**[FS\_5G\_ProSe\_Ph2] CC for SA2#153e**

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| **Participants:** | |
| Jianning LIU | |
| Lu Fei | |
| Wen Wang-vivo (来宾) | |
| Deng Qiang (CATT) (来宾) | |
| Jingpeng Bai CTC | |
| Steven Wenham (Huawei) (Guest) | |
| Hong Cheng | |
| Hietalahti, Hannu (Nokia - FI/Oulu) | |
| Tingyu Xin - Samsung (Guest) | |
| Sudeep M Vamanan (Apple) (Guest) | |
| LaeYoung - LGE (게스트) | |
| Guillaume Sebire | |
| Changzheng Huang(CTC) (来宾) | |
| Judy Gan Juying | |
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| Jing Jia - CTC (来宾) | |
| Nord, Lars | |
| Shan, Chang Hong | |
| Michele Zarri [Huawei] (Guest) | |
| Ihab Guirguis | |
| Baixiao Wang CATT (Guest) | |
| Mehrdad Shariat | |
| Sama, Malla Reddy | |
| Hao Dong (ZTE) (来宾) | |
| OPPO-ShiCong | |
| Robert Edwards | |
| Jung Je Son | |
| SHIEH, HUGH H | |
| Yali Guo (OPPO) (来宾) | |
| OPPO-ShiCong | |
| Tencent-LEI (Guest) | |
| LGE - HyunJung (게스트) | |
| Saad Ahmad | |
| Sherry Shen (来宾) | |
| Michelle Perras | |

**Discussion**

* **Evaluation and Conclusion on KI#7**
* [KI#7: Evaluation](https://www.3gpp.org/ftp/tsg_sa/WG2_Arch/TSGS2_153E_Electronic_2022-10/INBOX/DRAFTS/FS_5G_ProSe_Ph2/S2-220xxxx%2023.700-33%20KI7%20Evaluation_HW.docx) (Huawei, HiSilicon)
* It was commented that it is like each solution evaluation without comparation between different solutions.
  + - [KI#7, Evaluation on Emergency Services for UE to Network Relaying](https://www.3gpp.org/ftp/tsg_sa/WG2_Arch/TSGS2_153E_Electronic_2022-10/INBOX/DRAFTS/FS_5G_ProSe_Ph2/ER_S2-22xxxxxwas5810_ProSe_ph2_23700-33_KI%237eval_Resubmit.doc) (Ericsson)
* It was suggested to add more columns to cover aspect#1 as well in the table.
* Regarding Aspect#5: S#45 has proposed how NG-RAN Informs relay UE’s AMF for the remote UE triggering emergency, so it was commented that this part should also be added. It was replied that Idle->connected, RRC establishment cause has been used. However for connected mode. How the ran is informed that the emergency has been triggered? It was further replied that this may be based on QoS e.g. ARP value.
* Aspects#9: it was commented that some solution has proposed to use the location of relay UE. This can be added in the evaluation part. It was also commented that some discussion is in RAN2 for CP based solution. Coordination with RAN2 might be needed for this aspect. It was also suggested that the exiting procedure (e.g. IMS triggers the location service) can be used. This aspect might be separated for L2 or L3 relay.
  + - [KI#7: Conclusion](https://www.3gpp.org/ftp/tsg_sa/WG2_Arch/TSGS2_153E_Electronic_2022-10/INBOX/DRAFTS/FS_5G_ProSe_Ph2/S2-220xxxx%2023.700-33%20KI7%20Conclusion_HW.docx) (Huawei, HiSilicon)
* It was questioned on the 2nd subbullet in the 2nd bullet, whether the NAS indication in the registration accept or the emergency indication applied to both L2 and L3 relay case. This description should be separated for L2 or L3 case if they are different. Check 38.300 how to apply the system indication.
* It was commented for 3rd bullet, whether this is a limitation for L2 case? It might require to check with RAN2 whether it is feasible to extend this in R18. It was clarified that there is no limitation for L3 case.
* Additional aspect on how the NG-RAN informs the Relay UE’s AMF that the remote UE has triggered emergency service was commented.
* [KI#7, Conclusion on Emergency Services for UE to Network Relaying](https://www.3gpp.org/ftp/tsg_sa/WG2_Arch/TSGS2_153E_Electronic_2022-10/INBOX/DRAFTS/FS_5G_ProSe_Ph2/ER_S2-22xxxxwas5811_ProSe_ph2_23700-33_KI%237concl_r1.doc) (Ericsson)
* Editorial comment was raised.
* Regarding the emergency service fallback. It mentioned that solution #42 has already proposed the solution. Apple and MTK support this requirement. ATT also commented that emergency service fallback has been used in US. Nokia also commented that this emergency service fallback over relay does not have the requirement in SA1. Coordination with SA1 for this requirement is needed.
* In the last bullet, It was commented that, it was late to provide emergency number over PC5 interface. Last sentence makes confusion and should be avoided.
* Congestion control might be required to be added.
* Regarding the P-CSCF address, It was commented that DHCP or pre-configuration can work. Stage 3 TS can be referred.
* [KI#7 emergency: Solution evaluation](https://www.3gpp.org/ftp/tsg_sa/WG2_Arch/TSGS2_153E_Electronic_2022-10/INBOX/DRAFTS/FS_5G_ProSe_Ph2/S2-220xxxx%20(23.700-33%20KI7%20evaluation).doc) (Nokia)
* [KI#7 emergency: Initial conclusions](https://www.3gpp.org/ftp/tsg_sa/WG2_Arch/TSGS2_153E_Electronic_2022-10/INBOX/DRAFTS/FS_5G_ProSe_Ph2/S2-220xxxx%20(23.700-33%20KI7%20conclusions)_Nokia.doc) (Nokia)
* [KI#7, Evaluation on Emergency Services for UE to Network Relaying](https://www.3gpp.org/ftp/tsg_sa/WG2_Arch/TSGS2_153E_Electronic_2022-10/INBOX/DRAFTS/FS_5G_ProSe_Ph2/ER_S2-22xxxxxwas5810_ProSe_ph2_23700-33_KI%237eval_Resubmit-Apple.doc) (Apple)
  + Due to time limitation, the above 3 documents were not discussed. Offline discussion is required.
* **Evaluation and Conclusion on KI#6**
* [KI#6: Overall Evaluation and Conclusions](https://www.3gpp.org/ftp/tsg_sa/WG2_Arch/TSGS2_153E_Electronic_2022-10/INBOX/DRAFTS/FS_5G_ProSe_Ph2/S2-22xxxxx_KI%236%20Evaluation%20and%20Conclusions.docx) (CATT)
  + It is commented that solution 14 and 15 is not in the table for KI6.
* [KI#6 Evaluation and Conclusion](https://www.3gpp.org/ftp/tsg_sa/WG2_Arch/TSGS2_153E_Electronic_2022-10/INBOX/DRAFTS/FS_5G_ProSe_Ph2/S2-220xxxx_FS_5G_ProSe_Ph2_KI6_evaluation_and_conclusion%20v1.doc) (Intel)
* [KI#6: Evaluation](https://www.3gpp.org/ftp/tsg_sa/WG2_Arch/TSGS2_153E_Electronic_2022-10/INBOX/DRAFTS/FS_5G_ProSe_Ph2/S2-220xxxx%2023.700-33%20KI6%20Evaluation_HW.docx) (Huawei, HiSilicon)
* [KI#6: Conclusion](https://www.3gpp.org/ftp/tsg_sa/WG2_Arch/TSGS2_153E_Electronic_2022-10/INBOX/DRAFTS/FS_5G_ProSe_Ph2/S2-220xxxx%2023.700-33%20KI6%20Conclusion_HW.docx) (Huawei, HiSilicon)
  + Above documents are almost in the same direction. Source companies will work offline for the merged version.
* **Evaluation and Conclusion update on KIs**
  + [KI#4: Remove RAN dependency ENs in KI#4 Conclusions](https://www.3gpp.org/ftp/tsg_sa/WG2_Arch/TSGS2_153E_Electronic_2022-10/INBOX/DRAFTS/FS_5G_ProSe_Ph2/S2-22xxxxx_Remove%20ENs%20in%20KI%234%20conlcusions.docx) (CATT)
  + The direction of the note is almost fine. However wording improvement is required for the last part.
* [KI#5, Conclusion update: Resolve EN for multi-path](https://www.3gpp.org/ftp/tsg_sa/WG2_Arch/TSGS2_153E_Electronic_2022-10/INBOX/DRAFTS/FS_5G_ProSe_Ph2/S2-220xxxx_dual%20path_OPPO.doc) (OPPO)
  + It was commented simply removing EN is not sufficient.
* [KI#5 Evaluation and Conclusion](https://www.3gpp.org/ftp/tsg_sa/WG2_Arch/TSGS2_153E_Electronic_2022-10/INBOX/DRAFTS/FS_5G_ProSe_Ph2/S2-220xxxx_FS_5G_ProSe_Ph2_KI5_Update_on_evaluation_and_conclusion%20v1.doc) (Intel)
  + Source company would be open for the new indication. However the existing access type preference is not sufficient. Some improvement is required.
  + With or without N3IWF should be separated.
  + Some comment is raised for the note1. Work offline to see whether it can be removed.

Work offline with interested companies.

* [KI#5: Evaluation update](https://www.3gpp.org/ftp/tsg_sa/WG2_Arch/TSGS2_153E_Electronic_2022-10/INBOX/DRAFTS/FS_5G_ProSe_Ph2/S2-220xxxx%2023.700-33%20KI5%20Evaluation%20update_HW.docx) (Huawei, HiSilicon)
  + Depend on the solution update which was discussed in the CC due to time limitation.
* [Update on KI#5 Conclusion for Sol#27](https://www.3gpp.org/ftp/tsg_sa/WG2_Arch/TSGS2_153E_Electronic_2022-10/INBOX/DRAFTS/FS_5G_ProSe_Ph2/S2-220xxxx%2023.700-33%20KI7%20Conclusion_HW.docx) (Huawei, HiSilicon)
  + It was asked how to specify this in the normative phase. It is replied that detailed procedure and impacts have been captured in the solution.
  + Some questions are raised on the solution itself. Whether the existing PDU session or new PDU session is used? It is replied that both are possible. For the existing PDU session, then with different QoS flows.
* [Update to conclusions for KI#1: Support of UE-to-UE relay](https://www.3gpp.org/ftp/tsg_sa/WG2_Arch/TSGS2_153E_Electronic_2022-10/INBOX/DRAFTS/FS_5G_ProSe_Ph2/S2-220xxxx-pCR%20TR%2023.700-33%20KI%231%20UE-to-UE%20relay%20conclusions%20updates_r0.docx) (Qualcomm)
  + IDCC raised concern on the multiple applications case. It was clarified how to apply this for multiple applications case
  + Huawei support this direction.
* **Solution update on KI#7**
* [KI#7,Sol#45,Update to Sol#45](https://www.3gpp.org/ftp/tsg_sa/WG2_Arch/TSGS2_153E_Electronic_2022-10/INBOX/DRAFTS/FS_5G_ProSe_Ph2/S2-220xxxx_5G%20ProSe_KI%237_Solution%2345%20Update.docx)
* [KI#7, Sol#42: update to resolve Ens](https://www.3gpp.org/ftp/tsg_sa/WG2_Arch/TSGS2_153E_Electronic_2022-10/INBOX/DRAFTS/FS_5G_ProSe_Ph2/ER_S2-22xxxxx_ProSe_ph2_23700-33_KI%237_Sol%2342update_r1.doc)
* [KI#7, Sol#42 Update: Emergency Services for UE to Network Relaying](https://www.3gpp.org/ftp/tsg_sa/WG2_Arch/TSGS2_153E_Electronic_2022-10/INBOX/DRAFTS/FS_5G_ProSe_Ph2/S2-220nnnnn_Update_Sol%2042_MTK.doc)
* [KI#7 emergency: Update of solution #47](https://www.3gpp.org/ftp/tsg_sa/WG2_Arch/TSGS2_153E_Electronic_2022-10/INBOX/DRAFTS/FS_5G_ProSe_Ph2/S2-220xxxx%20(23.700-33%20Solution%20%2347%20update)_Nokia.doc)
  + Due to time limitation, the above 4 documents was not discussed. Offline discussion is required.
* **Solution update on other KIs**
* [KI#5 Sol#29 Update: Policy and Authorization for Multi-path Transmission](https://www.3gpp.org/ftp/tsg_sa/WG2_Arch/TSGS2_153E_Electronic_2022-10/INBOX/DRAFTS/FS_5G_ProSe_Ph2/S2-220xxxx%2023.700-33%20KI5%20Sol29%20Update%20Policy%20and%20Authorization%20for%20Multi-path%20Transmission_HW.docx)
  + Due to time limitation, the above document was not discussed. Offline discussion is required.