**3GPP TSG RAN WG2#116bis-e R2-220xxxx**

**Electronic meeting, 17th January - 25th January, 2022**

**Source: ZTE Corporation, Sanechips**

**Title:** **[DRAFT] R2-22xxxx Summary of [Offline 877][SON/MDT] MDT aspects (ZTE)**

**Agenda item:** **8.13.3**

**Document for:** **Discussion and Decision**

# Introduction

This is to address following discussion

**[AT116bise][877][SON/MDT] MDT aspects (ZTE)**

      Based on proposals not concluded yet in R2-2201658 and R2-2201691

      Intended outcome: Report with easy agreements and reasonable WF.

 First phase deadline for companies feedback: 22:22 UTC, Friday Jan 21

 Second phase deadline for summary review: 22:22 UTC, Monday Jan 24

Please add company contact details into the following table to assist communication between delegates.

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| --- | --- | --- |
| **Company** | **Name** | **Email Address** |
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# Discussion

## D1 configuration

Current TS38.331only allows configuring one D1 per CG while it is agreed that the node holding the PDCP entity would configure the UE with D1 measurements, which means it is possible for both MN and SN to configure UE with D1 measurements, thus for one CG there will be multiple D1 configurations.

In order to resolve to misalignment between current specs and precious agreements two solutions are proposed:

* Option 1: Remove the restriction in 38.331 specs, and allows NW to configure more than one D1 per CG;
* Option 2: Keep current restriction (i.e., one D1 is allowed per CG)

Moreover if option 2 is confirmed RAN2 will need to further clarify how to avoid configuring multiple D1 to UE per one CG. in [2] following alternatives are proposed:

* alt1: Only the node where RLC is terminated can configure D1
* alt 2: Coordination is required to guarantee single DT configuration is used per CG

To align between specs and RAN2 agreements, it is proposed RAN2 to confirm whether multiple D1 can be configured per CG. Companies are encouraged to provide their preference and comments if any in table below.

**Question-1: Which of the following options do you prefer for configuring D1 to UE.**

* **Option 1: Remove the restriction in 38.331 specs, and allows NW to configure more than one D1 per CG;**
* **Option 2: Keep current restriction (i.e., one D1 is allowed per CG)**

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| **Company** | **Agree/Disagree** | **Comments** |
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**Question-1a: If your answer to Q1 is option 2, please further indicate which of the following alternatives you prefer to guarantee only one D1 is configured per CG?**

* **Alt1: Only the node where RLC is terminated can configure D1**
* **Alt 2: Coordination is required to guarantee single D1 configuration is used per CG**
* **Others (Please indicate in comments if you have other suggestions)**

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**Rapporteur summary:**

To be added later

## Signalling-based logged MDT protection

It remains uncertain if explicit or implicit T330 indication is needed for signalling based MDT protection. Furthermore, based on companies’ comments in Tuesday online session it worth clarifying that whether to use two indications (both sigLogMeasConfigAvailable and T330 status), or to use one indication (either T330 status or sigLogMeasConfigAvailable) to prevent signalling based MDT configuration from overwritten by management based MDT. Based on contribution in [1][2], following are possible options:

* **Opt1: Implicit solution:**
* The UE can report the flag of T330 status (whether it is running or not)
* T330 status is present if the UE has sig-based logged MDT config or if UE has sig-based logged MDT results otherwise it is absent:
* If T330 status is present, the flag is set to true (or running) if T330 is running, otherwise set to false (or expiry)
* **Opt2: Explicit solution:**
* The UE can report the flag of available sig-based logged MDT, e.g. ENUMERATE {true}
* If the UE has sig-based logged MDT config or if UE has sig-based logged MDT results, the flag is set, otherwise absence
* **Opt3: Both indication as given in opt1/2 is used.**

To have a better comparison of each solutions, the required indications of each solution for different scenarios are summarized in table below.

(logMeasAvailable is legacy indication used to indicate the availability of MDT results regardless type )

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| Scenarios | Option1 | Option 2 | Option 3 |
| Scenario 1:Available signalling MDT configuration and available signalling based MDT results | T330 status set to truelogMeasAvailable  | sigLogMeasConfigAvailable logMeasAvailable  | T330 status set to truesigLogMeasConfigAvailable logMeasAvailable  |
| Scenario 2:Available signalling MDT configuration and no available results | T330 status set to true | sigLogMeasConfigAvailable | T330 status set to truesigLogMeasConfigAvailable |
| Scenario 3:No signalling MDT configuration (i.e., T330 expired) and available signalling results | T330 status set to falselogMeasAvailable  | sigLogMeasConfigAvailablelogMeasAvailable  | T330 status set to falsesigLogMeasConfigAvailablelogMeasAvailable  |
| Others | logMeasAvailable is optionally present if there is management based MDT results availableT330 status is absent | logMeasAvailable is optionally present if there is management based MDT results availablesigLogMeasConfigAvailableis absent | logMeasAvailable is optionally present if there is management based MDT results availablesigLogMeasConfigAvailable is absentT330 status is absent |

Based on above table, it can be observed that all solutions can help NW to know if there is available signalling based logged MDT configuration and/or signalling based logged MDT results. But apparently two indication (i.e., T330 status and sigLogMeasConfigAvailable) can achieve the same purpose thus no need to duplicate this information.

Further based on the comparison table above it can be observed that option 1 can further help NW to differentiate each individual scenarios based on different T330 status in combination with logMeasAvailable indication.

Based on above analysis it is proposed to first confirm that only one explicit indication is needed for signalling based MDT protection. (ffs sigLogMeasConfigAvailable or T330 status )

**Question-2: Do you agree only one explicit indication is needed for signalling based MDT protection. (ffs sigLogMeasConfigAvailable or T330 status ). Please add your comments if any.**

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| **Company** | **Agree/Disagree** | **Comments** |
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**Rapporteur summary:**

To be added later

Furthermore companies are invited to show preference on which options are preferred to assist signalling MDT protection.

**Question-2a: Which of the following options do you prefer for UE to perform EMR logging in logged MDT:**

* **Opt1: Implicit solution:**
* The UE can report the flag of T330 status (whether it is running or not)
* T330 status is present if the UE has sig-based logged MDT config or if UE has sig-based logged MDT results otherwise it is absent:
* If T330 status is present, the flag is set to true (or running) if T330 is running, otherwise set to false (or expiry)
* **Opt2: Explicit solution:**
* The UE can report the flag of available sig-based logged MDT, e.g. ENUMERATE {true}
* If the UE has sig-based logged MDT config or if UE has sig-based logged MDT results, the flag is set, otherwise absence
* **Others (Please indicate in comments if you have other suggestions)**

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| **Company** | **opt1/opt2/others** | **Comments** |
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**Rapporteur summary:**

To be added later

## EMR

Based on [1] there are two interpretation on how *earlyMeasIndication-r17* and *AreaConfig* and/or *InterFreqTargetInfo* iscan be used in combination. And the main difference is how to interpret *earlyMeasIndication-r17,* which includes following understanding:

* Interpretation 1([R2-2200397](file://D://3GPP%20Sync%5C%5CRAN2%5C%5CTSGR2_116bis-e%5C%5CDocs%5C%5CR2-2200397.zip)): It is used to indicate whether UE log early Measurement frequency results in logged MDT based on MDT principles or based on early measurement principles
* Interpretation 2([R2-2200889](file://D://3GPP%20Sync%5C%5CRAN2%5C%5CTSGR2_116bis-e%5C%5CDocs%5C%5CR2-2200889.zip)): It is used to indicate whether UE shall log early measurement results in logged MDT or not.

Moreover in ([R2-2200889](file://D://3GPP%20Sync%5C%5CRAN2%5C%5CTSGR2_116bis-e%5C%5CDocs%5C%5CR2-2200889.zip)) it implies that when logged MDT configuration indicate UE to log EMR measurements UE always perform measurements based on logged MDT measurement principles. It can be seen that the key point is whether UE log EMR based on logged MDT principles or based on early measurement principles. In order to proceed forward, it is suggested that RAN2 first discuss how UE performs measurements on early measurement frequency if configured to do so in logged MDT.

**Question-3: Which of the following options do you prefer for UE to perform EMR logging in logged MDT:**

* **Option 1: UE logs EMR based on logged MDT principles (i.e., similar to neighboring cell measurements logging )**
* **Option 2: UE logs EMR based on either early measurement or logged MDT principles which is configurable by earlyMeasIndication and areaConfig.**
* **Others (Please indicate in comments if you have other suggestions)**

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| **Company** | **opt1/opt2/others** | **Comments** |
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Further, following options has been proposed to interpret different configuration of *earlyMeasIndication-r17* and extended *AreaConfig* and/or *InterFreqTargetInfo:*

* Opt 1[([R2-2200397](file://D://3GPP%20Sync%5C%5CRAN2%5C%5CTSGR2_116bis-e%5C%5CDocs%5C%5CR2-2200397.zip))], following detailed behavior are proposed:
1. If *earlyMeasIndication-r17* is configured in *loggedMeasurementConfiguration* and extended *AreaConfig* and/or *InterFreqTargetInfo* is not present:

 - UE performs logged MDT measurement and logging according to legacy MDT measurement performance principles

 - UE logs early measurement results which is measured based on early measurement performance principles in logged MDT measurement report

1. If *earlyMeasIndication-r17* is not configured in *loggedMeasurementConfiguration* and extended *AreaConfig* and/or *InterFreqTargetInfo* is present:

- UE performs logged MDT measurement and logging according to legacy MDT measurement performance principles

1. If *earlyMeasIndication-r17* is configured in *loggedMeasurementConfiguration* and extended *AreaConfig* and/or *InterFreqTargetInfo* is present:

- UE ignores *earlyMeasIndication-r17*

- UE performs logged MDT measurement and logging according to legacy MDT measurement performance principles

* Opt 2 ([R2-2200889](file://D://3GPP%20Sync%5C%5CRAN2%5C%5CTSGR2_116bis-e%5C%5CDocs%5C%5CR2-2200889.zip)) detailed understanding of EMR related MDT configuration is as below:
1. The UE can be configured with an explicit flag to indicate whether early measurement related frequencies should be logged in MDT report
	1. If this flag is present, then the UE is allowed to log early measurement frequencies in logged MDT report
	2. If this flag is absent, then the UE is not allowed to log early measurement frequencies in logged MDT report
2. If the UE is configured with ***InterFreqTargetInfo*** then the UE performs logging of measurements only on these frequencies.
	1. If the OAM has configured the flag in 1), the OAM is allowed to configure early measurement frequencies in ***InterFreqTargetInfo*** (implementation can take care of such requirement)
3. If the UE is **not** configured with ***InterFreqTargetInfo,*** the UE performs logging of measurements on:
	1. If the flag in 1) is set, the UE logs measurements for early measurements frequencies and reselection frequencies.

**Question-3a: which of above understanding do you agree for EMR logging in logged MDT, please indicate in the comments if you have different suggestions.**

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**Rapporteur summary:**

To be added later

**Moreover following proposal are made in [2] to discuss how to log EMR MDT results together with MDT results:**

**Proposal 4: For how the UE sets the EMR results in logged MDT results, it is proposed to decide on one option from the following options:**

Option A: no impacts to logged MDT results, and the UE just replaces logged MDT results with EMR results

Option B: introduce new fields of EMR results into logged MDT results

**Question-3a: which of following options do you agree for setting EMR results in logged MDT results:**

* **Option 1: no impacts to logged MDT results, and the UE just replaces logged MDT results with EMR results**
* **Option 2: introduce new fields of EMR results into logged MDT results**
* **Others (please indicate in the comments if you have different understandings)**

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| **Company** | **Opt1/opt2/others** | **Comments** |
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## CEF report

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| **TDoc** | **Company name** | **Proposals** |
| [R2-2200397](file://D://3GPP%20Sync%5C%5CRAN2%5C%5CTSGR2_116bis-e%5C%5CDocs%5C%5CR2-2200397.zip) | CATT | **Proposal 3: RAN2 to agree only one PLMN could be recorded in the CEF list.****Proposal 4: RAN2 to agree structure 3 (figure 3), i.e. each entry for each connection failure on a cell or on different cell for multiple CEF reports.** |
| [R2-2200648](file://D://3GPP%20Sync%5C%5CRAN2%5C%5CTSGR2_116bis-e%5C%5CDocs%5C%5CR2-2200648.zip) | Samsung | **Proposal 1: Clarify that multiple CEF reports are associated with one single cell.** **Proposal 2: Upon RPLMN changes or the latest failure cell changes the UE clears the consecutive connection establishment/resume failure information if stored as in R16.** **Proposal 3: Existing availability indicator (e.g. connEstFailInfoAvailable) is used for indicating single CEF report with multiple CEF information.** **Proposal 4: Existing retrieval indicator (e.g. connEstFailReportReq) is used for retriving single CEF report with multiple CEF information.****Proposal 5: Make the feature of multiple CEF reports optional without reporting.**  |
| [R2-2200889](file://D://3GPP%20Sync%5C%5CRAN2%5C%5CTSGR2_116bis-e%5C%5CDocs%5C%5CR2-2200889.zip) | Ericsson | **[Proposal 8 RAN2 introduces a new capability bit for UEs capable of multiple CEF reports.](#_Toc90647047)****[Proposal 9 RAN2 agree to flush the existing CEF reports upon logging a CEF report in a cell with a new RPLMN identity.](#_Toc90647048)****[Proposal 10 RAN2 agree that UE logs one CEF report entry in multiple CEF report list, for the failures happening consecutively in the same cell.](#_Toc90647049)****[Proposal 11 RAN2 agree that the maximum number of CEF reports is equal to 8.](#_Toc90647050)** |
| [R2-2201042](file://D://3GPP%20Sync%5C%5CRAN2%5C%5CTSGR2_116bis-e%5C%5CDocs%5C%5CR2-2201042.zip)  | Nokia, Nokia Shanghai Bell, CMCC | **Proposal 5: UEInformationResponse with multiple CEF reports do not convey detailed RACH reports.****Proposal 6: The UE indicates separate availability indicator for multiple CEF reports.****Proposal 7:** **The UE indicates separate availability indicator for RACH report.** |

Several proposals are made on different aspects on MDT configuration, since this is first time RAN2 discuss details on multiple CEF reports thus all proposals will be considered with possible merging to reduce redundancy.

**Stored conditions**

Three companies made proposals on the condition to store multiple CEF reports and two companies propose to only allow Multiple CEF reports in one PLMN, which means upon change or RPLMN UE will delete the stored CEF if available.

Moreover, following enhancements are raised:

In [R2-2200648](file://D://3GPP%20Sync%5C%5CRAN2%5C%5CTSGR2_116bis-e%5C%5CDocs%5C%5CR2-2200648.zip) it is further propose to only allow multiple CEF within the same cell, but based on this solution it also implies that only one PLMN is allowed in multiple CEF.

In [R2-2200889](file://D://3GPP%20Sync%5C%5CRAN2%5C%5CTSGR2_116bis-e%5C%5CDocs%5C%5CR2-2200889.zip) is suggest that to allow one CEF entry for consecutive failure in the same cell can further decrease the overhead.

In [R2-2200397](file://D://3GPP%20Sync%5C%5CRAN2%5C%5CTSGR2_116bis-e%5C%5CDocs%5C%5CR2-2200397.zip), a comparison is given on how numberOfConnFail and each entry can be stored in case multiple CEF reports are stored and following option is suggest to log multiple CEF report

* Each CEF report can be for the same or different cell ,where numberOfConnFail can be set across cell and is dummy across entries;

Based on above analysis, it is consensus that only one PLMN is allowed in multiple CEF, thus Rapporteur propose first confirm the understanding in P4, and then further discuss which of above options is preferred for logging of multiple CEF report.

**Proposal : Only one PLMN is allowed in multiple CEF reports and UE clears stored connection establishment/resume failure information upon logging a CEF report in a cell with a different RPLMN identity**

**Question-4: Do you agree on above proposal ? Please add your comments if any.**

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| **Company** | **Agree/Disagree** | **Comments** |
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**Rapporteur summary:**

To be added later

**Question-5: Which of the following alternatives do you prefer for logging multiple CEF reports? Please add your comments if any.**

* **Opt1: UE logs multiple CEF in the same cell**
* **Opt2:UE logs one CEF report entry in multiple CEF report list, for the failures happening consecutively in the same cell.**
* **Opt3: UE logs multiple CEF in the same or different cell and numberOfConnFail can be dummy across different CEF entries**
* **Others (please indicate in comments if you have other suggestions)**

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| **Company** | **Opt1/opt2/opt3/others** | **Comments** |
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**Rapporteur summary:**

To be added later

It is suggested in [2] to further discuss the maximum number of CEF reports allowed, and in [[R2-2200889](file://D://3GPP%20Sync%5C%5CRAN2%5C%5CTSGR2_116bis-e%5C%5CDocs%5C%5CR2-2200889.zip)] 8 is proposed as the max number of CEF report stored.

**Question-6: Do you agree that the maximum number of CEF report is 8? If not please give your suggestion in table below.**

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**Rapporteur summary:**

To be added later

**CEF content:**

In [R2-2201042](file://D://3GPP%20Sync%5C%5CRAN2%5C%5CTSGR2_116bis-e%5C%5CDocs%5C%5CR2-2201042.zip) it is observed that current CEF mandatory contains perRAInfoList which will be extended to include multiple RACH reports when multiple CEF reports are stored, thus it will lead to problem on associate RA attempt to the corresponding CEF. Therefore it suggests to remove the detailed RA report outside CEF report if multiple CEF report is stored. Rapporteur consider it is important that companies have consensus on how RA information will be included multiple CEF reports therefore suggest to further discuss how to handle the logging of RA information when multiple CEF report is stored.

**Question-7: Do you agree to remove detailed RACH report (i.e., perRAInfoList) out of CEF report if multiple CEF is stored? Please add your comments if any.**

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**Rapporteur summary:**

To be added later

**Request/Report procedure:**

Two options has been proposed to indicate the availability of multiple CEF reports:

* Option 1: Existing availability bit and request bit is used for multiple CEF reports;
* Option 2: Separate availability bit is used to indicate presence multiple CEF reports

**Question-8: Which of the following options you prefer to indicate availability of multiple CEF report?**

* **Option 1: Existing availability bit and request bit is used for multiple CEF reports;**
* **Option 2: Separate availability bit is used to indicate presence multiple CEF reports**
* **Others (please indicate in comments if you have other suggestions)**

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| **Company** | **Opt1/opt2/others** | **Comments** |
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**Rapporteur summary:**

To be added later

**Capability bit**

There are two options proposed for capability handling of CEF report, it is suggest RAN2 to further discuss below options:

* Opt 1: New capability bit is introduced to indicate if UE supports multiple CEF
* Opt 2: Multiple CEF is optional without signalling

**Question-9: Which of the following options you prefer for multiple CEF report capability signalling:**

* **Opt 1: New capability bit is introduced to indicate if UE supports multiple CEF**
* **Opt 2: Multiple CEF is optional without signalling**
* **Others (please indicate in comments if you have other suggestions)**

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| **Company** | **Opt1/opt2/others** | **Comments** |
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**Rapporteur summary:**

To be added later

## IMM MDT scenario clarification

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| **TDoc** | **Company name** | **Proposals** |
| [R2-2200396](file://D://3GPP%20Sync%5C%5CRAN2%5C%5CTSGR2_116bis-e%5C%5CDocs%5C%5CR2-2200396.zip) | CATT | **Proposal 1: Change“Immediate MDT is supported for EN-DC scenario” to “Immediate MDT is supported for all MR-DC scenarios” in section 5.4.1.3 Immediate MDT for MR-DC in TS 37.320.** |
| [R2-2201042](file://D://3GPP%20Sync%5C%5CRAN2%5C%5CTSGR2_116bis-e%5C%5CDocs%5C%5CR2-2201042.zip) | Nokia, Nokia Shanghai Bell, CMCC | **Proposal 11:** M5 ~ M7 configuration triggers can apply to MR-DC. |

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| R2-2104441 Report of [AT113b-e][803][NR/R17 SON/MDT] IMM MDT HuaweiAgreements:1 For MN terminated SCG bearer and SN terminated MCG bearer, the terminated node, e.g., MN in case of MN terminated SCG bearer,configures the configuration to UE.=> RAN2 understanding is that for the accuracy of the result, the M6 result can be indicated with data marker (duplication indicator). => All the immediate MDT configurations and reporting in EN-DC scenario (i.e. section 5.4.1.3 Immediate MDT for MR-DC in TS 37.320) are also applicable for (NG)EN-DC, NE-DC and NR-DC.  |

There are three companies mentioned that IMM MDT can be extended to all MR-DC scenarios. Based on above highlighted agreements rapporteur consider it is fair to confirm the understanding and capture the agreements in stage 2 CR. Therefore following proposal is made:

**Proposal : Capture in 37320 that M5 ~ M7 configuration triggers can apply to MR-DC.**

**Question-10: Do you agree on proposal given above? Please add your comments if any.**

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## On-demand SI

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| [R2-2200397](file://D://3GPP%20Sync%5C%5CRAN2%5C%5CTSGR2_116bis-e%5C%5CDocs%5C%5CR2-2200397.zip) | CATT | **Proposal 5: RAN2 to take the connected on-demand SI request cases into consideration.** |
| [R2-2200889](file://D://3GPP%20Sync%5C%5CRAN2%5C%5CTSGR2_116bis-e%5C%5CDocs%5C%5CR2-2200889.zip) | Ericsson | **[Proposal 2 RAN2 agree to include the successful SI request procedure related information in RA report by removing the conditions that preclude logging of successful SI request related information.](#_Toc90647038)** |
| [R2-2201327](file://D://3GPP%20Sync%5C%5CRAN2%5C%5CTSGR2_116bis-e%5C%5CDocs%5C%5CR2-2201327.zip) | ZTE | **Proposal 1: UE includes intended requested SI for successful Msg1/Msg3 on-demand SI request case in RA report.** |

Three companies suggest to support more on-demand SI scenarios. Speaking from rapporteur point of view, for connected on demand SI, since it is not requested through RACH procedure thus it will require RAN2 to discuss proper signalling to carry such information, which might not be able to complete in this release, thus it is suggest not to pursue in this release..

Rapporteur shares some sympathy on supporting logging of successful on-demand SI in RACH procedure since the signalling is already there, and it does provide additional gain. Therefore it is suggested to have one last try on below proposal:

**Proposal : RAN2 agree to include the successful SI request procedure related information in RA report by removing the conditions that preclude logging of successful SI request related information.**

**Question-11: Do you agree on proposal given above? Please add your comments if any.**

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| **Company** | **Agree/Disagree** | **Comments** |
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**Rapporteur summary:**

To be added later

# Conclusion

To be added later

# Reference

1. R2-2201658 Summary on MDT aspects ZTE
2. R2-2201691 Summary on issues for MDT RRC CR Huawei
3. R2-2200010, Running 38.331 for introducing R17 MDT, Huawei, HiSilicon