**3GPP TSG-SA3 Meeting #100bis-e draft\_S3-202470-r2**

**e-meeting, 12 – 16 October 2020**

**Source: Huawei, HiSilicon**

**Title: New solution on discovery message protection**

**Document for: Approval**

**Agenda Item: 2.9**

# 1 Decision/action requested

***Approve this contribution to add a solution to KI #1 in TR33.847***

# 2 References

[1]

# 3 Rationale

The contribution proposes a solution to key issue #1: Discovery message protection.

# 4 Detailed proposal

\*\*\* BEGINNING OF CHANGES \*\*\*

## 6.0 Mapping of Solutions to Key Issues

Table 6.0-1: Mapping of Solutions to Key Issues

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | Key Issues | | | | | | | | | |
| Solutions | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |
| 1 |  |  |  |  |  |  |  |  | X |  |
| 2 |  |  |  |  |  |  |  |  |  | X |
| 3 |  |  |  |  |  |  |  |  |  |  |
| 4 |  |  |  |  |  |  |  |  |  |  |
| 5 |  |  |  |  |  |  |  |  |  |  |
| X | X |  |  |  |  |  |  |  |  |  |

\*\*\* END OF 1st CHANGES \*\*\*

\*\*\* BEGINNING OF 2nd CHANGES \*\*\*

## 6.X Solution #X: Discovery message protection

### 6.X.1 Solution overview

This solution addresses the Key Issue #1: Discovery message protection.

This solution proposes that the 5G DDNMF sets appropriate message protection policies to be used by UEs for open discovery and restricted discovery.

### 6.X.2 Solution details

The 5G DDNMF decides discovery message protection policy that will be used by UEs in open discovery message and in restricted discovery.

For open discovery, the 5G DDNMF at least provides integrity protection indication to the announce UE.

For restricted discovery, the 5G DDNMF can either provide integrity protection indication only, or provide both integrity protection indication and confidentiality protection indication to the announce UE or discoverer UE.

Editor’s Note: Whether this solution supports the out-of-coverage scenario or how to support the out-of-coverage scenario are FFS.

Editor’s Note: It is FFS how to protect and verify the discovery message.

### 6.X.3 Solution evaluation

TBD

\*\*\* END OF CHANGES \*\*\*