**3GPP TSG-RAN WG4 Meeting #100-e R4-21xxxxx**

Electronic Meeting, 16 August – 27 August 2021

**Agenda item:** 8.38.1

**Source:** Moderator (Ericsson)

**Title:** Email discussion summary for [100-e][122] NR\_PC2\_EN-DC

**Document for:** Information

# Introduction

This email discussion is for ENDC\_UE\_PC2\_R17\_NR\_TDD in agenda item 8.36 and ENDC\_PC2\_R17\_xLTE\_yNR in agenda item 8.38.

# Topic #1: General

## Companies’ contributions summary

|  |  |  |
| --- | --- | --- |
| **T-doc number** | **Title** | **Company** |
| **[R4-2111730](https://www.3gpp.org/ftp/TSG_RAN/WG4_Radio/TSGR4_100-e/Docs/R4-2111730.zip)** | MSD for DC\_12\_n77, DC\_14\_n77, and DC\_30\_n77 | Qualcomm Incorporated |
| [**R4-2111817**](https://www.3gpp.org/ftp/TSG_RAN/WG4_Radio/TSGR4_100-e/Docs/R4-2111817.zip) | TP for TR 37.826 Addition of DC\_12A\_n77A | AT&T |
| [**R4-2111818**](https://www.3gpp.org/ftp/TSG_RAN/WG4_Radio/TSGR4_100-e/Docs/R4-2111818.zip) | TP for TR 37.826 Addition of DC\_14A\_n77A | AT&T |
| [**R4-2111819**](https://www.3gpp.org/ftp/TSG_RAN/WG4_Radio/TSGR4_100-e/Docs/R4-2111819.zip) | TP for TR 37.826 Addition of DC\_30A\_n77A | AT&T |
| [**R4-2112651**](https://www.3gpp.org/ftp/TSG_RAN/WG4_Radio/TSGR4_100-e/Docs/R4-2112651.zip) | DraftCR for adding PC2 configurations | Verizon, AT&T, Samsung |
| [**R4-2112669**](https://www.3gpp.org/ftp/TSG_RAN/WG4_Radio/TSGR4_100-e/Docs/R4-2112669.zip) | TP for TR 37.827 for DC\_66\_n66-n77 | Verizon, Samsung |
| [**R4-2112670**](https://www.3gpp.org/ftp/TSG_RAN/WG4_Radio/TSGR4_100-e/Docs/R4-2112670.zip) | TP to TR 37.717-21-11 for DC\_48-66\_n77 | Verizon, Samsung |
| [**R4-2112672**](https://www.3gpp.org/ftp/TSG_RAN/WG4_Radio/TSGR4_100-e/Docs/R4-2112672.zip) | TP for TR 37.827 for DC\_13\_n5-n77 | Verizon, Samsung |
| [**R4-2112673**](https://www.3gpp.org/ftp/TSG_RAN/WG4_Radio/TSGR4_100-e/Docs/R4-2112673.zip) | TP for TR 37.827 for DC\_5\_n66-n77 | Verizon, Samsung |
| [**R4-2112674**](https://www.3gpp.org/ftp/TSG_RAN/WG4_Radio/TSGR4_100-e/Docs/R4-2112674.zip) | TP for TR 37.827 for DC\_5\_n5-n77 | Verizon, Samsung |
| [**R4-2112676**](https://www.3gpp.org/ftp/TSG_RAN/WG4_Radio/TSGR4_100-e/Docs/R4-2112676.zip) | TP for TR 37.827 for DC\_5\_n2-n77 | Verizon, Samsung |
| [**R4-2112679**](https://www.3gpp.org/ftp/TSG_RAN/WG4_Radio/TSGR4_100-e/Docs/R4-2112679.zip) | TP for TR 37.827 for DC\_2\_n66-n77 | Verizon, Samsung |
| [**R4-2112681**](https://www.3gpp.org/ftp/TSG_RAN/WG4_Radio/TSGR4_100-e/Docs/R4-2112681.zip) | TP for TR 37.827 for DC\_2-48\_n77 | Verizon, Samsung |
| [**R4-2112684**](https://www.3gpp.org/ftp/TSG_RAN/WG4_Radio/TSGR4_100-e/Docs/R4-2112684.zip) | TP for TR 37.827 for DC\_2\_n2-n77 | Verizon, Samsung |
| [**R4-2114043**](https://www.3gpp.org/ftp/TSG_RAN/WG4_Radio/TSGR4_100-e/Docs/R4-2114043.zip) | Text proposal for TR 37.827 to include DC\_1A-5A\_n78A | Huawei Tech.(UK) Co.. Ltd |
| [**R4-2114054**](https://www.3gpp.org/ftp/TSG_RAN/WG4_Radio/TSGR4_100-e/Docs/R4-2114054.zip) | Text proposal for TR 37.827 to include DC\_1A-n7A\_n78A | Huawei Tech.(UK) Co.. Ltd |

## Open issues summary

|  |  |
| --- | --- |
| **Company** | **Comments** |
|  |  |
|  |  |
|  |  |

## Companies views’ collection for 1st round

### Open issues

### CRs/TPs comments collection

Please provide feedback comments in table below on whether the TP’s, draft CR’s or the discussion paper need to be revised. If not commented they are to be captured in TR and in a big CR for email approval after the meeting.

|  |  |  |  |
| --- | --- | --- | --- |
| **T-doc number** | **Title** | **Company** | **Comment** |
| **[R4-2111730](https://www.3gpp.org/ftp/TSG_RAN/WG4_Radio/TSGR4_100-e/Docs/R4-2111730.zip)** | MSD for DC\_12\_n77, DC\_14\_n77, and DC\_30\_n77  **Proposal**: Use MSD values as shown in Table 2-3 and 2-4 | Apple | The MSD test point for DC\_12\_n77 where n77 carrier is inside n48 band range which should not be allowed if the combination is intended for operation in US. |
|  |  | Company B |  |
|  |  |  |  |
| [**R4-2111817**](https://www.3gpp.org/ftp/TSG_RAN/WG4_Radio/TSGR4_100-e/Docs/R4-2111817.zip) | TP for TR 37.826 Addition of DC\_12A\_n77A | Apple | The MSD test point for DC\_12\_n77 where n77 carrier is inside n48 band range which should not be allowed if the combination is intended for operation in US. |
|  |  | Company B |  |
|  |  |  |  |
| [**R4-2111818**](https://www.3gpp.org/ftp/TSG_RAN/WG4_Radio/TSGR4_100-e/Docs/R4-2111818.zip) | TP for TR 37.826 Addition of DC\_14A\_n77A | Company A |  |
|  |  | Company B |  |
|  |  |  |  |
| [**R4-2111819**](https://www.3gpp.org/ftp/TSG_RAN/WG4_Radio/TSGR4_100-e/Docs/R4-2111819.zip) | TP for TR 37.826 Addition of DC\_30A\_n77A | Company A |  |
|  |  | Company B |  |
|  |  |  |  |
| [**R4-2112651**](https://www.3gpp.org/ftp/TSG_RAN/WG4_Radio/TSGR4_100-e/Docs/R4-2112651.zip) | DraftCR for adding PC2 configurations | Company A |  |
|  |  | Company B |  |
|  |  |  |  |
| [**R4-2112669**](https://www.3gpp.org/ftp/TSG_RAN/WG4_Radio/TSGR4_100-e/Docs/R4-2112669.zip) | TP for TR 37.827 for DC\_66\_n66-n77 | Company A |  |
|  |  | Company B |  |
|  |  |  |  |
| [**R4-2112670**](https://www.3gpp.org/ftp/TSG_RAN/WG4_Radio/TSGR4_100-e/Docs/R4-2112670.zip) | TP to TR 37.717-21-11 for DC\_48-66\_n77 | Company A |  |
|  |  | Company B |  |
|  |  |  |  |
| [**R4-2112672**](https://www.3gpp.org/ftp/TSG_RAN/WG4_Radio/TSGR4_100-e/Docs/R4-2112672.zip) | TP for TR 37.827 for DC\_13\_n5-n77 | Company A |  |
|  |  | Company B |  |
|  |  |  |  |
| [**R4-2112673**](https://www.3gpp.org/ftp/TSG_RAN/WG4_Radio/TSGR4_100-e/Docs/R4-2112673.zip) | TP for TR 37.827 for DC\_5\_n66-n77 | Company A |  |
|  |  | Company B |  |
|  |  |  |  |
| [**R4-2112674**](https://www.3gpp.org/ftp/TSG_RAN/WG4_Radio/TSGR4_100-e/Docs/R4-2112674.zip) | TP for TR 37.827 for DC\_5\_n5-n77 | Apple | n77 carrier in MSD test configuration is outside US Band n77 frequency ranges. |
|  |  | Company B |  |
|  |  |  |  |
| [**R4-2112676**](https://www.3gpp.org/ftp/TSG_RAN/WG4_Radio/TSGR4_100-e/Docs/R4-2112676.zip) | TP for TR 37.827 for DC\_5\_n2-n77 | Apple | The MSD test point where n77 carrier is inside n48 band range which should not be allowed if the combination is intended for operation in US. |
|  |  | Company B |  |
|  |  |  |  |
| [**R4-2112679**](https://www.3gpp.org/ftp/TSG_RAN/WG4_Radio/TSGR4_100-e/Docs/R4-2112679.zip) | TP for TR 37.827 for DC\_2\_n66-n77 | Company A |  |
|  |  | Company B |  |
|  |  |  |  |
| [**R4-2112681**](https://www.3gpp.org/ftp/TSG_RAN/WG4_Radio/TSGR4_100-e/Docs/R4-2112681.zip) | TP for TR 37.827 for DC\_2-48\_n77 | Company A |  |
|  |  | Company B |  |
|  |  |  |  |
| [**R4-2112684**](https://www.3gpp.org/ftp/TSG_RAN/WG4_Radio/TSGR4_100-e/Docs/R4-2112684.zip) | TP for TR 37.827 for DC\_2\_n2-n77 | Apple | The MSD test point for IMD4 where n77 carrier is inside n48 band range which should not be allowed if the combination is intended for operation in US. |
|  |  | Company B |  |
|  |  |  |  |
| [**R4-2114043**](https://www.3gpp.org/ftp/TSG_RAN/WG4_Radio/TSGR4_100-e/Docs/R4-2114043.zip) | Text proposal for TR 37.827 to include DC\_1A-5A\_n78A | Company A |  |
|  |  | Company B |  |
|  |  |  |  |
| [**R4-2114054**](https://www.3gpp.org/ftp/TSG_RAN/WG4_Radio/TSGR4_100-e/Docs/R4-2114054.zip) | Text proposal for TR 37.827 to include DC\_1A-n7A\_n78A | Company A |  |
|  |  | Company B |  |
|  |  |  |  |

## Summary for 1st round

### Open issues

*Moderator tries to summarize discussion status for 1st round, list all the identified open issues and tentative agreements or candidate options and suggestion for 2nd round i.e. WF assignment.*

|  |  |
| --- | --- |
|  | **Status summary** |
| **Sub-topic#1** | *Tentative agreements:*  *Candidate options:*  *Recommendations for 2nd round:* |

*Recommendations on WF/LS assignment*

|  |  |  |
| --- | --- | --- |
|  | **WF/LS t-doc Title** | **Assigned Company,**  **WF or LS lead** |
| #1 |  |  |

### CRs/TPs

*Moderator tries to summarize discussion status for 1st round and provides recommendation on CRs/TPs Status update*

|  |  |  |
| --- | --- | --- |
| **CR/TP number** | **Name** | **CRs/TPs Status update recommendation** |
| **[R4-2111730](https://www.3gpp.org/ftp/TSG_RAN/WG4_Radio/TSGR4_100-e/Docs/R4-2111730.zip)** | MSD for DC\_12\_n77, DC\_14\_n77, and DC\_30\_n77 | revision needed |
| **[R4-2111817](https://www.3gpp.org/ftp/TSG_RAN/WG4_Radio/TSGR4_100-e/Docs/R4-2111817.zip)** | TP for TR 37.826 Addition of DC\_12A\_n77A | revision needed |
| **[R4-2111818](https://www.3gpp.org/ftp/TSG_RAN/WG4_Radio/TSGR4_100-e/Docs/R4-2111818.zip)** | TP for TR 37.826 Addition of DC\_14A\_n77A | Recommended for approval |
| **[R4-2111819](https://www.3gpp.org/ftp/TSG_RAN/WG4_Radio/TSGR4_100-e/Docs/R4-2111819.zip)** | TP for TR 37.826 Addition of DC\_30A\_n77A | Recommended for approval |
| **[R4-2112651](https://www.3gpp.org/ftp/TSG_RAN/WG4_Radio/TSGR4_100-e/Docs/R4-2112651.zip)** | DraftCR for adding PC2 configurations | Recommended for approval |
| **[R4-2112669](https://www.3gpp.org/ftp/TSG_RAN/WG4_Radio/TSGR4_100-e/Docs/R4-2112669.zip)** | TP for TR 37.827 for DC\_66\_n66-n77 | Recommended for approval |
| **[R4-2112670](https://www.3gpp.org/ftp/TSG_RAN/WG4_Radio/TSGR4_100-e/Docs/R4-2112670.zip)** | TP to TR 37.717-21-11 for DC\_48-66\_n77 | Recommended for approval |
| **[R4-2112672](https://www.3gpp.org/ftp/TSG_RAN/WG4_Radio/TSGR4_100-e/Docs/R4-2112672.zip)** | TP for TR 37.827 for DC\_13\_n5-n77 | Recommended for approval |
| **[R4-2112673](https://www.3gpp.org/ftp/TSG_RAN/WG4_Radio/TSGR4_100-e/Docs/R4-2112673.zip)** | TP for TR 37.827 for DC\_5\_n66-n77 | Recommended for approval |
| **[R4-2112674](https://www.3gpp.org/ftp/TSG_RAN/WG4_Radio/TSGR4_100-e/Docs/R4-2112674.zip)** | TP for TR 37.827 for DC\_5\_n5-n77 | revision needed |
| **[R4-2112676](https://www.3gpp.org/ftp/TSG_RAN/WG4_Radio/TSGR4_100-e/Docs/R4-2112676.zip)** | TP for TR 37.827 for DC\_5\_n2-n77 | revision needed |
| **[R4-2112679](https://www.3gpp.org/ftp/TSG_RAN/WG4_Radio/TSGR4_100-e/Docs/R4-2112679.zip)** | TP for TR 37.827 for DC\_2\_n66-n77 | Recommended for approval |
| **[R4-2112681](https://www.3gpp.org/ftp/TSG_RAN/WG4_Radio/TSGR4_100-e/Docs/R4-2112681.zip)** | TP for TR 37.827 for DC\_2-48\_n77 | Recommended for approval |
| **[R4-2112684](https://www.3gpp.org/ftp/TSG_RAN/WG4_Radio/TSGR4_100-e/Docs/R4-2112684.zip)** | TP for TR 37.827 for DC\_2\_n2-n77 | revision needed |
| **[R4-2114043](https://www.3gpp.org/ftp/TSG_RAN/WG4_Radio/TSGR4_100-e/Docs/R4-2114043.zip)** | Text proposal for TR 37.827 to include DC\_1A-5A\_n78A | Recommended for approval |
| **[R4-2114054](https://www.3gpp.org/ftp/TSG_RAN/WG4_Radio/TSGR4_100-e/Docs/R4-2114054.zip)** | Text proposal for TR 37.827 to include DC\_1A-n7A\_n78A | Recommended for approval |

## Discussion on 2nd round (if applicable)

Provide revisions to be agreed for below documents:

|  |  |
| --- | --- |
| revision of **[R4-2111730](https://www.3gpp.org/ftp/TSG_RAN/WG4_Radio/TSGR4_100-e/Docs/R4-2111730.zip)** | MSD for DC\_12\_n77, DC\_14\_n77, and DC\_30\_n77 |
| revision of **[R4-2111817](https://www.3gpp.org/ftp/TSG_RAN/WG4_Radio/TSGR4_100-e/Docs/R4-2111817.zip)** | TP for TR 37.826 Addition of DC\_12A\_n77A, |
| revision of **[R4-2112674](https://www.3gpp.org/ftp/TSG_RAN/WG4_Radio/TSGR4_100-e/Docs/R4-2112674.zip)** | TP for TR 37.827 for DC\_5\_n5-n77 |
| revision of **[R4-2112676](https://www.3gpp.org/ftp/TSG_RAN/WG4_Radio/TSGR4_100-e/Docs/R4-2112676.zip)** | TP for TR 37.827 for DC\_5\_n2-n77 |
| revision of **[R4-2112684](https://www.3gpp.org/ftp/TSG_RAN/WG4_Radio/TSGR4_100-e/Docs/R4-2112684.zip)** | TP for TR 37.827 for DC\_2\_n2-n77 |

Rapporteur documents:

|  |  |  |
| --- | --- | --- |
| R4-2113565 | TR 37.827 v0.1.0 ENDC\_PC2\_R17\_xLTE\_yNR | TR capturing the agreements from RAN4 99-e. Recommended to be approved |
| R4-2113566 | TR 37.827 v0.2.0 ENDC\_PC2\_R17\_xLTE\_yNR | TR capturing the agreements from RAN4 100-e, recommended for email approval |
| R4-2113555 | Revised WID EN-DC PC2 | Recommended for email approval |
| R4-2113561 | CR 38.101-3 EN-DC PC2 | Recommended for email approval |
| R4-2112472 | TR 37.826 v0.4.0 ENDC\_UE\_PC2\_R17\_NR\_TDD | TR capturing the agreements from RAN4 100-e, recommended for email approval |
| R4-2112471 | Revised WID on High power UE (power class 2) for EN-DC with 1 LTE band + 1 NR TDD band | Recommended for email approval |
| R4-2112473 | Big CR on introduction of completed PC2 for EN-DC with 1 LTE band + 1 NR TDD band | Recommended for email approval |

## Summary on 2nd round (if applicable)

*Moderator tries to summarize discussion status for 2nd round and provided recommendation on CRs/TPs/WFs/LSs Status update suggestion*

|  |  |
| --- | --- |
| **CR/TP/LS/WF number** | **T-doc Status update recommendation** |
|  |  |