**Way forward of ProSe KI#1 Conclusion**

**Background:**

SA2 already reach the following conclusions:

* The 5G ProSe UE-to-UE Relay discovery message contains two sets of elements, i.e. direct discovery set(s) and a U2U discovery set.
* The direct discovery set of elements can be part of the contents of 5G ProSe Direct Discovery message as defined in Rel-17.
* The U2U discovery set contains the information to support the discovery of the UE-to-UE relay and extensions of the direct discovery.
* 5G ProSe UE-to-UE relay only modifies the U2U set of the elements, and forwards the end-to-end elements during the discovery procedures.

SA3 currently has two methods for protecting U2U relay discovery messages:

* One key set method: U2U discovery security materials are used to protect both U2U discovery set and direct discovery set.
* Two key sets: U2U discovery security materials and direct discovery security materials are used to protect U2U discovery set and direct discovery set respectively.

**Part 1: Questions for show of hands**

**Question 1: How to protect U2U relay discovery messages?**

Option 1: Using one set of security materials

Option 2: Using two sets of security materials

Supporter of option 1:

Supporter of option 2:

Conclusion: