**3GPP TSG-RAN WG2 Meeting #130R2-250xxxx**

**St.Julians, Malta, May 19th – 23rd, 2025**

**Agenda item:** 7.0.2.21

**Source:** CATT

**Title:** [AT130][401][POS] CR on SRS resume case (CATT)

**Document for:** Agreeable CR

# 1 Introduction

This is to discuss the CR R2-2503497 [1] on RRC connection resume procedure initiated by activation or configuration of positioning SRS.

* [AT130][401][POS] CR on SRS resume case (CATT)

 Scope: Check the CR in R2-2503497 and determine if some form of it is agreeable.

 Intended outcome: Agreeable CR in R2-2504792, to Thursday CB session

 Deadline: Wednesday 2025-05-21 1900 CEST

# 2 Discussion

Given the online progress, this section discusses several unresolved issues related to the CR R2-2503497.

|  |
| --- |
| R[2-2503497](file:///F%3A%5CRAN2%E4%BC%9A%E8%AE%AE%5C2.%E4%BC%9A%E8%AE%AE%E6%96%87%E7%A8%BF%5C130%5CR2-2503497.zip) Corrections on RRC connection resume procedure initiated by activation or configuration of positioning SRS CATT, Samsung, Ericsson, vivo CR Rel-18 38.331 18.5.1 5338 - F NR\_pos\_enh2-CoreDiscussion:Xiaomi think the positioning and emergency service may be triggered separately, so the second change is not needed. CATT wonder what the upper layer situation would be to trigger this.Samsung understand that if there are two separate cases, it would still be necessary to choose one resume cause.Qualcomm think Xiaomi are right and we have the distinction between emergency services and all other services. Ofinno agree with Qualcomm and think we should not exclude emergency services as a positioning-specific change.Huawei understand there is no emergency support for LPHAP, and the spec wrongly captured the agreements from Rel-18, so they think the CR is agreeable as it is.Ericsson have the same understanding as Huawei and think LPHAP UEs would not be expected to support the emergency case. They think there may also be a case for RNA update.Qualcomm understand there is no such thing as an “LPHAP UE”; it is just a UE.ZTE checked the RRC specification and found that the emergency case is there for other cases, and this seems not a different situation and they see that the emergency service should be kept for the upper-layer-triggered case. Samsung think the emergency logic should not be there for the positioning case, and there are other upper-layer-triggered cases with no emergency part.Nokia wonder about the first change; it seems to touch the MPS logic.Ericsson think on the first change, we are adding logic outside of the MPS case. On the second change they agree with ZTE.Huawei think for the emergency case we can rely on the legacy functionality.ZTE think we could postpone the CR and they would like some time to discuss. They think a third change may be needed. |

## Change #1: 1st change in R2-2503497

Based on the online discussion, the change#1 given in R2-2503497 seems to be acceptable. Any additional feedback from companies would be appreciated.

|  |
| --- |
| Change#1: move the conditions of initiating the RRC connection resume procedure on activation/configuration of positioning SRS to before the branch: 2> else:3> set the *resumeCause* in accordance with the information received from upper layers;And change the “if” to “else if” for the first condition. |

**Q1: Do you agree with the 1st change of R2-2503497?**

|  |  |  |
| --- | --- | --- |
| **Company** | **Yes/No** | **Comments** |
| Qualcomm | Yes |  |
| Ericsson | Yes |  |
| ZTE | Yes |  |
|  |  |  |
|  |  |  |
|  |  |  |
|  |  |  |
|  |  |  |
|  |  |  |

**Summary:**

## Change #2: the emergency service judgement

Regarding change#2 outlined in R2-2503497, some companies argue that the emergency service and activation/configuration may be triggered by different upper layers (e.g., NAS layer and LCS layer) at the same time, which necessitates a judgement. However, some companies expressed that LPHAP UEs may not need to support the emergency service, thus no need for such a judgement.

There is no consensus among companies on whether UEs who transmits Positioning SRS in RRC\_INACTIVE should support emergency service and whether the emergency logic should be there for the positioning case. Companies are invited to provide their views in the table under Q2-1 and Q2-2.

|  |
| --- |
| Change#2: remove the emergency service judgement from the conditions of initiating the RRC connection resume procedure on activation/configuration of positioning SRS. |

**Q2-1: Do you think UEs who transmit Positioning SRS in RRC\_INACTIVE support emergency service?**

|  |  |  |
| --- | --- | --- |
| **Company** | **Yes/No** | **Comments** |
| Qualcomm | Yes | All UEs that support voice services generally need to support emergency services. |
| Ericsson | No/Not compatible mode. | Voice is only supported in RRC Connected mode. So, both; 1: inactive mode transmission and 2: supporting emergency call may not be applicable. |
| ZTE2 | Yes | If upper layer does not provide resume cause, RRC should determine whether emergency service applies or not since this *resumeCause* of *emergency* has very high priority |
|  |  |  |
|  |  |  |
|  |  |  |
|  |  |  |
|  |  |  |
|  |  |  |

**Summary:**

If companies agree that these UEs who transmit Positioning SRS in RRC\_INACTIVE support emergency service, then the emergency service judgement should be kept as existing specification, i.e. don’t remove emergency service part.

If companies agree that these UEs who transmit Positioning SRS in RRC\_INACTIVE don’t support emergency service, the emergency service judgement under the condition “if the resumption of the RRC connection is triggered due to cell reselection as specified in clause 5.3.13.6” should also be removed.

|  |
| --- |
| 1> else if *srs-PosRRC-InactiveValidityAreaPreConfigList* or *srs-PosRRC-InactiveValidityAreaNonPreConfig* is configured:2> if the resumption of the RRC connection is triggered due to cell reselection as specified in clause 5.3.13.6:3> select '8' as the Access Category;3> set the *resumeCause* to *srs-PosConfigOrActivationReq*; |

**Q2-2: if you agree that these UEs who transmit Positioning SRS in RRC\_INACTIVE don’t support emergency service, do you agree that the emergency service judgement under the condition “if the resumption of the RRC connection is triggered due to cell reselection as specified in clause 5.3.13.6” should also be removed?**

|  |  |  |
| --- | --- | --- |
| **Company** | **Yes/No** | **Comments** |
| ZTE |  | The emergency service judgement under both ‘upper layer trigger’ and ‘cell reselection trigger’ should be kept |
|  |  |  |
|  |  |  |
|  |  |  |
|  |  |  |
|  |  |  |
|  |  |  |
|  |  |  |
|  |  |  |

**Summary:**

## Change #3: the missed trigger condition of resumption of the RRC connection

ZTE proposes offline that one trigger condition of resumption of the RRC connection may need to be added, which is due to the need for positioning configuration and no stored srs-PosRRC-InactiveValidityAreaNonPreConfig. TP is given in the following box.

|  |
| --- |
| 2> else if the resumption of the RRC connection is triggered for activation of preconfigured SRS for positioning available in *srs-PosRRC-InactiveValidityAreaPreConfigList* and if the UE is camped in one of the cells indicated in one of *srs-PosConfigValidityArea*; or2> if the resumption of the RRC connection is triggered due to the need for SRS for positioning configuration and no stored *srs-PosRRC-InactiveValidityAreaPreConfigList* or *srs-PosRRC-InactiveValidityAreaNonPreConfig* for the camped cell exists; or2> if the resumption of the RRC connection is triggered due to activation of non-preconfigured SRS for positioning with type semi-persistent available in *srs-PosRRC-InactiveValidityAreaNonPreConfig* and if the UE is camped in the cells indicated in *srs-PosConfigValidityArea*: |

With this modification, the UE could request *srs-PosRRC-InactiveValidityAreaNonPreConfig* via the RRC connection resumption procedure. However, we have not reached the agreement on this condition. Therefore, it is better to discuss it first. The rapporteur summarizes the differences in possible UE behaviour with and without this modification.

|  |  |  |
| --- | --- | --- |
|  | Follow legacy procedure | With the proposed modification |
| Case 1: UE only has preconfigured SRS for the camped cell | The UE cannot request non-preconfigured SRS via the RRC connection resumption procedure. | UE is allowed to request non-preconfigured SRS. NOTE 1 |
| Case 2: UE only has non-preconfigured SRS for the camped cell | UE is allowed to request preconfigured SRS. NOTE 1 | UE is allowed to request preconfigured SRS. NOTE 1 |
| Case3: UE has both preconfigured SRS and non-preconfigured SRS for the camped cell | N/A  | N/A |
| Case 4: UE does not have preconfigured SRS or non-preconfigured SRS for the camped cell | When the UE initiate RRC connection resumption with resume cause *srs-PosConfigOrActivationReq*, the NW configures preconfigured SRS for the UE. | When the UE initiate RRC connection resumption with resume cause *srs-PosConfigOrActivationReq*, it is up to NW to configure preconfigured SRS or non-preconfigured SRS for the UE |
| NOTE 1: It is not allowed to configure both preconfigured SRS and non-preconfigured SRS in one cell for UE in Rel-18. |

For the above cases, it seems that this modification is not just a correction of Rel-18. Companies are invited to provide their views in the table under Q3.

**Q3: Do you agree that the UE may request SRS for positioning configuration when no stored *srs-PosRRC-InactiveValidityAreaNonPreConfig* for the camped cell via the RRC connection resumption procedure?**

|  |  |  |
| --- | --- | --- |
| **Company** | **Yes/No** | **Comments** |
| Qualcomm | No | A UE need to have a SRS configuration with validity area received in the first place when sending RRC Resume Request. The proposed text seems to imply that whenever a SRS for positioning configuration is needed, the UE can simply send a RRC Resume Request. |
| ZTE |  | The question is, Whether UE can ask for the SRS configuration when camping on the red cell?If yes, the proposed text should be agreed |
|  |  |  |
|  |  |  |
|  |  |  |
|  |  |  |
|  |  |  |
|  |  |  |
|  |  |  |

**Summary:**

# 3 Conclusion

Based on company feedback, the following is proposed:

# 4 References

1. R2-2503497 Corrections on RRC connection resume procedure initiated by activation or configuration of positioning SRS CATT, Samsung, Ericsson, vivo CR Rel-18 38.331 18.5.1 5338 - F NR\_pos\_enh2-Core

# 5 Participants

|  |  |
| --- | --- |
| **Company Name** | **Participant name/contact** |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |