**3GPP TSG RAN WG3 Meeting # 114-e R3-215880**

**e-meeting, 1st – 11th November 2021**

**Title: CB: # 2001\_NTN\_General (1st round)**

**Source: Thales (moderator)**

**Type: discussion**

**Document for: Agreement**

**Agenda Item: 20.1**

**Work Item: NR\_NTN\_solutions: Solutions for NR to support non-terrestrial networks (NTN)\**

# Introduction

This document aims at discussing and agree on BL CRs related to the Rel-17 WI NR\_NTN\_solutions.

Hereunder is recalled the description of the email discussion as defined by the RAN3 chair in its notes:

**CB: # 2001\_NTN\_General**

**- Endorse BL CRs?**

**- Can the Stage 2 and Stage 3 editorials be approved?**

(Thales - moderator)

Summary of offline disc [R3-215880](file:///C%3A%5CUsers%5Cchuberrn%5CDocuments%5C000_DATA_NICOLAS%5C02_3GPP%20Nicolas%5CRAN3%5CMeetings%5C211101_RAN3%23114-e%5CSatellite%20contributions%5CC_Comebacks%5CCB%20%23%202001_NTN_General%20-%20Thales%5CInbox%5CR3-215880.zip)

The following TDOCs are considered as part of this discussion:

|  |  |  |
| --- | --- | --- |
| [R3-214663](file:///D%3A%5C%E4%BC%9A%E8%AE%AE%E7%A1%AC%E7%9B%98%5CTSGR3_114-e%5CDocs%5CR3-214663.zip) | Support Non-Terrestrial Networks (Huawei, Thales, Ericsson, ZTE, Qualcomm Incorporated) | draftCR |
| [R3-215099](file:///D%3A%5C%E4%BC%9A%E8%AE%AE%E7%A1%AC%E7%9B%98%5CTSGR3_114-e%5CDocs%5CR3-215099.zip) | (TP for BL CR TS 38.300) NTN Stage 2 Update (Huawei) | other |
| [R3-214614](file:///D%3A%5C%E4%BC%9A%E8%AE%AE%E7%A1%AC%E7%9B%98%5CTSGR3_114-e%5CDocs%5CR3-214614.zip) | Clarification of NAS Node Selection Function for NTN nodes providing access over multiple countries (Qualcomm Incorporated, Nokia, Nokia Shanghai Bell, Huawei) | CR0029r5, TS 38.410 v16.4.0, Rel-17, Cat. C |
| [R3-214664](file:///D%3A%5C%E4%BC%9A%E8%AE%AE%E7%A1%AC%E7%9B%98%5CTSGR3_114-e%5CDocs%5CR3-214664.zip) | Support of NTN RAT identification and NTN RAT restrictions (Qualcomm Incorporated, Huawei, Thales, , Ericsson, Nokia, Nokia Shanghai Bell, CATT) | CR0490r7, TS 38.413 v16.7.0, Rel-17, Cat. B |
| [R3-215100](file:///D%3A%5C%E4%BC%9A%E8%AE%AE%E7%A1%AC%E7%9B%98%5CTSGR3_114-e%5CDocs%5CR3-215100.zip) | (TP for BL CR TS 38.413) stage 3 TP for mapped CGIs (Huawei) | other |
| [R3-214615](file:///D%3A%5C%E4%BC%9A%E8%AE%AE%E7%A1%AC%E7%9B%98%5CTSGR3_114-e%5CDocs%5CR3-214615.zip) | Support of NTN RAT identification and NTN RAT restrictions (Qualcomm Incorporated, Huawei, Thales, , Ericsson, Nokia, Nokia Shanghai Bell, CATT) | CR0488r6, TS 38.423 v16.7.0, Rel-17, Cat. B |

# For the Chairman’s Notes

Propose the following:

Propose to capture the following:

# 1st round discussion

## BL CR to TS 38.300

The two below TDOCs, latest version BL CR for TS 38.300 as outcome of RAN3#113-e and a text proposal:

|  |  |  |
| --- | --- | --- |
| [R3-214663](file:///D%3A%5C%E4%BC%9A%E8%AE%AE%E7%A1%AC%E7%9B%98%5CTSGR3_114-e%5CDocs%5CR3-214663.zip) | Support Non-Terrestrial Networks (Huawei, Thales, Ericsson, ZTE, Qualcomm Incorporated) | draftCR |
| [R3-215099](file:///D%3A%5C%E4%BC%9A%E8%AE%AE%E7%A1%AC%E7%9B%98%5CTSGR3_114-e%5CDocs%5CR3-215099.zip) | (TP for BL CR TS 38.300) NTN Stage 2 Update (Huawei) | other |

**Question 3.1.1: Is the draft BL CR 38.300 in [R3-214663] agreeable ?**

|  |  |  |
| --- | --- | --- |
| **Company** | **Agree/not agree** | **Comment** |
| Thales | Agree |  |
| Ericsson | Agree |  |
|  |  |  |

**Question 3.1.2: Is the Text Proposal for the draft BL CR 38.300 in [R3-215099] agreeable ?**

|  |  |  |
| --- | --- | --- |
| **Company** | **Agree/not agree** | **Comment** |
| Thales | Agree |  |
| Ericsson | Partially agree | All proposals OK except:P4: we should replace the current sentence in the BL CR with “An NCGI provided to the 5GC within the User Location Information is specified in subclause 16.x.5.”P6: Agree that referring to st3 protocols in st2 is not very nice, but neither is adding semantics for single IEs according to the st2ish usage scenario. A compromise proposal could be to simplify 16.x.5 in st2 to avoid the need to add semantics. |
|  |  |  |

## BL CR to TS 38.410

The TDOC in [R3-216414] below, includes latest version BL CR for TS 38.410 as outcome of RAN3#113-e.

|  |  |  |
| --- | --- | --- |
| [R3-216414](file:///D%3A%5C%E4%BC%9A%E8%AE%AE%E7%A1%AC%E7%9B%98%5CTSGR3_113-e%5CDocs%5CR3-213152.zip) | Clarification of NAS Node Selection Function for NTN nodes providing access over multiple countries (Qualcomm Incorporated, Nokia, Nokia Shanghai Bell, Huawei) | CR0029r5, TS 38.410 v16.4.0, Rel-17, Cat. C |

**Question 3.2: Is the draft BL CR 38.410 in [1] agreeable ?**

|  |  |  |
| --- | --- | --- |
| **Company** | **Agree/not agree** | **Comment** |
| Thales | Agree | Could it be possible to add Thales among the co-sources of this CR ? |
| Ericsson | Agree |  |
|  |  |  |

## BL CR to TS 38.413

The two below TDOCs, latest version BL CR for TS 38.413 as outcome of RAN3#113-e and a text proposal:

|  |  |  |
| --- | --- | --- |
| [R3-214664](file:///D%3A%5C%E4%BC%9A%E8%AE%AE%E7%A1%AC%E7%9B%98%5CTSGR3_114-e%5CDocs%5CR3-214664.zip) | Support of NTN RAT identification and NTN RAT restrictions (Qualcomm Incorporated, Huawei, Thales, , Ericsson, Nokia, Nokia Shanghai Bell, CATT) | CR0490r7, TS 38.413 v16.7.0, Rel-17, Cat. B |
| [R3-215100](file:///D%3A%5C%E4%BC%9A%E8%AE%AE%E7%A1%AC%E7%9B%98%5CTSGR3_114-e%5CDocs%5CR3-215100.zip) | (TP for BL CR TS 38.413) stage 3 TP for mapped CGIs (Huawei) | Other |

**Question 3.3.1: Is the draft BL CR 38.413 in [R3-214664] agreeable ?**

|  |  |  |
| --- | --- | --- |
| **Company** | **Agree/not agree** | **Comment** |
| Thales | Agree |  |
| Ericsson | Agree |  |
|  |  |  |

**Question 3.3.2: Is the Text Proposal for the draft BL CR 38.413 in [R3-215100] agreeable ?**

|  |  |  |
| --- | --- | --- |
| **Company** | **Agree/not agree** | **Comment** |
| Thales | Agree |  |
| Ericsson | Disagree | This TP is not really needed if we can simplify Sec. 16.x.5 in the st2 description: then we could avoid adding semantics all over the place. See also our comment to 5099. |
|  |  |  |

## BL CR to TS 38.423

The TDOC in [[R3-214615](file:///D%3A%5C%E4%BC%9A%E8%AE%AE%E7%A1%AC%E7%9B%98%5CTSGR3_114-e%5CDocs%5CR3-214615.zip)] and below includes latest version BL CR for TS 38.423 as outcome of RAN3#112-e.

|  |  |  |
| --- | --- | --- |
| [R3-214615](file:///D%3A%5C%E4%BC%9A%E8%AE%AE%E7%A1%AC%E7%9B%98%5CTSGR3_114-e%5CDocs%5CR3-214615.zip) | Support of NTN RAT identification and NTN RAT restrictions (Qualcomm Incorporated, Huawei, Thales, , Ericsson, Nokia, Nokia Shanghai Bell, CATT) | CR0488r6, TS 38.423 v16.7.0, Rel-17, Cat. B |

**Question 3.4: Is the draft BL CR 38.423 in [R3-214615] agreeable ?**

|  |  |  |
| --- | --- | --- |
| **Company** | **Agree/not agree** | **Comment** |
| Thales | Agree |  |
| Ericsson | Agree |  |
|  |  |  |

# 2nd round discussion

# Reference

[1] R3-214663 Support Non-Terrestrial Networks (Huawei, Thales, Ericsson, ZTE, Qualcomm Incorporated) draftCR

[2] R3-215099 (TP for BL CR TS 38.300) NTN Stage 2 Update (Huawei) other

[3] R3-214614 Clarification of NAS Node Selection Function for NTN nodes providing access over multiple countries (Qualcomm Incorporated, Nokia, Nokia Shanghai Bell, Huawei) CR0029r5, TS 38.410 v16.4.0, Rel-17, Cat. C

[4] R3-214664 Support of NTN RAT identification and NTN RAT restrictions (Qualcomm Incorporated, Huawei, Thales, , Ericsson, Nokia, Nokia Shanghai Bell, CATT) CR0490r7, TS 38.413 v16.7.0, Rel-17, Cat. B

[5] R3-215100 (TP for BL CR TS 38.413) stage 3 TP for mapped CGIs (Huawei) other

[6] R3-214615 Support of NTN RAT identification and NTN RAT restrictions (Qualcomm Incorporated, Huawei, Thales, , Ericsson, Nokia, Nokia Shanghai Bell, CATT) CR0488r6, TS 38.423 v16.7.0, Rel-17, Cat. B

***END***