Minutes of

eLCS\_ph3,

9:00PM-11:00PM Beijing, 26th July

Chaired by Ming

Participants:

Dimitrios, ABHISHEK, AHL, Baixiao, Simon, Cristina, David, Jinsook, Ellen, Guanlei, Hang, Hong, Ihab, Jingguo, Antoine, Leopold, Lars, Parsad, Chirs, Richárd, Rita, Runze, Saad, Malla, Ming, Sherry, Saso, LEI, Yunjing, Zhuoyun, Aihua,…

1. Nokia\_S2-22#####\_pCR\_eLCS\_Ph3-Sol KI#12 v1.2, presented by Simon Cai (NSB)

Questioned by Runze (HW), Hong Cheng, Jinguo (ZTE) …

Runze, Hong and Lars: asks that how can this solution save UE power.

Jinguo: for initial registration procedure, there is no LMF.

AiMing: Solution needs to be enhanced

1. HW\_S2-220byyy-pCR-KI#8, New Solution for location service continuity between EPS and 5GS (bi-direction), presented by Guanglei (HW)

Question from Jinguo：For Multiple QoS Class mapping, LMF/AMF maps QoS class to best effort, could LCS client finally accept the mapped QoS Class?

HW: try it best to satisfy required QoS from the LCS client, but the mapping principle needs offline checked.

Question from Simon: Is the solution applied for MT-LR or MO-LR?

HW: Only MT-LR.

1. ZTE\_S2-220xxxx FS\_eLCS\_Ph3 KI#2 solution 4 update, presented by Jinguo,

Jinguo: Interface between local AMF and LMF defined, NL1; non-UE associated signaling involved so no need NGAP association in local AMF anymore; no need ue infor retain in local AMF.

Question from Runze: RAN sends back message to local AMF (Uplink message, non-UE associated) and RAN is impacted.

Question from Mouquet Antoine (INNOV/NET): there is no definition for local AMF

Jinguo: not fully functional AMF, no need to store user state info

From Runze: for HW any AMF solution, definition is very clear.

Question from Simon: Could local AMF be a serving AMF or HW’s any AMF? Also asked for a clear definition for the local AMF.

Jinguo: not a serving AMF.

Question from Richard batorfi: is Local AMF a separated node or combined node with LMF? Could local AMF take other function?

Jinguo: logically separated, and now only used for location purpose.

1. HW- S2-220byyy - pCR LCS KI#12 LPHAP UE: presented by Runze (HW)

Runze: Indication from UDM, AMF uses this to identify LPHAP, and LMF select proper positioning method. Also RAN needs to handle the indication.

Question from Jinguo: RAN dependency, need to wait ran feedback?

Runze: Not necessary, just notice RAN to handle this indication.

Question from Hang Yu: how to determine the handling this for RAN?

Runze: give an example, provision RRC config to UE, if RAN understands power saving

Question from Stojanovski Saso: not just UDM subscription, UE capability should be concerned

Runze: it’s only related to radio capability, no need to consider UE capability.

Question from AiMing: need to consider RAN opinion

Runze: don't have the plan yet, maybe just tell RAN UE to be configured for power saving

5. S2-220xxxx FS\_eLCS\_Ph3 KI#2 evaluation and conclusion, presented by Jinguo:

Discuss together with Sol 5 (Next topic)

6. HW-FS\_eLCS Ph3 KI#2 & KI#2 discussion-CC, presented by Runze:

Runze: for UE associated signaling, Sol4 impacts AMF/LMF/RAN, while HW has no impact

Jinguo: Sol 4 optimize for UE associated signaling to reduce the latency, and location info not exposed to public AMF.

Runze: HW has different understanding, only provision/configuration message to UE, there’s no critical info go through public AMF, so no need to protect.

Jinguo: ZTE will check this offline if key info, such as UE location, is included in NRPPa message.

Jinguo: suggested merging two solutions in 1 tdoc, and will work offline with HW.

Question from DISH Jinsook: is local AMF collocated with LMF?

Jinguo: can be collocated.

Question from Saso/Sherry Shen/ Pudney chris (Vodafone): what message should be sent to local AMF? RAN need to differentiated messages and sent messages to serving AMF or local AMF. RAN impacted.

Jinguo: only for location n2 messages (NRPPa positioning messages) go to local AMF, not NAS.

Question from DISH - Jinsook : what about the local amf selection?

Jinguo: Local config

7. S-220byyy-pCR-KI#5, evaluation and conclusion of KI#5，presented by Guanglei

Question from Saso: in the conclusion part, if one specific solution is concluded, suggests to list the principles of the specific solution.

8. S2-220xxxx\_FS\_eLCS\_Ph3\_700-71\_evaluation\_PRU\_KI#7-CATT, presented by Yunjing

Question from Saso: how to handle with remaining ran related work?

Yunjing: discuss with RAN and will send LS to RAN

Question from David Gutierrez (Samsung): Reference UE should be considered for this KI. So now it can’t be fully concluded.

AiMing: work offline about the conclusion on Reference UE.

9: S2-220xxxx\_FS\_eLCS\_Ph3\_700-71\_evaluation\_KI with one sol-CATT, Presented by Yunjing:

Question from Guanglei: it’s better to write separated TDoc for different KIs

Question from Runze: KI# 5/6 can be concluded, but KI# 11, better to take some time to wait for new solutions

Question from Hang Yu: Agree with Runze

Question from Saso: should not mix different KIs in one TDoc and agree with Runze

AiMing: Yunjing please work with Guanglei offline about KI# 5

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6. HW-FS\_eLCS Ph3 KI#2 & KI#2 discussion-CC, Runze Sol 4 and Sol 5: Presented by Runze

Focus on the slide#5:

More than one solution (e.g. Sol 6/8/9) can be concluded.

For Sol 7, need update or merge.

Jinguo: multiple solutions is ok, but better to talk with CMCC offline

Aiming: we can agree now that we can have more than one sol to be chosen, but which ones need further discussion.

11: S2-220xxxx\_FS\_eLCS\_Ph3\_Work\_Plan\_v2, Presented by Aiming, work plan

Question from: For Sol 4, RAN dependency, yes; But for Sol 5 need changed to maybe

Sherry: For RAN dependency issues, need check time plan

Dimitrios Karampatsis: focus on KI#4 and plan to make some evaluations, (Ming: draft paper and submit to both eLCS3 and eNA3 agenda, and I will discuss this with Aihua..)

Jinguo: For notifying RAN WG that our LCS related progress/conclusion, need and how to prepare LS out to RAN? Suggested taken by rapporteur.

Runze: It’s not proper to do all this by one person, volunteer suggested.

Ming will discuss this with Runze and decide.

Hang Yu(Hank): question about plan about new solution / solution update for next 2 meetings. Ming answers.

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Ming thanked all the participants and closed the meeting at 11.03 PM Beijing time.