**3GPP TSG-RAN WG2 Meeting #113bis-e R2-210xxxx**

**Online, April 12 – April 20, 2021**

**Agenda Item: 5.4.3**

**Source: Huawei, HiSilicon**

**Title: Summary of [AT113bis-e][009][NR15] UE caps BCS EN-DC (Huawei)**

**Document for: Discussion and decision**

# Introduction

This document summarizes the following offline discussion.

**[AT113bis-e][009][NR15] UE caps BCS EN-DC (Huawei)**

START ONLY AFTER ON-line Monday

 Scope: Taking into account on-line agreements, Treat R2-2104025, R2-2103061, R2-2104030, R2-2104212, R2-2104213, R2-2104214, R2-2104026, R2-2104027, R2-2104028,

 Phase 1, determine agreeable parts, Phase 2, for agreeable parts Work on CRs.

 Intended outcome: Report and Agreed-in-principle CRs, Approved LS if agreeable.

 Deadline: Schedule A

# Contact from companies

|  |  |
| --- | --- |
| Company | Email |
| Apple | naveen.palle@apple.com |
| ZTE | li.wenting@zte.com.cn |
| Huawei, HiSilicon | kuangyiru@huawei.com |
| MediaTek | Chun-fan.tsai@mediatek.com |
| OPPO | qianxi.lu@oppo.com |
| Qualcomm Incorporated | mkitazoe@qti.qualcomm.com |
| Samsung | seungri.jin@samsung.com |
| Ericsson | Hakan.l.palm@ericsson.com |
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# Discussion (Phase 1)

## Clarification on the BCS and its fallback

[R2-2104025](file:///D%3A%5CDocuments%5C3GPP%5Ctsg_ran%5CWG2%5CTSGR2_113bis-e%5CDocs%5CR2-2104025.zip) Discussion on BCS of a fallback band combination Huawei, HiSilicon discussion Rel-15 NR\_newRAT-Core

[R2-2104212](file:///D%3A%5CDocuments%5C3GPP%5Ctsg_ran%5CWG2%5CTSGR2_113bis-e%5CDocs%5CR2-2104212.zip) Further Clarification on the supportedBandwidthCombinationSet ZTE Corporation, Sanechips discussion Rel-15 NG\_RAN\_PRN-Core

### 3.1.1 BCS of a fallback band combination (online)

**Companies are invited to provide the comments directly to the draft LS (once available).**

[Ericsson] Since the concept of fallback band combinations and the specification thereof is RAN2’s responsibility, we should discuss the matter more carefully before involving other groups (if at all).

For the reasons listed below we believe that **the current RAN2 specifications unambiguously enforce that the channel bandwidths of a fallback BC are determined by the bandwidth combination set (BCS) that the UE supports for the explicitly signalled parent BC** (this is what [R2-2104025](http://www.3gpp.org/ftp/tsg_ran/WG2_RL2//TSGR2_113bis-e/Docs//R2-2104025.zip) refers to as second option).

1) 38.306 defines fallback band combinations as follows: “*A Uu band combination that would result from another Uu band combination* ***by releasing at least one SCell*** *or uplink configuration of SCell, or SCG. ... An intra-band non-contiguous band combination is not considered to be a fallback band combination of an intra-band contiguous band combination*”. Hence, any carrier bandwidths that are allowed when the NW configures all carriers supported by the parent BC are also allowed when the NW configures just a subset (“fallback”) of those carriers. In our view this definition is sufficiently clear and leaves no room for any other interpretation.

2) RAN2 discussed the same issue recently in “[Post113-e][206][LTE] Clarification to Fallback band combination definition” and concluided the following:

* *RAN2 confirms that fallback band combination supports the carriers’ bandwidth(s) that are the same as the carriers’ bandwidth(s) of the signaled parent band combination.*

NR inherited the “fallback concept” from LTE. Hence the same should apply for NR.

3) The BCS IDs defined in 38.101-1/2/3 do not have a consistent meaning across parent and fallback combinations. This is the natural consequence of how band combinations are defined and hardly avoidable. In the following example the BCS#**0** of the parent BC CA\_n2A-n78(2A) inherits the BCS#**1** of the inner BC CA\_n78(2A):



… where the inner BC is defined as follows:



If UE reports support for CA\_n2A-n78(2A) BCS#0 it thereby indicates that it supports the bandwidths [10, 20, 25, 30, 40, 50, 60, 80, 90, 100] on the two n78 carriers (BCS#1). The network may configure those two n78 carriers in combination with the n2 carrier. But, because of the fallback rules, it may also configure only the two n78 carriers. And also in that case the UE shall still support the same carrier bandwdiths [10, 20, 25, 30, 40, 50, 60, 80, 90, 100]. In other words, the BCS ID (#0) given by the UE in its signalled parent BC cannot be used to lookup supported carrier bandwidths in the RAN4 row of the implicit fallback combinations (CA\_n78(2A) BCS#1).

It should be noted that also the opposite is true if RAN4 defined a BCS ID for a BC but did not (yet) define that BCS ID for all of its child BCs. If the interpretation 1 promoted in [R2-2104025](http://www.3gpp.org/ftp/tsg_ran/WG2_RL2//TSGR2_113bis-e/Docs//R2-2104025.zip) was applied, the UE would be mandated to support a BCS (i.e., carrier bandwidths) of the child combination which RAN4 has not yet defined. And if RAN4 defines that BCS ID for the child BC later, it would expect also legacy UEs to support those bandwidths. Obviously, this is NBC. For example, a (parent) BC may today have a BCS#0 and BCS#1 defined, but the fallback only has BCS#0 defined, with interpretation 1 a UE built today which supports BSC#1 for the parent band combination would have to support (the currently non-existing) BCS#1 for the fallback. RAN2 has already concluded that the UE cannot indicate support for a yet-not-defined BW, and similarly, the UE cannot indicate support for a yet-not-defined BCS. Just imagine if later RAN4 actually defines BCS#1 for the fallback BC and they define it differently from what the UE vendor anticipated/hoped when implemented. It just doesn't work.

And even if a BCS ID is defined for both the parent BC and for all its child BCs, some of the latter may comprise additional carrier bandwidhts which the UE is not able to support. With the interpretation 1 promoted in [R2-2104025](http://www.3gpp.org/ftp/tsg_ran/WG2_RL2//TSGR2_113bis-e/Docs//R2-2104025.zip) such constellations would prevent UEs from advertising the parent BC (with more carriers) just because it cannot support all carrier bandwidhts implied by the same BCS ID for one child BC.

To some degree RAN4 could possibly have tried to avoid such inconsistencies. But it would have complicated the maintenance of the BC/BCS tables in 38.101 even further. And in addition it would have increased the overhead by defining additional BCS rows only to ensure consistency with fallback BCs: In the above-mentioned CA\_n2A-n78(2A) one would have had to introduce a BCS#0 inheriting the BCS#0 of the child BC CA\_n78(2A). And in addition, one would have had to introduce a BCS#1 inheriting the BCS#1 of the child BC.

For a BC inheriting two or more child BCs it would also require defining a new BCS ID for all child BCs with the same bandwidths as another BCS of that child BC just to ensure consistency of the BCS IDs across all fallbacks. Take CA\_n5A-n25(2A)-n66(2A) as an example:



Instead of introducing only the BCS#**0** (referring to CA\_n25(2A) BCS#**0** and CA\_n66(2A) BCS#**1**) one would have had to define a BCS#1 version of CA\_n25(2A) with the same carrier bandwidths as the BCS#0 version. And then one could have introduce a CA\_n5A-n25(2A)-n66(2A) BCS#1 (referring to CA\_n25(2A) BCS#**1** and CA\_n66(2A) BCS#1).

Besides being a lot more complex and heavy in overhead, doing such changes now would also be non-backwards compatible.

For the reasons mentioned above the only possible interpretation is that **the channel bandwidths of a fallback BC are determined by the bandwidth combination set (BCS) that the UE supports for the explicitly signalled parent BC**. In other words, the NW interprets a BCS ID only in combination with the row in the 38.101 tables identified exactly all band parameters that the UE signals in its BC.

Of course, a UE may in addition signal a child BC with the same or different BCS IDs than for a parent BC and thereby offer **additional** carrier bandwidths for that child BC. But in accordance with the definition of fallback BCs, it cannot withdraw carrier bandwidths when configured only according to a fallback BC. These principles are possible and enforced by the interpretation stated above in bold.

### 3.1.2 Intra-band (NG)EN-DC/NE-DC BC with only single NR carrier

The observations and proposals are listed as below:

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| Observation 1: Based on the current field description the BCS for the Intra-band Part of a “Intra-band (NG)EN-DC/NE-DC BC with LTE inter-band CA and NR single carrier” shall be reported in the *supportedBandwidthCombinationSetIntraENDC*.Observation 2: The *supportedBandwidthCombinationSetIntraENDC* was introduced for the case that can’t be covered by *supportedBandwidthCombinationSet*. From this point of view, the BCS for the Intra-band Part of a “Intra-band (NG)EN-DC/NE-DC BC with LTE inter-band CA and NR single carrier” shall be reported in the *supportedBandwidthCombinationSet*.Proposal 1: Ran2 to confirm which capability element (*SupportedBandwidthCombinationSet* or *supportedBandwidthCombinationSetIntraENDC*) shall be adopted to report the intra-band Part of “Intra-band (NG)EN-DC/NE-DC BC with LTE inter-band CA and NR single carrier”.Proposal 1.1: If RAN2 confirm that the *SupportedBandwidthCombinationSet* shall be reported, agree the related change in the draft CR [5][6] |

**Q1-1 Which capability element (*SupportedBandwidthCombinationSet* or *supportedBandwidthCombinationSetIntraENDC*) shall be adopted to report the intra-band Part of “Intra-band (NG)EN-DC/NE-DC BC with LTE inter-band CA and NR single carrier”.**

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| **Company** | ***SupportedBandwidthCombinationSet* or *supportedBandwidthCombinationSetIntraENDC*** | **Comments** |
| Apple | We are not yet sure about the issue, but our view is that with NR single carrier, there is no need for NR part of BCS and so is ***SupportedBandwidthCombinationSet*** sufficient…? |  |
| ZTE | ***SupportedBandwidthCombinationSet***  | 1. @Apple We share the same view that for the case of **“**Intra-band (NG)EN-DC/NE-DC BC with LTE inter-band CA and NR single carrier”, there is no need for NR part of BCS so the ***SupportedBandwidthCombinationSet***  is sufficient, which means the UE shall report the BCS for the intra-band EN-DC part in the ***SupportedBandwidthCombinationSet*** instead of the ***supportedBandwidthCombinationSetIntraENDC.***
2. Furthermore, the original intention of the “***supportedBandwidthCombinationSetIntraENDC***” was introduced to cover the cases that can’t be covered by the “***SupportedBandwidthCombinationSet*** ”, but for the case of “**“**Intra-band (NG)EN-DC/NE-DC BC with LTE inter-band CA and NR single carrier”, as described above, it can be covered by “***SupportedBandwidthCombinationSet*** ”
3. Then back to the current spec, in the “***supportedBandwidthCombinationSetIntraENDC***”, it said “ It is mandatory if the band combination is an intra-band (NG)EN-DC/NE-DC combination supporting both UL and DL intra-band (NG)EN-DC/NE-DC parts with additional inter-band NR/LTE CA component.”

obviously, the **“**Intra-band (NG)EN-DC/NE-DC BC with LTE inter-band CA and NR single carrier” would be also mandatory to report the “*supportedBandwidthCombinationSetIntraENDC*’” That’s why we want to have a clarification on this issue. |
| Huawei, HiSilicon | ***supportedBandwidthCombinationSetIntraENDC*** | We understand the intention is that UE use *supportedBandwidthCombinationSet* only for “intra-band (NG)EN-DC/NE-DC **without additional inter-band NR and LTE CA component**”. So for the case “Intra-band (NG)EN-DC/NE-DC BC **with LTE inter-band CA**”, *supportedBandwidthCombinationSetIntraENDC* should be used. |
| MediaTek | ***supportedBandwidthCombinationSetIntraENDC*** | This is current SPEC and it was the original intention of the agreed option 1 from R2-1913696. |
| Nokia | ***supportedBandwidthCombinationSetIntraENDC*** | ***supportedBandwidthCombinationSetIntraENDC***Defines the supported bandwidth combination set for a band combination that allows configuration of at least one EUTRA serving cell and at least one NR serving cell in the same band, as defined in the TS 38.101-3 [4], table 5.3B.1.2-1 and table 5.3B.1.3-1.- For intra-band (NG)EN-DC with additional inter-band CA component(s) of LTE **and/or** NR |
| OPPO | ***supportedBandwidthCombinationSetIntraENDC*** | we believe this case falls into the scope of “For **intra-band (NG)EN-DC with additional inter-band CA component(s) of LTE and/or NR**, the field defines the bandwidth combinations for the intra-band (NG)EN-DC component.”, so should be covered by ***supportedBandwidthCombinationSetIntraENDC*** |
| Qualcomm Incorporated | ***supportedBandwidthCombinationSetIntraENDC*** | The field description of supportedBandwidthCombinationSetIntraENDC says "For intra-band (NG)EN-DC with additional inter-band CA component(s) of LTE and**/or** NR, the field defines the bandwidth combinations for the intra-band (NG)EN-DC component." |
| Samsung | ***supportedBandwidthCombinationSetIntraENDC*** | Same understanding with Qualcomm that the current description for supportedBandwidthCombinationSetIntraENDC cover this case as well. |
| Ericsson | ***supportedBandwidthCombinationSetIntraENDC for all ENDC BCs*** | The existing (odd) use of *supportedBandwidthCombinationSetIntraENDC* and *supportedBandwidthCombinationSetIntraENDC* was selected because the clean solution to always indicate ENDC BCS in *supportedBandwidthCombinationSetIntraENDC* was seen as having big NBC impacts. Since we have now discovered problems on how to interpret the existing specification text, we propose we introduce the clean solution (always use *supportedBandwidthCombinationSetIntraENDC* for indicating ENDC BCS, and never use *supportedBandwidthCombinationSet* for this purpose |
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**Q1-2 Based on the Q1-1, do companies think any clarifications are needed in the specification?**

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| **Company** | **Yes or No** | **Comments** |
| Apple | No strong preference | If companies feel any additional clarification (using NOTE) is needed, we are ok with it. |
| ZTE | Yes(Proponent) | As comment in the question 1,for the case of **“**Intra-band (NG)EN-DC/NE-DC BC with LTE inter-band CA and NR single carrier”, the UE shall report the BCS for the intra-band EN-DC part in the ***SupportedBandwidthCombinationSet .***Based on this, the current specification have 2 problems:1. As comments in the question 1, the UE was required to report ***supportedBandwidthCombinationSetIntraENDC*** also for the case of **“**Intra-band (NG)EN-DC/NE-DC BC with LTE inter-band CA and NR single carrier”.
2. For the following 2 cases, as agreed in the last meeting:
* It is mandatory if it supports both UL and DL intra-band (NG)EN-DC/NE-DC parts (e.g. DC\_1A- **(n)41AA);**
* It is optional if it doesn’t support UL in both the bands of the intra-band (NG)EN-DC/NE-DC UL part.(e.g. DC**\_1A-(n)41A**A)

Thus if RAN2 confirm that **“**Intra-band (NG)EN-DC/NE-DC BC with LTE inter-band CA and NR single carrier”, the UE shall report the BCS for the intra-band EN-DC part in the ***SupportedBandwidthCombinationSet ,*** the following clarification shall be added to the ***SupportedBandwidthCombinationSet*** : (together with some other minor modifications)For the intra-band (NG)EN-DC/NE-DC BC with additional LTE CA component but no NR CA* It is mandatory if it supports both UL and DL intra-band (NG)EN-DC/NE-DC parts
* It is optional if it doesn’t support UL in both the bands of the intra-band (NG)EN-DC/NE-DC UL part. If not included, the network assumes the UE supports BCS0 as defined in TS 38.101 TS 38.101-3 [4], table 5.3B.1.2-1 and table 5.3B.1.3-1 for the intra-band (NG)EN-DC/NE-DC.
 |
| Huawei, HiSilicon | No strong preference |  |
| MediaTek | Seems not |  |
| Nokia | No | The spec is clear and we see no need to say anything more. |
| OPPO | No |  |
| Qualcomm Incorporated | No | It is already clear in the current specification. |
| Samsung | No |  |
| Ericsson | Yes | See response to Q1-1. |
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### 3.1.2 90M limitation

To determine whether the UE supports a channel bandwidth of 90 MHz, the network shall also validate *SupportedBandwidthCombinationSetEN-DC*, though currently it only happens for the BC with the band 41. The proposal are listed as below:

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| Proposal 3: To determine whether the UE supports a channel bandwidth of 90 MHz, the network shall also validate *SupportedBandwidthCombinationSetEN-DC*. |

**Q1-3 Do companies generally agree with the above Proposal?**

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| **Company** | **Yes or No** | **Comments** |
| Apple | Yes but | We think this is already implied? |
| ZTE | Yes(Proponent) | In the last meeting, the similar CR (R2-2102401/2402)was agreed, but when we go through the RAN4’s BC and BCS table, we find that for the 90 MHz bandwidth, the same modification was also needed (though currently it only happens for the BC with the band 41). Thus we add this clarification together with other issues with the intention to avoid unnecessary confusion. |
| Huawei, HiSilicon | Yes |  |
| MediaTek | Yes |  |
| Nokia | Yes |  |
| OPPO | Yes |  |
| Qualcomm Incorporated | Yes |  |
| Samsung | Yes |  |
| Ericsson | Yes |  |
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##  Reported BCS when IE intraBandENDC-support is set to “both” (online)

[R2-2103061](file:///D%3A%5CDocuments%5C3GPP%5Ctsg_ran%5CWG2%5CTSGR2_113bis-e%5CDocs%5CR2-2103061.zip) Reported BCS when IE intraBandENDC-support is set to “both” T-Mobile USA Inc. discussion Rel-16 38.306 TEI16

The observations and proposals are listed as below:

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| Observation 1: When a UE reports a value of “both” in IE *intraBandENDC-support* the reported BCS in IE *supportedBandwidthCombinationSetIntraENDC* is ambiguous. Observation 2: Current specification allows the UE’s supporting both intraband contiguous and intraband non-contiguous ENDC to report different intraband BCS values using two different band combination sets.Option 1: Change “Both” in IE intraBandENDC-support to “dummy” in 38.331 Release 15 and Release 16. And modify the definition in 38.306MRDC-Parameters ::= SEQUENCE { singleUL-Transmission ENUMERATED {supported} OPTIONAL, dynamicPowerSharingENDC ENUMERATED {supported} OPTIONAL, tdm-Pattern ENUMERATED {supported} OPTIONAL, ul-SharingEUTRA-NR ENUMERATED {tdm, fdm, both} OPTIONAL, ul-SwitchingTimeEUTRA-NR ENUMERATED {type1, type2} OPTIONAL, simultaneousRxTxInterBandENDC ENUMERATED {supported} OPTIONAL, asyncIntraBandENDC ENUMERATED {supported} OPTIONAL, ..., [[ dualPA-Architecture ENUMERATED {supported} OPTIONAL, intraBandENDC-Support ENUMERATED {non-contiguous, dummy} OPTIONAL, ul-TimingAlignmentEUTRA-NR ENUMERATED {required} OPTIONAL ]]Change to 38.306

| ***intraBandENDC-Support***Indicates whether the UE supports intra-band (NG)EN-DC with only non-contiguous spectrum, for the (NG)EN-DC combination as specified in TS 38.101-3 [4].If the UE does not include this field for an intra-band (NG)EN-DC combination the UE only supports the contiguous spectrum for the intra-band (NG)EN-DC combination. |
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Option 2: Add a note to the definition of IE intraBandENDC-support in 38.306 Release 15 and Release 16Given observation 2 it is unnecessary for a UE to report a intraband BCS value when IE intraBandENDC support is set to “both”. We aren’t aware of any current implementations supporting both intraband contiguous and intraband non-contiguous spectrum which makes it unlikely that the introduction of the note will cause problems for legacy UE’s.

| ***intraBandENDC-Support***Indicates whether the UE supports intra-band (NG)EN-DC with only non-contiguous spectrum, or with both contiguous and non-contiguous spectrum for the (NG)EN-DC combination as specified in TS 38.101-3 [4].If the UE does not include this field for an intra-band (NG)EN-DC combination the UE only supports the contiguous spectrum for the intra-band (NG)EN-DC combination.Note: If the value of intraBandENDC-Support is set to “both” the UE shall not report a intraband BCS value in IE *supportedBandwidthCombinationSetIntraENDC*. A UE supporting both intraband contiguous and intraband non-contiguous (NG)EN-DC shall report the appropriate intraband (NG)EN-DC BCS value (found in 38.101-3) using two separate (NG)EN-DC band combinations, one (NG) EN-DC band combination for intraband contiguous and a separate (NG)EN-DC band combination for intraband non-contiguous.  |
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Proposal 1 - RAN2 to endorse one of the options listed above |

**Q2-1 Do companies think any clarifications in the specification or in the chairman’s note is needed, according to the GTW online discussion?**

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| **Company** | **Comments** | **Specification or chairman’s note** |
| Apple | The NOTE says that UE can report ‘both’ with a restriction, the next next sentence says the UE should report BC twice…we think the wording needs clarification. | We are ok with clarifying this either in the NOTE or in chairman’s notes. |
| ZTE | We generally agree that “A UE supporting both intraband contiguous and intraband non-contiguous (NG)EN-DC shall report the appropriate intraband (NG)EN-DC BCS value (found in 38.101-3) using two separate (NG)EN-DC band combinations, one (NG) EN-DC band combination for intraband contiguous and a separate (NG)EN-DC band combination for intraband non-contiguous. ” But for the first sentence in the note part, we have different views. | We prefer to include it in the chairman note |
| Huawei, HiSilicon | The clarification can be: If the UE supports intra-band (NG)EN-DC with contiguous and non-contiguous, and the BCS for contiguous and non-contiguous are the same, the UE can signal “both” in *intraBandENDC-Support* with associated BCS value. If the BCS for contiguous and non-contiguous are different, the UE can signal two BC entries and set “contiguous” and “non-contiguous” separately, with associated BCS value respectively. | Chairman notes |
| MediaTek | We are fine with the wording provided by Huawei. | Chairman notes |
| Nokia | Okay with the above + if no BCS is signalled then the BCS0 is assumed for “both” signalled case | Chairman notes sounds good unless someone has really strong view on spec. |
| OPPO | We are fine with the wording provided by Huawei. | Chairman notes |
| Qualcomm Incorporated | We share the same understanding as Huawei. | Chairman notes |
| Samsung | We share the same understanding as Huawei. | Chairman notes |
| Ericsson | Wording by Huawei fine | Chairman notes |
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## Contiguous and non-contiguous for intra-band EN-DC

[R2-2104030](file:///D%3A%5CDocuments%5C3GPP%5Ctsg_ran%5CWG2%5CTSGR2_113bis-e%5CDocs%5CR2-2104030.zip) Discussion on contiguous and non-contiguous for intra-band EN-DC Huawei, HiSilicon discussion Rel-15 NR\_newRAT-Core

The observation and proposals are listed as below:

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| Observation 1: With the legacy IE intraBandENDC-support, UE cannot indicate the support of contiguous or non-contiguous for UL and DL separately.Proposal 1: Introduce new capability signalling indicating contiguous, non-contiguous or both for UL and DL separately.Proposal 2: Discuss the release (e.g. Rel-15, Rel-16) to introduce the new capability signalling. |

**Q3-1 Do companies generally agree with the above Proposal 1?**

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| **Company** | **Yes or No** | **Comments** |
| Apple | No | We think RAN4 needs to confirm if such combinations are valid. The DC\_(n)41AB has only DC\_41A\_n41A UL. Maybe we can send an LS to RAN4 to see if there will be cases where UE has options in supporting diff UL configs. Adding a capability before their view is a bit premature in our view. |
| ZTE | No | We think this issue has been assigned to RAN4 to discuss first in the plenary meeting, and there was an on-going discussion in RAN4, thus we prefer to wait for RAN4’s RSP. |
| Huawei, HiSilicon | Proponent | As companies commented RAN4 inputs are needed and RAN4 is discussing it, we are ok to wait for RAN4 conclusion. |
| MediaTek | Prefer to Wait R4 |  |
| Nokia | Await RAN4 | This is discussion in RAN4 currently and we would prefer to just wait for their discussion to conclude. |
| OPPO | Prefer to Wait R4 |  |
| Qualcomm Incorporated | Wait for RAN4 | Clear guidance from RAN plenary to let RAN4 continue the discussion. |
| Samsung | Wait for RAN4 |  |
| Ericsson | Wait for RAN4 |  |
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**Q3-2 Do companies generally agree with the above Proposal 2?**

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| **Company** | **Yes or No** | **Comments** |
| ZTE | No |  See Q3-1 |
| Huawei, HiSilicon | Proponent | As companies commented RAN4 inputs are needed and RAN4 is discussing it, we are ok to wait for RAN4 conclusion. |
| MediaTek | Prefer to Wait R4 |  |
| OPPO | Prefer to Wait R4 |  |
| Qualcomm Incorporated | Wait for RAN4 | Clear guidance from RAN plenary to let RAN4 continue the discussion. |
| Samsung | Wait for RAN4 |  |
| Ericsson | Wait for RAN4 |  |
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# Conclusions

*To be added…*

# References

1. R2-2104025 Discussion on BCS of a fallback band combination Huawei, HiSilicon discussion Rel-15 NR\_newRAT-Core
2. R2-2103061 Reported BCS when IE intraBandENDC-support is set to “both” T-Mobile USA Inc. discussion Rel-16 38.306 TEI16
3. R2-2104030 Discussion on contiguous and non-contiguous for intra-band EN-DC Huawei, HiSilicon discussion Rel-15 NR\_newRAT-Core
4. R2-2104212 Further Clarification on the supportedBandwidthCombinationSet ZTE Corporation, Sanechips discussion Rel-15 NG\_RAN\_PRN-Core
5. R2-2104213 CR on the supportedBandwidthCombinationSet-R15 ZTE Corporation, Sanechips CR Rel-15 38.306 15.13.0 0565 - F NR\_newRAT-Core
6. R2-2104214 CR on the supportedBandwidthCombinationSet-R16 ZTE Corporation, Sanechips CR Rel-16 38.306 16.4.0 0566 - A NR\_newRAT-Core
7. R2-2104026 Clarification on BCS of a fallback band combination Huawei, HiSilicon CR Rel-15 38.306 15.13.0 0563 - F NR\_newRAT-Core
8. R2-2104027 Clarification on BCS of a fallback band combination Huawei, HiSilicon CR Rel-16 38.306 16.4.0 0564 - A NR\_newRAT-Core
9. R2-2104028 Draft LS on BCS of a fallback band combination Huawei, HiSilicon LS out Rel-16 NR\_newRAT-Core To:RAN4