**SA WG2 Meeting #141e S2-200xxxx**

**12 - 23 October, 2020, Electronic (*was S2-200xxxx*)**

**Source: Ericsson (Rapporteur)**

**Title: Overlapping papers**

**Document for: Approval**

**Agenda Item: 8.2**

**Work Item / Release: FS\_eNPN / Rel-17**

*Abstract of the contribution: This contribution lists overlapping papers and proposes a handling for them i.e. papers for agenda item 8.2 that are not mentioned are proposed to be progressed separately.*

# 1. Discussions

## 1.1 KI#1

### 1.1.1 Solution papers

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| 8.2 | **[S2-2006866](ftp://ftp.3gpp.org/tsg_sa/WG2_Arch/TSGS2_141e_Electronic/Docs/S2-2006866.zip)** | P-CR | Approval | 23.700-07: KI #1, Sol #41 - Solution update to address ENs. | LG Electronics | Rel-17 |  | Overlaps with S2-2007053, merge?  Seems to be a different resolution than in 7053 i.e. hard to merge? |  |
| 8.2 | **[S2-2007053](ftp://ftp.3gpp.org/tsg_sa/WG2_Arch/TSGS2_141e_Electronic/Docs/S2-2007053.zip)** | P-CR | Approval | 23.700-07: KI#1, Sol#41, updates to address the ENs. | Huawei, HiSilicon | Rel-17 |  | Overlaps with S2-2006866, merge?  Seems to be a different resolution than in 6866 i.e. hard to merge? |  |
| 8.2 | **[S2-2007255](ftp://ftp.3gpp.org/tsg_sa/WG2_Arch/TSGS2_141e_Electronic/Docs/S2-2007255.zip)** | P-CR | Approval | 23.700-07: KI#1, Update solution #11, Resolve Editor's note on SoR. | Ericsson | Rel-17 |  | Overlaps with S2-2007581 for one EN, merge changes for one EN? | merge into 7581? |
| 8.2 | **[S2-2007581](ftp://ftp.3gpp.org/tsg_sa/WG2_Arch/TSGS2_141e_Electronic/Docs/S2-2007581.zip)** | P-CR | Approval | 23.700-07: KI #1, Solution #11, update to remove Editor notes . | Futurewei, Philips, Alibaba | Rel-17 |  | Overlaps with S2-2007255 for one EN, merge changes for one EN?  Formatting issues. |  |
| 8.2 | **[S2-2007349](ftp://ftp.3gpp.org/tsg_sa/WG2_Arch/TSGS2_141e_Electronic/Docs/S2-2007349.zip)** | P-CR | Approval | 23.700-07: KI #1, Sol #44: Update to maintain the consistency of UE subscription data between SNPN and AAA-Server. | China Telecom | Rel-17 |  | Updates same solution as S2-2007432 but seems no overlap? | progress separately? |
| 8.2 | **[S2-2007432](ftp://ftp.3gpp.org/tsg_sa/WG2_Arch/TSGS2_141e_Electronic/Docs/S2-2007432.zip)** | P-CR | Approval | 23.700-07: KI#1, Sol#44: Update to clarify the solution. | Huawei, HiSilicon | Rel-17 |  | Updates same solution as S2-2007349 but seems no overlap? | progress separately? |

S2-2006866 and S2-2007053 overlaps, but seems to be proposing different resolutions.

S2-2007255 could be merged into S2-2007581.

Seems no overlap between S2-2007349 and S2-2007432.

**Proposal**:

A. Discuss which paper to use for updating the solution#41 i.e. S2-2006866 or S2-2007053.

B. Merge S2-2007255 into S2-2007581

C. S2-2007349 and S2-2007432 can be kept separate but ensure revisions does not cause overlap

### 1.1.2 Evaluation

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| 8.2 | [**S2-2007047**](ftp://ftp.3gpp.org/tsg_sa/WG2_Arch/TSGS2_141e_Electronic/Docs/S2-2007047.zip) | P-CR | Approval | 23.700-07: KI#1, evaluations and conclusions. | Huawei, HiSilicon | Rel-17 |  | Evaluation and conclusions for AAA, mobility, simultaneous data service, credentials owned by SNPN complaint SP limited to cross network service discovery aspects |  |
| 8.2 | **[S2-2007374](ftp://ftp.3gpp.org/tsg_sa/WG2_Arch/TSGS2_141e_Electronic/Docs/S2-2007374.zip)** | P-CR | Approval | 23.700-07: KI#1, Evalution Part for the SoR. | OPPO | Rel-17 |  | Evaluation of SoR |  |

Seems there is no overlap for evaluation papers.

**Proposal**:

Keep papers separate

### 1.1.3 Conclusion

There is a need to agree on how to separate the conclusion clause. Possibly we can separate conclusions per topic and/or scenarios.

Maybe we can first we can separate between type of subscriptions and also include AUSF/UDM vs AAA scenario:

1. UEs with PLMN subscription and

2. UEs with SNPN subscription

2a. when H-SNPN owns AUSF and UDM

2b. when H-SNPN owns AAA

We can then apply further separation within the above e.g. for Architecture, Network Selection, Mobility, simultaneous data service, service discovery aspects etc. However, some of the aspects may be equal for all scenarios.

**Proposal**: We list the Architecture, Network Selection, Mobility, simultaneous data service, service discovery aspects within heading 2a above and then for 2b we have same separation and either refer to 2a for same solution applies or whether there are differences.

Following clauses attempts to follow the above separation.

#### 1.1.3.1 Conclusions for UEs with a PLMN subscription

No papers as waiting for SA1 reply.

#### 1.1.3.2 Conclusions for UEs with an SNPN subscription

##### 1.1.3.2.1 Conclusions when H-SNPN owns AUSF and UDM

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| 8.2 | [**S2-2007047**](ftp://ftp.3gpp.org/tsg_sa/WG2_Arch/TSGS2_141e_Electronic/Docs/S2-2007047.zip) | P-CR | Approval | 23.700-07: KI#1, evaluations and conclusions. | Huawei, HiSilicon | Rel-17 |  | Evaluation and conclusions for AAA, mobility, simultaneous data service, credentials owned by SNPN complaint SP limited to cross network service discovery aspects |  |
| 8.2 | **[S2-2007089](ftp://ftp.3gpp.org/tsg_sa/WG2_Arch/TSGS2_141e_Electronic/Docs/S2-2007089.zip)** | P-CR | Approval | 23.700-07: KI#1, Proposed conclusions. | Intel, Ericsson | Rel-17 |  | Conclusions when H-SNPN owns AUSF and UDM  Alternative to S2-2007252 |  |
| 8.2 | **[S2-2007252](ftp://ftp.3gpp.org/tsg_sa/WG2_Arch/TSGS2_141e_Electronic/Docs/S2-2007252.zip)** | P-CR | Approval | 23.700-07: KI#1, Proposed conclusions. | Ericsson, Intel | Rel-17 |  | Conclusions when H-SNPN owns AUSF and UDM  Alternative to S2-2007089 |  |
| 8.2 | **[S2-2007375](ftp://ftp.3gpp.org/tsg_sa/WG2_Arch/TSGS2_141e_Electronic/Docs/S2-2007375.zip)** | P-CR | Approval | 23.700-07: KI#1, Partial conclusion for mobility. | OPPO | Rel-17 |  | Conclusion for mobility scenario from SNPN#1 with separate entity#1 to SNPN#2 with separate entity#1 |  |
| 8.2 | **[S2-2007587](ftp://ftp.3gpp.org/tsg_sa/WG2_Arch/TSGS2_141e_Electronic/Docs/S2-2007587.zip)** | P-CR | Approval | 23.700-07: KI#1: Interim conclusions. | MediaTek Inc. | Rel-17 |  | Conclusions including general principles and network selection for automatic selection for SNPN |  |
| 8.2 | [**S2-2007737**](ftp://ftp.3gpp.org/tsg_sa/WG2_Arch/TSGS2_141e_Electronic/Docs/S2-2007737.zip) | P-CR | Approval | 23.700-07: KI#1 conclusion for update of SNPN selection information in the UE. | Qualcomm Incorporated | Rel-17 |  | Conclusions for updating SNPN selection information in the UE when Home SP owns AUSF and UDM, and Conclusions when Home SP owns a AAA |  |
| 8.2 | **[S2-2007738](ftp://ftp.3gpp.org/tsg_sa/WG2_Arch/TSGS2_141e_Electronic/Docs/S2-2007738.zip" \t "_blank)** | P-CR | Approval | 23.700-07: KI#1 conclusion for UEs with SNPN subscription | Qualcomm Incorporated, Verizon UK Ltd., Vodafone, Charter Communications, Sennheiser, Tencent, Samsung, Nokia, Nokia Shanghai Bell, Cisco Systems, Futurewei | Rel-17 |  | Conclusions when SP is SNPN and when Home SP owns AUSF and UDM, for architecture and network selection |  |
| 8.2 | **[S2-2007756](ftp://ftp.3gpp.org/tsg_sa/WG2_Arch/TSGS2_141e_Electronic/Docs/S2-2007756.zip)** | P-CR | Approval | 23.700-07: KI#1, Conclusion . | Nokia, Nokia Shanghai Bell | Rel-17 |  | Conclusion on network selection aspects related to SIB indications  Formatting errors. |  |
| 8.2 | [**S2-2007763**](ftp://ftp.3gpp.org/tsg_sa/WG2_Arch/TSGS2_141e_Electronic/Docs/S2-2007763.zip) | P-CR | Approval | 23.700-07: KI#1 conclusion for UEs with SNPN subscription (incl. AAA aspects). | Qualcomm Incorporated, Huawei | Rel-17 |  | Conclusions when SP is SNPN and when Home SP owns AUSF and UDM, for architecture and network selection, and conclusion for AAA scenario |  |

S2-2007763 and S2-2007738 seems to be same proposal for AUSF/UDM scenario.

It seems like some of the main differences between solutions are related to SIB info and basis for the automatic SNPN network selection:

1) UE configured lists of preferred SNPNs only (as described in S2-2007089, S2-2007587)

2) UE configured lists of preferred SNPNs and Home SP Group IDs and SIB Broadcast of Home SP Group IDs (as described in S2-2007738)

3) UE configured lists of preferred SNPNs and an additional SIB indication (allowing UEs to try to register on available SNPNs that are not in the UEs’ configured lists, as described in S2-2007252, S2-2007587)

4) UE configured lists of preferred SNPNs and Home SP Group IDs and SIB Broadcast of Home SP Group IDs and an additional SIB indication (allowing UEs to try to register on available SNPNs that are not in the UEs’ configured lists, as described in S2-2007756

There is a need to take a decision on a way forward for the above principles for network selection and required SIB information (terminology etc. can be adapted).

Following papers covers how the UE is updated with network selection lists: S2-2007587, S2-2007737, S2-2007089, S2-2007252. All papers propose UPU. 7587 also proposes UCU. However, evaluation proposal in S2-2007374 seems to handle same topic discussing SoR while there is no conclusion proposal.

Following papers handle mobility scenarios S2-2007047, S2-2007375. Seems like the proposals are on a different level and i.e. should be possible to discuss the papers separately.

Following papers handle network selection when the UE is unable to find a suitable cell to camp on based on its subscription and configured lists: S2-2007089, S2-2007587, S2-2007738.

i) S2-2007089 proposes to stop automatic network selection, the user may then proceed with manual network selection.

ii) S2-2007587 proposes to not automatically stop automatic network selection but instead that the UE may automatically select and attach to a network using external credentials if this network is available and allowable and it allows access using external credentials. If the UE is unable to find any available and allowable network to camp on, it shall attempt to camp on an acceptable cell of any available SNPN supporting emergency calls (irrespective of SNPN ID) or of any available PLMN (irrespective of PLMN ID), in limited service state. Automatic network selection is never stopped automatically. iii) S2-2007738 proposes to not automatically stop automatic network selection but instead that the UE may automatically select and attach to a network using external credentials if this network is available and allowable and it allows access using external credentials. If the UE is unable to find any available and allowable network to camp on, automatic network selection is stopped, the user may then proceed with manual network selection.

**Proposal**:

A. Take a decision on a way forward between solutions related to SIB info and basis for the automatic SNPN network selection (see options 1-4).

B. Use S2-2007047 as basis for discussing simultaneous data service, service discovery and discuss the mobility scenarios separately in both S2-2007047 and S2-2007375.

C. Use UPU as a baseline procedure how to update the UE with network selection list. UCU is not used. Discuss which paper to use for how the UE is updated with network selection lists e.g. use S2-2007737 as basis.

D. Take a decision on a way forward for network selection when the UE is unable to find a suitable cell to camp on based on its subscription and configured lists. Use S2-2007587 as basis.

##### 1.1.2.2.1 Conclusions when H-SNPN owns AAA

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| 8.2 | **[S2-2007047](ftp://ftp.3gpp.org/tsg_sa/WG2_Arch/TSGS2_141e_Electronic/Docs/S2-2007047.zip)** | P-CR | Approval | 23.700-07: KI#1, evaluations and conclusions. | Huawei, HiSilicon | Rel-17 |  | Evaluation and conclusions for AAA, mobility, simultaneous data service, credentials owned by SNPN complaint SP limited to cross network service discovery aspects  overlap with S2-2007253, 7757 |  |
| 8.2 | **[S2-2007253](ftp://ftp.3gpp.org/tsg_sa/WG2_Arch/TSGS2_141e_Electronic/Docs/S2-2007253.zip)** | P-CR | Approval | 23.700-07: KI#1, Proposed conclusions for AAA scenario. | Ericsson | Rel-17 |  | Conclusions for AAA scenario  overlap with S2-2007047, 7757 |  |
| 8.2 | **[S2-2007737](ftp://ftp.3gpp.org/tsg_sa/WG2_Arch/TSGS2_141e_Electronic/Docs/S2-2007737.zip)** | P-CR | Approval | 23.700-07: KI#1 conclusion for update of SNPN selection information in the UE. | Qualcomm Incorporated | Rel-17 |  | Conclusions for updating SNPN selection information in the UE when Home SP owns AUSF and UDM, and Conclusions when Home SP owns a AAA | Keep AAA aspects separate? |
| 8.2 | **[S2-2007757](ftp://ftp.3gpp.org/tsg_sa/WG2_Arch/TSGS2_141e_Electronic/Docs/S2-2007757.zip)** | P-CR | Approval | 23.700-07: KI#1, Conclusion - architecture approach for AAA support. | Nokia, Nokia Shanghai Bell | Rel-17 |  | Conclusion for AAA aspects | merge into other paper? |
| 8.2 | **[S2-2007763](ftp://ftp.3gpp.org/tsg_sa/WG2_Arch/TSGS2_141e_Electronic/Docs/S2-2007763.zip)** | P-CR | Approval | 23.700-07: KI#1 conclusion for UEs with SNPN subscription (incl. AAA aspects). | Qualcomm Incorporated, Huawei | Rel-17 |  | Conclusions when SP is SNPN and when Home SP owns AUSF and UDM, for architecture and network selection, and conclusion for AAA scenario |  |

The S2-2007047, S2-2007253, S2-2007763 and S2-2007757 overlap. S2-2007763 seems to propose simply to state that scenario is to be supported and wait for SA3 before progressing more details. The aspects of S2-2007757 seems to be aligned with S2-2007253 and could be merged into S2-2007253, but seems initial discussion needed whether to use S2-2007047, S2-2007763 or S2-2007253 as basis.

The S2-2007737 focus on updating SNPN selection information in the UE i.e. can be kept separate for AAA option.

**Proposal**:

1. Initial discussions whether to use S2-2007047, S2-2007763 or S2-2007253 as basis for AAA changes

2. S2-2007737 can be progressed separately including how to update the UE with SNPN selection information

## 1.2 KI#2

### 1.2.1 Solution papers

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| 8.2 | **[S2-2007125](ftp://ftp.3gpp.org/tsg_sa/WG2_Arch/TSGS2_141e_Electronic/Docs/S2-2007125.zip)** | P-CR | Approval | 23.700-07: KI#2 - Solution#46- Propose resolution of Editor´s Notes. | Ericsson, NTT DOCOMO | Rel-17 |  | Overlaps with S2-2007433, merge?  Resolves an EN in a similar way. |  |
| 8.2 | **[S2-2007433](ftp://ftp.3gpp.org/tsg_sa/WG2_Arch/TSGS2_141e_Electronic/Docs/S2-2007433.zip)** | P-CR | Approval | 23.700-07: KI#2, Sol#46: Update to solve EN(s). | Huawei, HiSilicon | Rel-17 |  | Overlaps withS2-2007125, merge?  Resolves an EN in a similar way. | Merge into 7125 |

**Proposal**:

Merge S2-2007433 into S2-2007125

### 1.2.2 Evaluation

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| 8.2 | [**S2-2007312**](ftp://ftp.3gpp.org/tsg_sa/WG2_Arch/TSGS2_141e_Electronic/Docs/S2-2007312.zip) | P-CR | Approval | 23.700-07: KI#2, Update evaluation and conclusion. | Ericsson | Rel-17 |  | Evaluation updates and conclusion related to selection of subscription for Uu  - Evaluation general cleanup | merge in evaluation aspects into 7376? |
| 8.2 | [**S2-2007376**](ftp://ftp.3gpp.org/tsg_sa/WG2_Arch/TSGS2_141e_Electronic/Docs/S2-2007376.zip) | P-CR | Approval | 23.700-07: KI#2, Update on the Evaluation. | OPPO | Rel-17 |  | Evaluation updates – general | Use as basis for evaluation changes? |
| 8.2 | [**S2-2007572**](ftp://ftp.3gpp.org/tsg_sa/WG2_Arch/TSGS2_141e_Electronic/Docs/S2-2007572.zip) | P-CR | Approval | 23.700-07: 23.700-07 KI#2 QoS and session continuity considerations and conclusion proposal. | Huawei, HiSilicon | Rel-17 |  | Evaluation updates and conclusion updates related to service continuity, QoS, receive data services from both networks  Formatting issues | merge in evaluation aspects into 7376? |
| 8.2 | [**S2-2007600**](ftp://ftp.3gpp.org/tsg_sa/WG2_Arch/TSGS2_141e_Electronic/Docs/S2-2007600.zip) | P-CR | Approval | 23.700-07: KI #2 , evaluation and conclusion on simultaneously connections with both networks. | Futurewei, Philips, | Rel-17 |  | Evaluation updates for sol#18 and #51, and conclusion updates for receive data services from both networks | merge in evaluation aspects into 7376? |

All evaluation papers changes the same table with some overlaps.

**Proposal**:

Merge the papers and use S2-2007376 as basis as it focus only on evaluation changes.

### 1.2.3 Conclusion

Possibly we can separate conclusions per topic.

#### 1.2.3.1 Receive data services and paging from both network

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| 8.2 | **[S2-2007572](ftp://ftp.3gpp.org/tsg_sa/WG2_Arch/TSGS2_141e_Electronic/Docs/S2-2007572.zip)** | P-CR | Approval | 23.700-07: 23.700-07 KI#2 QoS and session continuity considerations and conclusion proposal. | Huawei, HiSilicon | Rel-17 |  | Evaluation updates and conclusion updates related to service continuity, QoS, receive data services from both networks  Formatting issues |  |
| 8.2 | [**S2-2007600**](ftp://ftp.3gpp.org/tsg_sa/WG2_Arch/TSGS2_141e_Electronic/Docs/S2-2007600.zip) | P-CR | Approval | 23.700-07: KI #2 , evaluation and conclusion on simultaneously connections with both networks. | Futurewei, Philips, | Rel-17 |  | Evaluation updates for sol#18 and #51, and conclusion updates for receive data services from both networks and QoS notifications |  |
| 8.2 | **[S2-2007705](ftp://ftp.3gpp.org/tsg_sa/WG2_Arch/TSGS2_141e_Electronic/Docs/S2-2007705.zip)** | P-CR | Approval | 23.700-07: KI#2 conclusion. | Qualcomm Incorporated, Sennheiser, Deutsche Telekom | Rel-17 |  | Conclusion updates related for receive data services from both networks, QoS |  |

Overlap in how services are received from both networks. No obvious paper to use as basis but likely only one paper can be agreed for aspects related to how to receive data services from both networks.

**Proposal**:

Discuss and agree one paper to be used as basis.

#### 1.2.3.2 Conclusion related to selection of subscription for Uu

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| 8.2 | [**S2-2007154**](ftp://ftp.3gpp.org/tsg_sa/WG2_Arch/TSGS2_141e_Electronic/Docs/S2-2007154.zip) | P-CR | Approval | 23.700-07: KI#2, Update to evaluation and conclusion . | Alibaba Group | Rel-17 |  | Conclusion related to selection of subscription for Uu  - AF provides indication to UE via 5GC |  |
| 8.2 | [**S2-2007312**](ftp://ftp.3gpp.org/tsg_sa/WG2_Arch/TSGS2_141e_Electronic/Docs/S2-2007312.zip) | P-CR | Approval | 23.700-07: KI#2, Update evaluation and conclusion. | Ericsson | Rel-17 |  | Evaluation updates and conclusion related to selection of subscription for Uu  - conclusion general for Uu selection with EN |  |
| 8.2 | [**S2-2007572**](ftp://ftp.3gpp.org/tsg_sa/WG2_Arch/TSGS2_141e_Electronic/Docs/S2-2007572.zip) | P-CR | Approval | 23.700-07: 23.700-07 KI#2 QoS and session continuity considerations and conclusion proposal. | Huawei, HiSilicon | Rel-17 |  | Evaluation updates and conclusion updates related to service continuity, QoS, receive data services from both networks  Formatting issues |  |
| 8.2 | **[S2-2007588](ftp://ftp.3gpp.org/tsg_sa/WG2_Arch/TSGS2_141e_Electronic/Docs/S2-2007588.zip)** | P-CR | Approval | 23.700-07: KI#2: Interim conclusion on UE steering. | MediaTek Inc. | Rel-17 |  | Conclusion related to steering to another network  - new UE policy in UCU |  |
| 8.2 | [**S2-2007584**](ftp://ftp.3gpp.org/tsg_sa/WG2_Arch/TSGS2_141e_Electronic/Docs/S2-2007584.zip) | P-CR | Approval | 23.700-07: KI #2, Conclusion. | LG Electronics, LG Uplus | Rel-17 |  | conclusion updates related to QoS as argument for subscription selection  - SLA between networks, solution #47 |  |

Can we as a starting point agree that it should be possible for the network to influence the selection (S2-2007312 and S2-2007572 includes general conclusion)?

If the above is agreed, can we at this meeting agree further details how (S2-2007154, S2-2007588, S2-2007584)?

**Proposal**:

Use S2-2007312 as basis for general conclusion and then discuss whether and how to merge in proposed options how based on S2-2007154, S2-2007588 and S2-2007584?

#### 1.2.3.3 service continuity

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| 8.2 | [**S2-2007572**](ftp://ftp.3gpp.org/tsg_sa/WG2_Arch/TSGS2_141e_Electronic/Docs/S2-2007572.zip) | P-CR | Approval | 23.700-07: 23.700-07 KI#2 QoS and session continuity considerations and conclusion proposal. | Huawei, HiSilicon | Rel-17 |  | Evaluation updates and conclusion updates related to service continuity, QoS, receive data services from both networks  Service continuity based on Rel-16 with clarifications.  Formatting issues |  |

**Proposal**:

Service continuity aspects of the conclusion proposal seems to be possibel to handle separately

#### 1.2.3.4 QoS

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| 8.2 | [**S2-2007572**](ftp://ftp.3gpp.org/tsg_sa/WG2_Arch/TSGS2_141e_Electronic/Docs/S2-2007572.zip) | P-CR | Approval | 23.700-07: 23.700-07 KI#2 QoS and session continuity considerations and conclusion proposal. | Huawei, HiSilicon | Rel-17 |  | Evaluation updates and conclusion updates related to service continuity, QoS, receive data services from both networks  QoS only as a reason for Uu selection, i.e. no QoS changes proposed.  Formatting issues |  |
| 8.2 | [**S2-2007705**](ftp://ftp.3gpp.org/tsg_sa/WG2_Arch/TSGS2_141e_Electronic/Docs/S2-2007705.zip) | P-CR | Approval | 23.700-07: KI#2 conclusion. | Qualcomm Incorporated, Sennheiser, Deutsche Telekom | Rel-17 |  | Conclusion updates related for receive data services from both networks, QoS  - No QoS changes proposed |  |
| 8.2 | [**S2-2007758**](ftp://ftp.3gpp.org/tsg_sa/WG2_Arch/TSGS2_141e_Electronic/Docs/S2-2007758.zip) | P-CR | Approval | 23.700-07: KI#2, Conclusion update. | Nokia, Nokia Shanghai Bell | Rel-17 |  | conclusion updates related to QoS  - standard mapping |  |
| 8.2 | **[S2-2007600](ftp://ftp.3gpp.org/tsg_sa/WG2_Arch/TSGS2_141e_Electronic/Docs/S2-2007600.zip)** | P-CR | Approval | 23.700-07: KI #2 , evaluation and conclusion on simultaneously connections with both networks. | Futurewei, Philips, | Rel-17 |  | Evaluation updates for sol#18 and #51, and conclusion updates for receive data services from both networks and QoS notifications |  |

Merging seems to be hard with regards to QoS aspects.

**Proposal**:

- Discuss whether QoS changes are needed and if yes, what should be changed.

#### 1.2.3.5 Other

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| 8.2 | **[S2-2007468](ftp://ftp.3gpp.org/tsg_sa/WG2_Arch/TSGS2_141e_Electronic/Docs/S2-2007468.zip)** | P-CR | Approval | 23.700-07: 23.700-07 KI#2 CM states and paging: considerations and conclusion proposal. | Huawei, HiSilicon | Rel-17 |  | Conclusion related to how to keep UE in CM-CONNCTED  Proposes to re-use 24.502 mechanisms |  |
| 8.2 | **[S2-2007579](ftp://ftp.3gpp.org/tsg_sa/WG2_Arch/TSGS2_141e_Electronic/Docs/S2-2007579.zip)** | P-CR | Approval | 23.700-07: KI #2, Interim Conclusion update. | Sony, Alibaba Group | Rel-17 |  | Conclusion related to latency of resuming services for overlay network services |  |

**Proposal**:

No overlap i.e. handle papers separately.

## 1.3 KI#3

There seems to not be any overlapping papers

## 1.4 KI#4

### 1.4.1 Solution papers

No solution papers with overlap

### 1.4.2 Evaluation

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| 8.2 | **[S2-2007048](ftp://ftp.3gpp.org/tsg_sa/WG2_Arch/TSGS2_141e_Electronic/Docs/S2-2007048.zip)** | P-CR | Approval | 23.700-07: KI#4, evaluations and conclusions update. | Huawei, HiSilicon | Rel-17 |  | Evaluation updates and conclusion updates related to |  |
| 8.2 | **[S2-2007156](ftp://ftp.3gpp.org/tsg_sa/WG2_Arch/TSGS2_141e_Electronic/Docs/S2-2007156.zip)** | P-CR | Approval | 23.700-07: KI#4, Update to evaluation and conclusion. | Alibaba Group | Rel-17 |  | No evaluation.  Conclusion proposal for "additional default credential for decrypting the SNPN or PNI-NPN credential " |  |
| 8.2 | **[S2-2007327](ftp://ftp.3gpp.org/tsg_sa/WG2_Arch/TSGS2_141e_Electronic/Docs/S2-2007327.zip)** | P-CR | Approval | 23.700-07: KI #4, Evaluation - UE Onboarding. | Intel | Rel-17 |  | Evaluation proposal for Onboarding |  |
| 8.2 | **[S2-2007679](ftp://ftp.3gpp.org/tsg_sa/WG2_Arch/TSGS2_141e_Electronic/Docs/S2-2007679.zip)** | P-CR | Approval | 23.700-07: KI #4, evaluations and conclusions. | Alibaba Group | Rel-17 |  | Evaluation and conclusion updates related to:  evaluation: Solution #40  conclusion: related to  - onboarding after attestation using non-3GPP credentials  - provisoning to UE and UDM |  |

Papers S2-2007048 and S2-2007327 have overlapping evaluation using two different approaches.

S2-2007679 includes some limited description of solution #40 that can be merged into paper to be used as basis.

**Proposal**:

Discuss and decide whether to use S2-2007048 or S2-2007327 as basis for evaluation and then merge in the other paper.

### 1.4.3 Conclusion

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| 8.2 | [**S2-2007048**](ftp://ftp.3gpp.org/tsg_sa/WG2_Arch/TSGS2_141e_Electronic/Docs/S2-2007048.zip) | P-CR | Approval | 23.700-07: KI#4, evaluations and conclusions update. | Huawei, HiSilicon | Rel-17 |  | Evaluation updates and conclusion updates related to how to enable onboarding restriction, clause separation  Conclusion updates:  - further info to enable onboarding  Overlap | Conclusion part separate |
| 8.2 | [**S2-2007156**](ftp://ftp.3gpp.org/tsg_sa/WG2_Arch/TSGS2_141e_Electronic/Docs/S2-2007156.zip) | P-CR | Approval | 23.700-07: KI#4, Update to evaluation and conclusion. | Alibaba Group | Rel-17 |  | No evaluation.  Conclusion proposal for " additional default credential for decrypting the SNPN or PNI-NPN credential " | separate |
| 8.2 | **[S2-2007173](ftp://ftp.3gpp.org/tsg_sa/WG2_Arch/TSGS2_141e_Electronic/Docs/S2-2007173.zip)** | P-CR | Approval | 23.700-07: KI#4: Interim conclusions update. | Vivo | Rel-17 |  | Conclusion updates related:  - When the ON and SO are different  - timer configured for on-boarding registration is left to implementation  - UP vs CP mandatory or optional support for SNPN and PNI-NPN | separate |
| 8.2 | **[S2-2007309](ftp://ftp.3gpp.org/tsg_sa/WG2_Arch/TSGS2_141e_Electronic/Docs/S2-2007309.zip)** | P-CR | Approval | 23.700-07: KI#4, Interim conclusions. | Ericsson | Rel-17 |  | Conclusion updates related to some ENs  - EN on DCS  - RRC info  - S-NSSAI and DNN  - further info to enable onboarding  - UPU during Registration  - provisioning of UDM/UDR  One EN overlap with S2-2007048 but somewhat different solution for that EN  Keep it open whether | Propose as basis for merge |
| 8.2 | **[S2-2007310](ftp://ftp.3gpp.org/tsg_sa/WG2_Arch/TSGS2_141e_Electronic/Docs/S2-2007310.zip)** | P-CR | Approval | 23.700-07: KI#4, Interim conclusions - DCS and PS. | Ericsson | Rel-17 |  | Conclusion updates related to  - DCS and PS and whether they use 3GPP defined protocols | separate |
| 8.2 | **[S2-2007324](ftp://ftp.3gpp.org/tsg_sa/WG2_Arch/TSGS2_141e_Electronic/Docs/S2-2007324.zip)** | P-CR | Approval | 23.700-07: KI #4, Conclusion Update - Resolve ENs . | Intel | Rel-17 |  | Conclusion updates related to  - RRC info  - S-NSSAI and DNN  - Registration message indication  Overlap with S2-2007309 | Merge into 7309 |
| 8.2 | **[S2-2007325](ftp://ftp.3gpp.org/tsg_sa/WG2_Arch/TSGS2_141e_Electronic/Docs/S2-2007325.zip)** | P-CR | Approval | 23.700-07: KI #4, Conclusion Update - CP provisioning SNPN case . | Intel | Rel-17 |  | Conclusion updates related to  - proposes only UP provisioning to be supported for SNPN | separate |
| 8.2 | **[S2-2007339](ftp://ftp.3gpp.org/tsg_sa/WG2_Arch/TSGS2_141e_Electronic/Docs/S2-2007339.zip)** | P-CR | Approval | 23.700-07: KI #4, Conclusion Update Related to O-SNPN discovery . | Convida Wireless LLC, Samsung | Rel-17 |  | Conclusion updates related to  - ON selection and usage of " *temporary Network Identifier/Network readable name for Onboarding*."  Overlap with other proposals for SIB info, but additional info | Separate |
| 8.2 | **[S2-2007356](ftp://ftp.3gpp.org/tsg_sa/WG2_Arch/TSGS2_141e_Electronic/Docs/S2-2007356.zip)** | P-CR | Approval | 23.700-07: KIe #4, Update interim conclusions on NG-RAN impact. | China Telecom | Rel-17 |  | Conclusion updates related to  - SIB info  - RRC info  Overlap with S2-2007324 and S2-2007309 | Merge into 7309 |
| 8.2 | **[S2-2007378](ftp://ftp.3gpp.org/tsg_sa/WG2_Arch/TSGS2_141e_Electronic/Docs/S2-2007378.zip)** | P-CR | Approval | 23.700-07: KI#4: Update on the conclusion. | OPPO | Rel-17 |  | Conclusion updates related to  - DCS determination  Overlap with S2-2007309, but different solution based on? | Initially Separate |
| 8.2 | **[S2-2007571](ftp://ftp.3gpp.org/tsg_sa/WG2_Arch/TSGS2_141e_Electronic/Docs/S2-2007571.zip)** | P-CR | Approval | 23.700-07: KI#4: Update to conclusion. | InterDigital | Rel-17 |  | Conclusion updates related to  - SIB info and ON selection  Overlap with ? | Initially Separate |
| 8.2 | **[S2-2007589](ftp://ftp.3gpp.org/tsg_sa/WG2_Arch/TSGS2_141e_Electronic/Docs/S2-2007589.zip)** | P-CR | Approval | 23.700-07: KI#4: Interim conclusion. | MediaTek Inc. | Rel-17 |  | Conclusion updates related to  - RRC info  - Info in Registration message  Overlap with S2-2007324 and S2-2007309 | Merge into 7309 |
| 8.2 | **[S2-2007634](ftp://ftp.3gpp.org/tsg_sa/WG2_Arch/TSGS2_141e_Electronic/Docs/S2-2007634.zip)** | P-CR | Approval | 23.700-07: KI#4: Closing Editor's Notes for conclusions. | Qualcomm Incorporated | Rel-17 |  | Conclusion updates related to  - EN related to DCS  - RRC info  - Registration info  Overlap with S2-2007324 and S2-2007309, S2-2007589 but keeps open whether S-NSSAI or not used as indication | Initially Separate |
| 8.2 | **[S2-2007636](ftp://ftp.3gpp.org/tsg_sa/WG2_Arch/TSGS2_141e_Electronic/Docs/S2-2007636.zip)** | P-CR | Approval | 23.700-07: KI#4 and KI#1: SNPN selection for onboarding | Qualcomm Incorporated | Rel-17 |  | Conclusion updates stating:  " O-SNPN selection procedures will be defined as complementary to the general SNPN selection procedures and after conclusions for SNPN selection as studied in Key Issue #1 are agreed " | separate |
| 8.2 | [**S2-2007679**](ftp://ftp.3gpp.org/tsg_sa/WG2_Arch/TSGS2_141e_Electronic/Docs/S2-2007679.zip) | P-CR | Approval | 23.700-07: KI #4, evaluations and conclusions. | Alibaba Group | Rel-17 |  | Evaluation and conclusion updates related to:  evaluation: Solution #40  conclusion: related to  - onboarding after attestation using non-3GPP credentials  - provisoning to UE and UDM | separate |
| 8.2 | **[S2-2007759](ftp://ftp.3gpp.org/tsg_sa/WG2_Arch/TSGS2_141e_Electronic/Docs/S2-2007759.zip)** | P-CR | Approval | 23.700-07: KI#4, Conclusion update. | Nokia, Nokia Shanghai Bell | Rel-17 |  | Conclusion updates related to  - EN related to DCS  - S-NSSAI and DNN  - UPU during registration  Overlap with Overlap with S2-2007324 and S2-2007309, S2-2007589 | Merge into 7309 |

The following papers are more or less overlapping: S2-2007048, S2-2007309, S2-2007324, S2-2007339, S2-2007356, S2-2007378, S2-2007589, S2-2007634, S2-2007759.

Among the above papers it seems the following have somewhat similar proposals and should be able to be merged: S2-2007309, S2-2007324, S2-2007356, S2-2007589, S2-2007759.  
It is proposed to use S2-2007309 as basis.

S2-2007634 mostly includes similar conclusions as the above papers but with some differences. TBD if easy merging is possible without initial discussions.

Hence, following papers should be first discussed separately and then decide if agreed separately or merged.

S2-2007048, S2-2007378,

**Proposal**:

1. Use S2-2007309 as basis and merge content from S2-2007324, S2-2007356, S2-2007589, S2-2007759.

1a. Short discussion if S2-2007634 also can be merged with above papers.

2. Handle S2-2007048, S2-2007378 separately and then decide if agreed separately or merged.

# 2. Proposal

Discuss the above proposals per KI and agree on a way to handle the papers during the meeting.