3GPP TSG-RAN WG2 #118-e R2-22xxxxx

Electronic meeting, 09th May– 20th May 2022

Agenda Item: 6.13.3

Source: Ericsson, Huawei

Title: Summary of RILs discussion

Document for: Discussion, Decision

# Introduction

This contribution lists all the open issues that need to be discussed for SON/MDT with prioritizing the RILs with impact on the ASN.1 in section 1 and RILs without impact on the ASN.1 in section 2.

* **[AT118e][801][SON/MDT] Summary of RILs discussion (Ericsson, Huawei)**

For 1st round: Based on pre118 #801 email discussion, figure out the controversial RILs and RILs with easy agreeable proposals.

For 2nd round: Discuss NOKIA094, H073, Z422 and proposal 3-19 in R2-2206344 and try to get consensus on these issues.

1st round Intended outcome: Report full of proposals…

1st round Deadline: 11:23 UTC, Tuesday May 10th

2nd round Intended outcome: Report full of proposals…

2nd round Deadline: 11:23 UTC, Monday May 16th

Please provide your comments until Sunday May 15th, 13:00 UTC, so we could summarize and derive the conclusions for the Monday session.

# 2. Discussion

## 2.1 RILs with impact on ASN.1

The following RILs are considered with impact on ASN.1 and hence we prioritize them to conclude them latest in the next online session.

In C306 two different aspects related to the signalling based MDT protection is discussed. In the first part we agree that there is no need to condition the protection of the signalling based logged MDT procedure to the PLMN. However, the second part of the RIL discusses to change the *sigLogMeasConfigAvailable* flag to ENUMERATED {true} format. However, rapporteur believes the current implementation i.e., BOOLEAN format provides more valuable information to the network. We explain it in the following scenarios:

1-  T330 Timer is running i.e., the UE has the signaling based MDT configuration: flag will be set to true and network knows it should not override the configuration

2- T330 Timer expires but the UE still has the MDT results associated to the signaling based MDT configuration. We verify this case of interest under following implementation (ENUMERATED and BOOLEAN).

1. **Assuming that we implement the flag as ENUMERATED true**, then the UE sets the flag to true (not distinguishing from previous case (1)), then the network does not know that after fetching the reports, can it configure the UE with the new management-based MDT configuration or it may beach the rule of protection of signaling based MDT. In fact, it is not possible for the network to deduce whether the fetched report was the last report (since MDT stopped at the UE) or network should wait further for more s-based reports?
2. **Assuming that we implement the flag as BOOLEAN,** then the UE sets the flag to false the network knows that there will be no more s-based report and hence it can configure management based MDT without risking s-based MDT report. So network receives sufficient information to not breach the rule of protection of signaling based MDT.

3-T330 timer expired (no MDT configuration) and there is no signaling based MDT result. The flag will be absent, hence network can configure the UE with a management based MDT configuration.

Hence, rapporteur would like to ask companies to provide their view on the following question.

* **Q1: [C306] Do you agree that RAN2 should keep the *sigLogMeasConfigAvailable* flag with BOOLEAN format that is optionally present (as implemented in the current specification)?**

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**Conclusion**: **TBW**

Various RILs addressing MHI has been left for further discussion (i.e. E120, E121, E122, H098, NOKIA094, NOKIA093). Rapporteur proposes first discussing the principle that should be followed for the PSCell MHI. In legacy Rel.16 specification, the information associated to the last visited PCell X are added into the MHI at PCell X transition (e.g. when the UE moves from the PCell X to PCell Y), not when the UE enters the PCell X.   
In the current Rel.17 specification, the PSCell MHI is handled in a similar way as the Rel.16 PCell MHI: the PSCells visited while connected to a certain PCell X are appended to the MHI within the nested structure upon PCell change, i.e., when the UE moves from PCell X to PCell Y, the UE includes into the MHI the PCell X information and all the PSCells visited while connected to the PCell X into the nested structure.  
In order to ensure consistency between Rel.16 PCell MHI, and Rel.17 PCell MHI both from specification point of view, and from the UE point of view, Rapporteur believes that we should keep the above principle.

* **Q2: As implemented in the current Rel.17 specification, do you agree to adopt for the Rel.17 PSCell MHI the same principles as the Rel.16 PCell MHI? i.e., the PSCells visited while connected to a certain PCell X are appended to the MHI in the nested structure when the corresponding PCell X related entries are appended to the MHI (i.e., upon change of PCell X or when entering 'any cell selection').**

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**Conclusion**: **TBW**

In the following, it is discussed both cases in which the answer to Q2 above is “agree” and “disagree”.

If the outcome of Q2 is “agree”, it seems necessary that the UE maintains a temporary variable that temporarily stores visited PSCell entries for all the PSCells visited while connected to the PCell X. The temporary variable may also, include entries associated to “time without PSCells” with the corresponding time spent while not having no PSCells while being in RRC CONNECTED mode. Then, when the UE transits from the PCell X to the PCell Y or when the UE goes to ‘any cell selection’ state , the UE appends to the visitedCellInfoList of the variable VarMobilityHistoryReport, both the PCell X information (as in Rel.16) and within the new Rel.17 nested structure, all the associated PSCell entries stored in the temporarily variable.

* **Q3: If the outcome of Q2 is “agree”, do you agree to introduce a temporary variable that stores all the visited PSCells (including entries with no PSCell while being in RRC Connected mode) while the UE is connected to a certain PCell X)?** 
  1. **When the UE transits from the PCell X to the PCell Y or it goes from PCellX to ‘any cell selection’ state, the UE appends to the visitedCellInfoList of the variable VarMobilityHistoryReport, both the PCell X information (as in Rel.16) and within the new Rel.17 nested structure, all the associated PSCell entries stored in the temporarily variable.**

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**Conclusion**: **TBW**

If the outcome of Q2 is “disagree”, the alternative is to modify the legacy approach of PCell MHI handling. In R2-2204878, it is proposed that a PSCell entry should be added into the nested structure as soon as the UE enters the PSCell A while connected to PCell X, and this entry should then be modified with the timeSpent when the UE exits the PSCell A. However, Rapporteur notes that according to the current legacy approach when the UE enters the said PSCell A the MHI does not contain yet the PCell X, because that is added when the UE transits from PCell X to PCell Y.

Hence in order to realize this approach it is needed that when changing the PCell, the UE would need to add in the MHI the previous PCell information (as in Rel.16) and a new entry for the new PCell which is just entered, i.e. when the UE transits from PCell X to PCell Y, the UE includes in the MHI the information of the previous PCell X (as in legacy) and an entry for the new PCell Y which is left empty until the PCell Y is changed.   
Rapporteur’s main concern is that this design changes the legacy principle, and the legacy handling of PCell MHI may be affected both from specification point of view, and UE implementation. Rapporteur also notes that this change might also be not backward compatible.

* **Q4: If the outcome of Q2 is “disagree”, do you agree to the legacy PCell MHI handling should be changed?**
  1. **i.e. when changing the PCell, the UE would need to add in the MHI the previous PCell information (as in Rel.16) and a new entry for the new PCell which is just entered, i.e. when the UE transits from PCell X to PCell Y, the UE includes in the MHI the information of the previous PCell X (as in legacy) and an entry for the new PCell Y which is left empty until the PCell Y is changed. While the UE is connected to the PCell Y, the UE appends into the PCell Y entry of the MHI the visited PSCells one by one**

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In Z422, it is proposed to remove the msgA-SCS-From-prach-ConfigurationIndex, and use just msgA-SubcarrierSpacing both for the case in which the configured msgA-SubcarrierSpacing was used in the RA procedure and when it was not used.

Rapporteur notes that in order to pursue this change, it is necessary to introduce a new Rel-17 IE, namely SubcarrierSpacing-r17 IE, since the current legacy Rel.15 SubcarrierSpacing IE does not contain the values 1.25KHz and 5Khz. Additionally, it should be clarified in the specification that this new Rel.17 SubCarrierSpacing-r17 is only used for SON purposes, since for all the other NR operations the Rel.15 SubcarrierSpacing should be used. Rapporteur believes that this change brings extra specification work that is unnecessarily, and it is not clear what benefit the approach proposed in Z422 really brings.

* **Q5: [Z422] Do you see the need to remove the msgA-SCS-From-prach-ConfigurationIndex IE and only use the msgA-SubcarrierSpacing both for the case in which the configured msgA-SubcarrierSpacing was used in the RA procedure and when it was not used?**
  1. **Please note that if this change is pursued, it is necessary to introduce a new Rel.17 SubcarrierSpacing IE that contains the values 1.25KHz and 5Khz**

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In E079 Ericsson has discussed that it would be beneficial if the UE includes in the SHR and/or in the RLF-Report the RA-InformationCommon associated to the source PCell, if there is an RLF in the source cell due to random access problem while performing a DAPS HO. Rapporteur thinks we have not discussed whether the UE should include RA-InformationCommon in case of source RLF in DAPS HO due to RA problems, as we do for the target cell. If this change is introduced, RAN2 would need to add an *ra-InformationCommonSource* IE in order to differentiate this information from the *ra-InformationCommon* IE which just includes target cell-related RA information.

* **Q6: [E079] Do you see benefits of including in the SHR and/or in the RLF-Report, the RA-InformationCommon associated to the source PCell if there is an RLF in the source cell while performing a DAPS HO?**
  1. **Yes, only in the SHR**
  2. **Yes, only in the RLF-Report**
  3. **Yes, both in the SHR and RLF-Report**
  4. **Neither in the SHR nor in the RLF-Report**

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**Conclusion**: **TBW**

Related to H099, it is proposed some rules so that the MN/SN RACH report can be handled separately. That is because the UE may add RACH report for MN or SN based on the RA, and it may happen that the UE firstly does lots of RA on SN, and then the RA report list is full. In this case, it is impossible for the UE to log RA report for MN separately from the SN. Rapporteur highlights that this might require some ASN.1 effort that should be taken into account.

* **Q7: Do you see the need to define mechanisms for the UE to log RA-Report for MN separately from SN?**

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**Conclusion**: **TBW**

## 2.2 RILs without impact on ASN.1

In H073 it has been discussed that the following procedural text says "if the successHO-Report in..." but it is unclear what it means if the UE actually does not have anything.

1> if the *successHO-ReportReq* is set to *true* and if the RPLMN is included in the *plmn-IdentityList* stored in *VarSuccessHO-Report*:

2> if the *successHO-Report* in the *VarSuccessHO-Report* concerns a DAPS handover:

Rapporteur understands that the scenario might be possible e.g., UE flags the availability of the successHO-Report but networks tries to fetch the report after 48 hours which may lead to the absence of the report at the time of fetching. However, rapporteur also thinks checking the availability of the successHO-Report in the VarSuccessHO-Report may not be needed, as the second condition concerning the RPLMN (yellow highlighted) would not allow the UE to move forward with the addition of the successHO-Report if there is not such report logged by the UE. In fact, if the sucessHO-Report is deleted from the VarSuccessHO-Report the UE also deletes the associated PLMN in the VarSuccessHO-Report which means the RPLMN will not be included in the report at the time of fetching and hence the UE will not proceed with adding successHO-Report to the UEInformationResponse message. Please note that such check for the RLF report (i.e., checking the availability of the RLF report) was not needed. The only place that such check is required is for MDT report wherein the PLMN is added VarLogMeasReport, right after receiving the MDT configuration from the network.

Hence Rapporteur proposes:

* Q8: Do companies agree that checking the availability of the successHO-Report at the time of receiving the sucessHO-ReportReq is not needed as RPLMN will not be included in the VarSuccessHO-Report when successHO-Report is deleted?

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In C327 it has been discussed that the CHO will not be executed for MobilityFromNR as the inter-RAT CHO is not supported in Rel-16 CHO feature, therefore, the *timeSinceCHO-Reconfig* is not available (S706 also provides a similar proposal). Similarly, for *choCandidateCellList,* it should be “failure handover” instead of “failure conditional handover”. Rapporteur agrees with changing the “failed conditional handover” to a failed handover. However, Rapporteur believes that the scenario of a UE being handed-over to LTE while being configured with CHO should be considered. This scenario has now been implemented in the rapporteur CR, so that the UE logs the time between receiving the last RRC Reconfiguration message including the CHO reconfiguration with sync until executing a normal HO (including mobility from NR) that is failed. 2> if configuration of the conditional handover is available in *VarConditionalReconfig* at the moment of the handover failure:

3> if the UE executed a conditional handover toward target PCell according to the *condRRCReconfig* of the target PCell:

4> set *timeSinceCHO-Reconfig* to the time elapsed between the execution of the last *RRCReconfiguration* message including *reconfigurationWithSync* for the target PCell of the failed conditional handover, and the reception in the source PCell of the last *conditionalReconfiguration* including the *condRRCReconfig* of the target PCell of the failed conditional handover;

3> else:

4> set *timeSinceCHO-Reconfig* to the time elapsed between the execution of the last *RRCReconfiguration* message including *reconfigurationWithSync* for the target PCell of the failed handover, and the reception in the source PCell of the last *conditionalReconfiguration* including the *condRRCReconfig*;

And specifically for Mobility from NR:

2> if configuration of the conditional handover is available in *VarConditionalReconfig* at the moment of the handover failure:

3> set *timeSinceCHO-Reconfig* to the time elapsed between the execution of the last *RRCReconfiguration* message including *reconfigurationWithSync* for the target PCell of the failed handover, and the reception in the source PCell of the last *conditionalReconfiguration* including the *condRRCReconfig*;

In the case of Mobility From NR the UE performs a legacy HO and hence it can still log timeSinceCHOReconfig up to the moment of the failure

* Q9: [C327] Do companies agree to keep the current implementation that UE logs the timeSinceCHOReconfig for the scenarios that UE performs legacy handover (e.g., mobility from NR) while being configured with CHO configuration.

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| **Company** | **Agree/Disagree** | **Comments** |
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**Conclusion**: **TBW**

In [E075] Ericsson has proposed that the *timeSinceFailure* as of now is not logged for the CEF report logged in the CEF report list while it is a mandatory IE that should be logged upon logging or reporting CEF report. Hence a solution should be accommodated in the procedural text to cover the existing gap in the CEF reporting. Therefore, rapporteur would like to ask companies to provide their view on the following identified solutions.

* Q10: [E075] Which of the following options do companies prefer on how the UE logs the timeSinceFailure in the case of CEF report list?

1. UE logs for each failure included in the CEF report list, the timeSinceFailure as the time between each failure (i.e., time between the current failure and the previous failure) in the CEF report list,
2. UE logs for each failure included in the CEF report list, the timeSinceFailure as the time between each failure and the time of reporting the whole CEF report list to the network (this is similar to the legacy procedure in which the timeSinceFailure is represented as the time elapsed between the failure and the reporting of the failure).

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**Conclusion**: **TBW**

Z406 and Z408 are related to the UE capabilities based inclusion of CHO and DAPS failure related information in the RLF report. This seems to be a straightforward implementation from the rapporteur’s point of view. However, it would be good to have an explicit agreement based on these RILs.

* Q11: [Z406, Z408] Do companies agree to update the procedural text to include CHO and DAPS related RLF report contents in the RLF report based on explicit UE capability information?

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**Conclusion**: **TBW**

For H095, Huawei proposes to use network based solution. However, the RAN3 discussions have been for the SHR and based on the LS reply received in RAN2 and the agreements in RAN2, the current implementation seems to be correct.

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| From LS R2-2204405: |

Of course, RAN2 can further change our specification if RAN3 agrees any network based solution for too early handover and too late handover related RLF cases as well.

* Q12: [H095] Do companies agree to stick to the agreement reached in RAN2#117, on the inclusion of CHO configuration in the RLF report for the case of too late CHO, unless a new LS is received from RAN3.

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**Conclusion**: **TBW**

For Z410, ZTE propose to extend the inclusion of *failedPSCellID* for the PSCell addition scenarios and restrict the inclusion of previousPSCellID to the PSCell change scenarios. Rapporteur would like to ask the companies their opinion on this topic.

* Q13: [Z410] As part of *SCGFailureInformation* logging, do companies agree to extend the inclusion of *failedPSCellID* for the PSCell addition scenarios and restrict the inclusion of previousPSCellID to the PSCell change scenarios.

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**Conclusion**: **TBW**

In H074 it has been indicated that the user plane interruption time is not accurately covering all the possible scenarios e.g., when the UE didn’t receive any non-duplicated packet from the target RAN node. In order to address this issue, Rapporteur would like to ask companies to provide their view on the following options to capture the UPInterruptionTimeAtHO.

* Q14: [H074] RAN2 discuss what/if changes are needed to the current handling of the user plane interruption time, e.g.
  1. The UE includes the *upInterruptionTimeAtHO* only if a PDCP PDU was received from the source cell of the concerned HO, and a non-duplicated PDCP PDU was received from the target cell of the concerned HO
  2. The UE measure the time from the receiving last PDCP PDU packet in the source cell to the time of reporting *upInterruptionTimeAtHO*, if the UE did not receive any non-duplicated packet in the target cell.

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**Conclusion**: **TBW**

In NOKIA096, Nokia mentioned that from current procedural text it is not clear whether all the triggering conditions are applied to the DAPS HO or not. Rapporteur believes that SHR triggering conditions such as T304 threshold or T310 and T312 thresholds are not dependent to any HO type and hence are applicable to HO including the DAPS HO (namely, the specification does not preclude applying such thresholds to the DAPS HO). Hence rapporteur would like to ask companies whether they agree that no further changes are required in the specification

* Q15: [NOKIA096] Do companies agree that all the SHR triggering thresholds including T304, T310 and T312 thresholds are applicable to the DAPS HO, beside the sourceDAPS-FailureReporting (i.e., no changes to the current spec needed)?

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**Conclusion**: **TBW**

In C326, CATT mentions that in SHR, the CHO candidate cells, those which were not logged as part of neighbor cell measurements, can be logged in CHOCandidateCellList, similar to the RLF report. Rapporteur believes there is no agreement to include the CHOCandidateCellList in the SHR report.

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| From RAN2#117:   * Keep the CHO candidate cell list and the CHO configuration only in the RLF-Report (not in the SHR), as in the current running CR. This agreement can be revisit depending on RAN3 progress |

Hence Rapporteur would like to ask the companies the following question.

* Q16: [C326] Do companies agree to stick to the current agreement that the CHOCandidateCellList are not included in the SHR?

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**Conclusion**: **TBW**

In H106, Huawei discusses that timeSinceCHOReconfig may not need to be set for the scenarios that RLF occurs and there is no CHO configuration. Rapporteur agrees with the scenarios, but believes that the current implementation already covers such scenarios as the current procedure says: “*if configuration of the conditional handover is available in VarConditionalReconfig at the moment of declaring the radio link failure*:”. Hence Rapporteur thinks no change is needed but RAN2 can confirm the scenario.

* Q17: [H106]: Do companies agree that *timeSinceCHOReconfig* will be logged when configuration of conditional handover is available in *VarConditionalReconfig* at the moment of declaring the radio link failure, or handover failure (i.e., no changes to the current spec)?

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**Conclusion**: **TBW**

The RILs C322 an E076 highlight that the actions related to msg1 CBRA should be performed after the actions for msgA CBRA. That is because some fields should not be set again if their values are the same as the 2-step RA counterparts, e.g. the msg1-FrequencyStart should be set only if that is different than msgA-RO-FrequencyStart. This seems to require that the 2-step RA parameters should be set before the msg1 parameters. Hence rapporteur would like to ask the following question.

* Q18: [C322, E076] Do companies agree that setting of the 2-step parameters can be moved before the setting of the 4-step RA parameters.

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| **Company** | **Agree to move/disagree to move** | **Comments** |
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**Conclusion**: **TBW**

Related to H099, it is proposed whether to split into two if conditions the setting of the msg1-SubcarrierSpacing, wherein in the first “if” condition it is checked if msg1-SubcarrierSpacing is available, and in the second “if” condition it is checked if its value is different from the value of msgA-SubcarrierSpacing. Rapporteur´s view is that this seems to be a minor editorial correction.

* Q19: [H099] Do you see the need to split into two “if” conditions the setting of the msg1-SubcarrierSpacing, wherein in the first “if” condition it is checked if msg1-SubcarrierSpacing is available, and in the second “if” condition it is checked if its value is different from the value of msgA-SubcarrierSpacing.

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| **Company** | **Agree to split/Disagree to split (keep current spec)** | **Comments** |
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**Conclusion**: **TBW**

Related to the RIL H096, it is proposed to define a way to handle SN and MN RA-Report separately. However, rapporteur thinks this can be seen as an optimization and in addition the solution may require more discussion and decision. Hence given the limited time rapporteur would like to ask other companies view if they agree to postpone this topic.

* Q20: [H096] Do companies agree to postpone the discussion on designing the solutions for separately handling of SN and MN RA reports.

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| **Company** | **Agree/ Disagree** | **Comments** |
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**Conclusion**: **TBW**

# Conclusions

**TBW**