**Way forward for ProSe CP-based solution**

**Part 1: Way forward**

In TS 33.503 v0.2.0, the following editor's notes exist in CP-based solution:

Editor's note: Further details on authentication message handling in UE, Relay UE's AMF and AUSF are FFS.

Editor's note: There are essentially two different KAUSF keys. Different key names should be used to avoid confusion and misleading. This is FFS.

Editor's note: A new service operations should be used for Prose authentication to distinguish it from primary authentication defined in 33.501, to separate the different function and service logic. This is FFS.

Editor's note: Further details on the needs and usage of 5GPRUK ID are FFS.

**Question group 1: How to authenticate the Remote UE?**

Question 1.1: Use existing authentication methods or newly defined authentication methods?

a) Existing methods(5G AKA and/or EAP-AKA’)

b) Newly defined methods

Conclusion:

Question 1.2: If using existing authentication methods, which methods should be used?

a) only EAP-AKA'

b) Both EAP-AKA' and 5G AKA

Conclusion:

**Question group 2: Define new service operation and Kausf name for ProSe service?**

Question 2.1: Use existing service operations or newly defined service operations?

a) Existing service operations

b) Newly defined service operations

Conclusion:

Question 2.2: Use existing Kausf name or newly defined Kausf name?

a) Existing Kausf name

b) Newly defined Kausf name

Conclusion:

**Question group 3: How to deal with 5GPRUK and 5GPRUK ID?**

Question3.1: Does ProSe system need to store 5GPRUK and 5GPRUK ID?

a) Yes

b) No

Conclusion:

If the answer to question3.1 is "yes", the following questions apply:

Question3.2: Where are 5GPRUK and 5GPRUK ID stored?

a) In an existing network element (AUSF, UDM, etc.)

b) In a ProSe specific network element (PKM, PAnF, 5G DDNMF, etc.)

Conclusion:

Question3.3: If stored in an existing network element, it should be:

a) AUSF

b) UDM

c) Others

Conclusion:

Question3.4: If stored in a ProSe specific network element, it should be:

a) PKMF

b) PAnF

c) 5G DDNMF

Conclusion:

Question3.5: Who accesses the key storage function?

a) AUSF

b) AMF

c) Others

Conclusion:

**Part 2: Merger proposal**

See contribution “CP merger plan proposal” in Drafts folder.