48A

6.7.1 Channel bandwidths per operating band for CA

Table 6.7.1-1: Supported bandwidth combinations for CA_2DL_n48(3A)_1UL_n48A

NR CA configuration	Uplink Configurations	Channel bandwidths for carrier [MHz]	Channel bandwidths for carrier [MHz]	Channel bandwidths for carrier [MHz]	Maximum Aggregated bandwidth (MHz)	Bandwidth combination set
CA_n48(3A)	-	10, 15, 20, 40, 50, 60, 80, 90, 100	10, 15, 20, 40, 50, 60, 80, 90, 100	10, 15, 20, 40, 50, 60, 80, 90, 100	140 ²	0

Table 6.7.1-2: Supported bandwidth combinations for CA_2DL_n48(4A)_1UL_n48A

NR CA configuration	Uplink Configurations	Channel bandwidths for carrier [MHz]	Channel bandwidths for carrier [MHz]	Channel bandwidths for carrier [MHz]	Channel bandwidths for carrier [MHz]	Maximum Aggregated bandwidth (MHz)	Bandwidth combination set
CA_n48(4A)	-	10, 15, 20, 40,50, 60, 80, 90, 100	10, 15, 20, 40,50, 60, 80, 90, 100	10, 15, 20, 40,50, 60, 80, 90, 100	10, 15, 20, 40,50, 60, 80, 90, 100	135 ²	0

6.7.2 Co-existence studies

There are no co-existence issues for this combination.

6.7.3 REFSSENS

There are no REFSSENS exceptions for this combination. However, UL configuration for REFSSENS needs to be captured after general principles for RX requirements have been agreed

7.1 CA_xDL_n257a_xUL_n257a (x=2, 3, 4, 5, 6, 7, 8, a=G, H, I, J, K, L, M)

7.1.1 Channel bandwidths per operating band for CA

Table 7.1.1-1: NR CA configurations, bandwidth combination sets and fallback group defined for intra-band contiguous CA

NR CA configuration	Uplink CA configurations	NR CA configuration / Bandwidth combination set / Fallback group										Fallback group
		Component carriers in order of increasing carrier frequency								Maximum aggregated BW (MHz)	BCS	
CBW (MHz)	CBW (MHz)	CBW (MHz)	CBW (MHz)	CBW (MHz)	CBW (MHz)	CBW (MHz)	CBW (MHz)	CBW (MHz)	CBW (MHz)			
CA_n257G	CA_n257G	100	100							200	0	3
CA_n257H	CA_n257G CA_n257H	100	100	100						300	0	
CA_n257I	CA_n257G CA_n257H CA_n257I	100	100	100	100					400	0	
CA_n257J	CA_n257G CA_n257H CA_n257I CA_n257J	100	100	100	100	100				500	0	
CA_n257K	CA_n257G CA_n257H CA_n257I CA_n257J CA_n257K	100	100	100	100	100	100			600	0	
CA_n257L	CA_n257G CA_n257H CA_n257I CA_n257J CA_n257K CA_n257L	100	100	100	100	100	100	100		700	0	
CA_n257M	CA_n257G CA_n257H CA_n257I CA_n257J CA_n257K CA_n257L CA_n257M	100	100	100	100	100	100	100	100	800	0	

7.1.2 UE co-existence studies

There are no co-existence issues for this combination.

7.2 CA_n258

7.2.1 Operating bands for CA

Table 7.2.1-1: Intra-band CA

NR CA Band	NR Band	Uplink (UL) band	Downlink (DL) band	Duplex mode
		BS receive / UE transmit	BS transmit / UE receive	
		F _{UL_low} – F _{UL_high}	F _{DL_low} – F _{DL_high}	
CA_n258	n258	24250 MHz – 27500 MHz	24250 MHz – 27500 MHz	TDD

7.2.2 Channel bandwidths per operating band for CA

Table 7.2.2-1: NR CA configurations, bandwidth combination sets and fallback group defined for intra-band contiguous CA

NR CA configuration	Uplink CA configurations	NR CA configuration / Bandwidth combination set / Fallback group										
		Component carriers in order of increasing carrier frequency								Maximum aggregated BW (MHz)	BCS	Fallback group
		CBW (MHz)	CBW (MHz)	CBW (MHz)	CBW (MHz)	CBW (MHz)	CBW (MHz)	CBW (MHz)	CBW (MHz)			
CA_n258B	CA_n258A CA_n258B	50, 100, 200, 400	50, 100, 200, 400							800	0	1
CA_n258C	CA_n258A CA_n258B CA_n258C	50, 100, 200, 400	50, 100, 200, 400	50, 100, 200, 400						1200	0	
CA_n258D	CA_n258A CA_n258D	50, 100, 200	50, 100, 200							400	0	2
CA_n258E	CA_n258A CA_n258D CA_n258E	50, 100, 200	50, 100, 200	50, 100, 200						600	0	
CA_n258F	CA_n258A CA_n258D CA_n258E CA_n258F	50, 100, 200	50, 100, 200	50, 100, 200	50, 100, 200					800	0	
CA_n258G	CA_n258A CA_n258G	50, 100	50, 100							200	0	3
CA_n258H	CA_n258A CA_n258G CA_n258H	50, 100	50, 100	50, 100						300	0	
CA_n258I	CA_n258A CA_n258G CA_n258H CA_n258I	50, 100	50, 100	50, 100	50, 100					400	0	
CA_n258J	CA_n258A CA_n258G CA_n258H CA_n258I CA_n258J	50, 100	50, 100	50, 100	50, 100	50, 100				500	0	
CA_n258K	CA_n258A CA_n258G CA_n258H CA_n258I CA_n258J CA_n258K	50, 100	50, 100	50, 100	50, 100	50, 100	50, 100			600	0	
CA_n258L	CA_n258A CA_n258G CA_n258H CA_n258I CA_n258J CA_n258K CA_n258L	50, 100	50, 100	50, 100	50, 100	50, 100	50, 100	50, 100		700	0	

NR CA configuration	Uplink CA configurations	NR CA configuration / Bandwidth combination set / Fallback group										
		Component carriers in order of increasing carrier frequency								Maximum aggregated BW (MHz)	BCS	Fallback group
		CBW (MHz)	CBW (MHz)	CBW (MHz)	CBW (MHz)	CBW (MHz)	CBW (MHz)	CBW (MHz)	CBW (MHz)			
CA_n258M	CA_n258A CA_n258G CA_n258H CA_n258I CA_n258J CA_n258K CA_n258L CA_n258M	50, 100	50, 100	50, 100	50, 100	50, 100	50, 100	50, 100	50, 100	800	0	

7.2.3 Co-existence studies

Table 7.2.3-1: Impact of UL and DL Harmonic Interference

Band	UL DL		2 nd Harmonic		3 rd Harmonic		4 th Harmonic		5 th Harmonic		6 th Harmonic		7 th Harmonic	
	Low Band Edge	High Band Edge	Low Band Edge	High Band Edge	Low Band Edge	High Band Edge	Low Band Edge	High Band Edge	Low Band Edge	High Band Edge	Low Band Edge	High Band Edge	Low Band Edge	High Band Edge
n258	24250	27500	48500	55000	72750	82500	97000	110000	121250	137500	145500	165000	169750	192500

8 Intra-Band Non-Contiguous Carrier Aggregation FR2: Specific Band Combination Part

8.1 Intra band non-contiguous CA configurations n260

Table 8.1-1: Supported bandwidth combinations for n260(A)

NR CA configuration / Bandwidth combination set			
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			Component carriers in order of increasing carrier frequency										
NR configuration	Uplink CA configurations	SCS	Channel bandwidths for carrier (MHz)	Channel bandwidths for carrier (MHz)	Channel bandwidths for carrier (MHz)	Channel bandwidths for carrier (MHz)	Channel bandwidths for carrier (MHz)	Channel bandwidths for carrier (MHz)	Channel bandwidths for carrier (MHz)	Channel bandwidths for carrier (MHz)	Channel bandwidths for carrier (MHz)	Maximum aggregated bandwidth (MHz)	Fall-back group
CA_n260(5A)	-	60	50, 100, 200	50, 100, 200	50, 100, 200	50, 100, 200	50, 100, 200					1000	
		120	50, 100, 200, 400	50, 100, 200, 400	50, 100, 200, 400	50, 100, 200, 400	50, 100, 200, 400					2000	
CA_n260(6A)	-	60	50, 100, 200	50, 100, 200	50, 100, 200	50, 100, 200	50, 100, 200	50, 100, 200				1200	
		120	50, 100, 200, 400	50, 100, 200, 400	50, 100, 200, 400	50, 100, 200, 400	50, 100, 200, 400	50, 100, 200, 400				2400	
CA_n260(7A)	-	60	50, 100, 200	50, 100, 200	50, 100, 200	50, 100, 200	50, 100, 200	50, 100, 200	50, 100, 200			1400	
		120	50, 100, 200, 400	50, 100, 200, 400	50, 100, 200, 400	50, 100, 200, 400	50, 100, 200, 400	50, 100, 200, 400	50, 100, 200, 400			2600 ¹	
CA_n260(8A)	-	60	50, 100, 200	50, 100, 200	50, 100, 200	50, 100, 200	50, 100, 200	50, 100, 200	50, 100, 200	50, 100, 200		1600	
		120	50, 100, 200, 400	50, 100, 200, 400	50, 100, 200, 400	50, 100, 200, 400	50, 100, 200, 400	50, 100, 200, 400	50, 100, 200, 400	50, 100, 200, 400		2650 ¹	

Note 1: The maximum bandwidth of band n260 is 3000MHz and a non-contiguous gap is in between NR component carriers

Table 8.1-2: Supported bandwidth combinations for n260(D)

			NR CA configuration / Bandwidth combination set										
			Component carriers in order of increasing carrier frequency										
NR configuration	Uplink CA configurations	SCS	Channel bandwidths for carrier (MHz)	Channel bandwidths for carrier (MHz)	Channel bandwidths for carrier (MHz)	Channel bandwidths for carrier (MHz)	Channel bandwidths for carrier (MHz)	Channel bandwidths for carrier (MHz)	Channel bandwidths for carrier (MHz)	Channel bandwidths for carrier (MHz)	Channel bandwidths for carrier (MHz)	Maximum aggregated bandwidth (MHz)	Fall-back group
CA_n260(2D)	-	60	50, 100, 200	200	50, 100, 200	200						800	2
		120	50, 100, 200	200	50, 100, 200	200						800	

Table 8.1-3: Supported bandwidth combinations for n260(G)

			NR CA configuration / Bandwidth combination set										
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			Component carriers in order of increasing carrier frequency									
NR configuration	Uplink CA configurations	SCS	Channel bandwidths for carrier (MHz)	Channel bandwidths for carrier (MHz)	Channel bandwidths for carrier (MHz)	Channel bandwidths for carrier (MHz)	Channel bandwidths for carrier (MHz)	Channel bandwidths for carrier (MHz)	Channel bandwidths for carrier (MHz)	Channel bandwidths for carrier (MHz)	Maximum aggregated bandwidth (MHz)	Fall-back group
CA_n260(2G)	-	60	50, 100	50, 100	50, 100	50, 100					400	3
		120	50, 100	50, 100	50, 100	50, 100					400	
CA_n260(3G)	-	60	100	50, 100	100	50, 100	100	50, 100			600	3
		120	100	50, 100	100	50, 100	100	50, 100			600	
CA_n260(4G)	-	60	100	50, 100	100	50, 100	100	50, 100	100	50, 100	800	3
		120	100	50, 100	100	50, 100	100	50, 100	100	50, 100	800	

Table 8.1-4: Supported bandwidth combinations for n260(H)

			NR CA configuration / Bandwidth combination set									
			Component carriers in order of increasing carrier frequency									
NR configuration	Uplink CA configurations	SCS	Channel bandwidths for carrier (MHz)	Channel bandwidths for carrier (MHz)	Channel bandwidths for carrier (MHz)	Channel bandwidths for carrier (MHz)	Channel bandwidths for carrier (MHz)	Channel bandwidths for carrier (MHz)	Channel bandwidths for carrier (MHz)	Channel bandwidths for carrier (MHz)	Maximum aggregated bandwidth (MHz)	Fall-back group
CA_n260(2H)	-	60	50, 100	50, 100	50, 100	50, 100	50, 100	50, 100			600	3
		120	50, 100	50, 100	50, 100	50, 100	50, 100	50, 100			600	

Table 8.1-5: Supported bandwidth combinations for n260(O)

			NR CA configuration / Bandwidth combination set									
			Component carriers in order of increasing carrier frequency									
NR configuration	Uplink CA configurations	SCS	Channel bandwidths for carrier (MHz)	Channel bandwidths for carrier (MHz)	Channel bandwidths for carrier (MHz)	Channel bandwidths for carrier (MHz)	Channel bandwidths for carrier (MHz)	Channel bandwidths for carrier (MHz)	Channel bandwidths for carrier (MHz)	Channel bandwidths for carrier (MHz)	Maximum aggregated bandwidth (MHz)	Fall-back group
CA_n260(2O)	-	60	50, 100	50, 100	50, 100	50, 100					400	4
		120	50, 100	50, 100	50, 100	50, 100					400	
CA_n260(3O)	-	60	50, 100	50, 100	50, 100	50, 100	50, 100	50, 100			600	4
		120	50, 100	50, 100	50, 100	50, 100	50, 100	50, 100			600	

CA_n260(4O)	-	60	50, 100	50, 100	50, 100	50, 100	50, 100	50, 100	50, 100	50, 100	800	4
		120	50, 100	50, 100	50, 100	50, 100	50, 100	50, 100	50, 100	50, 100	800	

Table 8.1-6: Supported bandwidth combinations for n260(P)

			NR CA configuration / Bandwidth combination set									
			Component carriers in order of increasing carrier frequency									
NR configuration	Uplink CA configurations	SCS	Channel bandwidths for carrier (MHz)	Channel bandwidths for carrier (MHz)	Channel bandwidths for carrier (MHz)	Channel bandwidths for carrier (MHz)	Channel bandwidths for carrier (MHz)	Channel bandwidths for carrier (MHz)	Channel bandwidths for carrier (MHz)	Channel bandwidths for carrier (MHz)	Maximum aggregated bandwidth (MHz)	Fall-back group
CA_n260(2P)	-	60	50, 100	50, 100	50, 100	50, 100	50, 100	50, 100			600	4
		120	50, 100	50, 100	50, 100	50, 100	50, 100	50, 100			600	

Table 8.1-7: Supported bandwidth combinations for n260(P)

			NR CA configuration / Bandwidth combination set															
NR CA configuration	Uplink CA configurations	SCS	Component carriers in order of increasing carrier frequency														Aggregated BW (MHz)	Fallback group
			CBW (MHz)	CBW (MHz)	CBW (MHz)	CBW (MHz)	CBW (MHz)	CBW (MHz)	CBW (MHz)	CBW (MHz)	CBW (MHz)	CBW (MHz)	CBW (MHz)	CBW (MHz)	CBW (MHz)	CBW (MHz)		
CA_n260(4P)	n260A	60	50, 100	50, 100	50, 100	50, 100	50, 100	50, 100	50, 100	50, 100	50, 100	50, 100	50, 100	50, 100			1200	4
		120	50, 100	50, 100	50, 100	50, 100	50, 100	50, 100	50, 100	50, 100	50, 100	50, 100	50, 100	50, 100			1200	

Table 8.1-8: Supported bandwidth combinations for n260(Q)

			NR CA configuration / Bandwidth combination set															
NR CA configuration	Uplink CA configurations	SCS	Component carriers in order of increasing carrier frequency														Aggregated BW (MHz)	Fallback group
			CBW (MHz)	CBW (MHz)	CBW (MHz)	CBW (MHz)	CBW (MHz)	CBW (MHz)	CBW (MHz)	CBW (MHz)	CBW (MHz)	CBW (MHz)	CBW (MHz)	CBW (MHz)	CBW (MHz)	CBW (MHz)		
CA_n260(2Q)	n260A	60	50, 100	50, 100,	50, 100	50, 100	50, 100	50, 100	50, 100	50, 100							800	4
		120	50, 100	50, 100,	50, 100	50, 100	50, 100	50, 100	50, 100	50, 100							800	

8.2 Intra band non-contiguous CA fallback groups n260

Table 8.2-1: Supported bandwidth combinations for n260(A-G)

		NR CA configuration / Bandwidth combination set									
NR configuration	Uplink CA configurations	Component carriers in order of increasing carrier frequency								Maximum aggregated bandwidth (MHz)	Fall-back group
		Channel bandwidths for carrier (MHz)	Channel bandwidths for carrier (MHz)	Channel bandwidths for carrier (MHz)	Channel bandwidths for carrier (MHz)	Channel bandwidths for carrier (MHz)	Channel bandwidths for carrier (MHz)	Channel bandwidths for carrier (MHz)	Channel bandwidths for carrier (MHz)		
CA_n260(2A-G)	-	See CA_n260(2A) Bandwidth Combination in Table 5.5A.2-1 of 38.101-2		See CA_n260G Bandwidth Combination Fallback group 3 in Table 5.5A.1-2 of 38.101-2						1000	
		See CA_n260G Bandwidth Combination Fallback group 3 in Table 5.5A.1-2 of 38.101-2		See CA_n260(2A) Bandwidth Combination in Table 5.5A.2-1 of 38.101-2							
CA_n260(A-2G)	-	See CA_n260A Bandwidth Combination in Table 5.3A.4-1 of 38.101-2	See CA_n260(2G) Bandwidth Combination Fallback group 3 in table above							800	
		See CA_n260(2G) Bandwidth Combination Fallback group 3 in table above				See CA_n260A Bandwidth Combination in Table 5.3A.4-1 of 38.101-2					
CA_n260(2A-2G)	-	See CA_n260(2A) Bandwidth Combination in Table 5.5A.2-1 of 38.101-2		See CA_n260(2G) Bandwidth Combination Fallback group 3 in table above						1200	

		See CA_n260(2G) Bandwidth Combination Fallback group 3 in table above				See CA_n260(2A) Bandwidth Combination in Table 5.5A.2-1 of 38.101-2					
CA_n260(2A-2G-O)	-	See CA_n260(2A) Bandwidth Combination in Table 5.5A.2-1 of 38.101-2		See CA_n260(2G) Bandwidth Combination Fallback group 3 in table above				See CA_n260O Bandwidth Combination Fallback group 4 in Table 5.5A.1-2 of 38.101-2		1400	
		See CA_n260O Bandwidth Combination Fallback group 4 in Table 5.5A.1-2 of 38.101-2		See CA_n260(2A) Bandwidth Combination in Table 5.5A.2-1 of 38.101-2		See CA_n260(2G) Bandwidth Combination Fallback group 3 in table above					
CA_n260(3A-2G)	-	See CA_n260(3A) Bandwidth Combination in Table 5.5A.2-1 of 38.101-2			See CA_n260(2G) Bandwidth Combination Fallback group 3 in table above				1600		
		See CA_n260(2G) Bandwidth Combination Fallback group 3 in table above			See CA_n260(3A) Bandwidth Combination in Table 5.5A.2-1 of 38.101-2						
CA_n260(4A-G)	-	See CA_n260(4A) Bandwidth Combination in Table 5.5A.2-1 of 38.101-2				See CA_n260G Bandwidth Combination Fallback group 3 in Table 5.5A.1-2 of 38.101-2			1800		
		See CA_n260G Bandwidth Combination Fallback group 3 in Table 5.5A.1-2 of 38.101-2		See CA_n260(4A) Bandwidth Combination in Table 5.5A.2-1 of 38.101-2							
CA_n260(4A-2G)	-	See CA_n260(4A) Bandwidth Combination in Table 5.5A.2-1 of 38.101-2				See CA_n260(2G) Bandwidth Combination Fallback group 3 in table above				2000	
		See CA_n260(2G) Bandwidth Combination Fallback group 3 in table above				See CA_n260(4A) Bandwidth Combination in Table 5.5A.2-1 of 38.101-2					
CA_n260(A-G)	-	See CA_n260A Bandwidth Combination in Table 5.3A.4-1 of 38.101-2	See CA_n260G Bandwidth Combination Fallback group 3 in Table 5.5A.1-2 of 38.101-2						600		
		See CA_n260G Bandwidth Combination Fallback group 3 in Table 5.5A.1-2 of 38.101-2		See CA_n260A Bandwidth Combination in Table							

			5.3A.4-1 of 38.101-2							
CA_n260(3A-G)	-	See CA_n260(3A) Bandwidth Combination in Table 5.5A.2-1 of 38.101-2		See CA_n260G Bandwidth Combination Fallback group 3 in Table 5.5A.1-2 of 38.101-2					1400	
		See CA_n260G Bandwidth Combination Fallback group 3 in Table 5.5A.1-2 of 38.101-2		See CA_n260(3A) Bandwidth Combination in Table 5.5A.2-1 of 38.101-2						

Table 8.2-2: Supported bandwidth combinations for n260(A-H)

		NR CA configuration / Bandwidth combination set									
NR configuration	Uplink CA configurations	Component carriers in order of increasing carrier frequency								Maximum aggregated bandwidth (MHz)	Fall-back group
		Channel bandwidths for carrier (MHz)	Channel bandwidths for carrier (MHz)	Channel bandwidths for carrier (MHz)	Channel bandwidths for carrier (MHz)	Channel bandwidths for carrier (MHz)	Channel bandwidths for carrier (MHz)	Channel bandwidths for carrier (MHz)	Channel bandwidths for carrier (MHz)		
CA_n260(A-2H)	-	See CA_n260A Bandwidth Combination in Table 5.3A.4-1 of 38.101-2	See CA_n260(2H) Bandwidth Combination Fallback group 3 in table above							1000	
		See CA_n260(2H) Bandwidth Combination Fallback group 3 in table above						See CA_n260A Bandwidth Combination in Table 5.3A.4-1 of 38.101-2			
CA_n260(2A-H)	-	See CA_n260(2A) Bandwidth Combination in Table 5.5A.2-1 of 38.101-2		See CA_n260H Bandwidth Combination Fallback group 3 in Table 5.5A.1-2 of 38.101-2						1100	

		See CA_n260H Bandwidth Combination Fallback group 3 in Table 5.5A.1-2 of 38.101-2		See CA_n260(2A) Bandwidth Combination in Table 5.5A.2-1 of 38.101-2						
CA_n260(2A-2H)	-	See CA_n260(2A) Bandwidth Combination in Table 5.5A.2-1 of 38.101-2		See CA_n260(2H) Bandwidth Combination Fallback group 3 in table above					1400	
		See CA_n260(2H) Bandwidth Combination Fallback group 3 in table above					See CA_n260(2A) Bandwidth Combination in Table 5.5A.2-1 of 38.101-2			
CA_n260(A-H)	-	See CA_n260A Bandwidth Combination in Table 5.3A.4-1 of 38.101-2	See CA_n260H Bandwidth Combination Fallback group 3 in Table 5.5A.1-2 of 38.101-2						700	
		See CA_n260H Bandwidth Combination Fallback group 3 in Table 5.5A.1-2 of 38.101-2			See CA_n260A Bandwidth Combination in Table 5.3A.4-1 of 38.101-2					

Table 8.2-3: Supported bandwidth combinations for n260(A-O)

		NR CA configuration / Bandwidth combination set									
NR configuration	Uplink CA configurations	Component carriers in order of increasing carrier frequency								Maximum aggregated bandwidth (MHz)	Fall-back group
		Channel bandwidths for carrier (MHz)	Channel bandwidths for carrier (MHz)	Channel bandwidths for carrier (MHz)	Channel bandwidths for carrier (MHz)	Channel bandwidths for carrier (MHz)	Channel bandwidths for carrier (MHz)	Channel bandwidths for carrier (MHz)	Channel bandwidths for carrier (MHz)		
CA_n260(2A-O)	-	See CA_n260(2A) Bandwidth Combination in Table 5.5A.2-1 of 38.101-2		See CA_n260O Bandwidth Combination Fallback group						1000	

				4 in Table 5.5A.1-2 of 38.101-2						
		See CA_n260O Bandwidth Combination Fallback group 4 in Table 5.5A.1-2 of 38.101-2		See CA_n260(2A) Bandwidth Combination in Table 5.5A.2-1 of 38.101-2						
CA_n260(A-2O)	-	See CA_n260A Bandwidth Combination in Table 5.3A.4-1 of 38.101-2	See CA_n260(2O) Bandwidth Combination Fallback group 4 in table above							800
		See CA_n260(2O) Bandwidth Combination Fallback group 4 in table above			See CA_n260A Bandwidth Combination in Table 5.3A.4-1 of 38.101-2					
CA_n260(2G-O)	-	See CA_n260(2G) Bandwidth Combination Fallback group 3 in Table 2 above			See CA_n260O Bandwidth Combination Fallback group 4 in Table 5.5A.1-2 of 38.101-2					600
		See CA_n260O Bandwidth Combination Fallback group 4 in Table 5.5A.1-2 of 38.101-2		See CA_n260(2G) Bandwidth Combination Fallback group 3 in Table 2 above						
CA_n260(2A-2O)	-	See CA_n260(2A) Bandwidth Combination in Table 5.5A.2-1 of 38.101-2		See CA_n260(2O) Bandwidth Combination Fallback group 4 in table above						1200
		See CA_n260(2O) Bandwidth Combination Fallback group 4 in table above			See CA_n260(2A) Bandwidth Combination in Table 5.5A.2-1 of 38.101-2					
CA_n260(2A-3O)	-	See CA_n260(2A) Bandwidth Combination in Table 5.5A.2-1 of 38.101-2		See CA_n260(3O) Bandwidth Combination Fallback group 4 in table above						1400
		See CA_n260(3O) Bandwidth Combination Fallback group 4 in table above					See CA_n260(2A) Bandwidth Combination in Table 5.5A.2-1 of 38.101-2			

CA_n260(3A-2O)	-	See CA_n260(3A) Bandwidth Combination in Table 5.5A.2-1 of 38.101-2		See CA_n260(2O) Bandwidth Combination Fallback group 4 in table above					1600	
		See CA_n260(2O) Bandwidth Combination Fallback group 4 in table above			See CA_n260(3A) Bandwidth Combination in Table 5.5A.2-1 of 38.101-2					
CA_n260(4A-O)	-	See CA_n260(4A) Bandwidth Combination in Table 5.5A.2-1 of 38.101-2			See CA_n260O Bandwidth Combination Fallback group 4 in Table 5.5A.1-2 of 38.101-2				1800	
		See CA_n260O Bandwidth Combination Fallback group 4 in Table 5.5A.1-2 of 38.101-2		See CA_n260(4A) Bandwidth Combination in Table 5.5A.2-1 of 38.101-2						
CA_n260(4A-2O)	-	See CA_n260(4A) Bandwidth Combination in Table 5.5A.2-1 of 38.101-2			See CA_n260(2O) Bandwidth Combination Fallback group 4 in table above				2000	
		See CA_n260(2O) Bandwidth Combination Fallback group 4 in table above			See CA_n260(4A) Bandwidth Combination in Table 5.5A.2-1 of 38.101-2					
CA_n260(A-O)	-	See CA_n260A Bandwidth Combination in Table 5.3A.4-1 of 38.101-2	See CA_n260O Bandwidth Combination Fallback group 4 in Table 5.5A.1-2 of 38.101-2						600	
		See CA_n260O Bandwidth Combination Fallback group 4 in Table 5.5A.1-2 of 38.101-2		See CA_n260A Bandwidth Combination in Table 5.3A.4-1 of 38.101-2						
CA_n260(G-O)	-	See CA_n260G Bandwidth Combination Fallback group 3 in Table 5.5A.1-2 of 38.101-2		See CA_n260O Bandwidth Combination Fallback group 4 in Table 5.5A.1-2 of 38.101-2					400	
		See CA_n260O Bandwidth Combination Fallback group 4 in Table 5.5A.1-2 of 38.101-2		See CA_n260G Bandwidth Combination Fallback group 3 in Table 5.5A.1-2 of 38.101-2						

CA_n260(A-G-O)	-	See CA_n260A Bandwidth Combination in Table 5.3A.4-1 of 38.101-2	See CA_n260G Bandwidth Combination Fallback group 3 in Table 5.5A.1-2 of 38.101-2	See CA_n260O Bandwidth Combination Fallback group 4 in Table 5.5A.1-2 of 38.101-2				800	
		See CA_n260G Bandwidth Combination Fallback group 3 in Table 5.5A.1-2 of 38.101-2	See CA_n260O Bandwidth Combination Fallback group 4 in Table 5.5A.1-2 of 38.101-2	See CA_n260A Bandwidth Combination in Table 5.3A.4-1 of 38.101-2					
CA_n260(2A-G-O)	-	See CA_n260(2A) Bandwidth Combination in Table 5.5A.2-1 of 38.101-2	See CA_n260G Bandwidth Combination Fallback group 3 in Table 5.5A.1-2 of 38.101-2	See CA_n260O Bandwidth Combination Fallback group 4 in Table 5.5A.1-2 of 38.101-2				1200	
		See CA_n260G Bandwidth Combination Fallback group 3 in Table 5.5A.1-2 of 38.101-2	See CA_n260O Bandwidth Combination Fallback group 4 in Table 5.5A.1-2 of 38.101-2	See CA_n260(2A) Bandwidth Combination in Table 5.5A.2-1 of 38.101-2					
CA_n260(A-2G-O)	-	See CA_n260A Bandwidth Combination in Table 5.3A.4-1 of 38.101-2	See CA_n260(2G) Bandwidth Combination Fallback group 3 in Table 2 above		See CA_n260O Bandwidth Combination Fallback group 4 in Table 5.5A.1-2 of 38.101-2			1000	
		See CA_n260(2G) Bandwidth Combination Fallback group 3 in Table 2 above		See CA_n260O Bandwidth Combination Fallback group 4 in Table 5.5A.1-2 of 38.101-2		See CA_n260A Bandwidth Combination in Table 5.3A.4-1 of 38.101-2			
CA_n260(A-3O)	-	See CA_n260A Bandwidth Combination in Table 5.3A.4-1 of 38.101-2	See CA_n260(3O) Bandwidth Combination Fallback group 4 in Table 2 above					1000	
		See CA_n260(3O) Bandwidth Combination Fallback group 4 in Table 2 above				See CA_n260A Bandwidth			

						Combination in Table 5.3A.4-1 of 38.101-2			
CA_n260(3A-O)	-	See CA_n260(3A) Bandwidth Combination in Table 5.5A.2-1 of 38.101-2			See CA_n260O Bandwidth Combination Fallback group 4 in Table 5.5A.1-2 of 38.101-2				1400
		See CA_n260O Bandwidth Combination Fallback group 4 in Table 5.5A.1-2 of 38.101-2		See CA_n260(3A) Bandwidth Combination in Table 5.5A.2-1 of 38.101-2					

Table 8.2-4: Supported bandwidth combinations for n260(A-O)

		NR CA configuration / Bandwidth combination set														
NR configuration	Uplink CA configurations	Component carriers in order of increasing carrier frequency												Maximum aggregated bandwidth (MHz)	Fall-back group	
		Channel bandwidths for carrier (MHz)	Channel bandwidths for carrier (MHz)	Channel bandwidths for carrier (MHz)	Channel bandwidths for carrier (MHz)	Channel bandwidths for carrier (MHz)	Channel bandwidths for carrier (MHz)	Channel bandwidths for carrier (MHz)	Channel bandwidths for carrier (MHz)	Channel bandwidths for carrier (MHz)	Channel bandwidths for carrier (MHz)	Channel bandwidths for carrier (MHz)	Channel bandwidths for carrier (MHz)			
CA_n260(A-4O)	-	See CA_n260A Bandwidth Combination in Table 5.3A.4-1 of 38.101-2	See CA_n260(4O) Bandwidth Combination Fallback group 4 in table above											1200		
		See CA_n260(4O) Bandwidth Combination Fallback group 4 in table above									See CA_n260A Bandwidth Combination in Table 5.3A.4-1 of 38.101-2					
CA_n260(2A-4O)	-	See CA_n260(2A) Bandwidth Combination in Table 5.5A.2-1 of 38.101-2		See CA_n260(4O) Bandwidth Combination Fallback group 4 in table above											1600	

		See CA_n260(4O) Bandwidth Combination Fallback group 4 in table above	See CA_n260(2A) Bandwidth Combination in Table 5.5A.2-1 of 38.101-2				
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Table 8.2-5: Supported bandwidth combinations for n260(A-P)

		NR CA configuration / Bandwidth combination set		
NR configuration	Uplink CA configurations	Component carriers in order of increasing carrier frequency	Maximum aggregated bandwidth (MHz)	Fall-back group

		Channel bandwidths for carrier (MHz)	Channel bandwidths for carrier (MHz)	Channel bandwidths for carrier (MHz)	Channel bandwidths for carrier (MHz)	Channel bandwidths for carrier (MHz)	Channel bandwidths for carrier (MHz)	Channel bandwidths for carrier (MHz)	Channel bandwidths for carrier (MHz)		
CA_n260(A-P)	-	See CA_n260A Bandwidth Combination in Table 5.3A.4-1 of 38.101-2	See CA_n260P Bandwidth Combination Fallback group 4 in Table 5.5A.1-2 of 38.101-2							700	
		See CA_n260P Bandwidth Combination Fallback group 4 in Table 5.5A.1-2 of 38.101-2			See CA_n260A Bandwidth Combination in Table 5.3A.4-1 of 38.101-2						
CA_n260(2A-P)	-	See CA_n260(2A) Bandwidth Combination in Table 5.5A.2-1 of 38.101-2		See CA_n260P Bandwidth Combination Fallback group 4 in Table 5.5A.1-2 of 38.101-2						1100	
		See CA_n260P Bandwidth Combination Fallback group 4 in Table 5.5A.1-2 of 38.101-2			See CA_n260(2A) Bandwidth Combination in Table 5.5A.2-1 of 38.101-2						
CA_n260(A-2P)	-	See CA_n260A Bandwidth Combination in Table 5.3A.4-1 of 38.101-2	See CA_n260(2p) Bandwidth Combination Fallback group 4 in table above							1000	
		See CA_n260(2p) Bandwidth Combination Fallback group 4 in table above						See CA_n260A Bandwidth Combination in Table 5.3A.4-1 of 38.101-2			
CA_n260(2A-2P)	-	See CA_n260(2A) Bandwidth Combination in Table 5.5A.2-1 of 38.101-2		See CA_n260(2p) Bandwidth Combination Fallback group 4 in table above						1400	

See CA_n260(2p) Bandwidth Combination Fallback group 4 in table above

See CA_n260(2A) Bandwidth Combination in Table 5.5A.2-1 of 38.101-2

Table 8.2-6: Supported bandwidth combinations for n260() CA (Max #CC ≤ 8)

		NR CA configuration / set								
NR configuration	Uplink CA configurations	Component carriers order of increasing carrier frequency								Maximum aggregated bandwidth (MHz)
		Channel bandwidths for carrier (MHz)	Channel bandwidths for carrier (MHz)	Channel bandwidths for carrier (MHz)	Channel bandwidths for carrier (MHz)	Channel bandwidths for carrier (MHz)	Channel bandwidths for carrier (MHz)	Channel bandwidths for carrier (MHz)	Channel bandwidths for carrier (MHz)	
CA_n260(A-D)	-	CA_n260A	See CA_n260D BCS 0 in Table 5.5A.1-2 [2]							800
		See CA_n260D BCS 0 in Table 5.5A.1-2 [2]		CA_n260A						
CA_n260(2A-D)	-	CA_n260(2A) [2]		See CA_n260D BCS 0 in Table 5.5A.1-2 [2]						1200
		See CA_n260D BCS 0 in Table 5.5A.1-2 [2]		CA_n260(2A) [2]						
CA_n260(A-D-O)	-	CA_n260A	See CA_n260D BCS 0 in Table 5.5A.1-2 [2]		See CA_n260O BCS 0 in Table 5.5A.1-2 [2]					1000
		See CA_n260O BCS 0 in Table 5.5A.1-2 [2]		See CA_n260D BCS 0 in Table 5.5A.1-2 [2]		CA_n260A				
CA_n260(2A-D-O)	-	CA_n260(2A) [2]		See CA_n260D BCS 0 in Table 5.5A.1-2 [2]		See CA_n260O BCS 0 in Table 5.5A.1-2 [2]				1400

		See CA_n260O BCS 0 in Table 5.5A.1-2 [2]	See CA_n260D BCS 0 in Table 5.5A.1-2 [2]	CA_n260(2A) [2]			
CA_n260(D-2O)	-	See CA_n260D BCS 0 in Table 5.5A.1-2 [2]	See CA_n260(2O) in Table 5.5A.2-1 [2]				800
		See CA_n260(2O) in Table 5.5A.2-1 [2]		See CA_n260D BCS 0 in Table 5.5A.1-2 [2]			
CA_n260(A-D-2O)	-	CA_n260A	See CA_n260D BCS 0 in Table 5.5A.1-2 [2]	See CA_n260(2O) in Table 5.5A.2-1 [2]			1200
		See CA_n260(2O) in Table 5.5A.2-1 [2]		See CA_n260D BCS 0 in Table 5.5A.1-2 [2]	CA_n260A		
CA_n260(2A-D-2O)	-	CA_n260(2A) [2]	See CA_n260D BCS 0 in Table 5.5A.1-2 [2]	See CA_n260(2O) in Table 5.5A.2-1 [2]			1600
		See CA_n260(2O) in Table 5.5A.2-1 [2]		See CA_n260D BCS 0 in Table 5.5A.1-2 [2]	CA_n260(2A) [2]		
CA_n260(A-2D)	-	CA_n260A	See CA_n260(2D) in Table 8.1-x1 above				1200
		See CA_n260(2D) in Table 8.1-x1 above		CA_n260A			
CA_n260(2A-2D)	-	CA_n260(2A) [2]	See CA_n260(2D) in Table 8.1-x1 above				1600
		See CA_n260(2D) in Table 8.1-x1 above		CA_n260(2A) [2]			
CA_n260(A-P)	-	CA_n260A	See CA_n260P BCS 0 in Table 5.5A.1-2 [2]				700
		See CA_n260P BCS 0 in Table 5.5A.1-2 [2]		CA_n260A			
CA_n260(2A-P)	-	CA_n260(2A) [2]	See CA_n260P BCS 0 in Table 5.5A.1-2 [2]				1100
		See CA_n260P BCS 0 in Table 5.5A.1-2 [2]		CA_n260(2A) [2]			
CA_n260(A-2P)	-	CA_n260A	See CA_n260(2P) in Table 5.5A.2-1 [2]				1000

		See CA_n260(2P) in Table 5.5A.2-1 [2]				CA_n260A		
DC_n260(2A-2P)	-	CA_n260(2A) [2]	See CA_n260(2P) in Table 5.5A.2-1 [2]					1400
		See CA_n260(2P) in Table 5.5A.2-1 [2]				CA_n260(2A) [2]		
CA_n260(D-2G)	-	See CA_n260D BCS 0 in Table 5.5A.1-2 [2]	See CA_n260(2G) in Table 5.5A.2-1 [2]					800
		See CA_n260(2G) in Table 5.5A.2-1 [2]		See CA_n260D BCS 0 in Table 5.5A.1-2 [2]				
CA_n260(2D-O)	-	See CA_n260(2D) in Table 8.1-x1 above			See CA_n260O BCS 0 in Table 5.5A.1-2 [2]			1000
		See CA_n260O BCS 0 in Table 5.5A.1-2 [2]	See CA_n260(2D) in Table 8.1-x1 above					
CA_n260(G-2O)	-	CA_n260G BCS 0 in Table 5.5A.1-2 [2]	See CA_n260(2O) in Table 5.5A.2-1 [2]					600
		See CA_n260(2O) in Table 5.5A.2-1 [2]		See CA_n260G BCS 0 in Table 5.5A.1-2 [2]				
CA_n260(2G-2O)	-	See CA_n260(2G) in Table 5.5A.2-1 [2]			See CA_n260(2O) in Table 5.5A.2-1 [2]			800
		See CA_n260(2O) in Table 5.5A.2-1 [2]			See CA_n260(2G) in Table 5.5A.2-1 [2]			
CA_n260(G-3O)	-	See CA_n260G BCS 0 in Table 5.5A.1-2 [2]	See CA_n260(3O) in Table 5.5A.2-1 [2]					800
		See CA_n260(3O) in Table 5.5A.2-1 [2]				See CA_n260G BCS 0 in Table 5.5A.1-2 [2]		
CA_n260(3G-O)	-	See CA_n260(3G) in Table 8.1-x1 above				See CA_n260O BCS 0 in Table 5.5A.1-2 [2]		800
		See CA_n260O BCS 0 in Table 5.5A.1-2 [2]	See CA_n260(3G) in Table 8.1-x1 above					
CA_n260(H-O)	-	See CA_n260H BCS 0 in Table 5.5A.1-2 [2]	See CA_n260O BCS 0 in Table 5.5A.1-2 [2]					500

		See CA_n260O BCS 0 in Table 5.5A.1-2 [2]	See CA_n260H BCS 0 in Table 5.5A.1-2 [2]				
CA_n260(2H-O)	-	See CA_n260(2H) in Table 5.5A.2-1 [2]				See CA_n260O BCS 0 in Table 5.5A.1-2 [2]	800
		See CA_n260O BCS 0 in Table 5.5A.1-2 [2]	See CA_n260(2H) in Table 5.5A.2-1 [2]				

Table 8.2-7: Supported bandwidth combinations for n260() CA (Max #CC ≤ 12)

		NR CA configuration / set												
NR configuration	Uplink CA configurations	Component carriers order of increasing carrier frequency												Maximum aggregated bandwidth (MHz)
		Channel bandwidths for carrier (MHz)	Channel bandwidths for carrier (MHz)	Channel bandwidths for carrier (MHz)	Channel bandwidths for carrier (MHz)	Channel bandwidths for carrier (MHz)	Channel bandwidths for carrier (MHz)	Channel bandwidths for carrier (MHz)	Channel bandwidths for carrier (MHz)	Channel bandwidths for carrier (MHz)	Channel bandwidths for carrier (MHz)	Channel bandwidths for carrier (MHz)	Channel bandwidths for carrier (MHz)	
CA_n260(3A-3O)	-	CA_n260(3A) [2]			See CA_n260(3O) in Table 5.5A.2-1 [2]									1800
		See CA_n260(3O) in Table 5.5A.2-1 [2]						CA_n260(3A) [2]						
CA_n260(2G-3O)	-	See CA_n260(2G) in Table 5.5A.2-1 [2]				See CA_n260(3O) in Table 5.5A.2-1 [2]								1000
		See CA_n260(3O) in Table 5.5A.2-1 [2]						See CA_n260(2G) in Table 5.5A.2-1 [2]						
CA_n260(G-4O)		See CA_n260G BCS 0 in Table 5.5A.1-2 [2]		See CA_n260(4O) in Table 5.5A.2-1 [2]										1000

	-	See CA_n260(4O) in Table 5.5A.2-1 [2]			See CA_n260G BCS 0 in Table 5.5A.1-2 [2]					
CA_n260(2G-4O)	-	See CA_n260(2G) in Table 5.5A.2-1 [2]		See CA_n260(4O) in Table 5.5A.2-1 [2]					1200	
		See CA_n260(4O) in Table 5.5A.2-1 [2]				See CA_n260(2G) in Table 5.5A.2-1 [2]				
CA_n260(4G-O)	-	See CA_n260(4G) in Table 8.1-x1 above				See CA_n260O BCS 0 in Table 5.5A.2-1 [2]				1000
		See CA_n260O BCS 0 in Table 5.5A.2-1 [2]	See CA_n260(4G) in Table 8.1-x1 above							

Table 8.2-8: Supported bandwidth combinations for n260(A-O) (Max #CC≤8)

		NR CA configuration / Bandwidth combination set								
NR CA configuration	Uplink CA configurations	Component carriers in order of increasing carrier frequency								Maximum aggregated bandwidth [MHz]
		CBW for carrier (MHz)	CBW for carrier (MHz)	CBW for carrier (MHz)	CBW for carrier (MHz)	CBW for carrier (MHz)	CBW for carrier (MHz)	CBW for carrier (MHz)	CBW for carrier (MHz)	
CA_n260(3A-O-P)	n260A	See CA_n261(3A) BCS0 in Table 5.5A.2-1 in [2]			See CA_n260O BCS0 in Table 5.5A.1-1 in [2]		See CA_n260P BCS0 in Table 5.5A.1-1 in [2]			1700
	CA_n260O CA_n260P	See CA_n260P BCS0 in Table 5.5A.1-1 in [2]			See CA_n261(3A) BCS0 in Table 5.5A.2-1 in [2]		See CA_n260O BCS0 in Table 5.5A.1-1 in [2]			

		See CA_n260O BCS0 in Table 5.5A.1-1 in [2]	See CA_n260P BCS0 in Table 5.5A.1-1 in [2]	See CA_n261(3A) BCS0 in Table 5.5A.2-1 in [2]	
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Table 8.2-9: Supported bandwidth combinations for n260(A-P) (Max #CC≤8)

		NR CA configuration / Bandwidth combination set								
NR CA configuration	Uplink CA configurations	Component carriers in order of increasing carrier frequency								Maximum aggregated bandwidth [MHz]
		CBW for carrier (MHz)	CBW for carrier (MHz)	CBW for carrier (MHz)	CBW for carrier (MHz)	CBW for carrier (MHz)	CBW for carrier (MHz)	CBW for carrier (MHz)	CBW for carrier (MHz)	
CA_n260(A-P-Q)	n260A CA_n260P CA_n260Q	See n260A Channel Bandwidth in Table 5.3.5-1 in [2]	See CA_n260P BCS0 in Table 5.5A.1-1 in [2]			See CA_n260Q BCS0 in Table 5.5A.1-1 in [2]				1100
		See CA_n260Q BCS0 in Table 5.5A.1-1 in [2]				See n260A Channel Bandwidth in Table 5.3.5-1 in [2]	See CA_n260P BCS0 in Table 5.5A.1-1 in [2]			
		See CA_n260P BCS0 in Table 5.5A.1-1 in [2]			See CA_n260Q BCS0 in Table 5.5A.1-1 in [2]				See n260A Channel Bandwidth in Table 5.3.5-1 in [2]	

Table 8.2-10: Supported bandwidth combinations for n260() CA (Max #CC≤15)

		NR CA configuration / set																
NR configuration	Uplink CA configurations	Component carriers order of increasing carrier frequency															Maximum aggregated bandwidth (MHz)	
		CBW for carrier (MHz)	CBW for carrier (MHz)	CBW for carrier (MHz)	CBW for carrier (MHz)	CBW for carrier (MHz)	CBW for carrier (MHz)	CBW for carrier (MHz)	CBW for carrier (MHz)	CBW for carrier (MHz)	CBW for carrier (MHz)	CBW for carrier (MHz)	CBW for carrier (MHz)	CBW for carrier (MHz)	CBW for carrier (MHz)	CBW for carrier (MHz)		
CA_n260(2A-2G-2O)	n260A	See CA_n260(2A) BCS0 in Table 5.5A.2-1 in [2]		See CA_n260(2G) in Table 8.1-3 in [3]				CA_n260(2O) in Table 8.1-5 in [3]									1600	
		See CA_n260(2O) in Table 8.1-5 in [3]				See CA_n260(2A) BCS0 in Table 5.5A.2-1 in [2]		See CA_n260(2G) in Table 8.1-3 in [3]										
		See CA_n260(2G) in Table 8.1-3 in [3]				See CA_n260(2O) in Table 8.1-5 in [3]				See CA_n260(2A) BCS0 in Table 5.5A.2-1 in [2]								
CA_n260(2A-4P)	n260A	See CA_n260(2A) BCS0 in Table 5.5A.2-1 in [2]		See CA_n260(4P) in Table 8.1-6-1 above														2000
		See CA_n260(4P) in Table 8.1-6-1 above												See CA_n260(2A) BCS0 in Table 5.5A.2-1 in [2]				

CA_n260(2A-2O-2Q)	n260A	See CA_n260(2A) BCS0 in Table 5.5A.2-1 in [2]	See CA_n260(2O) in Table 8.1-5 in [3]	See CA_n260(2Q) in Table 8.1-x-2 above				2000
		See CA_n260(2Q) in Table 8.1-x-2 above			See CA_n260(2A) BCS0 in Table 5.5A.2-1 in [2]	See CA_n260(2O) in Table 8.1-5 in [3]		
		See CA_n260(2O) in Table 8.1-5 in [3]	See CA_n260(2Q) in Table 8.1-x-2 above			See CA_n260(2A) BCS0 in Table 5.5A.2-1 in [2]		
CA_n260(4A-2Q)	n260A	See CA_n260(4A) in Table 5.5A.2-1 in [2]	See CA_n260(2Q) in Table 8.1-x-2 above					2400
		See CA_n260(2Q) in Table 8.1-x-2 above			See CA_n260(4A) in Table 5.5A.2-1 in [2]			
CA_n260(2A-2O-2P)	n260A	See CA_n260(2A) BCS0 in Table 5.5A.2-1 in [2]	See CA_n260(2O) in Table 8.1-5 in [3]	See CA_n260(2P) in Table 8.1-6 in [3]				1800
		See CA_n260(2P) in Table 8.1-6 in [3]		See CA_n260(2A) BCS0 in Table 5.5A.2-1 in [2]	See CA_n260(2O) in Table 8.1-5 in [3]			
		See CA_n260(2O) in Table 8.1-5 in [3]	See CA_n260(2P) in Table 8.1-6 in [3]			See CA_n260(2A) BCS0 in Table 5.5A.2-1 in [2]		

CA_n260(4A-4O)	n260A	See CA_n260(4A) in Table 5.5A.2-1 in [2]	See CA_n260(4O) in Table 8.1-5 in [3]							2400
		See CA_n260(4O) in Table 8.1-5 in [3]			See CA_n260(4A) in Table 5.5A.2-1 in [2])					
CA_n260(6A-2O)	n260A	See CA_n260(6A) in Table 8.1-1 in [3]		See CA_n260(2O) in Table 8.1-5 in [3]					2450 ¹	
		See CA_n260(2O) in Table 8.1-5 in [3]	See CA_n260(6A) in Table 8.1-1 in [3]							
CA_n260(6A-3O)	n260A	See CA_n260(6A) in Table 8.1-1 in [3]		See CA_n260(3O) in Table 8.1-5 in [3]					2600 ¹	
		See CA_n260(3O) in Table 8.1-5 in [3]		See CA_n260(6A) in Table 8.1-1 in [3]						
CA_n260(6A-2P)	n260A	See CA_n260(6A) in Table 8.1-1 in [3]		See CA_n260(2P) in Table 8.1-6 in [3]					2650 ¹	
		See CA_n260(2P) in Table 8.1-6 in [3]		See CA_n260(6A) in Table 8.1-1 in [3]						
CA_n260(8A-2O)	n260A	See CA_n260(8A) in Table 8.1-1 in [3]			See CA_n260(2O) in Table 8.1-5 in [3]				2550 ¹	
		See CA_n260(2O) in Table 8.1-5 in [3]	See CA_n260(8A) in Table 8.1-1 in [3]							
CA_n260(2O-2P)	n260A	See CA_n260(2O) in Table 8.1-5 in [3]	See CA_n260(2P) in Table 8.1-6 in [3]					1000		
		See CA_n260(2P) in Table 8.1-6 in [3]		See CA_n260(2O) in Table 8.1-5 in [3]						

Note 1: The maximum bandwidth of band n260 is 3000MHz and a non-contiguous gap is in between NR component carriers

Table 8.2-11: Supported bandwidth combinations for n260() CA (Max #CC≤15)

		NR CA configuration / set																
NR configuration	Uplink CA configurations	Component carriers order of increasing carrier frequency															Maximum aggregated bandwidth (MHz)	
		CBW for carrier (MHz)	CBW for carrier (MHz)	CBW for carrier (MHz)	CBW for carrier (MHz)	CBW for carrier (MHz)	CBW for carrier (MHz)	CBW for carrier (MHz)	CBW for carrier (MHz)	CBW for carrier (MHz)	CBW for carrier (MHz)	CBW for carrier (MHz)	CBW for carrier (MHz)	CBW for carrier (MHz)	CBW for carrier (MHz)	CBW for carrier (MHz)		
CA_n260(2A-2G-2O)	n260A	See CA_n260(2A) BCS0 in Table 5.5A.2-1 in [2]		See CA_n260(2G) in Table 8.1-3 in [3]				CA_n260(2O) in Table 8.1-5 in [3]									1600	
		See CA_n260(2O) in Table 8.1-5 in [3]				See CA_n260(2A) BCS0 in Table 5.5A.2-1 in [2]		See CA_n260(2G) in Table 8.1-3 in [3]										
		See CA_n260(2G) in Table 8.1-3 in [3]				See CA_n260(2O) in Table 8.1-5 in [3]				See CA_n260(2A) BCS0 in Table 5.5A.2-1 in [2]								
CA_n260(2A-4P)	n260A	See CA_n260(2A) BCS0 in Table 5.5A.2-1 in [2]		See CA_n260(4P) in Table 8.1-6-1 above														2000

		See CA_n260(4P) in Table 8.1-6-1 above				See CA_n260(2A) BCS0 in Table 5.5A.2-1 in [2]		
CA_n260(2A-2O-2Q)	n260A	See CA_n260(2A) BCS0 in Table 5.5A.2-1 in [2]	See CA_n260(2O) in Table 8.1-5 in [3]	See CA_n260(2Q) in Table 8.1-x-2 above				2000
		See CA_n260(2Q) in Table 8.1-x-2 above		See CA_n260(2A) BCS0 in Table 5.5A.2-1 in [2]	See CA_n260(2O) in Table 8.1-5 in [3]			
		See CA_n260(2O) in Table 8.1-5 in [3]	See CA_n260(2Q) in Table 8.1-x-2 above			See CA_n260(2A) BCS0 in Table 5.5A.2-1 in [2]		
CA_n260(4A-2Q)	n260A	See CA_n260(4A) in Table 5.5A.2-1 in [2]	See CA_n260(2Q) in Table 8.1-x-2 above					2400
		See CA_n260(2Q) in Table 8.1-x-2 above		See CA_n260(4A) in Table 5.5A.2-1 in [2]				
CA_n260(2A-2O-2P)	n260A	See CA_n260(2A) BCS0 in Table 5.5A.2-1 in [2]	See CA_n260(2O) in Table 8.1-5 in [3]	See CA_n260(2P) in Table 8.1-6 in [3]				1800
		See CA_n260(2P) in Table 8.1-6 in [3]		See CA_n260(2A) BCS0 in Table 5.5A.2-1 in [2]	See CA_n260(2O) in Table 8.1-5 in [3]			

		See CA_n260(2O) in Table 8.1-5 in [3]	See CA_n260(2P) in Table 8.1-6 in [3]	See CA_n260(2A) BCS0 in Table 5.5A.2-1 in [2]				
CA_n260(4A-4O)	n260A	See CA_n260(4A) in Table 5.5A.2-1 in [2]	See CA_n260(4O) in Table 8.1-5 in [3]					2400
		See CA_n260(4O) in Table 8.1-5 in [3]		See CA_n260(4A) in Table 5.5A.2-1 in [2]				
CA_n260(6A-2O)	n260A	See CA_n260(6A) in Table 8.1-1 in [3]		See CA_n260(2O) in Table 8.1-5 in [3]				2450 ¹
		See CA_n260(2O) in Table 8.1-5 in [3]	See CA_n260(6A) in Table 8.1-1 in [3]					
CA_n260(6A-3O)	n260A	See CA_n260(6A) in Table 8.1-1 in [3]		See CA_n260(3O) in Table 8.1-5 in [3]				2600 ¹
		See CA_n260(3O) in Table 8.1-5 in [3]		See CA_n260(6A) in Table 8.1-1 in [3]				
CA_n260(6A-2P)	n260A	See CA_n260(6A) in Table 8.1-1 in [3]		See CA_n260(2P) in Table 8.1-6 in [3]				2650 ¹
		See CA_n260(2P) in Table 8.1-6 in [3]		See CA_n260(6A) in Table 8.1-1 in [3]				
CA_n260(8A-2O)	n260A	See CA_n260(8A) in Table 8.1-1 in [3]		See CA_n260(2O) in Table 8.1-5 in [3]				2550 ¹
		See CA_n260(2O) in Table 8.1-5 in [3]	See CA_n260(8A) in Table 8.1-1 in [3]					
CA_n260(2O-2P)	n260A	See CA_n260(2O) in Table 8.1-5 in [3]	See CA_n260(2P) in Table 8.1-6 in [3]					1000
		See CA_n260(2P) in Table 8.1-6 in [3]		See CA_n260(2O) in Table 8.1-5 in [3]				

Note 1: The maximum bandwidth of band n260 is 3000MHz and a non-contiguous gap is in between NR component carriers

8.3 Intra band non-contiguous CA configurations n261

Table 8.3-1: Supported bandwidth combinations for n261(H) and n261(I)

			NR CA configuration / Bandwidth combination set									
			Component carriers in order of increasing carrier frequency									
NR configuration	Uplink CA configurations	SCS	Channel bandwidths for carrier (MHz)	Channel bandwidths for carrier (MHz)	Channel bandwidths for carrier (MHz)	Channel bandwidths for carrier (MHz)	Channel bandwidths for carrier (MHz)	Channel bandwidths for carrier (MHz)	Channel bandwidths for carrier (MHz)	Channel bandwidths for carrier (MHz)	Maximum aggregated bandwidth (MHz)	Fall-back group
CA_n261(2H)	-	60	100	100	50, 100	100	100	50, 100			600	3
		120	100	100	50, 100	100	100	50, 100			600	
CA_n261(2I)	-	60	100	100	100	50, 100	100	100	100	50, 100	800	3
		120	100	100	100	50, 100	100	100	100	50, 100	800	

Table 8.3-2: Supported bandwidth combinations for n261(D)

			NR CA configuration / Bandwidth combination set															
NR CA configuration	Uplink CA configurations	SCS	Component carriers in order of increasing carrier frequency														Aggregated BW (MHz)	Fallback group
			CBW (MHz)	CBW (MHz)	CBW (MHz)	CBW (MHz)	CBW (MHz)	CBW (MHz)	CBW (MHz)	CBW (MHz)	CBW (MHz)	CBW (MHz)	CBW (MHz)	CBW (MHz)	CBW (MHz)	CBW (MHz)		
CA_n261(2D)	n261A	60	50, 100, 200	200	50, 100, 200	200											800	2
		120	200	50, 100, 200	200	50, 100, 200										800		

Table 8.3-3: Supported bandwidth combinations for n261(G)

			NR CA configuration / Bandwidth combination set															
NR CA configuration	Uplink CA configurations	SCS	Component carriers in order of increasing carrier frequency														Aggregated BW (MHz)	Fallback group
			CBW (MHz)	CBW (MHz)	CBW (MHz)	CBW (MHz)	CBW (MHz)	CBW (MHz)	CBW (MHz)	CBW (MHz)	CBW (MHz)	CBW (MHz)	CBW (MHz)	CBW (MHz)	CBW (MHz)	CBW (MHz)		
CA_n261(2G)	n261A	60	100	50, 100	100	50, 100											400	3
		120	50, 100	100	50, 100	100											400	
CA_n261(3G)	n261A	60	100	50, 100	100	50, 100	100	50, 100									600	3
		120	50, 100	100	50, 100	100	50, 100	100									600	
CA_n261(4G)	n261A	60	100	50, 100	100	50, 100	100	50, 100	100	50, 100							700 ¹	3
		120	50, 100	100	50, 100	100	50, 100	100	50, 100	100							700 ¹	
Note 1: The maximum bandwidth of band n261 is 850MHz and a non-contiguous gap is in between NR component carriers																		

Table 8.3-x-3: Supported bandwidth combinations for n261(O)

			NR CA configuration / Bandwidth combination set															
NR CA configuration	Uplink CA configurations	SCS	Component carriers in order of increasing carrier frequency														Aggregated BW (MHz)	Fallback group
			CBW (MHz)	CBW (MHz)	CBW (MHz)	CBW (MHz)	CBW (MHz)	CBW (MHz)	CBW (MHz)	CBW (MHz)	CBW (MHz)	CBW (MHz)	CBW (MHz)	CBW (MHz)	CBW (MHz)	CBW (MHz)		
CA_n261(20)	n261A	60	50, 100	50, 100	50, 100	50, 100											400	4
		120	50, 100	50, 100	50, 100	50, 100											400	
CA_n261(40)	n261A	60	50, 100	50, 100	50, 100	50, 100	50, 100	50, 100	50, 100	50, 100							700 ¹	4
		120	50, 100	50, 100	50, 100	50, 100	50, 100	50, 100	50, 100	50, 100							700 ¹	
CA_n261(70)	n261A	60	50, 100	50, 100	50, 100	50, 100	50, 100	50, 100	50, 100	50, 100	50, 100	50, 100	50, 100	50, 100	50, 100	50, 100	550 ¹	4

			NR CA configuration / Bandwidth combination set															
NR CA configuration	Uplink CA configurations	SCS	Component carriers in order of increasing carrier frequency														Aggregated BW (MHz)	Fallback group
			CBW (MHz)	CBW (MHz)	CBW (MHz)	CBW (MHz)	CBW (MHz)	CBW (MHz)	CBW (MHz)	CBW (MHz)	CBW (MHz)	CBW (MHz)	CBW (MHz)	CBW (MHz)	CBW (MHz)	CBW (MHz)		
		120	50, 100	50, 100	50, 100	50, 100	50, 100	50, 100	50, 100	50, 100	50, 100	50, 100	50, 100	50, 100	50, 100	50, 100	50, 100	
Note 1: The maximum bandwidth of band n261 is 850MHz and a non-contiguous gap is in between NR component carriers																		

Table 8.3-x-4: Supported bandwidth combinations for n261(P)

			NR CA configuration / Bandwidth combination set															
NR CA configuration	Uplink CA configurations	SCS	Component carriers in order of increasing carrier frequency														Aggregated BW (MHz)	Fallback group
			CBW (MHz)	CBW (MHz)	CBW (MHz)	CBW (MHz)	CBW (MHz)	CBW (MHz)	CBW (MHz)	CBW (MHz)	CBW (MHz)	CBW (MHz)	CBW (MHz)	CBW (MHz)	CBW (MHz)	CBW (MHz)		
CA_n261(2P)	n261A	60	50, 100	50, 100	50, 100	50, 100	50, 100	50, 100									600	4
		120	50, 100	50, 100	50, 100	50, 100	50, 100	50, 100									600	

Table 8.3-x-5: Supported bandwidth combinations for n261(Q)

			NR CA configuration / Bandwidth combination set															
NR CA configuration	Uplink CA configurations	SCS	Component carriers in order of increasing carrier frequency														Aggregated BW (MHz)	Fallback group
			CBW (MHz)	CBW (MHz)	CBW (MHz)	CBW (MHz)	CBW (MHz)	CBW (MHz)	CBW (MHz)	CBW (MHz)	CBW (MHz)	CBW (MHz)	CBW (MHz)	CBW (MHz)	CBW (MHz)	CBW (MHz)		
CA_n261(2Q)	n261A	60	50, 100	50, 100,	50, 100	50, 100	50, 100	50, 100,	50, 100	50, 100							800	4
		120	50, 100	50, 100,	50, 100	50, 100	50, 100	50, 100,	50, 100	50, 100							800	

8.4 Intra band non-contiguous CA fallback groups n261

Table 8.4-1: Supported bandwidth combinations for n261(A-H) and n261(A-I)

		NR CA configuration / Bandwidth combination set									
NR configuration	Uplink CA configurations (NOTE 1)	Component carriers in order of increasing carrier frequency								Maximum aggregated bandwidth (MHz)	Fall-back group
		Channel bandwidths for carrier (MHz)	Channel bandwidths for carrier (MHz)	Channel bandwidths for carrier (MHz)	Channel bandwidths for carrier (MHz)	Channel bandwidths for carrier (MHz)	Channel bandwidths for carrier (MHz)	Channel bandwidths for carrier (MHz)	Channel bandwidths for carrier (MHz)		
CA_n261(A-H)	-	See CA_n261A Bandwidth Combination in Table 5.3A.4-1 of 38.101-2	See CA_n261H Bandwidth Combination Fallback group 2 in Table 5.5A.1-2 of 38.101-2							700	
		See CA_n261H Bandwidth Combination Fallback group 2 in Table 5.5A.1-2 of 38.101-2			See CA_n261A Bandwidth Combination in Table 5.3A.4-1 of 38.101-2						
CA_n261(A-I)	-	See CA_n261A Bandwidth Combination in Table 5.3A.4-1 of 38.101-2	See CA_n261I Bandwidth Combination Fallback group 3 in Table 5.5A.1-2 of 38.101-2							800	
		See CA_n261I Bandwidth Combination Fallback group 3 in Table 5.5A.1-2 of 38.101-2				See CA_n261A Bandwidth Combination in Table 5.3A.4-1 of 38.101-2					

Table 8.4-2: Supported bandwidth combinations for n261()

		NR CA configuration / set								Maximum aggregated bandwidth (MHz)
NR configuration	Uplink CA configurations (NOTE 1)	Component carriers order of increasing carrier frequency								
		Channel bandwidths for carrier (MHz)	Channel bandwidths for carrier (MHz)	Channel bandwidths for carrier (MHz)	Channel bandwidths for carrier (MHz)	Channel bandwidths for carrier (MHz)	Channel bandwidths for carrier (MHz)	Channel bandwidths for carrier (MHz)	Channel bandwidths for carrier (MHz)	
CA_n261(A-D)	-	CA_n261A	See CA_n261D BCS 0 in Table 5.5A.1-2 [2]							800
		See CA_n261D BCS 0 in Table 5.5A.1-2 [2]		CA_n261A						
CA_n261(A-G)	-	CA_n261A	See CA_n261G BCS 0 in Table 5.5A.1-2 [2]							600
		See CA_n261G BCS 0 in Table 5.5A.1-2 [2]		CA_n261A						
CA_n261(G-I)	-	See CA_n261G BCS 0 in Table 5.5A.1-2 [2]		See CA_n261I BCS 0 in Table 5.5A.1-2 [2]					600	
		See CA_n261I BCS 0 in Table 5.5A.1-2 [2]			See CA_n261G BCS 0 in Table 5.5A.1-2 [2]					
CA_n261(H-I)	-	See CA_n261H BCS 0 in Table 5.5A.1-2 [2]			See CA_n261I BCS 0 in Table 5.5A.1-2 [2]				700	
		See CA_n261I BCS 0 in Table 5.5A.1-2 [2]			See CA_n261H BCS 0 in Table 5.5A.1-2 [2]					
CA_n261(G-H)	-	See CA_n261G BCS 0 in Table 5.5A.1-2 [2]		See CA_n261H BCS 0 in Table 5.5A.1-2 [2]					500	
		See CA_n261H BCS 0 in Table 5.5A.1-2 [2]			See CA_n261G BCS 0 in Table 5.5A.1-2 [2]					
CA_n261(A-D-H)	-	CA_n261A	See CA_n261D BCS 0 in Table 5.5A.1-2 [2]		See CA_n261H BCS 0 in Table 5.5A.1-2 [2]				750 ¹	
		See CA_n261H BCS 0 in Table 5.5A.1-2 [2]		See CA_n261D BCS 0 in Table 5.5A.1-2 [2]		CA_n261A				
CA_n261(A-G-H)	-	CA_n261A	See CA_n261G BCS 0 in Table 5.5A.1-2 [2]		See CA_n261H BCS 0 in Table 5.5A.1-2 [2]				700 ¹	
		See CA_n261H BCS 0 in Table 5.5A.1-2 [2]		See CA_n261G BCS 0 in Table 5.5A.1-2 [2]		CA_n261A				
CA_n261(A-G-I)	-	CA_n261A	See CA_n261G BCS 0 in Table 5.5A.1-2 [2]		See CA_n261I BCS 0 in Table 5.5A.1-2 [2]				700 ¹	
		See CA_n261I BCS 0 in Table 5.5A.1-2 [2]			See CA_n261G BCS 0 in Table 5.5A.1-2 [2]		CA_n261A			

CA_n261(A-H-I)	-	CA_n261A	See CA_n261H BCS 0 in Table 5.5A.1-2 [2]	See CA_n261I BCS 0 in Table 5.5A.1-2 [2]		750 ¹
		See CA_n261I BCS 0 in Table 5.5A.1-2 [2]		See CA_n261H BCS 0 in Table 5.5A.1-2 [2]	CA_n261A	
CA_n261(A-2H)		CA_n261A	See CA_n261(2H) in Table 5.5A.1-2 [2]			700 ¹
		See CA_n261(2H) in Table 5.5A.1-2 [2]			CA_n261A	
Note 1: The maximum bandwidth of band n261 is 850MHz and a non-contiguous gap is between NR component carriers						

Table 8.4-3: Supported bandwidth combinations for n26() CA (Max #CC ≤ 12)

		NR CA configuration / set												
NR configuration	Uplink CA configurations	Component carriers order of increasing carrier frequency												Maximum aggregated bandwidth (MHz)
		Channel bandwidths for carrier (MHz)	Channel bandwidths for carrier (MHz)	Channel bandwidths for carrier (MHz)	Channel bandwidths for carrier (MHz)	Channel bandwidths for carrier (MHz)	Channel bandwidths for carrier (MHz)	Channel bandwidths for carrier (MHz)	Channel bandwidths for carrier (MHz)	Channel bandwidths for carrier (MHz)	Channel bandwidths for carrier (MHz)	Channel bandwidths for carrier (MHz)	Channel bandwidths for carrier (MHz)	
CA_n261(A-2I)	-	CA_n261A	See CA_n261(2I) in Table 8.3-x1 above											750 ¹
		See CA_n261(2I) in Table 8.3-x1 above							CA_n261A					
Note 1: The maximum bandwidth of band n261 is 850MHz and a non-contiguous gap is between NR component carriers														

Table 8.4-4: Supported bandwidth combinations for n261() CA (Max #CC ≤ 15)

		NR CA configuration / set												
NR configuration	Uplink CA	Component carriers order of increasing carrier frequency												Maximum aggregated

	configurations																bandwidth (MHz)
		CBW for carrier (MHz)	CBW for carrier (MHz)	CBW for carrier (MHz)	CBW for carrier (MHz)	CBW for carrier (MHz)	CBW for carrier (MHz)	CBW for carrier (MHz)	CBW for carrier (MHz)	CBW for carrier (MHz)	CBW for carrier (MHz)	CBW for carrier (MHz)	CBW for carrier (MHz)	CBW for carrier (MHz)	CBW for carrier (MHz)	CBW for carrier (MHz)	
CA_n261(A-2D)	n261A	See n261A in Table 5.3A.4-1 in [2]	See CA_n261(2D) in Table 8.3-x-1 above														750 ¹
		See CA_n261(2D) in Table 8.3-x-1 above				See n261A in Table 5.3A.4-1 in [2]											
CA_n261(A-2G-2O)	n261A	See n261A in Table 5.3A.4-1 in [2]	CA_n261(2G) in Table 8.3-x-2 above				See CA_n261(2O) in Table 8.3-x-3 above										650 ¹
		See CA_n261(2O) in Table 8.3-x-3 above				See n261A in Table 5.3A.4-1 in [2]	CA_n261(2G) in Table 8.3-x-2 above										

		CA_n261(2G) in Table 8.3-x-2 above		See CA_n261(2O) in Table 8.3-x-3 above		See n261 A in Table 5.3A.4-1 in [2]							
CA_n261(A-3G-O)	n261A	See n261A in Table 5.3A.4-1 in [2]	See CA_n261(3G) in Table 8.3-x-2 above			See CA_n261O in Table 5.5A.1-1 in [2]						650 ¹	
		See CA_n261O in Table 5.5A.1-1 in [2]	See n261 A in Table 5.3A.4-1 in [2]	See CA_n261(3G) in Table 8.3-x-2 above									
		See CA_n261(3G) in Table 8.3-x-2 above			See CA_n261O in Table 5.5A.1-1 in [2]	See n261 A in Table 5.3A.4-1 in [2]							
CA_n261(A-4G)	n261A	See n261A in Table 5.3A.4-1 in [2]	See CA_n261(4G) in Table 8.3-x-2 above										650 ¹

		See CA_n261(4G) in Table 8.3-x-2 above		See n261 A in Table 5.3A.4-1 in [2]							
CA_n261(A-4O)	n261A	See n261A in Table 5.3A.4-1 in [2]	See CA_n261(4O) in Table 8.3-x-3 above								650 ¹
		See CA_n261(4O) in Table 8.3-x-3 above			See n261 A in Table 5.3A.4-1 in [2]						
CA_n261(A-7O)	n261A	See n261A in Table 5.3A.4-1 in [2]	See CA_n261(7O) in Table 8.3-x-3 above								500 ¹
		See CA_n261(7O) in Table 8.3-x-3 above								See n261 A in Table 5.3A.4-1 in [2]	

CA_n261(A-2P)	n261A	See n261A in Table 5.3A.4 -1 in [2]	See CA_n261(2P) in Table 8.3-x-4 above										750 ¹
		See CA_n261(2P) in Table 8.3-x-4 above		See n261 A in Table 5.3A. 4-1 in [2]									
CA_n261(A-2Q)	n261A	See n261A in Table 5.3A.4 -1 in [2]	See CA_n261(2Q) in Table 8.3-x-5 above										750 ¹
		See CA_n261(2Q) in Table 8.3-x-5 above				See n261 A in Table 5.3A. 4-1 in [2]							
CA_n261(A-D-2O)	n261A	See n261A in Table 5.3A.4 -1 in [2]	See CA_n261D in Table 5.5A.1-2 in [2]	See CA_n261(2O) in Table 8.3-x-3 above									700 ¹

		See CA_n261(2O) in Table 8.3-x-3 above		See n261 A in Table 5.3A.4-1 in [2]	See CA_n261D in Table 5.5A.1-2 in [2]										
		See CA_n261D in Table 5.5A.1-2 in [2]	See CA_n261(2O) in Table 8.3-x-3 above		See n261 A in Table 5.3A.4-1 in [2]										

Note 1: The maximum bandwidth of band n261 is 850MHz and a non-contiguous gap is in between NR component carriers

Annex A: Change history

Change history							
Date	TSG #	TSG Doc.	CR	Rev	Subject/Comment	Old	New
2018-08	3GPP RAN4 #88	R4- 1810381			Initial TR skeleton		0.0.1
2018-10	3GPP RAN4 #88bis	R4- 1812779			Implemented TP's from RAN4 #88: R4-1811433, "TP for TR38.716-01-01: Requirements for CA_n66(2A) and CA_n66B", Dish Network R4-1811441, "TP for TR 38.716-01-01 NR Intra-band n260 CA", Verizon UK Ltd R4-1811442, "TP for TR 38.716-01-01 NR Intra-band n261 CA", Verizon UK Ltd	0.0.1	0.1.0
2018-11	3GPP RAN4 #89	R4- 1815794			Implemented TP's from RAN4 #88bis: R4-1812078, "draft CR to introduce BCS for CA_n71B", T-Mobile USA Inc. R4-1813789, "TP for TR 38.716-01-01 for CA_n71B", Ericsson, T-Mobile US R4-1812347, "TP for TR 38.716-01-01 NR Intra-band n260 and n261 CA", Verizon UK Ltd	0.1.0	0.2.0
2019-02	3GPP RAN4 #90	R4- 1901416			Implemented TP's from RAN4 #89: R4-1814927, "TP for TR 38.716-01-01 for CA_2DL_n41C_1UL_n41A", Huawei, HiSilicon R4-1816172, "TP for TR 38.716-01-01 for CA_2DL_n41(2A)_1UL_n41A", Huawei, HiSilicon R4-1815066, "TP for TR 37.716-01-01 CA_n257_UL_n257", NTT DOCOMO, INC. R4-1815821, "TP for 38 716-01-01 for Intra-band CA_n258B - CA_n258M", Ericsson, Telstra	0.2.0	0.3.0

2019-04	3GPP RAN4 #90bis	R4- 1904402		<p>Implemented TP's from RAN4 #90:</p> <p>R4-1901419, "TP for 38.716-01-01 for updated scope from RAN #82", Ericsson</p> <p>R4-1901422, "TP for TR 38.716-01-01 for symbols and abbreviations", Ericsson</p> <p>R4-1902123, "NR Intra-band non-contiguous CA n260 and n261", Verizon, Ericsson</p>	0.3.0	0.4.0
2019-05	3GPP RAN4 #91	R4- 1906734		<p>Implemented TP's from RAN4 #90bis:</p> <p>R4-1904404, "TP for 38.716-01-01 for updated scope from RAN #83", Ericsson</p> <p>R4-1903187, "Updated TP for TR 38.716-01-01 for DL_n41(2A)_UL_n41A", Huawei, HiSilicon</p> <p>R4-1904540, "TP for TR 38.716-01-01: CA_n25(2A)", Sprint Corporation</p>	0.4.0	0.5.0
2019-08	3GPP RAN4 #92	R4- 1909784		<p>Implemented TP's from RAN4 #91:</p> <p>R4-1907464, "TP for TR 38.716-01-01: CA_n48B and CA_n48C", Samsung</p> <p>R4-1905414, "TP for TR 38.716-01-01: CA_n48(2A)", Samsung</p>	0.5.0	0.6.0
2019-10	3GPP RAN4 #92bis	R4- 1912234		<p>Implemented TP's from RAN4 #92:</p> <p>R4-1910204, "TP for TR 38.716-01-01 for updated scope from RAN #84", Ericsson</p> <p>R4-1910298, "TP for 38.716-01-01 CA_n25(2A) REFSSENS", Sprint Corporation</p> <p>R4-1908935, "TP for TR 38.716-01-01: DL_n1B_UL_n1A", Huawei, HiSilicon</p> <p>R4-1909895, "TP for 38.716-01-01: CA_n41C and CA_n41(2A) BCS1", Sprint Corporation</p>	0.6.0	0.7.0

2019-11	3GPP RAN4 #93	R4- 1914682		<p>Implemented TP's from RAN4 #92bis:</p> <p>R4-1912236, "TP for TR 38.716-01-01 for updated scope from RAN #85", Ericsson</p> <p>R4-1911471, "TP for TR 38.716-01-01: DL_n3(2A)_UL_n3A", Huawei, HiSilicon</p> <p>R4-1912612, "TP for TR 38.716-01-01: DL_n7(2A)_UL_n7A", Huawei, HiSilicon</p> <p>R4-1912278, "TP for TR 38.716-01-01 to include CA_n7B", Ericsson, Telstra</p> <p>R4-1912564, "TP for TR 38 716-01-01 to include UL n258B - n258M", Ericsson, Telstra</p>	0.7.0	0.8.0
2020-02	3GPP RAN4 #94	R4- 2001502		<p>Implemented TP's from RAN4 #93:</p> <p>R4-1914300, "updated TP for TR 38.716-01-01: DL_n3(2A)_UL_n3A", Huawei, HiSilicon</p> <p>R4-1915632, "TP for TR 38.716-01-01 to include CA_n7B UL", Ericsson, Telstra</p>	0.8.0	0.9.0
2020-04	3GPP RAN4 #94 bis	R4- 2004576		<p>Implemented TP's from RAN4 #94:</p> <p>R4-2001506, "TP for TR 38.716-01-01 for updated scope from RAN #86", Ericsson</p>	0.9.0	0.10.0
2020-05	3GPP RAN4 #95	R4- 2005867		<p>Implemented TP's from RAN4 #94bis:</p> <p>R4-2004579, "TP for TR 38.716-01-01 for updated scope from RAN #87", Ericsson</p> <p>R4-2003159, "TP for TR 38.716-01-01: CA_n41B_UL_n41B", Samsung, KDDI</p> <p>R4-2005137, "TP for TR 38.716-01-01 for CA_n48(3A) and CA_n48(4A)", Charter Communications, Inc</p> <p>R4-2005144, "Updated TP for TR 38.716-01-01: to add BCS1 for CA_n71B", Huawei, HiSilicon, CITC</p> <p>R4-2005725, "TP on Inclusion of NR-U standalone combinations in TR 38 716-01-01", Ericsson</p>	0.10.0	0.11.0
2020-06	3GPP RAN4 #95	R4- 2006045		No TP's implemented. Just an update of version number to align with 3GU database.	0.11.0	0.12.0

2020-06	3GPP RAN #88	RP-200660			No TP's implemented. Presented for approval at RAN plenary.	0.12.0	1.0.0
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Change history							
Date	Meeting	TDoc	CR	Rev	Cat	Subject/Comment	New version
2020-06	RAN#88					Approved by plenary – Rel-16 spec under change control	16.0.0