**3GPP TSG-RAN WG2 Meeting #119-bis electronic R2-22nnnnn**

**Online, 10th – 19th October, 2022**

**Agenda Item:**  **8.13.4**

**Source: Ericsson (Summary rapporteur)**

**Title:** **Pre-meeting summary of 8.13.4 SHR and SPCR (Ericsson)**

**WI code(s): NR\_ENDC\_SON\_MDT\_enh2-Core**

**Document for: Discussion and Decision**

# Introduction

This summary paper addresses the proposals proposed as part of 8.13.4 dedicated to SPCR and Inter-RAT SHR.

# Summary

This summary comprises two sections, in the first section (2.1) the proposals concerning SPR (or SPCR) are discussed and summarized and in the second section (2.2) proposals concerning inter-RAT SHR are discussed and summarized.

## Proposals extracted for SPR enhancement

###  Scenarios

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| --- | --- |
| Company | Proposal |
| VIVO [1] | **Proposal 1:** RAN2 to confirm the scenarios for SPCR for NR-DC, including:•SN- and MN-initiated classic PSCell change / CPC•intra-SN classic PSCell change / CPC•classic Addition / CPA•HO with SN change (possibly addressed once the basic solution for SPCR is known)change shall be considered. |
| Samsung [3] | **Proposal 4:** SPCR can be applicable for both CPA/CPC and legacy PSCell addition/PSCell change. |
| Huawei [4] | Proposal 6a: RAN2 to focus on the following cases of SPCR:•Scenario 1(classic PSCell change): 1a. SN/ MN-initiated classic PSCell change; 1b. Intra-SN classic PSCell change;•Scenario 2(conditional PSCell change): 2a. SN/ MN-intimated CPC; 2b. Intra-SN CPC;Proposal 6b: RAN2 for further discuss whether the following scenarios should be considered under the SPCR:•Scenario 3: 3a. Classic addition; 3b. CPA;Proposal 6c: RAN2 to deprioritize the following scenario under the SPCR:•Scenario 4: HO with SN change; |
| ZTE [11] | 1. Proposal 3: RAN2 focus on below scenarios for SPCR in NR-DC:
2. ₒSN- and MN-initiated classic PSCell change / CPC
3. ₒintra-SN classic PSCell change / CPC
4. ₒclassic Addition / CPA
 |
| Qualcomm [12] | Proposal 3: As indicated by RAN3 in LS R2-2209104, RAN2 should initially focus on basic solutions for SPCR without handover. |

Among the contributions, 4 companies proposed to first discuss and agree on the scenarios. Companies [1][3][11] focus on the scenarios agreed by RAN3 in the sent LS (R2-2209104), while Huawei in [4] proposed to discuss the classic PSCell addition and CPA scenarios. Given the LS provided by RAN3 and the provided proposals, rapporteur proposes the following:

**Summary Proposal 1: RAN2 confirms the scenarios for SPR for NR-DC, including:**

* **SN- and MN-initiated classic PSCell change / CPC**
* **Intra-SN classic PSCell change / CPC**
* **Classic Addition / CPA**
* **HO with SN change (possibly addressed when the basic solution for SPR is known)**

###  Abbreviation used for successful PSCell change/addition(?) report

If the above scenarios (including the PSCell Addition and CPA scenarios) are agreeable, rapporteur believes SPCR (that stands for successful PSCell Change Report) is not a correct abbreviation for this feature as it is to cover the classic PSCell Addition and CPA scenarios as well. Hence a successful PSCell Report (SPR) that does not limit the report to the successful PSCell change may be a more appropriate abbreviation for this report. Hence Rapporteur proposes the following:

**Summary Proposal 2: RAN2 agree to the abbreviation of SPR instead of SPCR for the successful PSCell report to cover both “Change” and “Addition” scenarios.**

### Priorities DC types for SPR

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| Xiaomi [8] | Proposal 3 For successful PScell change report, NR-DC is prioritized. |

Regarding the priority of different DC scenarios (e.g., EN-DC, NE-DC, NR-DC, etc.) to be considered for SPR, it has been proposed in [8] that for the SPR, NR-DC scenario can be prioritized. Although it has been discussed only in one paper but agreement on the different RAT types involved in the DC scenario seems to be essential for RAN2. RAN3 LS already points the NR-DC scenario but for the sake of clarity and to have a common understanding rapporteur proposes the following.

**Summary Proposal 3: RAN2 confirm to prioritise NR-DC scenario for SPR.**

### SHR as baseline for SPR solution

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| CATT [2] | Proposal 1:RAN2 to take the solution of R17 PCell SHR as the baseline to start the R18 successful PSCell change report discussion. |
| Ericsson [9] | 1. Proposal 1: Successful Handover Report (SHR) is the baseline for the successful PSCell report (SPR) in terms of configuration and reporting.
 |

In addition, the solution architecture in terms of the configuration and reporting has been discussed in various papers and two companies mentioned to take Rel 17 SHR as baseline for the configuration and reporting solution for SPR.

**Summary Proposal 4: SHR solution is taken as baseline for the SPR in terms of configuration and reporting.**

### SHR configuration and triggering conditions

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| VIVO [1]  | Proposal 2:The triggering conditions for generating SPCR should at least include:T310 elapsed time for the source PSCell exceeds a threshold;T312 elapsed time for the source PSCell exceeds a threshold;T304 elapsed time for the target PSCell exceeds a threshold. |
| CATT [2] | Proposal 2:The following three trigger conditions can be considered for successful PSCell addition/change report and RAN2 to discuss which node i.e. MN or SN should configure these trigger conditions to the UE.T304 trigger conditionT310 trigger conditionT312 trigger condition |
| Samsung [3] | Proposal 5:SPCR may be reported based on configured conditions. |
| Huawei [4] | Proposal 7: Introduce T304, T310 and T312 related triggering conditions of SCG for SPCR. |
| Lenovo [6] | Proposal 1: Configuration for generating successful PSCell addition/change report is configured to the UE by the network. |
| NEC [7] | Proposal 2: same as SHR, network configures triggering conditions for SPCR, and UE only stores SPCR information when triggering condition is fulfilled.Proposal 3: the following triggering conditions can be supported for SPCR:the elapsed time of the timer T304 is greater than a thresholdthe elapsed time of the timer T310 is greater than a thresholdthe elapsed time of the timer T312 is greater than a threshold |
| Xiaomi [8] | Proposal 4: Network can configure the following trigger condition for successul PScell change report through otherConfig: T304 threshold, T310 threshold, T312 threshold. |
| Ericsson [9] | 1. Proposal 2: SPR is triggered based on the following triggering thresholds: - T304 timer threshold - T310 timer threshold - T312 timer threshold - time between CPAC events threshold - time between receiving CPAC configuration to the execution of the CPAC - Experiencing LBT issues during CPAC execution
 |
| ZTE [11] | 1. Proposal 4: The triggering events and measurements of SHR in MN can be seen as baseline for SPCR except for DAPS related triggering event and measurements.
 |
| Qualcomm [12] | 1. Proposal 4: Define SCG T310, T312, and T304 thresholds for generating the SPCR.
 |
| SHARP [13] | 1. Proposal 3: SPCR configuration includes triggering conditions configuration that is used to SPCR determination.
 |

Taking SHR as baseline for the SPR, companies [1][2][3][4][6][7][8][9][11][12][13] provided their view on the SPR configuration and in particular triggering conditions for SPR. Among them most of the companies [1, 2, 4, 7, 8, 9, 12] proposed the required triggering thresholds to be defined at least based on the SHR triggering thresholds including T310, T312, and T304 timer thresholds. Therefore, based on the convergence of the proposals, rapporteur proposes the following:

**Summary Proposal 5: Network configures SPR configuration IE for the UE, with at least the following SPR triggering thresholds (Other triggering thresholds are FFS)**

* **T310 timer threshold**
* **T312 timer threshold**
* **T304 timer threshold**

### Logging and storing SPR

Again, taking SHR as baseline for SPR, some companies discussed the SPR logging IE and storing at the UE and reporting to the network. Below is the list of relevant proposals.

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| VIVO [1] | Proposal 5:SPCR should be transferred with a separate signaling procedure from that of SHR if the SPCR shall be reported upon the random access towards PSCell is completed. |
| CATT [2] | Proposal 3:RAN2 to discuss the report information and following two signaling designs for successful PSCell addition/change report:successful PSCell addition/change report embedded in PCell SHRPCell SHR and successful PSCell addition/change report is separate |
| Xiaomi [8] | Proposal 4: Network can configure the following trigger condition for successul PScell change report through otherConfig:Proposal 6: UE indicates the availability of a Successful PScell change Report in complete message. gNB can fetch the successful PScell change report via UE Information Request/Response mechanism. |
| Qualcomm [12] | Proposal 7: Introduce a new report for SPCR for reporting lower layer issues during the successful classical/conditional PSCell change or addition.Proposal 9: Use UEInformationResponse for reporting of SPCR. |
| SHARP [13] | 1. Proposal 1: introduce a new UE variable for SPCR information.
 |
| NTT DOCOMO [14] | Proposal 4: Introduce a new UE variable for successful PSCell change report.Proposal 5: RAN2 to discuss which message is used for successful PSCell change reporting |

Based on the above proposals, rapporteur proposes to discuss the following.

**Summary Proposal 6: RAN2 discuss and agree to the following:**

* **SPR configuration is configured by network through otherConfig**
* **SPR is logged in a new information element**
* **SPR is stored in a new UE variable**
* **SPR is fetched via UE Information Request/Response procedure**

###  Information and measurements logged in the SPR

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| --- | --- |
| VIVO [1] | Proposal 3: For the content of SPCR, the following information can be considered:identifiers and measurements of the source cell and target cell;the latest radio link quality of neighbour cells before HO execution;for CPAC, the latest radio measurement results of the candidate cells;for CPAC, the time elapsed between the CPAC execution towards the target cell and the corresponding latest CPAC configuration received for the selected target cell;the cause of SPCR. |
| Samsung [3] | Proposal 6: UE can include the following information in SPCR.Source PSCell InformationTarget PSCell InformationNeighbor cell measurements PSCell change typeUE locationRandom Access informationUP interruption time. |
| Huawei [4] | Proposal 9: RAN2 to include the following information in the SPCR for scenario 1 and 2:-Source PSCell information-target PSCell information-SPCR cause-Latest measurement results-PCell information, in case of MN initiated PSCell change/CPC-Time elapsed between the CPAC execution and the reception of the CPC configuration in case of CPC |
| Lenovo [5] | Proposal 2: When at least one trigger condition for successful PSCell addition/change report is fulfilled, the successful PSCell addition/change report is stored by the UE including:Source PSCell IDTarget PSCell IDCause of successful PSCell addition/change reportMeasurement results when PSCell addition/change is executed and completedIn case of CPAC, the time elapsed between the CPAC execution towards the target PSCell and the corresponding latest CPAC configuration is received for the target PSCell |
| NEC [7] | Proposal 1: the following content of should be included for SPCR:source PSCell IDtarget PSCell IDmeasurement resultslocation informationrandom access informationcause of SPCRtime since CPC/CPA reconfiguration |
| Xiaomi [8] | Proposal 5 Successul PScell change report can include the following contents: -plmn-IdentityList-c-RNTI of target PSCell-source PSCell ID, source PSCell measurement-target PSCell ID, target PSCell measurement-successful PScell change report cause, and random-access related information-measurement results of neighbor cells and whether the neighbor cell is CPAC candidate-For CPAC, the time elapsed between the config of CPAC and the execution of CPAC-available location information |
| Ericsson [9] | 1. Proposal 4 UE logs at least the following information in the SPR report:
2. Source and target PSCell information, Source PCell information and measurements
3. Neighbour cell measurements
4. Time between events of CPC triggering events
5. Time elapsed between the initiation of the last CPAC execution towards the target PSCell and the reception of the latest CPC for this target PSCell.

LBT related information and measurements |
| Nokia [10] | Proposal 1: RAN2 to discuss the reporting by the UE via SHR of candidate PSCell preparation details, which may include: number of prepared PSCells, number of preparation activities, PSCell IDs and order in which PSCells were prepared, PSCells that were prepared and released before /CPC execution, time duration that a PSCell was prepared for. |
| Qualcomm [12] | Proposal 5: For the classic PSCell addition on change, SPCR contains the following,Source PSCell,Target PSCell,Measurements on NR frequencies the UE is configured to measurement by MCG and SCG,Location information, and SPCR cause, i.e., cause for generating the SCPR. |
| NTT DOCOMO [14] | Proposal 3: Include the following parameters in successful PSCell change report.An indication shows whether the failure is MN initiated CPC or SN initiated CPC.source PSCell info (including PCI/CGI, measResult)Target PScell info (including PCI/CGI, measResult)Candidate PSCell info (including PCI/CGI, measurement result)Success PSCell change cause (t304, t310, t312 cause)ra-InformationCommontimeSinceCPCReconfigLocationInfo |

In various papers it has been discussed to include the measurements and information in the SPR when the SPR triggering condition is fulfilled. In the following, the information and measurements that are commonly proposed by the companies are provided as baseline in the SPR IE.

**Summary Proposal 7: UE logs at least the following information and measurements in the SPR IE (other information and measurements are FFS).**

* **Source PSCell info (cell ID, measurement result)**
* **Target PScell info (cell ID, measurement result)**
* **Candidate PSCell info (cell ID, measurement result)**
* **Neighbour Cells info (cell ID, measurement result)**
* **Success PSCell change cause (e.g., t304, t310, t312 cause, etc.)**
* **Random access related information**
* **The time elapsed between the CPAC execution towards the target cell and the corresponding latest CPAC configuration received for the selected target cell**
* **Location Information**

## Proposals extracted for Inter RAT SHR enhancement

|  |  |
| --- | --- |
| Company | Proposal |
| VIVO [1] |  |
| CATT [2] | Proposal 4:The source cell can configure T310 and T312 threshold to UE to perform SHR logging and reporting in case of HO from NR to LTE scenario.**Proposal 5:** RAN2 to further discuss whether the UE can report the inter-RAT SHR to LTE cell in case of HO from NR to LTE scenario. |
| Samsung [3] | Proposal 1:RAN2 to prioritise intra-system inter-RAT HO from NR to LTE first.Proposal 2:For NR to LTE handover’s SHR, RAN2 can focus first on MRO for gNB, by considering T310 and T312 triggers.Proposal 3:For determining the contents of Inter-RAT SHR report, consider R17 intra NR SHR as baseline. |
| Huawei [4] | Proposal 1: For the SHR from NR to LTE, introduce the T310 and T312 related triggering condition in the MobilityFromNRCommand message.Proposal 2: For the SHR from NR to LTE, whether to introduce the T304 related triggering condition in the MobilityFromNRCommand message is FFS.Proposal 3: RAN2 to include the following information in inter-RAT SHR from NR to LTE:-Source NR cell info and target LTE cell info-Measurement results for source, target and neighbours (including LTE/NR neighbouring cell measurements if available)-Shr-cause to indicate which triggering condition was met-UE information, e.g. C-RNTIProposal 4: For the SHR from NR to LTE, RAN2 waits for the forwarding scheme in RAN3 to decide where to report the SHR, e.g., LTE only, NR only or both LTE and NR.Proposal 5: For intra-system inter-RAT SHR, HO from LTE to NR is supported. |
| Lenovo [5] | Proposal 1: Prioritize SHR for intra-system inter-RAT HO from NR to EUTRAN in R18.Proposal 2: Configuration of triggering SHR for intra-system inter-RAT HO is transmitted to the UE via the MobilityFromNRCommand message.Proposal 3: SHR for intra-system inter-RAT HO is stored and reported if at least one configured trigger condition is fulfilled.Proposal 4: RAN2 discuss how to encode the SHR for intra-system inter-RAT HO.Proposal 5: The UE reports the ID of the cell which generates the condition that triggers the intra-system inter-RAT SHR, outside of the intra-system inter-RAT SHR. |
| NEC [7] |  |
| Xiaomi [8] | Proposal 1: RAN2 to prioritize work on HO from gNB to NG-eNB/eNB for SHR.Proposal 2: To support HO from gNB to NG-eNB/eNB for SHR, specification impact to 36.331 should be avoided. The configuration, recording and reporting of SHR should be implemented at NR side. |
| Ericsson [9] | 1. Proposal 5: The gNB (but not the eNB) is allowed to supply configuration for Inter-RAT SHR from NR to E-UTRA.
2. Proposal 6: Use thresholds based on timers T310 and T312 for Inter-RAT SHR from NR to E-UTRA.
3. Proposal 7: Inter-RAT SHR is fetched by gNBs but not eNBs.
4. Proposal 8: RAN2 update only NR specifications in order to specify Inter-RAT SHR from NR to E-UTRA.
 |
| Nokia [10] |  |
| ZTE [11] | 1. Proposal 1: Enhance NR SHR to allow storing of EUTRA cell identity as target cell information.
2. Proposal 2: RAN2 discuss whether to update LTE specs to allow configuring T304 SHR trigger for HO from NR to EUTRA.

Proposal 2-1: OtherConfig in RRCConnectionReconfiguration is enhanced to allow T304 SHR trigger configuration if RAN2 confirms to support T304 trigger for mobility from NR to EUTRA. |
| Qualcomm [12] | 1. Proposal 1: Consider only RLM/BFD timers (i.e., only T310 and T312) threshold for generating SHR for intra-system inter-RAT, HO from NR to LTE.

Proposal 2: Cross-RAT SHR reporting is not needed for intra-system inter-RAT handover scenario (NR to LTE HO), i.e., SHR is reported when UE comes back to NR again. |
| SHARP [13] |  |
| NTT DOCOMO [14] |  |

### Scenarios

|  |  |
| --- | --- |
| Samsung [3] | Proposal 1:RAN2 to prioritise intra-system inter-RAT HO from NR to LTE first. |
| Huawei [4] | Proposal 5: For intra-system inter-RAT SHR, HO from LTE to NR is supported. |
| Lenovo [5] | Proposal 1: Prioritize SHR for intra-system inter-RAT HO from NR to EUTRAN in R18. |

3 companies as mentioned above provided their view and 2 companies [3, 5] proposed to prioritise intra-system inter-RAT SHR from NR to LTE, while Huawei in [4] proposed to support LTE to NR HO as well. Considering that RAN3 has discussed and provided an LS to RAN2 (R2-2209104) to treat the HO from NR to LTE first, rapporteur propose the following:

**Summary Proposal 8: RAN2 confirms that for inter-RAT SHR, HO from NR to LTE is treated first.**

### Fetching inter-RAT SHR

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| CATT [2] | Proposal 5: RAN2 to further discuss whether the UE can report the inter-RAT SHR to LTE cell in case of HO from NR to LTE scenario. |
| Huawei [4] | Proposal 4: For the SHR from NR to LTE, RAN2 waits for the forwarding scheme in RAN3 to decide where to report the SHR, e.g., LTE only, NR only or both LTE and NR. |
| Xiaomi [8] | Proposal 2: To support HO from gNB to NG-eNB/eNB for SHR, specification impact to 36.331 should be avoided. The configuration, recording and reporting of SHR should be implemented at NR side. |
| Ericsson [9] | 1. Proposal 8: RAN2 update only NR specifications in order to specify Inter-RAT SHR from NR to E-UTRA.
2. Proposal 7: Inter-RAT SHR is fetched by gNBs but not eNBs.
 |
| Qualcomm [12] | Proposal 2: Cross-RAT SHR reporting is not needed for intra-system inter-RAT handover scenario (NR to LTE HO), i.e., SHR is reported when UE comes back to NR again. |

Concerning cross RAT reporting, 5 companies provided their view in [2, 4, 8, 9, 12]. Two companies want to avoid specification impact on the LTE spec (e.g., 36.331). CATT proposed to discuss reporting the inter-RAT SHR to LTE cell, and Huawei in [4] proposed to wait for RAN3 decision. 3 companies including Xiaomi, Ericsson, and Qualcomm propose fetching/reporting the inter-RAT SHR should be limited to the NR and gNBs. Therefore, rapporteur proposes the following:

**Summary Proposal 9: RAN2 discuss to avoid specification impact on LTE (36.331)**

And based on the above summary proposal, and the companies’ view on fetching inter-RAH SHR, rapporteur proposes the following

**Summary Proposal 10: RAN2 agree**

* **Inter-RAT SHR for HO from NR to LTE, is reported when UE comes back to NR again, or**
* **RAN2 waits for RAN3 decision on inter-RAT SHR fetching mechanism**

### SHR configuration for inter-RAT SHR

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| CATT [2] | Proposal 4: The source cell can configure T310 and T312 threshold to UE to perform SHR logging and reporting in case of HO from NR to LTE scenario. |
| Samsung [3] | Proposal 2: For NR to LTE handover’s SHR, RAN2 can focus first on MRO for gNB, by considering T310 and T312 triggers. |
| Huawei [4] | Proposal 1: For the SHR from NR to LTE, introduce the T310 and T312 related triggering condition in the MobilityFromNRCommand message.Proposal 2: For the SHR from NR to LTE, whether to introduce the T304 related triggering condition in the MobilityFromNRCommand message is FFS. |
| Ericsson [9] | 1. Proposal 6: Use thresholds based on timers T310 and T312 for Inter-RAT SHR from NR to E-UTRA.
 |
| Qualcomm [12] | 1. Proposal 1: Consider only RLM/BFD timers (i.e., only T310 and T312) threshold for generating SHR for intra-system inter-RAT, HO from NR to LTE.
 |

Concerning the configuration of SHR including the triggering conditions, 4 companies [3, 4, 9, 12] provided their view and proposed to focus on gNB side optimization, hence T310 and T312 related thresholds are the main focus for inter-RAT SHR triggering conditions. In addition, Huawei in [4] proposed that put the T304 threshold as FFS. However, given that some companies like Xiaomi in [8] and Ericsson in [9] proposed to minimize the impact on the LTE specification, the rapporteur propose the following:

**Summary Proposal 11: RAN2 focus on T310 and T312 thresholds as inter-RAT SHR triggering conditions for HO from NR to LTE.**

## Miscellaneous

Some proposals are provided in the context of MRO for CAPC which seems to be out of the scope of 8.13.4. hence rapporteur does not provide any summary for them. Here is the list of proposals from [3].

**Proposal 6:** RAN2 to take R17 CHO related MRO study as baseline to start the MRO discussion of R18 CPAC.
**Proposal 7:** RAN2 focuses on the basic scenarios firstly, then discuss the mixed scenarios if time allows.
**Proposal 8:** RAN2 to discuss which type of CPAC need to be considered for MRO and which information should be reported by UE.
R16 intra-SN CPC without MN involvement
R17 CPA
R17 MN initiated inter-SN CPC
R17 SN initiated inter-SN CPC
**Proposal 9:** RAN2 to discuss which signalling method to be used for CPAC related failure information reporting.
SCG failure information message
Introduce new RRC message
Introduce new SCG RLF report

# Conclusion

## Summary of the proposals for Successful PSCell Report (SPR)

**Summary Proposal 1: RAN2 confirms the scenarios for SPR for NR-DC, including:**

* **SN- and MN-initiated classic PSCell change / CPC**
* **Intra-SN classic PSCell change / CPC**
* **Classic Addition / CPA**
* **HO with SN change (possibly addressed when the basic solution for SPR is known)**

**Summary Proposal 2: RAN2 agree to the abbreviation of SPR instead of SPCR for the successful PSCell report to cover both “Change” and “Addition” scenarios.**

**Summary Proposal 3: RAN2 confirm to prioritise NR-DC scenario for SPR.**

**Summary Proposal 4: SHR solution is taken as baseline for the SPR in terms of configuration and reporting.**

**Summary Proposal 5: Network configures SPR configuration IE for the UE, with at least the following SPR triggering thresholds (Other triggering thresholds are FFS)**

* **T310 timer threshold**
* **T312 timer threshold**
* **T304 timer threshold**

**Summary Proposal 6: RAN2 discuss and agree to the following:**

* **SPR configuration is configured by network through otherConfig**
* **SPR is logged in a new information element**
* **SPR is stored in a new UE variable**
* **SPR is fetched via UE Information Request/Response procedure**

**Summary Proposal 7: UE logs at least the following information and measurements in the SPR IE (other information and measurements are FFS).**

* **Source PSCell info (cell ID, measurement result)**
* **Target PScell info (cell ID, measurement result)**
* **Candidate PSCell info (cell ID, measurement result)**
* **Neighbour Cells info (cell ID, measurement result)**
* **Success PSCell change cause (e.g., t304, t310, t312 cause, etc.)**
* **Random access related information**
* **The time elapsed between the CPAC execution towards the target cell and the corresponding latest CPAC configuration received for the selected target cell**
* **Location Information**

## Summary of the proposals for Inter-RAT SHR

**Summary Proposal 8: RAN2 confirms that for inter-RAT SHR, HO from NR to LTE is treated first.**

**Summary Proposal 9: RAN2 discuss to avoid specification impact on LTE for inter-RAT SHR (36.331).**

**Summary Proposal 10: RAN2 agree**

* **Inter-RAT SHR for HO from NR to LTE, is reported when UE comes back to NR again, or**
* **RAN2 waits for RAN3 decision on inter-RAT SHR fetching mechanism**

**Summary Proposal 11: RAN2 focus on T310 and T312 thresholds as inter-RAT SHR triggering conditions for HO from NR to LTE.**