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Technical Report

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 noncontiguous spectrum (x >= y)
(Release 16)





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	Channel bandwidths per operating band for CA	
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Foreword

This Technical Report 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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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 CA_n257M_UL_n257G	Rel-15 Rel-15
CA_n257M_UL_n257G CA_n257M_UL_n257H	Rel-15
CA_1257M_OL_1257H CA_n257M_UL_n257I	Rel-15
CA_n257M_UL_n257J	Rel-15
CA_1257M_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_n2611_UL_n261H	Rel-15
CA_12611_0L_126111 CA_1261J_UL_n261H	Rel-15
CA_n261K_UL_n261H	Rel-15
CA_1261K_0E_1261H	Rel-15
CA_n261M_UL_n261H	Rel-15
07.1.120 TM_OL_1120 TT	1101 10

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(70)	
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(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-20)	
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:

 $\Delta R_{\text{IB,c}}$ Allowed reference sensitivity relaxation due to support for inter-band CA operation, for serving cell c.

ΔT_{IB,c} Allowed maximum configured output power relaxation due to support for inter-band CA

 $\begin{array}{ll} F_{DL_low} & \text{The lowest frequency of the downlink operating band} \\ F_{DL_high} & \text{The highest frequency of the downlink operating band} \\ F_{UL_low} & \text{The lowest frequency of the uplink operating band} \\ F_{UL_high} & \text{The highest frequency of the uplink operating band} \end{array}$

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					
ND 04	11.17.1.04	order of incre	t carriers in easing carrier lency	Aggregated	Bandwidth
configuration	NR CA Uplink CA configurations	Channel bandwidths for carrier (MHz)	Channel bandwidths for carrier (MHz)	bandwidth (MHz)	combination set
		5 ¹	20		
		10	15	25	
		15	10	23	
		20	5 ¹		
		10	20		
CA_n66B		15	15	30	0
	-	20	10		O
		15	20	35	
		20	15	33	
		5 ¹	40	45	
		40	5 ¹	70	
		10	40	50	

E-UTRA CA configuration / Bandwidth combination set								
NR CA	Uplink CA	Component order of incre frequ		Aggregated	Bandwidth			
configuration	configurations	Channel bandwidths for carrier (MHz)	Channel bandwidths for carrier (MHz)	bandwidth (MHz)	combination set			
		40	10					
Note 1: 5MHz is n	ot 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								
ND CA	Uplink CA configurations	order of incre	t carriers in easing carrier iency	Aggregated	Bandwidth			
NR CA configuration		Channel bandwidths for carrier (MHz)	Channel bandwidths for carrier (MHz)	bandwidth (MHz)	combination set			
	-	5	20	25	0			
		10	15					
		15	10		O			
CA_n71B		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		t carriers in easing carrier iency	Aggregated	Bandwidth combination set				
		Channel bandwidths for carrier (MHz)	Channel bandwidths for carrier (MHz)	bandwidth (MHz)					
		5	20	25	0				
		10	15						
		15	10						
CA_n71B	-	20	5						
		35	1						
		15	15, 20	35	1				
		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 REFSENS

General REFSENS 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	on / Bandwidth	n combination	n set		
NR CA configura tion	Uplink CA configurati ons	Channel bandwidths for carrier [MHz]	Channel bandwidths for carrier [MHz]	Channel bandwidth s for carrier [MHz]	Channel bandwidt hs for carrier [MHz]	Channel bandwidt hs for carrier [MHz]	Maximum aggregate d bandwidt h [MHz]	Bandwidth combinati on set
		50	60				110	
		40	80				120	
		60	60					
		50	80				130	
		40	100				140	
		60	80				110	
		50	100				150	
		60	100				160	
CA_n41C	_	80 80	80				. 100	0
OA_II+10		80	100				180	
		60	50				110	
		80	40				120	
		80	50				130	
		100	40				140	
		80	60				1 10	
		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

				A configuration			n set	
		Componen		Maximum				
configurati CA configu	Uplink CA configur ations	Channel bandwidths for carrier [MHz]	Channel bandwidths for carrier [MHz]	Channel bandwidth s for carrier [MHz]	Channel bandwidt hs for carrier [MHz]	Channel bandwidt hs for carrier [MHz]	aggregate d bandwidt h [MHz]	Bandwidth combinati on set
		5 ¹	15					
		10	10				20	
		15	5 ¹					
		5 ¹	20					
		10	15				25	
		15	10				25	
		20	5 ¹					
		10	20]
CA_n48B	-	15	15				30	0
		20	10				1	
		15	20				35	
		20	15					
		20	20				40	
		5 ¹	40				45	
		40	5 ¹				45	
		10	40				50	
		40	10				50	
		10	90					
		20	80					
		40	60					
		50	50				100	
		60	40					
CA = 40C		80	20					
CA_n48C	-	90	10				1	0
		15	90				105	1
		90	15				105	
		10	100					1
		20	90				110	
		50	60					

	60	50				
	90	20				
	100	10				
	15	100			115	
	100	15			115	
	20	100				
	40	80				
	60	60			120	
	80	40				
	100	20				
	40	90				
	50	80			120	
	80	50			130	
	90	40				
	40	100				
	50	90				
	60	80			140	
	80	60			140	
	90	50				
	100	40				
	50	100				
	60	90			150	
	90	60			130	
	100	50				
OTE 1: 51 MHz is no	ot applicable for 30/60kl	Hz 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
		10	10,15		
CA_n1B	-	15	15,20	40	0
		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	Unlink CA	Component order of incre frequ	_	Aggregated bandwidth (MHz)	Bandwidth			
configuration	Uplink CA configurations	Channel bandwidths for carrier (MHz)	Channel bandwidths for carrier (MHz)		combination set			
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	Class 1	Tolerance	Class 2	Tolerance	Class 3	Tolerance	Class 4	Tolerance
Configuration	(dBm)	(dB)	(dBm)	(dB)	(dBm)	(dB)	(dBm)	(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 Config uration		Spurious emission											
	Protected band	Frequency range (MHz)	Maximum Level (dBm)	MBW (MHz)	NOTE								
CA_n41 B	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

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 MHz + N x L_{CRB} x RB_{size} 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.

NOTE 8: Applicable when co-existence with PHS system operating in 1884.5 - 1915.7 MHz.

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

5.7.3 REFSENS

There are no REFSENS 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 configurati on	Uplink CA configurati ons	Channel bandwidths for carrier [MHz]	Channel bandwidths for carrier [MHz]	Channel bandwidth s for carrier [MHz]	Channel bandwidth s for carrier [MHz]	Channel bandwidt hs for carrier [MHz]	Maximum aggregate d bandwidt h [MHz]	Bandwidth combinati on 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 REFENS numbers need to be investigated.

						Operating	band / SCS /	Channel band	width / Duple	x-mode					
ng I	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 Me
	15				-89.7			-86.6							
	30				-89.9			-86.7		-84.8		-83.6		1	Т
	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
- CA_2DL_n66(2A)_1UL_n66A 6.1
- 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				
		5 ¹	20						
		10	15	25					
		20	5 ¹	25					
		15	10		Ì				
		10	20						
		15	15	30	0				
		20	10						
	-	15	20	35					
CA_n66(2A)		20	15	30					
O/ (_NOO(2/ t)		20	20	40					
		5 ¹	40	45					
		40	5 ¹	4 5					
		10	40	50					
		40	10	50					
		15	40	55					
		40	15	33					
		20	40	60					
		40	20	00					

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	on / Bandwidth	combination	n set		
NR CA configurati on	Uplink CA configuratio ns	Channel bandwidths for carrier [MHz]	Channel bandwidths for carrier [MHz]	Channel bandwidth s for carrier [MHz]	Channel bandwidt hs for carrier [MHz]	Channel bandwidt hs for carrier [MHz]	Maximum aggregate d bandwidt h [MHz]	Bandwidth combinati on set
		40	40			-	80	
		40	50				90	
		40	60				100	
		50	50					
		50	60				110	
		40	80				120	
	-	60	60					0
		50	80				130	
CA_n41(2A)		40	100				140	
<i>⊙,</i> <u>_</u> (<u>_</u> ., ,		60	80				140	
		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		150	
	100	60		160	
	100	80		180	
	80	100		180	
	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 allocatio n	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

		E-UTRA CA configuration / Bandwidth combination set						
	Uplink CA configuratio ns	Component carriers in order of increasing carrier frequency					Maximum	
NR CA configurati on		Channel bandwidths for carrier [MHz]	Channel bandwidths for carrier [MHz]	Channel bandwidth s for carrier [MHz]	Channel bandwidt hs for carrier [MHz]	Channel bandwidt hs for carrier [MHz]	aggregate d bandwidt h [MHz]	Bandwidth combinati on set
CA_n25(2A)	-	5, 10, 15, 20	5, 10, 15, 20				40	0
								<u> </u>

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 Ribno 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 _{IBNC} (dB)	Duplex mode	
CA p25(2A)	15	25RB+25RB	$W_{gap} = 55.0$	10 ¹	5.0	FDD	
CA_n25(2A)			$W_{gap} = 30.0$	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 configura tions	Componer Channel bandwidths for carrier [MHz]	carriers in or Channel bandwidths for carrier [MHz]	rder of increas Channel bandwidth s for carrier [MHz]	ing carrier fr Channel bandwidt hs for carrier [MHz]	equency Channel bandwidt hs for carrier [MHz]	Maximum aggregate d bandwidt h [MHz]	Bandwidth combinati on set
OA = 40(0A)	-	5 ¹ , 10, 15, 20, 40, 50	5 ¹ , 10, 15, 20, 40, 50				100	
CA_n48(2A)		10, 15, 20, 40,50, 60, 80, 90, 100	10, 15, 20, 40,50, 60, 80, 90, 100				140 ²	0

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 allocatio	ΔR _{IBNC} (dB)	Duplex mode
CA p2(2A)	25RB+25RB	$W_{gap} = 65.0$	12 ⁵	4.7	FDD
CA_n3(2A)	20KD+20KD	$W_{gap} = 45.0$	25 ⁵	0	רטט

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 allocatio	ΔR _{IBNC} (dB)	Duplex mode
CA p7(2A)	52RB+25RB	$W_{gap} = 55$	32 ⁵	0.0	FDD
CA_n7(2A)	(SCS=15kHz)	$W_{gap} = 30$	50⁵	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: Wgap 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]	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	140²	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	135 ²	0			

6.7.2 Co-existence studies

There are no co-existence issues for this combination.

6.7.3 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

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

				NF	R CA config	guration / E	Bandwidth	combinatio	n set / Fall	back group		
NR CA	Uplink CA		Compon	ent carrier	s in order o	of increasir	ng carrier fi	requency		Maximum		Fallback
configuration	configurations	CBW (MHz)	CBW (MHz)	CBW (MHz)	CBW (MHz)	CBW (MHz)	CBW (MHz)	CBW (MHz)	CBW (MHz)	aggregated BW (MHz)	BCS	group
CA_n257G	CA_n257G	100	100							200	0	
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	3
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		Uplink (UL) band	Downlink (DL) band	Duplex	
Band	NR Band	BS receive / UE transmit	BS transmit / UE receive	mode	
Daliu		Ful_low - Ful_high	F _{DL_low} - F _{DL_high}	mode	
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

									et / Fallbac		1 1	
NR CA	Uplink CA	С	•				rrier freque		r	Maximum	200	Fallback
configuration	configurations	CBW (MHz)	CBW (MHz)	CBW (MHz)	CBW (MHz)	CBW (MHz)	CBW (MHz)	CBW (MHz)	CBW (MHz)	aggregated BW (MHz)	BCS	group
CA_n258B	CA_n258A CA_n258B	50, 100, 200, 400	50, 100, 200, 400							800	0	
CA_n258C	CA_n258A CA_n258B CA_n258C	50, 100, 200, 400	50, 100, 200, 400	50, 100, 200, 400						1200	0	1
CA_n258D	CA_n258A CA_n258D	50, 100, 200	50, 100, 200							400	0	
CA_n258E	CA_n258A CA_n258D CA_n258E	50, 100, 200	50, 100, 200	50, 100, 200						600	0	2
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	
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	3
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 C	A configu	ration / Ban	dwidth con	nbination s	et / Fallbac	k group		
NR CA	Uplink CA	Component carriers in order of increasing carrier frequency								Maximum		Fallback
configuration	configurations	CBW (MHz)	CBW (MHz)	aggregated BW (MHz)	BCS	group						
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

			2 nd Ha	2 nd Harmonic		3 rd Harmonic		4 th Harmonic		5 th Harmonic		monic	7 th Harmonic	
	UL DL	UL DL	UL DL	UL DL	UL DL	UL DL	UL DL	UL DL	UL DL	UL DL	UL DL	UL DL	UL DL	UL DL
Dand	Low	High	Low	High	Low	High	Low	High	Low	High	Low	High	Low	High
Band	Band	Band	Band	Band	Band	Band	Band	Band	Band	Band	Band	Band	Band	Band
	Edge	Edge	Edge	Edge	Edge	Edge	Edge	Edge	Edge	Edge	Edge	Edge	Edge	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)

	ND CA configuration / Dandwidth combination act
	NR CA configuration / Bandwidth combination set

				Compo	nent carrie	rs in order o	of increasing	carrier free	luency			
NR configuration	Uplink CA configurations	scs	Channel bandwidths for carrier (MHz)	Maximum aggregated bandwidth (MHz)	Fall- back group							
		60	50, 100, 200	50, 100, 200	50, 100, 200	50, 100, 200	50, 100, 200				1000	
CA_n260(5A)	-	120	50, 100, 200, 400				2000					
		60	50, 100, 200	50, 100, 200	50, 100, 200	50, 100, 200	50, 100, 200	50, 100, 200			1200	
CA_n260(6A)	-	120	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		2600¹							
		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	
CA_n260(8A)	-	120	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 configura	ation / Band	lwidth comb	ination set								
				Component carriers in order of increasing carrier frequency													
NR configuration	Uplink CA configurations	scs	Channel bandwidths for carrier (MHz)	andwidths bandwidths													
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)

i n		
		NR CA configuration / Bandwidth combination set

				Compo	onent carrie	rs in order o	of increasing	carrier frec	quency			
NR configuration	Uplink CA configurations	scs	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	2
	-	120	50, 100	50, 100	50, 100	50, 100					400	3
CA_n260(3G)	_	60	100	50, 100	100	50, 100	100	50, 100			600	2
CA_11200(3G)	-	120	100	50, 100	100	50, 100	100	50, 100			600	3
CA n260(4G)	_	60	100	50, 100	100	50, 100	100	50, 100	100	50, 100	800	3
CA_n260(4G)	-	120	100	50, 100	100	50, 100	100	50, 100	100	50, 100	800	3

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

					NR (CA configur	ation / Band	width comb	ination set				
				Compo									
NR configuration	Uplink CA configurations	scs	Channel bandwidths for carrier (MHz)	ndwidths bandwidths									
CA_n260(2H)	-	60 120	50, 100 50, 100	50, 100 50, 100	50, 100 50, 100	50, 100 50, 100	50, 100 50, 100	50, 100 50, 100			600 600	3	

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

					NR (CA configur	ation / Band	lwidth comb	ination set								
				Component carriers in order of increasing carrier frequency													
NR configuration	Uplink CA configurations	scs	Channel bandwidths for carrier (MHz)	andwidths bandwidths for carrier (MHz) bandwidths bandwidths for carrier (MHz) (MHz) bandwidths bandwidths for carrier (MHz) bandwidths bandwidths for carrier (MHz) bandwidths for carrier (MHz) bandwidths for carrier (MHz) (MHz) (MHz) bandwidths bandwidths for carrier (MHz) bandwidths bandwidths bandwidths for carrier (MHz) bandwidths bandwidths for carrier (MHz) bandwidths bandwidths for carrier (MHz) bandwidths for carrier (MHz) bandwidths bandwidths for carrier (MHz) bandwidths for carrier (MHz) bandwidths for carrier (MHz) bandwidths for carrier (MHz) bandwidths bandwidths for carrier (MHz) bandwidths bandwidths for carrier (MHz) bandwidths for carrier (MHz) bandwidths bandwidths bandwidths bandwidths for carrier (MHz) bandwidths													
CA_n260(2O)	_	60	50, 100	50, 100	50, 100	50, 100					400	4					
O/ (_11200(20)		120	50, 100	50, 100	50, 100	50, 100					400	-					
CA_n260(3O)	-	60 120	50, 100 50, 100	50, 100 50, 100	50, 100 50, 100	50, 100 50, 100	50, 100 50, 100	50, 100 50, 100			600 600	4					

CA_n260(4O)		60	50, 100	50, 100	50, 100	50, 100	50, 100	50, 100	50, 100	50, 100	800	4
CA_11200(40)	-	120	50, 100	50, 100	50, 100	50, 100	50, 100	50, 100	50, 100	50, 100	800	4

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

					NR (CA configur	ation / Band	width comb	ination set								
				Component carriers in order of increasing carrier frequency Channel Channel Channel Channel Channel Channel Maximum _													
NR configuration	Uplink CA configurations	scs	Channel bandwidths for carrier (MHz)	ndwidths bandwidths													
CA_n260(2P)	-	60 120	50, 100 50, 100	50, 100 50, 100	50, 100 50, 100	50, 100 50, 100	50, 100 50, 100	50, 100 50, 100			600 600	4					

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

							N	IR CA co	nfigurat	ion / Ban	dwidth	combina	tion set					
NR CA	Uplink CA			Component carriers in order of increasing carrier frequency													Aggregated	Fallback
configuration	configurations	SCS	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)	BW (MHz)	group
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
CA_II200(4F)	11200A	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	4

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

				NR CA configuration / Bandwidth combination set														
NR CA	Uplink CA			Component carriers in order of increasing carrier frequency Aggregated F												Fallback		
configuration	configurations	SCS	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)	BW (MHz)	group
CA =260(20)	-260A	60	50, 100	50, 100,	50, 100	50, 100	50, 100	50, 100,	50, 100	50, 100							800	4
CA_n260(2Q)	n260A	120	50, 100	50, 100,	50, 100	50, 100	50, 100	50, 100,	50, 100	50, 100							800	4

8.2 Intra band non-contiguous CA fallback groups n260

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

					NR CA config	guration / Bandw	idth combinati	on set			
NR configuration	Uplink CA configu rations		Co	omponent carri	ers in order o	of increasing car	rier 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 Combination in Ta of 38.101-2	able 5.5A.2-1	See CA_n260 Combination F 3 in Table 5.5 38.101-2	allback group					1000	
		See CA_n260G E Combination FallI Table 5.5A.1-2 of	back group 3 in	See CA_n260 Bandwidth Co Table 5.5A.2-	mbination in						
		See CA_n260A Bandwidth Combination in Table 5.3A.4-1 of 38.101-2	See CA_n260(in table above	2G) Bandwidth (Combination F	fallback group 3					
CA_n260(A-2G)	-	See CA_n260(2G in table above	S) Bandwidth Cor	mbination Fallba	ack group 3	See CA_n260A Bandwidth Combination in Table 5.3A.4-1 of 38.101-2				800	
CA_n260(2A-2G)	-		ee CA_n260(2A) Bandwidth ombination in Table 5.5A.2-1 See CA_n260(2G) Bandwidth Combination Fallback group 3 in table above								

	See CA_n260(2G) Bandwidth Combination table above	Fallback group 3 in	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_3 in table		n Combination Fallback group	See CA_n260O Bandwidth Combination Fallback group 4 in Table 5.5A.1-2 of 38.101-2	1400			
	Combination Fallback group 4 in Bandwid	n260(2A) hth Combination in 5A.2-1 of 38.101-2	See CA_n260(2G) Bandwidth in table above	Combination Fallback group 3				
CA_n260(3A-2G) -	See CA_n260(3A) Bandwidth Combination i Table 5.5A.2-1 of 38.101-2							
	See CA_n260(2G) Bandwidth Combination table above	1600						
CA_n260(4A-G) -	See CA_n260(4A) Bandwidth Combination i 38.101-2	1800						
	See CA_n260G Bandwidth Combination Fallback group 3 in Table 5.5A.1-2 of 38.101-2		Combination in Table 5.5A.2-					
CA_n260(4A-2G) -	See CA_n260(4A) Bandwidth Combination i 38.101-2	n Table 5.5A.2-1 of	See CA_n260(2G) Bandwidth in table above	Combination Fallback group 3	2000			
ON_11200(4A-20)	See CA_n260(2G) Bandwidth Combination table above	Fallback group 3 in	See CA_n260(4A) Bandwidth 1 of 38.101-2	Combination in Table 5.5A.2-	. 2000			
CA_n260(A-G) -	See CA_n260A Bandwidth Combination in Table 5.3A.4-1 of 38.101-2 See CA_n260G Bandwidt Combination Fallback gro 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_n260 Bandwidth Combinat in Table	h						

			5.3A.4-1 of 38.101-2						
CA_n260(3A-G)	-	See CA_n260(3A) Bandwidth Co Table 5.5A.2-1 of 38.101-2	See CA_n2600 Combination F 3 in Table 5.5A 38.101-2	allback group			1400		
		See CA_n260G Bandwidth Combination Fallback group 3 in Table 5.5A.1-2 of 38.101-2	Fallback group 3		(3A) Bandwidth Combination 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 configu rations		Component carriers in order of increasing carrier frequency											
		Channel bandwidths for carrier (MHz)	dwidths for carrier (MHz) bandwidths for carr											
		See CA_n260A Bandwidth Combination in Table 5.3A.4-1 of 38.101-2	See CA_n260(.	2H) Bandwidth (Combination Fa	llback group 3 ir	n table above							
CA_n260(A-2H)	-	See CA_n260(2F	H) Bandwidth Cor	mbination Fallba	ick group 3 in ta	ble above		See CA_n260A Bandwidth Combination in Table 5.3A.4-1 of 38.101-2		1000				
CA_n260(2A-H)	-		See CA_n260(2A) Bandwidth See CA_n260H Bandwidth Combination Fallback group 3 in Table 5.5A.1-2 of 38.101-2											

		See CA_n260H E Fallback group 3			See CA_n260 Bandwidth Co Table 5.5A.2-	mbination in					
CA_n260(2A-2H)		See CA_n260(2A Combination in T of 38.101-2		See (CA_n260(2H) Ba	andwidth Combi	nation Fallback	group 3 in table	above	1400	
01 <u>1</u> 1200(211211)	-	See CA	A_n260(2H) Band	dwidth Combina	ition Fallback gr	oup 3 in table at	oove	See CA_n260 Bandwidth Co Table 5.5A.2-	mbination in	- 1400	
		See CA_n260A Bandwidth Combination in Table 5.3A.4-1 of 38.101-2			Bandwidth Combination in Table 5.5A.1-2 of						
CA_n260(A-H)	-	See CA_n260H E Fallback group 3			See CA_n260A Bandwidth Combination in Table 5.3A.4-1 of 38.101-2					700	

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

			NR CA configuration / Bandwidth combination set										
NR configuration	Uplink CA configu rations		Component carriers in 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_n260(2A-O)	-		CA_n260(2A) Bandwidth nbination in Table 5.5A.2-1 8.101-2 See CA_n260O Bandwidth Combination Fallback group										

			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					
		See CA_n260A Bandwidth Combination in Table 5.3A.4-1 of 38.101-2 See CA_n260 in table above	(20) Bandwidth Combination Fa	allback group 4				
CA_n260(A-2O)	-	See CA_n260(2O) Bandwidth Co table above	ombination Fallback group 4 in	See CA_n260A Bandwidth Combination in Table 5.3A.4-1 of 38.101-2			800	
CA_n260(2G-O)	-	See CA_n260(2G) Bandwidth Co Table 2 above	ombination Fallback group 3 in	See CA_n260 Combination F 4 in Table 5.5/ 38.101-2	allback group		600	
		See CA_n260O Bandwidth Combination Fallback group 4 in Table 5.5A.1-2 of 38.101-2	See CA_n260(2G) Bandwidth 3 in Table 2 above	Combination Fa	allback group			
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 4 in table above	Combination Fa	allback group		1200	
oo(o)		See CA_n260(2O) Bandwidth Co table above	ombination Fallback group 4 in	See CA_n260 Bandwidth Co Table 5.5A.2-	mbination in		1200	
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 Fa	allback group 4	in table above	1400	
3.1 <u>.11200(211</u> 00)	See CA_n260(3O) Bandwidth Combination Fallback group				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 Cor Table 5.5A.2-1 of 38.101-2 See CA_n260(2O) Bandwidth Co		in table above Fallback group 4 in See CA_n260(3A) Bandwidth Combination					1600	
		table at	oove	aon group 1 m	Table 5.5A.2-1					
CA_n260(4A-O)	-	See CA_n260(4A) Bandwidth Cor 38.101-2	mbination in Tab	ole 5.5A.2-1 of	See CA_n260 Combination F 4 in Table 5.5A 38.101-2	allback group			1800	
		See CA_n260O Bandwidth Combination Fallback group 4 in Table 5.5A.1-2 of 38.101-2	See CA_n260(1 of 38.101-2	(4A) Bandwidth	ndwidth Combination in Table 5.5A.2-					
CA_n260(4A-2O)		See CA_n260(4A) Bandwidth Col 38.101-2	mbination in Tab	ole 5.5A.2-1 of	See CA_n260 in table above	(20) Bandwidth	Combination Fa	allback group 4	2000	
0/_1\200(4/\20)	-	See CA_n260(2O) Bandwidth Co table above	mbination Fallba	ack group 4 in	See CA_n260 1 of 38.101-2	(4A) Bandwidth	Combination in	Table 5.5A.2-	2000	
		See CA_n260A Bandwidth Combination in Table 5.3A.4-1 of 38.101-2 See CA_n260O Combination Fa 4 in Table 5.5A. 38.101-2								
CA_n260(A-O)	-	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						600	
CA_n260(G-O)	_	See CA_n260G Bandwidth Combination Fallback group 3 in Table 5.5A.1-2 of 38.101-2	See CA_n260 Combination F 4 in Table 5.5, 38.101-2	allback group					400	
CA_11200(G-O) -		See CA_n260O Bandwidth Combination Fallback group 4 in Table 5.5A.1-2 of 38.101-2	Combination F	See CA_n260G Bandwidth Combination Fallback group 3 in Table 5.5A.1-2 of 38.101-2					400	

									\
	See CA_n260A Bandwidth Combination in Table 5.3A.4-1 of 38.101-2	See CA_n2600 Combination F 3 in Table 5.5A 38.101-2	n Fallback group Combination Fallback group						
CA_n260(A-G-O)	See CA_n260G Combination Fal Table 5.5A.1-2 c	back group 3 in	Combination F	38				800	
CA_n260(2A-G-	See CA_n260(2. Combination in 7 of 38.101-2		See CA_n260 Combination I 3 in Table 5.5 38.101-2	Fallback group	See CA_n260 Combination F 4 in Table 5.5, 38.101-2	allback group		1200	
O)	See CA_n260G Combination Fal Table 5.5A.1-2 c	back group 3 in	Combination I	See CA_n260O Bandwidth Combination Fallback group 4 in Table 5.5A.1-2 of 38.101-2 See CA_n260(2A) Bandwidth Combinati Table 5.5A.2-1 of 38.				1200	
24 200/4 22	See CA_n260A Bandwidth Combination in Table 5.3A.4-1 of 38.101-2	See CA_n260(in Table 2 abov	2G) Bandwidth /e	Combination Fa	allback group 3	See CA_n260 Combination I 4 in Table 5.5 38.101-2	allback group		
CA_n260(A-2G- O)	See CA_n260(20 Table 2 above	G) Bandwidth Cor	mbination Fallba	ack group 3 in	See CA_n2600 Combination F 4 in Table 5.5A 38.101-2	allback group	See CA_n260A Bandwidth Combination in Table 5.3A.4-1 of 38.101-2	1000	
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 Fa	allback group 4 ir	ı Table 2 above		1000	
	See CA_n260(3	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 Con Table 5.5A.2-1 of 38.101-2	nbination in	See CA_n260O Bandwidth Combination Fallback group 4 in Table 5.5A.1-2 of 38.101-2		1400	
		See CA_n2600 Bandwidth Combination Fallback group 4 in Table 5.5A.1-2 of 38.101-2	See CA_n260 in Table 5.5A.	(3A) Bandwidth Combination 2-1 of 38.101-2			

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

						١	NR CA confi	guration / B	andwidth co	ombination	set				
NR configuration	Uplink CA configu rations				Compo	onent carrier	rs in order o	f increasing	carrier fred	quency				Maximum aggregated bandwidth (MHz)	Fall- back group
		Channel bandwidt hs for carrier (MHz)	Channel bandwidt hs for carrier (MHz) Channel (MHz) Channel (MHz) Channel (MHz) Channel bandwidt hs for carrier (MHz) (MHz) Channel bandwidt bandwidt hs for carrier (MHz) (MHz) Channel bandwidt bandwid												
CA_n260(A-4O)	_	See CA_n260A Bandwidth Combination in Table 5.3A.4-1 of 38.101-2	See CA_n2	260(4O) Band	dwidth Comb	ination Fallba	ack group 4 i	n table abov	Э					1200	
5. <u>_</u> . 153(\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	-	See CA_n2	60(4O) Band	dwidth Comb	ination Fallba	ack group 4 i	n table abov	е		See CA_n260A Bandwidth Combinatio n in Table 5.3A.4-1 of 38.101-2				1200	
CA_n260(2A-4O)	-	Bandwidth Combinatio	CA_n260(2A)									1600			

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	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		

Table 8.2-5: Supported bandwidth combinations for n260(A-P)

		NR CA configuration / Bandwidth combination set		
NR configuration	Uplink CA configu rations	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)		
		See CA_n260A Bandwidth Combination in Table 5.3A.4-1 of 38.101-2		CA_n260P Bandwidth Combination back group 4 in Table 5.5A.1-2 of 01-2							
CA_n260(A-P)	-	See CA_n260P E Fallback group 4		See CA_n260A Bandwidth Combination in Table 5.3A.4-1 of 38.101-2							
CA_n260(2A-P)	_	See CA_n260(2A Combination in T of 38.101-2			P Bandwidth Cop 4 in Table 5.5					1100	
ON_11200(27(1))		See CA_n260P E Fallback group 4			See CA_n260 Bandwidth Cor Table 5.5A.2-1	mbination in				1100	
		See CA_n260A Bandwidth Combination in Table 5.3A.4-1 of 38.101-2	See CA_n260(2p) Bandwidth (Combination Fal	lback group 4 in	table above				
CA_n260(A-2P)	-	See CA_n260(2p	o) Bandwidth Con		1000						
CA_n260(2A-2P)	-		n260(2A) Bandwidth tion in Table 5.5A.2-1 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	
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Table 8.2-6: Supported bandwidth combinations for n260() CA (Max #CC ≤ 8)

					NR CA	A configuration	on / set			
NR configuration	Uplink CA configu rations		Co	mponent car	riers order of	increasing ca	rrier frequenc	с у		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 bandwidth s for carrier (MHz)	
CA_n260(A-D)		CA_n260A		60D BCS 0 in 5A.1-2 [2]						800
CA_11200(A-D)	-		50D BCS 0 in 5A.1-2 [2]	CA_n260A						. 000
CA_n260(2A-D)		CA_n26	0(2A) [2]		50D BCS 0 in 5A.1-2 [2]					1200
ON_11200(21\tau)			60D BCS 0 in 5A.1-2 [2]	CA_n26	0(2A) [2]					1200
CA_n260(A-D-O)		CA_n260A		50D BCS 0 in 5A.1-2 [2]		500 BCS 0 in 5A.1-2 [2]				1000
5. (_1/250(/			500 BCS 0 in 5A.1-2 [2]		50D BCS 0 in 5A.1-2 [2]	CA_n260A				1000
CA_n260(2A-D- O)	-	CA_n26	0(2A) [2]	See CA_n260D BCS 0 in Table 5.5A.1-2 [2] See CA_n260 Table 5.5A						1400

					• •								
			600 BCS 0 in 5A.1-2 [2]		260D BCS 0 in .5A.1-2 [2]	CA_n26	0(2A) [2]						
CA_n260(D-2O)			60D BCS 0 in 5A.1-2 [2]	See	CA_n260(2O)	in Table 5.5A.2	2-1 [2]			800			
o. <u>-</u> 200(2 20)	_	See (CA_n260(2O) i	in Table 5.5A	.2-1 [2]		60D BCS 0 in 5A.1-2 [2]			- 000			
CA_n260(A-D-	_	CA_n260A		60D BCS 0 in 5A.1-2 [2]	See	CA_n260(2O)	in Table 5.5A.2	2-1 [2]		1200			
20)		See (CA_n260(2O) i	in Table 5.5A	.2-1 [2]		60D BCS 0 in 5A.1-2 [2]	CA_n260A		1200			
CA_n260(2A-D-		CA_n26	0(2A) [2]		260D BCS 0 in .5A.1-2 [2]	See C	CA_n260(2O) i	n Table 5.5A.2	1600				
20)	-	See (CA_n260(2O) i	in Table 5.5A	.2-1 [2]		60D BCS 0 in 5A.1-2 [2]	CA_n260)(2A) [2]	1000			
CA_n260(A-2D)	_	CA_n260A	See C	CA_n260(2D)	in Table 8.1-x1	above				1200			
_		See C	A_n260(2D) in	Table 8.1-x1	above	CA_n260A							
CA_n260(2A-2D)	_	CA_n26	0(2A) [2]	See	CA_n260(2D) i	n Table 8.1-x1	above			1600			
_		See C	A_n260(2D) in	Table 8.1-x1	above	CA_n260	O(2A) [2]						
CA_n260(A-P)	_	CA_n260A	See CA_n26	0P BCS 0 in 2 [2]	Table 5.5A.1-					700			
<u></u>		See CA_	n260P BCS 0 5.5A.1-2 [2]	in Table	CA_n260A					700			
CA_n260(2A-P)	_	CA_n26	0(2A) [2]	See CA_n2	260P BCS 0 in 2 [2]	Table 5.5A.1-				1100			
	-	See CA_	ee CA_n260P BCS 0 in Table CA_n2 5.5A.1-2 [2]			0(2A) [2]				1100			
CA_n260(A-2P)	-	CA_n260A		See	CA_n260(2P)	in Table 5.5A.2	2-1 [2]	1		1000			

		02						
	See C	A_n260(2P) i	n Table 5.5A	.2-1 [2]		CA_n260A		
	CA_n260(2A) [2]		See	CA_n260(2P) ir	Table 5.5A.2	-1 [2]		1400
_	See C	A_n260(2P) i	n Table 5.5A	.2-1 [2]		CA_n260)(2A) [2]	1400
	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	2-1 [2]					800
	See CA_n260(2D) in	Table 5.5A.1- ee CA_n260O BCS 0 in See CA_n260(2D) in Table 8.1-x1 above						1000
-	See CA_n260O BCS 0 in Table 5.5A.1-2 [2]	Table 5.5A.1-2 [2] See CA_n260(2D) In Table 8.1-x1 above						1000
	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	2-1 [2]					600
	See CA_n260(2G) in	Table 5.5A.2	2-1 [2]	See C	A_n260(2O) ir	n Table 5.5A.2	-1 [2]	800
-	See CA_n260(2O in	Table 5.5A.2	-1 [2]	See C	A_n260(2G) ir	-1 [2]	000	
_	See CA_n260G BCS 0 in Table 5.5A.1-2 [2]		See	CA_n260(3O) ir	Table 5.5A.2	-1 [2]		800
-	See C	A_n260(3O) i	n Table 5.5A	.2-1 [2]				800
	See CA	See CA_n260(3G) in Table 8.1-x1 above						900
-	See CA_n260O BCS 0 in Table 5.5A.1-2 [2]		See (CA_n260(3G) in	Table 8.1-x1	above		800
								500
	-	CA_n260(2A) [2] See CA See CA_n260D BCS 0 in Table 5.5A.1-2 [2] See CA_n260(2G) in See CA_n260(2D) in Table 5.5A.1-2 [2] CA_n260G BCS 0 in Table 5.5A.1-2 [2] CA_n260G BCS 0 in Table 5.5A.1-2 [2] See CA_n260(2O) in See CA_n260(2O) in Table 5.5A.1-2 [2] See CA_n260G BCS 0 in Table 5.5A.1-2 [2] See CA_n260G BCS 0 in Table 5.5A.1-2 [2] See CA_n260G BCS 0 in Table 5.5A.1-2 [2] See CA_n260D BCS 0 in Table 5.5A.1-2 [2] See CA_n260D BCS 0 in Table 5.5A.1-2 [2]	See CA_n260(2A) [2] See CA_n260(2P) i	See CA_n260(2A) [2] See See CA_n260(2P) in Table 5.5A See CA_n260D BCS 0 in Table 5.5A.1-2 [2] See CA_n260(2G) in Table 5.5A.2-1 [2] See CA_n260(2D) in Table 8.1-x1 above See CA_n2600 BCS 0 in Table 5.5A.1-2 [2] CA_n260G BCS 0 in Table 5.5A.2-1 [2] See CA_n260(2O) in Table 5.5A.2-1 [2] See CA_n260G BCS 0 in Table 5.5A.1-2 [2] See CA_n260O BCS 0 in Table 5.5A.1-2 [2] See CA_n260O BCS 0 in Table 5.5A.1-2 [2] See CA_n260O BCS 0 in Table 5.5A.1-3 See CA_n260CA_n260CA_n260CA_n260CA_n260CA_n260CA_n260CA_n260CA_n260CA_n260CA_n260CA_n260CA_n260CA_n260CA_n260CA_n260CA_n260CA_n260CA_n260CA_n260CA_n260CA_n260CA_n260CA_n260CA_n260CA_n260CA_n260CA_n260CA_n260CA_n260CA_n260CA_n260CA_n260CA_n260CA_n260CA_n260CA_n260CA_n260CA_n260CA_n260CA_n260CA_n260CA_n260CA_n260CA_n260CA_n260CA_n260CA_n260CA_n260CA_n260CA_n260CA_n260CA_n260CA_n260CA_n260CA_n260CA_n260CA_n260CA_n260CA_n260CA_n260CA_n260CA_n260CA_n260CA_n260CA_n260CA_n260CA_n260CA_n260CA_n260CA_n260CA_n260CA_n260CA_n260CA_n260CA_n260CA_n260CA_n260CA_n260CA_n260CA_n260CA_n260CA_n260CA_n260CA_n260CA_n260CA_n260CA_n260CA_n260CA_n260CA_n260CA_n260CA_n260CA_n260CA_n260CA_n260CA_n260CA_n260CA_n260CA_n260CA_n260CA_n260CA_n260CA_n260CA_n260CA_n260CA_n260CA_n260CA_n260CA_n260CA_n260CA_n260CA_n260CA_n260CA_n260CA_n260CA_n260CA_n260CA_n260CA_n260CA_n260CA_n260CA_n260CA_n260CA_n260CA_n260CA_n260CA_n260CA_n260CA_n260CA_n260CA_n260CA_n260CA_n260CA_n260CA_n260CA_n260CA_n260CA_n260CA_n260CA_n260CA_n260CA_n260CA_n260CA_n260CA_n260CA_n260CA_n260CA_n260CA_n260CA_n260CA_n260CA_n260CA_n260CA_n260CA_n260CA_n260CA_n260CA_n260CA_n260CA_n260CA_n260CA_n260CA_n260CA_n260CA_n260CA_n260CA_n260CA_n260CA_n260CA_n260CA_n260CA_n260CA_n260CA_n260CA_n260CA_n260CA_n260CA_n260CA_n260CA_n260CA_n260CA_n260CA_n260CA_n260CA_n260CA_n260CA_n260CA_n260CA_n260CA_n260CA_n	See CA_n260(2P) in Table 5.5A.2-1 [2] See CA_n260D BCS 0 in Table 5.5A.2-1 [2] See CA_n260(2G) in Table 5.5A.2-1 [2] See CA_n260(2G) in Table 5.5A.2-1 [2] See CA_n260(2D) in Table 8.1-x1 above See CA_n260 BCS 0 in Table 5.5A.1-2 [2] CA_n260G BCS 0 in Table 5.5A.2-1 [2] See CA_n260(2O) in Table 5.5A.2-1 [2] CA_n260G BCS 0 in Table 5.5A.2-1 [2] See CA_n260(2O) in Table 5.5A.2-1 [2] See CA_n260(3O) in Table 5.5A.2-1 [2] See CA_n260O BCS 0 in Table 5.5A.1-2 [2] See CA_n260O BCS 0 in Table 5.5A.1-2 [2]	CA_n260(2A) [2] See CA_n260(2P) in Table 5.5A.2	See CA_n260(2A) [2] See CA_n260(2P) in Table 5.5A.2-1 [2] See CA_n260D BCS 0 in Table 5.5A.1-2 [2] See CA_n260D BCS 0 in Table 5.5A.2-1 [2] See CA_n260D BCS 0 in Table 5.5A.1-2 [2] See CA_n260D BCS 0 in Tab	See CA_n260(2A) [2] See CA_n260(2P) in Table 5.5A.2-1 [2] CA_n260(2A) [2]

		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_n26 in Table 5.	800
		See CA_n2600 BCS 0 in Table 5.5A.1-2 [2]	See CA_n260(2H) ir	-1 [2]		

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

							NR CA	configura	tion / set					
NR configuration	Uplink CA configu rations	CA configu											Maximum aggregate d bandwidth (MHz)	
		Channel bandwidths for carrier (MHz)	Channel bandwid ths for carrier (MHz)	Channel bandwid ths for carrier (MHz)	Channel bandwid ths for carrier (MHz)	Channel bandwid ths for carrier (MHz)	Channel bandwid ths for carrier (MHz)	Channel bandwid ths for carrier (MHz)	Channel bandwid ths for carrier (MHz)	Channel bandwid ths for carrier (MHz)	Channel bandwid ths for carrier (MHz)	Channel bandwid ths for carrier (MHz)	Channel bandwid ths for carrier (MHz)	
CA_n260(3A-3O)	-	CA_i	n260(3A) [2]		See CA_	n260(3O)	n Table 5.	5A.2-1 [2]					1800
		5	See CA_n2	260(3O) in	Table 5.5	A.2-1 [2]		CA	_n260(3A) [2]				
		See CA_n2	260(2G) in	Table 5.5	A.2-1 [2]		See CA_	n260(3O)	in Table 5	.5A.2-1 [2]				
CA_n260(2G-3O)	-	5	See CA_n260(3O) in Table 5.5A.2-1 [2] See CA_n260(2G) in Table 5.5A.2-1 [2]										1000	
CA_n260(G-4O)		BCS 0 in	ee CA_n260G CS 0 in Table 5.5A.1-2 [2]											1000

	-	See C	CA_n260(4O) in Table	e 5.5A.2-1 [2]		A_n260G BCS 0 in ble 5.5A.1-2 [2]			
04 -000/00 40)		See CA_n260(2G) in	Table 5.5A.2-1 [2]	See CA_	n260(4O)				
CA_n260(2G-4O)	-	\$	See CA_n260(4O) in	Table 5.5A.2-1 [2]		See CA_n260(2G	in Table : 2]	5.5A.2-1	1200
CA_n260(4G-O)		S	ee 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	9			.333

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											
configuration	Comigurations	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 CA n260O		261(3A) BCS 5.5A.2-1 in [2			260O BCS0 5A.1-1 in [2]	See CA_	1700						
	CA_n260P	See CA_n260P BCS0 in Table See CA_n261(3A) BCS0 in Table See CA_n260O BCS0 in Table 5.5A.1-1 in [2] 5.5A.2-1 in [2] See CA_n260O BCS0 in Table in Table 5.5A.1-1 in [2]												

	See CA_n261(3A) BCS0 in Table 260P BCS0 in Table 5.5A.2-1 in [2]
--	------------------------------------------------------------------

Table 8.2-9: Supported bandwidth combinations for n260(A-P) (Max #CC≤8)

			N	R CA config	guration / B	andwidth co	mbination s	et		
NR CA	Uplink CA		Compo	onent carrie	of increasing	g carrier fre	quency		Maximum aggregated bandwidth [MHz]	
configuration	configurations	CBW for carrier (MHz)	CBW for carrier (MHz)	CBW for carrier (MHz)	CBW for carrier (MHz)	CBW for carrier (MHz)	CBW for carrier (MHz)	carrier carrier		
		See n260A Channel Bandwidth in Table 5.3.5-1 in [2]		n260P BCS(5.5A.1-1 in [2		See CA_n	260Q BCS0	in Table 5.5	A.1-1 in [2]	
CA_n260(A-P-Q)	n260A CA_n260P CA_n260Q	See CA_n2	260Q BCS0	in Table 5.5 <i>⊦</i>	A.1-1 in [2]	See n260A Channel Bandwidth in Table 5.3.5-1 in [2]		_n260P BCS 5.5A.1-1 in [1100
			n260P BCS0 .5A.1-1 in [2		See CA_r	n260Q BCS0	in Table 5.5	A.1-1 in [2]	See n260A Channel Bandwidth in Table 5.3.5-1 in [2]	

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

								NF	R CA co	nfigurat	ion / set	t					
NR configuration	Uplink CA configu rations				C	ompone	nt carrie	rs orde	r of incr	easing o	carrier f	requend	Çy				Maximum aggregated bandwidth (MHz)
		CBW for carrier (MHz)	CBW for carrier (MHz)	CBW for carrier (MHz)	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)	for carrier (MHz)	CBW for carrier (MHz)	CBW for carrier (MHz)	for carrier (MHz)	CBW for carrier (MHz)	
		Se CA_n26 BCS0 ir 5.5A.2-	60(2A) n Table	See		CA_n260(2O) in Table 8.1-5 in [3]											
CA_n260(2A-2G- 2O)				See CA_n260(2O) in Ta 8.1-5 in [3]			CA_n2 BCS0	ee 260(2A) in Table -1 in [2]	See (0(2G) in Table 3 in [3]						1600
			A_n260 8.1-3	(2G) in ¹ in [3]	Table	See	CA_n260 8.1-5		Table	CA_n2 BCS Table	ee 260(2A) 30 in 5.5A.2- n [2]						
		Se CA_n20 BCS0 ir 5.5A.2-	60(2A) n Table	ble See CA_11260(4P)						Table 8.	.1-6-1 at	oove					
CA_n260(2A-4P)	n260A	See CA_n260(4P) in Table 8.1-6-1 above See CA_n260(2A) BCS0 in Table 5.5A.2- 1 in [2]									2000						

		See CA_n260(2A) BCS0 in Table 5.5A.2-1 in [2]		0(2O) in Table 5 in [3]	See	CA_n260(2Q) ir	n Table 8.1-x-2 a	bove			
CA_n260(2A-2O- 2Q)	n260A	See	CA_n260(2Q) ir	n Table 8.1-x-2 ab	ove	See CA_n260(2A) BCS0 in Table 5.5A.2- 1 in [2]	See CA_n26(8.1-5	0(20) in Ta i in [3]	able		2000
		See CA_n260 8.1-5		See	CA_n260(2Q) in	Table 8.1-x-2 at	oove	See CA_n260 BCS0 Table 5.5 1 in [2	0(2A) in 5A.2-		
CA_n260(4A-2Q)	n260A	See CA_n260 5.5A.2-		See	CA_n260(2Q) in	Table 8.1-x-2 at	oove				2400
o. <u>-</u> oo(u,	112007	See	CA_n260(2Q) ir	Table 8.1-x-2 ab	See CA_n260(4A) in Table 5.5A.2-1 in [2]						2400
		See CA_n260(2A) BCS0 in Table 5.5A.2-1 in [2]		0(20) in Table 5 in [3]							
CA_n260(2A-2O- 2P)	n260A	See CA_n2	260(2P) in Table	8.1-6 in [3]	See CA_n260(2A) BCS0 in Table 5.5A.2- 1 in [2]		0(20) in Table in [3]				1800
		See CA_n260 8.1-5		See CA_n2	60(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	
	HZOOA	See CA_n260(4O)	See CA_n260 5.5A.2-	Table			2400				
CA_n260(6A-2O)	n260A	See CA_n260(6A) in Table	See CA_n260(6A) in Table 8.1-1 in [3] 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(6A) in Table 8.1-1 in [3]						2450 ¹		
		See CA_n260(2O) in Table 8.1-5 in [3]								2400	
CA_n260(6A-3O)	n260A	See CA_n260(6A) in Table	See CA_n260(3O) in Table 8.1-5 in [3]						2600¹		
	1120071	See CA_n260(3O) in Table	See CA_n260(6A) in Table 8.1-1 in [3]						2000		
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]						2650¹	
		See CA_n260(2P) in Table	See CA_n260(6A) in Table 8.1-1 in [3]						2000		
CA_n260(8A-2O)	n260A	See CA_n260(8A)	in Table 8.1-1 in	[3]	See CA_n260 8.1-5	0(2O) in in [3]	Table			2550 ¹	
	HZOOA	See CA_n260(2O) in Table 8.1-5 in [3]	Se	e CA_n260(8A) ii	8A) in Table 8.1-1 in [3]					2000	
CA_n260(2O-2P)	n260A	n260A	See CA_n260(2O) in Table 8.1-5 in [3]	See CA_n2	260(2P) in Table 8	8.1-6 in [3]					1000
		See CA_n260(2P) in Table 8.		8.1-6 in [3]	See CA_n260 8.1-5						.000

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 configu rations	Component carriers order of increasing carrier frequency												Maximum aggregated bandwidth (MHz)		
		CBW CBW for carrier (MHz) (MHz)	CBW for carrier (MHz)	CBW for carrier (MHz)	CBW for carrier (MHz)	CBW for carrier (MHz)	CBW for carrier (MHz)	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)		See CA_n260(2A) BCS0 in Table 5.5A.2-1 in [2]	See		0(2G) in 3 in [3]	Table	CA_n	260(2O) in	in Table [3]	e 8.1-5						
	n260A	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 8.1-3 in [3			Table						1600
		See CA_n260 8.1-3		Table	See	CA_n260 8.1-5		Table	CA_n2 BCS Table	ee 260(2A) S0 in 5.5A.2- n [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)		See CA_n260(2A) BCS0 in Table 5.5A.2-1 in [2]		0(2O) in Table 5 in [3] See CA_n260(2Q) in Table 8.1-x-2 above							
	n260A	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(2A) 8.1-5 i							Table		2000
		See CA_n260 8.1-5		See	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
0/ <u>(</u>		See	CA_n260(2Q) ir	n Table 8.1-x-2 ab	0(4A) in Table -1 in [2]				2400		
CA_n260(2A-2O- 2P)	·O-	See CA_n260(2A) BCS0 in Table 5.5A.2-1 in [2]		0(2O) in Table 5 in [3]	See CA_n260(2P) in Table 8.1-6 in [3]						
	n260A See CA_n260(2P) in Table 8.1		8.1-6 in [3]	See CA_n260(2A) BCS0 in Table 5.5A.2- 1 in [2]		0(2O) in Table in [3]				1800	

										 ,															
		See CA_n260(2O) in Table 8.1-5 in [3]					ee 60(2A) 60 in 5.5A.2- n [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															
S.(_11200(+)(+O)		See CA_n260(4O) in Table 8.1-5 in [3] See CA_n 5.5A					Table			2400															
CA_n260(6A-2O)	n260A	See CA_n260(6A) in Table	See CA_n260(6A) in Table 8.1-1 in [3] See CA_n260(2O) in Table 8.1-5 in [3]							2450¹															
_ , ,		See CA_n260(2O) in Table 8.1-5 in [3]	8.1-1 in [3]																						
CA_n260(6A-3O)	n260A	See CA_n260(6A) in Table	260(3O) in Table	8.1-5 in	[3]			2600¹																	
_		See CA_n260(3O) in Table	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_n2	8.1-6 in	[3]			2650¹																
. <u>_</u> ,		See CA_n260(2P) in Table	260(6A) in Table	n Table 8.1-1 in [3]				2000																	
CA_n260(8A-2O)	n260A	See CA_n260(8A)	in Table 8.1-1 in	Table 8.1-1 in [3] See CA_n260(8.1-5 i						2550¹															
3.1_11200(0/1 20)		See CA_n260(2O) in Table 8.1-5 in [3]	n Table 8.1-1 in	[3]				2000																	
CA_n260(2O-2P)	n260A	n260A	n260A	n260A	n260A	n260A	n260A	n260A	n260A	n260A	n260A	n260A	n260A	n260^	n260A	n260A	See CA_n260(2O) in Table 8.1-5 in [3]	See CA_n2	60(2P) in Table 8	8.1-6 in [3]					1000
		See CA_n260(2P) in Table	8.1-6 in [3]	See CA_n260 8.1-5						1300															

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 configur	ation / Band	lwidth comb	ination set			
				Compo	onent carrie	rs in order o	of increasing	carrier frec	quency			
NR configuration	Uplink CA configurations	scs	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
CA_11201(211)	-	120	100	100	50, 100	100	100	50, 100			600	3
CA_n261(2I)	_	60	100	100	100	50, 100	100	100	100	50, 100	800	3
CA_11201(21)	-	120	100	100	100	50, 100	100	100	100	50, 100	800	J

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

							N	IR CA co	nfigurat	ion / Bar	ndwidth o	combina	tion set					
NR CA	Uplink CA					Com	ponent c	arriers in	n order d	of increas	sing carr	ier frequ	iency				Aggregated	Fallback
configuration	configurations	SCS	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)	BW (MHz)	group
			· , ,	(IVITIZ)	` '	(IVITIZ)	(141112)	(141112)	(1411172)	(IVITIZ)	(IVITIZ)	(IVITIZ)	(IVITIZ)	(141112)	(IVITIZ)	(IVITIZ)		
GA 261(2D)	2614	60	50, 100, 200	200	50, 100, 200	200											800	0
CA_n261(2D)	n261A	120	200	50, 100, 200	200	50, 100, 200											800	2

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

							N	R CA co	nfigurati	ion / Bar	dwidth (combina	tion set					
NR CA	Uplink CA					Com	ponent c	arriers i	n order c	f increas	sing carı	rier frequ	ency				Aggregated	Fallback
configuration	configurations	SCS	CBW (MHz)	BW (MHz)	group													
GA 261(2G)	2614	60	100	50, 100	100	50, 100											400	0
CA_n261(2G)	n261A	120	50, 100	100	50, 100	100											400	3
CA =261(2C)	n261A	60	100	50, 100	100	50, 100	100	50, 100									600	3
CA_n261(3G)	11201A	120	50, 100	100	50, 100	100	50, 100	100									600	3
CA =261(4C)	m261 A	60	100	50, 100	100	50, 100	100	50, 100	100	50, 100							700 ¹	3
CA_n261(4G)	n261A	120	50, 100	100	50, 100	100	50, 100	100	50, 100	100							700¹	3

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

							N	IR CA co	nfigurati	ion / Bar	ndwidth (combina	tion set					
NR CA	Uplink CA					Com	ponent c	arriers i	n order c	f increa	sing carr	rier frequ	iency				Aggragated	Fallback
configuration	configurations	SCS	CBW (MHz)	Aggregated BW (MHz)	group													
CA =261(20)	261 A	60	50, 100	50, 100	50, 100	50, 100											400	4
CA_n261(2O)	n261A	120	50, 100	50, 100	50, 100	50, 100											400	4
CA =261(40)	n261A	60	50, 100							700¹	4							
CA_n261(4O)	11201A	120	50, 100							700¹	4							
CA_n261(7O)	n261A	60	50, 100	550 ¹	4													

							N	IR CA co	nfigurat	ion / Ban	dwidth o	combina	tion set					
NR CA	Uplink CA					Com	ponent c	arriers i	n order c	f increas	sing carr	ier frequ	iency				Aggregated	Fallback
configuration	configurations	SCS	CBW	CBW	CBW	CBW	CBW	CBW	CBW	CBW	CBW	CBW	CBW	CBW	CBW	CBW	Aggregated BW (MHz)	group
oomigaramon	oomigaranono		(MHz)	(MHz)	(MHz)	(MHz)	(MHz)	(MHz)	(MHz)	(MHz)	(MHz)	(MHz)	(MHz)	(MHz)	(MHz)	(MHz)	211 (2)	9.046
		120	50,	50,	50,	50,	50,	50,	50,	50,	50,	50,	50,	50,	50,	50,	5501	
		120	100	100	100	100	100	100	100	100	100	100	100	100	100	100	550¹	
Note 1: The max	ximum bandwidth	of band	n261 is 8	350MHz	and a nor	n-contigu	ous gap	is in betw	een NR	compone	nt carrier	s				•		

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

							N	R CA co	nfigurat	ion / Ban	dwidth o	ombina	tion set					
NR CA	Uplink CA					Com	ponent c	arriers iı	n order d	of increas	sing carr	ier frequ	iency				Aggregated	Fallback
configuration	configurations	SCS	CBW (MHz)	BW (MHz)	group													
CA =261(2D)	261 A	60	50, 100	50, 100	50, 100	50, 100	50, 100	50, 100									600	4
CA_n261(2P)	n261A	120	50, 100	50, 100	50, 100	50, 100	50, 100	50, 100									600	4

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

							N	IR CA co	nfigurat	ion / Ban	dwidth (combina	tion set					
NR CA	Uplink CA					Com	ponent c	arriers i	n order d	of increas	sing carr	ier frequ	iency				Aggregated	Fallback
configuration	configurations	SCS	CBW (MHz)	BW (MHz)	group													
CA n261(20)	n261A	60	50, 100	50, 100,	50, 100	50, 100	50, 100	50, 100,	50, 100	50, 100	(111112)	(111112)	(141112)	(141112)	(141112)	(141112)	800	4
CA_n261(2Q)	n261A	120	50, 100	50, 100,	50, 100	50, 100	50, 100	50, 100,	50, 100	50, 100							800	4

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 config	uration / Bandv	width combina	tion set			
NR configuration	Uplink CA configurations (NOTE 1)		(Component car	riers in order o	f increasing ca	rrier 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_n261	H Bandwidth Co o 2 in Table 5.5A	mbination	,	,			700	
			H Bandwidth Co o 2 in Table 5.5/		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_n261 Table 5.5A.1-2	I Bandwidth Con 2 of 38.101-2		ck group 3 in				800	
3.11.23.(7.1)		See CA_n261 Table 5.5A.1-:		mbination Fallba	ck group 3 in	See CA_n261A Bandwidth Combination in Table 5.3A.4-1 of 38.101-2					

					NR C	A configuration	n / set			
NR configuration	Uplink CA configurations (NOTE 1)			Component ca	arriers order of	increasing ca	rrier frequency	/		Maximum aggregated bandwidth (MHz)
		Channel bandwidths for carrier (MHz)	(2)							
CA_n261(A-D)	_	CA_n261A	Table 5.	61D BCS 0 in 5A.1-2 [2]						- 800
O/(_11201(// D)		Table 5.5		CA_n261A						000
CA_n261(A-G)	_	CA_n261A	Table 5.	51G BCS 0 in 5A.1-2 [2]						- 600
CA_11201(A-G)	_	Table 5.	61G BCS 0 in 5A.1-2 [2]	CA_n261A						000
CA_n261(G-I)			61G BCS 0 in 5A.1-2 [2]	See C	A_n261I BCS () in Table 5.5A.				600
CA_IIZ01(G-I)	-	See C	CA_n261I BCS	0 in Table 5.5A.	1-2 [2]		31G BCS 0 in 5A.1-2 [2]			000
CA =261/U I)		See CA_n26	61H BCS 0 in T [2]	able 5.5A.1-2	See C	CA_n261I BCS (0 in Table 5.5A	.1-2 [2]		700
CA_n261(H-I)	-	See C	A_n261I BCS (0 in Table 5.5A.	1-2 [2]	See CA_n26	61H BCS 0 in Ta [2]	able 5.5A.1-2		700
OA ==004(O.11)		_	61G BCS 0 in 5A.1-2 [2]	See CA_n26	61H BCS 0 in Ta [2]	able 5.5A.1-2				500
CA_n261(G-H)	-	See CA_n26	61H BCS 0 in Ta [2]	able 5.5A.1-2		61G BCS 0 in 5A.1-2 [2]				500
CA_n261(A-D-		CA_n261A	_	61D BCS 0 in 5A.1-2 [2]	See CA_n26	31H BCS 0 in Ta [2]	able 5.5A.1-2			7501
H) `	-	See CA_n26	1H BCS 0 in T [2]	able 5.5A.1-2		31D BCS 0 in 5A.1-2 [2]	CA_n261A			750 ¹
CA_n261(A-G-		CA_n261A		51G BCS 0 in 5A.1-2 [2]		31H BCS 0 in Ta [2]	able 5.5A.1-2			7001
H)	-	See CA_n26	61H BCS 0 in T			31G BCS 0 in 5A.1-2 [2]	CA_n261A			- 700¹
CA_n261(A-G-		CA_n261A	See CA_n26	51G BCS 0 in 5A.1-2 [2]		CA_n261I BCS (0 in Table 5.5A.	1-2 [2]		
I)	-	See C		0 in Table 5.5A	.1-2 [2]		61G BCS 0 in 5A.1-2 [2]	CA_n261A		- 700¹

CA_n261(A-H-		CA_n261A	See CA_n261H BCS 0 in Table 5.5A.1-2 [2]	See CA_n261I BCS () in Table 5.5A.	1-2 [2]	750 ¹
l)	-	See C	A_n261I BCS 0 in Table 5.5A.1-2 [2]	See CA_n261H BCS 0 in Ta [2]	able 5.5A.1-2	CA_n261A	750
CA p261(A 2H)		CA_n261A	See CA_n261(2H) ii	n Table 5.5A.1-2 [2]			700¹
CA_n261(A-2H)			See CA_n261(2H) in Table 5.5A.1-	2 [2]	CA_n261A		700
Note 1: The maxi	mum bandwidth of	band n261 is 8	350MHz 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	configur	ation / se	t				
NR configuration	Uplin k CA confi gurati ons			(Compone	nt carriers	s order of	increasin	ng carrier	frequency	/			Maximum aggregate d bandwidt h (MHz)
		Channel bandwidt hs for carrier (MHz)												
CA_n261(A-2I)	_	CA_n261A			See CA_r	n261(2I) in	Table 8.3	-x1 above						750 ¹
5/ <u>(</u> 25 (/ (21)	_			See CA_r	n261(2I) in	Table 8.3	-x1 above			CA_n261A				1 730
Note 1: The max	imum bar	ndwidth of	band n26	1 is 850MH	Iz and a n	on-contigu	lous gap is	s between	NR comp	onent carr	iers		<u> </u>	1

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

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

	configu rations																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)	for carrier (MHz)	CBW for carrier (MHz)	CBW for carrier (MHz)	CBW for carrier (MHz)	for carrier (MHz)	CBW for carrier (MHz)	CBW for carrier (MHz)	CBW for carrier (MHz)	CBW for carrier (MHz)	
CA_n261(A-2D)	2D) n261A	See n261A in Table 5.3A.4 -1 in [2]	See	CA_n261 8.3-x-1	I(2D) in above	Table											750¹
		See CA_n261(2D) in Table 8.3-x-1 above See n261 A 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_n	261(2G) 2 ab	in Table bove	e 8.3-x-	See (CA_n261 8.3-x-3	(2O) in sabove	Table							650 ¹
	n261A	See C	CA_n261 8.3-x-3	(2O) in I above	Гable	See n261 A in Table 5.3A. 4-1 in [2]	CA_n2	261(2G) 2 ab	in Table pove	8.3-x-							550

			G) in Table 8.3- : above	x-2 See CA_n26 8.3-x-	1(2O) in T a 3 above	able	See n261 A in Table 5.3A. 4-1 in [2]					
		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]									
CA_n261(A-3G- O)	n261A	See CA_n261O i Table 5.5A.1 in [2]		n261 A in Table See CA_n261(3G) in Table 8.3-x-2 above 5.3A. 4-1 in			oove					650 ¹
		See CA_n	n261(3G) in Ta b	le 8.3-x-2 above	See CA_n26° Table 5.9 1 in [3	10 in 5A.1-	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

Noicase 10			02							(2020 00)
			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)	- 5	See n261A in Table 5.3A.4 -1 in [2]	See CA_n261(4O) in Table 8.3-x-3 above	in Table 8.3-x-3 above						650¹
CA_11201(A-40)			See CA_n261(4O) in Table 8.3-x-3 above	See n261 A in Table 5.3A. 4-1 in [2]					050	
CA_n261(A-70)	n261A	See n261A in Table 5.3A.4 -1 in [2]	See CA_n261(7O) in Table 8.3-x-3 above							500¹
CA_n261(A-70)	n261A	See CA_n261(7O) in Table 8.3-x-3 above							See n261 A in Table 5.3A. 4-1 in [2]	500

	1					1					1	, ,
CA_n261(A-2P)	n261A	See n261A in Table 5.3A.4 -1 in [2]	See CA_n26	1(2P) in Table 8.3-x-4	P) in Table 8.3-x-4 above							750¹
		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)	- - -	See n261A in Table 5.3A.4 -1 in [2]	See	CA_n261(2Q) in Table	CA_n261(2Q) in Table 8.3-x-5 above							750¹
			See CA_n26′	1(2Q) in Table 8.3-x-5 a	above		See n261 A in Table 5.3A. 4-1 in [2]					100
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 8.3-x-3 above	Table							700 ¹

See CA_n261(2O) in Table 8.3-x-3 above		See n261 A in Table 5.3A. 4-1 in [2]	CA_n2 Table	ee 61D in 5.5A.1- n [2]					
See CA_n261D in Table 5.5A.1-2 in [2]	See CA_n261 8.3-x- 3	See CA_n261(2O) in T 8.3-x-3 above							

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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		0.1.0					
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	R4- 1904402	Implemented TP's from RAN4 #90:	0.3.0	0.4.0
	#90bis	1904402	R4-1901419, "TP for 38.716-01-01 for updated scope from RAN #82", Ericsson		
			R4-1901422, "TP for TR 38.716-01-01 for symbols and abbreviations", Ericsson		
			R4-1902123, "NR Intra-band non-contiguous CA n260 and n261", Verizon, Ericsson		
2019-05	3GPP	R4-	Implemented TP's from RAN4 #90bis:	0.4.0	0.5.0
	RAN4 #91	1906734	R4-1904404, "TP for 38.716-01-01 for updated scope from RAN #83", Ericsson		
			R4-1903187, "Updated TP for TR 38.716-01-01 for DL_n41(2A)_UL_n41A", Huawei, HiSilicon		
			R4-1904540, "TP for TR 38.716-01-01: CA_n25(2A)", Sprint Corporation		
2019-08	3GPP RAN4	R4- 1909784	Implemented TP's from RAN4 #91:	0.5.0	0.6.0
	#92	1909764	R4-1907464, "TP for TR 38.716-01-01: CA_n48B and CA_n48C", Samsung		
			R4-1905414, "TP for TR 38.716-01-01: CA_n48(2A)", Samsung		
2019-10	3GPP RAN4	R4- 1912234	Implemented TP's from RAN4 #92:	0.6.0	0.7.0
	#92bis	1912234	R4-1910204, "TP for TR 38.716-01-01 for updated scope from RAN #84", Ericsson		
			R4-1910298, "TP for 38.716-01-01 CA_n25(2A) REFSENS", Sprint Corporation		
			R4-1908935, "TP for TR 38.716-01-01: DL_n1B_UL_n1A", Huawei, HiSilicon		
			R4-1909895, "TP for 38.716-01-01: CA_n41C and CA_n41(2A) BCS1", Sprint Corporation		

2019-11	3GPP RAN4	R4- 1914682	Implemented TP's from RAN4 #92bis:	0.7.0	0.8.0
	#93	1914002	R4-1912236, "TP for TR 38.716-01-01 for updated scope from RAN #85", Ericsson		
			R4-1911471, "TP for TR 38.716-01-01: DL_n3(2A)_UL_n3A", Huawei, HiSilicon		
			R4-1912612, "TP for TR 38.716-01-01: DL_n7(2A)_UL_n7A", Huawei, HiSilicon		
			R4-1912278, "TP for TR 38.716-01-01 to include CA_n7B", Ericsson, Telstra		
			R4-1912564, "TP for TR 38 716-01-01 to include UL n258B - n258M", Ericsson, Telstra		
2020-02	3GPP RAN4	R4- 2001502	Implemented TP's from RAN4 #93:	0.8.0	0.9.0
	#94	2001302	R4-1914300, "updated TP for TR 38.716-01-01: DL_n3(2A)_UL_n3A", Huawei, HiSilicon		
			R4-1915632, "TP for TR 38.716-01-01 to include CA_n7B UL", Ericsson, Telstra		
2020-04	3GPP RAN4	R4- 2004576	Implemented TP's from RAN4 #94:	0.9.0	0.10.0
	#94 bis	2004070	R4-2001506, "TP for TR 38.716-01-01 for updated scope from RAN #86", Ericsson		
2020-05	3GPP RAN4	R4- 2005867	Implemented TP's from RAN4 #94bis:	0.10.0	0.11.0
	#95	2003607	R4-2004579, "TP for TR 38.716-01-01 for updated scope from RAN #87", Ericsson		
			R4-2003159, "TP for TR 38.716-01-01: CA_n41B_UL_n41B", Samsung, KDDI		
			R4-2005137, "TP for TR 38.716-01-01 for CA_n48(3A) and CA_n48(4A)", Charter Communications, Inc		
			R4-2005144, "Updated TP for TR 38.716-01-01: to add BCS1 for CA_n71B", Huawei, HiSilicon, CITC		
			R4-2005725, "TP on Inclusion of NR-U standalone combinations in TR 38 716-01-01", Ericsson		
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	RP-200660	No TP's implemented. Presented for approval at RAN	0.12.0	1.0.0
	RAN #88		plenary.		

	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					