**3GPP TSG-RAN WG2 Meeting#101** **R2-1804043**

Athens, Greece, 26th February - 2nd March 2018 revision of R2-1803957

**Source:** Nokia, Nokia Shanghai Bell

**Title:** Notes from the session for email discussion [NR-AH1801#24][NR] 38.331 ASN.1 review part 6 - Inter-node message

**Agenda Item:** 10.4.3.1

**Document for:** Discussion and decision

# Introduction

This document provides history of agreements incorporated into the TP that is being prepared for NR RRC inter-node messages.

# Links to latest documents

The latest published draft TP in RAN2#101 can be found in [R2-1804044](http://3gpp.org/ftp/tsg_ran/WG2_RL2/TSGR2_101/Docs/R2-1804044.zip).

The starting point for the email discussion (replace protocol with FTP when connecting via FTP client, the link below uses HTTP to be browser-friendly): [http://www.3gpp.org/ftp/Email\_Discussions/RAN2/[101%2306][NR]%2038.331%20CR%20part%206%20(Nokia)/](http://www.3gpp.org/ftp/Email_Discussions/RAN2/%5B101%2306%5D%5BNR%5D%2038.331%20CR%20part%206%20%28Nokia%29/).

# List of implemented RAN2 decisions in TP

The below table shows the changes implemented after RAN2#101 as part of the email discussion.

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| **ID#** | **Description of proposed/agreed change (as per RAN2#101 minutes or new issues)** | **Status (green = implemented to draft, yellow = discussion item, red = not implemented, purple = will not be implemented during this email discussion)**  |
| **1** | **Agree to adopt power coordination for FR1 as per CR (based on** [**R2-1803380**](http://3gpp.org/ftp/tsg_ran/WG2_RL2/TSGR2_101/Docs/R2-1803380.zip)**).** | **Already implemented to** [R2-1804044](http://3gpp.org/ftp/tsg_ran/WG2_RL2/TSGR2_101/Docs/R2-1804044.zip)**.** |
| **2** | **Decision during discussion on** [R2-1803057](http://3gpp.org/ftp/tsg_ran/WG2_RL2/TSGR2_101/Docs/R2-1803057.zip)**:****Define one new Container (*****MeasurementTimingConfiguration*) to cover SMTC IE and/or associated carrier frequency information (as defined by TS38.331). Up to RAN3 how to utilize this inter-node message (RAN2 understanding is that this would be used in at least X2 setup/modification phase). Send reply LS back to RAN3 to inform them of our solution (Nokia, R2-180xxxx, offline discussion #xxx).** | **Implemented to the latest draft** |
| **3** | **Remove all FFS within the ASN.1 of subclause 11 in NR RRC. Retain *AS-Context* within *HandoverPreparationInformation*** | **Implemented to the latest draft (some FFS were removed already in** [R2-1804044](http://3gpp.org/ftp/tsg_ran/WG2_RL2/TSGR2_101/Docs/R2-1804044.zip)**)** |
| **4** | **Resolve the BPC restriction signalling details in capability discussions, then adopt the corresponding changes here** | **Waiting for capability discussion to progress.** |
| **5** | **Create NR *UECapabilityInformation* – message already now, containing the information on NR and MR-DC capabilities** | **Latest draft refers (as before) to the *UECapabilityInformation* - message** |
| **6** | **fullConfig indication removed from CG-Config(as per LS to RAN3 in** [R2-1804100](http://3gpp.org/ftp/tsg_ran/WG2_RL2/TSGR2_101/Docs/R2-1804100.zip)**)** | **Already implemented to** [R2-1804044](http://3gpp.org/ftp/tsg_ran/WG2_RL2/TSGR2_101/Docs/R2-1804044.zip)**.** |
| **7** | **Use CG-Config as inter-node message name** | **Already implemented to** [R2-1804044](http://3gpp.org/ftp/tsg_ran/WG2_RL2/TSGR2_101/Docs/R2-1804044.zip)**.** |
| **8** | **Include also short DRX configuration in DRX-Info.** | **Implemented to the latest draft** |
| **9** | **Add field description to clarify how the CSI-RS results can be used.** | **Implemented to the latest draft** |
| **10** | **Use Cell-level IEs from RRM TP for “ResultsThreeQuantities” (e.g. ResultsCSI-RS-Cell and ResultsSSB-Cell).** | **Already implemented to** [R2-1804044](http://3gpp.org/ftp/tsg_ran/WG2_RL2/TSGR2_101/Docs/R2-1804044.zip)**, updated to comply with** [R2-1803934](http://3gpp.org/ftp/tsg_ran/WG2_RL2/TSGR2_101/Docs/R2-1803934.zip) **in the latest draft** |
| **11** | **Capture outcome of offline discussion #25 in the TP for inter-node messages.** | **Implemented to the latest draft** |
| **12** | **Capture outcome of the offline discussion on SCG failure information (number 26??) in the TP for inter-node messages (if needed)** | **Not yet implemented to the latest draft** |
| **13** | **If RAN4 finalizes their discussion on per-UE tx power limits, capture the outcome in the TP for inter-node messages (if needed).** | **Not yet impemented to the latest draft – TBD if this will be done during this email discussion.** |
| **14** | **Discussion for** [R2-1802082](http://3gpp.org/ftp/tsg_ran/WG2_RL2/TSGR2_101/Docs/R2-1802082.zip)**:*****FFS: Whether the beam measurement information is provided in the HandoverPreparationInformation following the same principles as beam measurement information in the SCG change case.*****Conclusion from offline discussion #22 in** [R2-1804013](http://3gpp.org/ftp/tsg_ran/WG2_RL2/TSGR2_101/Docs/R2-1804013.zip)**:*****1: The beam measurement information is provided in the HandoverPreparationInformation following the same principles as beam measurement information in the SCG change case.*** | **Not implemented since this is part of NR SA and not needed for NSA.**  |
| **15** | **Decisions in** [R2-1802480](http://3gpp.org/ftp/tsg_ran/WG2_RL2/TSGR2_101/Docs/R2-1802480.zip)**:****1: In handover between LTE connected to 5GC and NR, QoS flow related handling follows the principles defined for intra-NR handover and related information should be included in HandoverPreparationInformation.****2: The same measurement related content is included for the inter-RAT handover from LTE to NR as for the SN addition case in EN-DC.**=> TP to drafted for next meeting. | **Not implemented since this is part of NR SA and not needed for NSA. Also TP expected to be provided for the next meeting.** |
| **16** | **Decision based on** [R2-1802529](http://3gpp.org/ftp/tsg_ran/WG2_RL2/TSGR2_101/Docs/R2-1802529.zip)**:****1 SN can inform MN of the selected BC.** | **Implemented to the latest draft in CG-Config using *BandCombinationIndex*.** |
| **17** | **Decision based on** [R2-1802598](http://3gpp.org/ftp/tsg_ran/WG2_RL2/TSGR2_101/Docs/R2-1802598.zip)**:****1: Remove fullConfigSN from the CG-Config IE.****2: Change to scg-CellGroupConfig, scg-RB-Config in the TP is agreed** | **First agreement already implemented to** [R2-1804044](http://3gpp.org/ftp/tsg_ran/WG2_RL2/TSGR2_101/Docs/R2-1804044.zip)**, but second part is unclear and is not implemented. Suggest to clarify what was the intent.** |
| **18** | **Decision based on Tdoc** [R2-1803042](http://3gpp.org/ftp/tsg_ran/WG2_RL2/TSGR2_101/Docs/R2-1803042.zip) **and resulting TP in** [R2-1803941](http://3gpp.org/ftp/tsg_ran/WG2_RL2/TSGR2_101/Docs/R2-1803941.zip)**:****1) For per-UE gap and independent FR1 gap case, SN indicates to MN the list of SN configured frequencies measured by UE.** **2) For independent FR2 gap case, MN indicates to SN the list of MN configured frequencies measured by UE.****3) Information can be exchanged whenever there is any change in the set of frequencies to be measures.****FFS: Whether any information in addition to the frequencies to be measured is needed for the purpose of handling CSI-RS measurements.****=> In addition add the FR1 gap configuration in the MeasGapConfig and add an indication whether the gap configuration is per UE or per FR (impacts ASN.1 review discussion part 4, 6)** | **Implemented to the latest draft as a separate MeasGapConfig for FR1 (FFS if this is correct - needs to be aligned with the RRM changes in email discussion for part 4)**  |
| **19** | **Decision based on discussion of** [R2-1803102](http://3gpp.org/ftp/tsg_ran/WG2_RL2/TSGR2_101/Docs/R2-1803102.zip)**:****1 Within CG-ConfigInfo specified in 38.331, use a container (octet string) for candidateCellInfoSN to facilitate transparent forwarding of results** | **Implemented to the latest draft** |
| **20** | **The field *ue-InactiveTime* still uses *ffsTypeAndValue*****Submitted by email discussion rapporteur** | **Not implemented yet – unclear which value to use. To be discussed which value to use.** |
| **21** | **Remove -r15 suffixes (not needed for the first release)****Submitted by email discussion rapporteur** | **Implemented to the latest draft** |
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