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

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

**Source: Huawei (Rapporteur)**

**Title: Overlapping papers**

**Document for: Approval**

**Agenda Item: 8.9**

**Work Item / Release: FS\_5MBS / Rel-17**

*Abstract of the contribution: This contribution is trying to categorize the papers with overlapping content, and proposing a way of handling for them.*

# 1. Discussions

## 1.1 General

### 1.1.1 Architecture papers

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|  |  |  |  |  |  | **Summary** | **Comments/Suggestions from Rapporteur** |
| 8.9 | **[S2-2007512](https://www.3gpp.org/ftp/tsg_sa/WG2_Arch/TSGS2_141e_Electronic/Docs/S2-2007512.zip%22%20%5Ct%20%22_blank)** | P-CR | Approval | 23.757: Architecture#: Discussion and proposal on the convergence of architecture. | ZTE | * Include reference point based and Service based architecture.
* Include functionality description.
 | * Reference point based architecture overlaps with S2-2007671, merge into 7671?
* Functionality description overlaps S2-2006988/7261/6980, merge together?
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| 8.9 | **[S2-2007671](https://www.3gpp.org/ftp/tsg_sa/WG2_Arch/TSGS2_141e_Electronic/Docs/S2-2007671.zip%22%20%5Ct%20%22_blank)** | P-CR | Approval | 23.757: Proposed Merged Baseline Architecture. | Qualcomm Inc. | * Discuss the role and deployment options of MSF-C and MSF-U.
* Include reference point based architecture.
 | * Role and deployment options of MBSF/MBSU of S2-2007671 could be discussed separately.
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| 8.9 | **[S2-2006988](https://www.3gpp.org/ftp/tsg_sa/WG2_Arch/TSGS2_141e_Electronic/Docs/S2-2006988.zip%22%20%5Ct%20%22_blank)** | P-CR | Approval | 23.757: On the Consolidated Architecture. | Huawei, HiSilicon | * Include Service based architecture.
* Include functionality description.
 | * Functionality description overlaps S2-2007512/7261/6980, merge together?
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| 8.9 | **[S2-2007261](https://www.3gpp.org/ftp/tsg_sa/WG2_Arch/TSGS2_141e_Electronic/Docs/S2-2007261.zip%22%20%5Ct%20%22_blank)** | P-CR | Approval | 23.757: Architecture consideration. | Ericsson | * Include reference point based and Service based architecture.
* Include functionality description.
 | * Reference point based architecture overlaps with S2-2007671, merge into 7671?
* Functionality description overlaps S2-2007512/6988/6980, merge together?
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| 8.9 | **[S2-2006890](https://www.3gpp.org/ftp/tsg_sa/WG2_Arch/TSGS2_141e_Electronic/Docs/S2-2006890.zip%22%20%5Ct%20%22_blank)** | P-CR | Approval | 23.757: Evaluation and conclusion on architecture. | Vivo | * Include Service based architecture.
* Include functionality description.
 | * Functionality description overlaps S2-2007512/7261/6988, merge together?
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**Functionalities description**: S2-2007512, S2-2006988, S2-2007261 and S2-2006890 include the functionality description, and a potential merge is possible. One document (e.g., S2-2007671) could be used as a baseline.

**Architecture figure**: S2-2007671, S2-2007512 and S2-2007261 include the reference point based architecture, while S2-2007512, S2-2006988, S2-2007261 and S2-2006890 address the service-based architecture. It is suggested to first discuss the reference point architecture and add the associating service-based architecture when the reference point based architecture is stable. One document (e.g., S2-2007671) could be used as a baseline.

**Role and deployment options of MBSF/MBSU**: S2-2007671 deals with this aspect. It discusses the role and deployment options for the service related NF (i.e., MBSF/MBSU or MSF-C/-U).

**Proposal**:

A. Discuss which paper will be used to address the functionalities description, i.e., S2-2007512, S2-2006988, S2-2007261 or S2-2006890. And merge others into the baseline document.

B. Discuss which paper will be used to address the Architecture figure, i.e., S2-2007671, S2-2007512 and S2-2007261. S2-2007671 is suggested as the baseline document. And merge others into the baseline document.

C. Role and deployment options of MBSF/MBSU of S2-2007671 could be kept separate.

### 1.1.2 LS in/out

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| 8.9 | [**S2-2007528**](https://www.3gpp.org/ftp/tsg_sa/WG2_Arch/TSGS2_141e_Electronic/Docs/S2-2007528.zip) | LS OUT | Approval | [DRAFT] LS on Stage 2 work on interface between MSF-C and MSF-U | Nokia, Nokia Shanghai Bell | * LS to SA4, the content is based on solution #33.
 | Overlaps with S2-2007691, merge? |
| 8.9 | [**S2-2007691**](https://www.3gpp.org/ftp/tsg_sa/WG2_Arch/TSGS2_141e_Electronic/Docs/S2-2007691.zip) | LS OUT | Approval | [DRAFT} LS on Service Layer aspects for 5G MBS | Qualcomm Technologies Int | * Notify SA4 the progress of SA2 and ask SA4 to consider the functionalities of MSF-C/MSF-U (or MBSF/MBSU)
 | Overlaps with S2-2007528, merge? |
| 8.9 | **[S2-2007659](https://www.3gpp.org/ftp/tsg_sa/WG2_Arch/TSGS2_141e_Electronic/Docs/S2-2007659.zip%22%20%5Ct%20%22_blank)** | LS OUT | Approval | [DRAFT} LS on Feedback on conclusions for QoS support in MBS | Qualcomm Incorporated | * Ask about 5QI issue and Delay critical GBR QoS flow.
 | Progress separately. Check conclusion for solution #4 together. |
| 8.9 | [**S2-2006817**](https://www.3gpp.org/ftp/tsg_sa/WG2_Arch/TSGS2_141e_Electronic/Docs/S2-2006817.zip) | LS In | Action | LS from TSG RAN: Reply LS on RAN impact of FS\_5MBS Study | TSG RAN (RP-202086) | * Broadcast will be supported in Rel-17
 | Could be noted, since in this meeting already solutions submitted?  |
| 8.9 | [**S2-2006828**](https://www.3gpp.org/ftp/tsg_sa/WG2_Arch/TSGS2_141e_Electronic/Docs/S2-2006828.zip) | LS In | Action | LS from TSG SA: Reply LS on RAN impact of FS\_5MBS Study | TSG SA (SP-200884) | * Broadcast will be supported in Rel-17
 | Could be noted, since in this meeting already solutions submitted? |

**Service layer Network functions**: S2-2007528 and S2-2007691 are asking SA4 on this issue. S2-2007528 is based on Sol#33 while S2-2007691 is addressing a more general issue (i.e., the functionalities of MSF-C/MSF-U). S2-2007691 could be used as a baseline (since it is more general) and companies could discuss whether some additions could be added further or not.

**QoS Support**: It seems that there is no overlap on S2-2007659, we could process this one separately. Note that some documents in this meeting are discussing the GBR/non-GBR issues (See KI#4, could discuss with them together).

**Incoming LS from RAN/SA plenary**: Could be simply noted, since in this meeting some broadcast solutions are submitted based on these LSs (See solutions for KI#1, section 1.2.1).

**Proposal**:

A. Discuss which paper will be used as a basis for the LS to SA4 on Service layer issues, i.e., S2-2007528 or S2-2007691. S2-2007691 is suggested as the baseline document.

B. Keep S2-2007659 separately.

C. Note S2-2006817 and S2-2006828.

### 1.1.3 Others

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| 8.9 | **[S2-2007262](https://www.3gpp.org/ftp/tsg_sa/WG2_Arch/TSGS2_141e_Electronic/Docs/S2-2007262.zip%22%20%5Ct%20%22_blank)** | P-CR | Approval | 23.757: Traffic delivery methods. | Ericsson | Clarify the shared + PTP/PTM delivery. | Progress separately.  |
| 8.9 | **[S2-2007281](https://www.3gpp.org/ftp/tsg_sa/WG2_Arch/TSGS2_141e_Electronic/Docs/S2-2007281.zip%22%20%5Ct%20%22_blank)** | P-CR | Approval | 23.757: Clarification on individual delivery definition. | Samsung | Associate unicast and multicast session.  | Progress separately.  |

Seems there is no overlap for these papers.

**Proposal**:

Keep papers separate

## 1.2 KI#1

### 1.2.1 Broadcast papers

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| 8.9 | **[S2-2007263](https://www.3gpp.org/ftp/tsg_sa/WG2_Arch/TSGS2_141e_Electronic/Docs/S2-2007263.zip%22%20%5Ct%20%22_blank)** | P-CR | Approval | 23.757: KI#1: new Sol: Support broadcast service. | Ericsson, AT&T |  | Progress separately. |
| 8.9 | **[S2-2007688](https://www.3gpp.org/ftp/tsg_sa/WG2_Arch/TSGS2_141e_Electronic/Docs/S2-2007688.zip%22%20%5Ct%20%22_blank)** | P-CR | Approval | 23.757: New Solution to Key Issue #1 for Broadcast Service. | Qualcomm Incorporated |  | Progress separately. |
| 8.9 | **[S2-2007329](https://www.3gpp.org/ftp/tsg_sa/WG2_Arch/TSGS2_141e_Electronic/Docs/S2-2007329.zip%22%20%5Ct%20%22_blank)** | P-CR | Approval | 23.757: KI #1: Update of solution #5 on broadcast. | CBN, CATT, Huawei, HiSilicon | Update solution #5 | Merge into S2-2007557? |
| 8.9 | **[S2-2007557](https://www.3gpp.org/ftp/tsg_sa/WG2_Arch/TSGS2_141e_Electronic/Docs/S2-2007557.zip%22%20%5Ct%20%22_blank)** | P-CR | Approval | 23.757: KI#1 Update of solution #5. | Nokia, Nokia Shanghai Bell | Update solution #5 | Merge with S2-2007329? |

**New Solutions**: S2-2007263 and S2-2007688 are the new solutions for address the broadcast solution. We could keep papers separate.

**Update of Solution #5**: S2-2007329 and S2-2007557 are trying to update Solution #5, S2-2007557 could be used as a baseline and companies could discuss whether some additions could be added further or not.

**Proposal**:

A. Keep S2-2007263 and S2-2007688 separate.

B. Discuss which paper will be used to update solution #5, i.e., S2-2007329 or S2-2007557. S2-2007557 could be used as a baseline.

### 1.2.2 Evaluation Papers

Quite a few documents submitted for evaluation in this meeting. S2-2006832 and S2-2006986 were submitted/discussed in the conference call.

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| 8.9 | **[S2-2007266](https://www.3gpp.org/ftp/tsg_sa/WG2_Arch/TSGS2_141e_Electronic/Docs/S2-2007266.zip%22%20%5Ct%20%22_blank)** | P-CR | Approval | 23.757: KI#1: Sol#3: Evaluation and Conclusion on IGMP JOIN . | Ericsson, Samsung, LG Electronics | * Discussion on UP based join.
 | Progress separately. |
| 8.9 | **[S2-2007267](https://www.3gpp.org/ftp/tsg_sa/WG2_Arch/TSGS2_141e_Electronic/Docs/S2-2007267.zip%22%20%5Ct%20%22_blank)** | P-CR | Approval | 23.757: KI#1: Sol#3 Evaluation on PCC rule handling and multicast group configuration. | Ericsson | * Discussion on PCC rule handling of solution #3.
 | Progress separately. |
| 8.9 | **[S2-2007774](https://www.3gpp.org/ftp/tsg_sa/WG2_Arch/TSGS2_141e_Electronic/Docs/S2-2007774.zip%22%20%5Ct%20%22_blank)** | P-CR | Approval | 23.757: KI#1 Evaluation. | Nokia, Nokia Shanghai Bell | * Evaluate the solutions for KI#1 for different aspects.
 | Consider a merge? |
| 8.9 | **[S2-2007514](https://www.3gpp.org/ftp/tsg_sa/WG2_Arch/TSGS2_141e_Electronic/Docs/S2-2007514.zip%22%20%5Ct%20%22_blank)** | P-CR | Approval | 23.757: KI#1, proposal on evaluation for KI#1. | ZTE | * Categorize solutions of KI#1.
 | Consider a merge? |
| 8.9 | **[S2-2006832](https://www.3gpp.org/ftp/tsg_sa/WG2_Arch/TSGS2_141e_Electronic/Docs/S2-2006832.zip%22%20%5Ct%20%22_blank)** | P-CR | Approval | 23.757: KI #1 evaluation. | CATT | * Categorize solutions of KI#1.
 | Consider a merge? |
| 8.9 | **[S2-2006891](https://www.3gpp.org/ftp/tsg_sa/WG2_Arch/TSGS2_141e_Electronic/Docs/S2-2006891.zip%22%20%5Ct%20%22_blank)** | P-CR | Approval | 23.757: Evaluation on K#1 - session operation. | Vivo | * Categorize solutions of KI#1 on session operation.
 | Consider a merge? |
| 8.9 | **[S2-2006892](https://www.3gpp.org/ftp/tsg_sa/WG2_Arch/TSGS2_141e_Electronic/Docs/S2-2006892.zip%22%20%5Ct%20%22_blank)** | P-CR | Approval | 23.757: Evaluation on K#1 - service continuity. | Vivo | * Categorize solutions of KI#1 on MBS context transfer.
 | Consider a merge? |
| 8.9 | **[S2-2006986](https://www.3gpp.org/ftp/tsg_sa/WG2_Arch/TSGS2_141e_Electronic/Docs/S2-2006986.zip%22%20%5Ct%20%22_blank)** | P-CR | Approval | 23.757: KI #1: Evaluation. | Huawei, HiSilicon | * Categorize solutions of KI#1.
 | Consider a merge? |
| 8.9 | **[S2-2006972](https://www.3gpp.org/ftp/tsg_sa/WG2_Arch/TSGS2_141e_Electronic/Docs/S2-2006972.zip%22%20%5Ct%20%22_blank)** | P-CR | Approval | 23.757: KI#1: Evaluation and conclusion on MBS Session deactivation and activation. | OPPO | * Discussion candidate solutions on session activation/deactivation.
 | For the evaluation part, consider a merge?Note that the conclusion is also included in this paper.  |

**On Solution #3 evaluation**: S2-2007266 and S2-2007267 are evaluating some aspects of solution #3. We could keep these papers separate.

**On the other evaluation papers**: Although some papers are aiming at some specific points, in general the evaluations overlap since the others are from a more general point of view. There is no obvious paper to use as basis but likely only one paper can be agreed. S2-2007774 or S2-2006832 with including some additional points could be considered.

**Proposal**:

A. Keep S2-2007266 and S2-2007267 discussing separately.

B. On the others, discuss and agree one paper to be used as basis.

### 1.2.3 Conclusion Papers

Similar as evaluation papers, a bunch of conclusion papers for KI#1 submitted in this meeting (i.e., 10 papers), and among these papers, S2-2007672 was submitted and discussed during the conference call.

As a possible way forward, we can separate the discussions based on the conclusion proposal as follows:

* Whether the 5GC Individual MBS traffic delivery is optional or not (S2-2007264);
* What format will be used to represent MBS Session/Service/Group ID (S2-2007265, S2-2007672, S2-2007513);
* Session Start/Stop or Activation/Deactivation (S2-2006972, S2-2007566);
* AF-based MBS Session management (S2-2006991);
* General conclusions, i.e., S2-2006987, S2-2006896, S2-2007515, S2-2007672.

And as a result, we can separate conclusions per topic.

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| 8.9 | **[S2-2007264](https://www.3gpp.org/ftp/tsg_sa/WG2_Arch/TSGS2_141e_Electronic/Docs/S2-2007264.zip%22%20%5Ct%20%22_blank)** | P-CR | Approval | 23.757: KI#1: Interim Conclusion: 5GC Individual MBS traffic delivery method. | Ericsson | See below.  | Progress separately. |
| 8.9 | **[S2-2007265](https://www.3gpp.org/ftp/tsg_sa/WG2_Arch/TSGS2_141e_Electronic/Docs/S2-2007265.zip%22%20%5Ct%20%22_blank)** | P-CR | Approval | 23.757: KI#1: Interim conclusion on MBS Session/Service Id. | Ericsson | See below.  | Discuss together with S2-2007265, S2-2007672, S2-2007513. Merge? |
| 8.9 | **[S2-2006987](https://www.3gpp.org/ftp/tsg_sa/WG2_Arch/TSGS2_141e_Electronic/Docs/S2-2006987.zip%22%20%5Ct%20%22_blank)** | P-CR | Approval | 23.757: KI #1: Conclusion. | Huawei, HiSilicon | See below.  | Consider a merge (S2-2006987, S2-2006896, S2-2007515, S2-20076)? |
| 8.9 | **[S2-2006896](https://www.3gpp.org/ftp/tsg_sa/WG2_Arch/TSGS2_141e_Electronic/Docs/S2-2006896.zip%22%20%5Ct%20%22_blank)** | P-CR | Approval | 23.757: Conclusion on KI#1 - MBS session management. | Vivo | See below.  | Consider a merge (S2-2006987, S2-2006896, S2-2007515, S2-20076)? |
| 8.9 | [**S2-2006972**](https://www.3gpp.org/ftp/tsg_sa/WG2_Arch/TSGS2_141e_Electronic/Docs/S2-2006972.zip) | P-CR | Approval | 23.757: KI#1: Evaluation and conclusion on MBS Session deactivation and activation. | OPPO | See below.  | Discuss together with S2-2006972, S2-2007566. Merge? |
| 8.9 | **[S2-2006991](https://www.3gpp.org/ftp/tsg_sa/WG2_Arch/TSGS2_141e_Electronic/Docs/S2-2006991.zip%22%20%5Ct%20%22_blank)** | P-CR | Approval | 23.757: KI #1 interim conclusion for MBS session management triggered by AF. | China Mobile | See below.  | Progress separately, or could be merged into the baseline way forward of the general solution.  |
| 8.9 | **[S2-2007513](https://www.3gpp.org/ftp/tsg_sa/WG2_Arch/TSGS2_141e_Electronic/Docs/S2-2007513.zip%22%20%5Ct%20%22_blank)** | P-CR | Approval | 23.757: KI#1, conclusion on the MBS session ID. | ZTE | See below.  | Discuss together with S2-2007265, S2-2007672, S2-2007513. Merge? |
| 8.9 | **[S2-2007515](https://www.3gpp.org/ftp/tsg_sa/WG2_Arch/TSGS2_141e_Electronic/Docs/S2-2007515.zip%22%20%5Ct%20%22_blank)** | P-CR | Approval | 23.757: KI#1, discussion and interim conclusion on the several aspect of key issue #1. | ZTE | See below.  | Consider a merge (S2-2006987, S2-2006896, S2-2007515, S2-20076)? |
| 8.9 | **[S2-2007566](https://www.3gpp.org/ftp/tsg_sa/WG2_Arch/TSGS2_141e_Electronic/Docs/S2-2007566.zip%22%20%5Ct%20%22_blank)** | P-CR | Approval | 23.757: KI #1: Update the conclusion of MBS session management to include MBS Session Stop. | Tencent | See below.  | Discuss together with S2-2006972, S2-2007566. Merge? |
| 8.9 | **[S2-2007672](https://www.3gpp.org/ftp/tsg_sa/WG2_Arch/TSGS2_141e_Electronic/Docs/S2-2007672.zip%22%20%5Ct%20%22_blank)** | P-CR | Approval | 23.757: Conclusions for Key Issue #1 on Multicast session model. | Qualcomm Incorporated | See below.  | * On the aspect of MBS Session/Service/Group ID, discuss together with S2-2007265, S2-2007672, S2-2007513.
* Consider a merge (S2-2006987, S2-2006896, S2-2007515, S2-20076)? Use this as the baseline?
 |

**5GC Individual MBS traffic delivery**: Seems no overlap paper with S2-2007264.

**MBS Session/Service/Group ID**: S2-2007265, S2-2007672, S2-2007513 are the candidate conclusion papers on this issue. However, the proposals are not the same: S2-2007265 suggests to use TMGI as the ID, S2-2007672 considers a “combo” information to denote the ID, and S2-2007513 tries to include TMGI/DNN+IP multicast both. A further discussion in the meeting is needed.

**Session Start/Stop or Activation/Deactivation**: S2-2006972 and S2-2007566 are dealing with this. One paper needs to be selected as the baseline (e.g., S2-2006972).

**AF-based MBS Session management** (S2-2006991): it could be progressed separately, or could be merged into the baseline way forward of the general solution.

**General conclusions**: S2-2006987, S2-2006896, S2-2007515, S2-2007672 are for the general conclusion. There is no obvious paper to use as basis but likely only one paper can be agreed. During the conference call, it was suggested by the rapporteur that S2-2007672 with including some additional points could be used as the baseline (also mentioned in S2-2006987).

**Proposal**:

1. Discuss S2-2007264 separately on individual delivery.
2. Discuss S2-2006991 separately on AF-based MBS Session management.

C. Take a decision on MBS Session/Service/Group ID (S2-2007265, S2-2007672, S2-2007513).

D. Discuss which paper to use for concluding KI#1 among S2-2006987, S2-2006896, S2-2007515, and S2-2007672. It is suggested to use S2-2007672 as the basis.

### 1.2.4 Solution Update

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| 8.9 | **[S2-2007282](https://www.3gpp.org/ftp/tsg_sa/WG2_Arch/TSGS2_141e_Electronic/Docs/S2-2007282.zip%22%20%5Ct%20%22_blank)** | P-CR | Approval | 23.757: Solution 2 EN clarifications. | Ericsson |  |  |
| 8.9 | **[S2-2006900](https://www.3gpp.org/ftp/tsg_sa/WG2_Arch/TSGS2_141e_Electronic/Docs/S2-2006900.zip%22%20%5Ct%20%22_blank)** | P-CR | Approval | 23.757: KI#1, Sol#4: Modification for clarification. | Vivo |  |  |
| 8.9 | **[S2-2006901](https://www.3gpp.org/ftp/tsg_sa/WG2_Arch/TSGS2_141e_Electronic/Docs/S2-2006901.zip%22%20%5Ct%20%22_blank)** | P-CR | Approval | 23.757: KI#1, Sol#4: Clarification on N9 tunnel operation. | Vivo |  |  |
| 8.9 | **[S2-2007530](https://www.3gpp.org/ftp/tsg_sa/WG2_Arch/TSGS2_141e_Electronic/Docs/S2-2007530.zip%22%20%5Ct%20%22_blank)** | P-CR | Approval | 23.757: KI#1, Sol#6: adding leave and release procedures. | Samsung |  |  |
| 8.9 | **[S2-2007531](https://www.3gpp.org/ftp/tsg_sa/WG2_Arch/TSGS2_141e_Electronic/Docs/S2-2007531.zip%22%20%5Ct%20%22_blank)** | P-CR | Approval | 23.757: KI#1, Sol#9: adding leave and release procedures. | Samsung |  |  |
| 8.9 | **[S2-2007516](https://www.3gpp.org/ftp/tsg_sa/WG2_Arch/TSGS2_141e_Electronic/Docs/S2-2007516.zip%22%20%5Ct%20%22_blank)** | P-CR | Approval | 23.757: KI#1, sol#10 update to clarify the ENs. | ZTE |  |  |
| 8.9 | **[S2-2007567](https://www.3gpp.org/ftp/tsg_sa/WG2_Arch/TSGS2_141e_Electronic/Docs/S2-2007567.zip%22%20%5Ct%20%22_blank)** | P-CR | Approval | 23.757: KI #1, Sol #14: Update MBS Session Management procedure. | Tencent |  |  |
| 8.9 | **[S2-2006902](https://www.3gpp.org/ftp/tsg_sa/WG2_Arch/TSGS2_141e_Electronic/Docs/S2-2006902.zip%22%20%5Ct%20%22_blank)** | P-CR | Approval | 23.757: KI#1, Sol#15: Update handover when target gNB does not transmit data for a MB session. | Vivo |  |  |
| 8.9 | **[S2-2006971](https://www.3gpp.org/ftp/tsg_sa/WG2_Arch/TSGS2_141e_Electronic/Docs/S2-2006971.zip%22%20%5Ct%20%22_blank)** | P-CR | Approval | 23.757: KI#1: Update to solution #13. | OPPO |  |  |
| 8.9 | **[S2-2006985](https://www.3gpp.org/ftp/tsg_sa/WG2_Arch/TSGS2_141e_Electronic/Docs/S2-2006985.zip%22%20%5Ct%20%22_blank)** | P-CR | Approval | 23.757: KI#1 Update of Solution #3. | Huawei, HiSilicon |  | Note that some aspects overlap with S2-2007196, more discussion is needed.  |
| 8.9 | **[S2-2007197](https://www.3gpp.org/ftp/tsg_sa/WG2_Arch/TSGS2_141e_Electronic/Docs/S2-2007197.zip%22%20%5Ct%20%22_blank)** | P-CR | Approval | 23.757: KI #1, Update to Interim Requirements on UP join/leave and Application Awareness. | Tencent |  |  |
| 8.9 | **[S2-2007287](https://www.3gpp.org/ftp/tsg_sa/WG2_Arch/TSGS2_141e_Electronic/Docs/S2-2007287.zip%22%20%5Ct%20%22_blank)** | P-CR | Approval | 23.757: KI#1 Update of Solution #33 to address editor´s note. | Nokia, Nokia Shanghai Bell |  |  |

Seems there is no obvious overlap for the papers.

**Proposal**:

Keep papers separate.

## 1.3 KI#2

### 1.3.1 Solution Update

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| 8.9 | **[S2-2007195](https://www.3gpp.org/ftp/tsg_sa/WG2_Arch/TSGS2_141e_Electronic/Docs/S2-2007195.zip%22%20%5Ct%20%22_blank)** | P-CR | Approval | 23.757: KI#2 Update of Solution #1. | Nokia, Nokia Shanghai Bell | Resubmission, consider SC is an enhanced level.  |  |
| 8.9 | **[S2-2007285](https://www.3gpp.org/ftp/tsg_sa/WG2_Arch/TSGS2_141e_Electronic/Docs/S2-2007285.zip%22%20%5Ct%20%22_blank)** | P-CR | Approval | 23.757: KI#2, Sol#1: Completion of multicast service levels. | Samsung | SC belongs to the basic level. |  |

These two papers are changing the same solution but with different proposals (i.e., S2-2007195 considers SC is an enhanced level while S2-2007285 puts such aspect to basic level).

**Proposal**:

Discuss and agree one paper to be used as basis.

## 1.4 KI#3

### 1.4.1 Solution Update

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| 8.9 | **[S2-2007196](https://www.3gpp.org/ftp/tsg_sa/WG2_Arch/TSGS2_141e_Electronic/Docs/S2-2007196.zip%22%20%5Ct%20%22_blank)** | P-CR | Approval | 23.757: KI#3 Update of Solution #3. | Nokia, Nokia Shanghai Bell |  | May have some overlaps with S2-2006985 |
| 8.9 | **[S2-2007268](https://www.3gpp.org/ftp/tsg_sa/WG2_Arch/TSGS2_141e_Electronic/Docs/S2-2007268.zip%22%20%5Ct%20%22_blank)** | P-CR | Approval | 23.757: KI#3: Evaluation and Conclusion on authorization. | Ericsson |  |  |

Seems there is no overlap for the solution update/evaluation papers. But note that S2-2007196 may have some overlaps with S2-2006985 in 1.2.4.

**Proposal**:

Keep papers separate.

## 1.5 KI#4

### 1.5.1 Solution Update

S2-2006847 and S2-2007283 can be discussed separately.

S2-2007564 and S2-2007284 are addressing the issue of supporting non-GBR and they need to be checked together.

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| 8.9 | **[S2-2006847](https://www.3gpp.org/ftp/tsg_sa/WG2_Arch/TSGS2_141e_Electronic/Docs/S2-2006847.zip%22%20%5Ct%20%22_blank)** | P-CR | Approval | 23.757: KI #4, Sol #17: Update to resolve ENs. | CATT |  |  |
| 8.9 | **[S2-2007283](https://www.3gpp.org/ftp/tsg_sa/WG2_Arch/TSGS2_141e_Electronic/Docs/S2-2007283.zip%22%20%5Ct%20%22_blank)** | P-CR | Approval | 23.757: KI#4, Solution 2 QoS update. | Ericsson |  |  |
| 8.9 | **[S2-2007564](https://www.3gpp.org/ftp/tsg_sa/WG2_Arch/TSGS2_141e_Electronic/Docs/S2-2007564.zip%22%20%5Ct%20%22_blank)** | P-CR | Approval | 23.757: KI #4, Sol #36: Remove the EN for the QoS Control for MBS Session . | Tencent |  | Discuss together with S2-2007564 and S2-2007284. |
| 8.9 | **[S2-2007284](https://www.3gpp.org/ftp/tsg_sa/WG2_Arch/TSGS2_141e_Electronic/Docs/S2-2007284.zip%22%20%5Ct%20%22_blank)** | P-CR | Approval | 23.757: KI#4, Non-GBR for 5MBS. | Ericsson | Also with evaluation and conclusion. | Discuss together with S2-2007564 and S2-2007284. |

**Proposal**:

1. Discuss S2-2006847 separately.
2. Discuss S2-2007283 separately.
3. Discuss S2-2007564 and S2-2007284 together and agree one paper to be used as the basis.

### 1.5.2 Evaluation

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| 8.9 | **[S2-2006833](https://www.3gpp.org/ftp/tsg_sa/WG2_Arch/TSGS2_141e_Electronic/Docs/S2-2006833.zip%22%20%5Ct%20%22_blank)** | P-CR | Approval | 23.757: KI #4 evaluation. | CATT |  | Merge? |
| 8.9 | **[S2-2006893](https://www.3gpp.org/ftp/tsg_sa/WG2_Arch/TSGS2_141e_Electronic/Docs/S2-2006893.zip%22%20%5Ct%20%22_blank)** | P-CR | Approval | 23.757: Evaluation on K#4 - QoS. | Vivo |  | Merge? |

Papers S2-2006833 and S2-2006893 have overlapping evaluation, and should be merged. S2-2006833 was once submitted and discussed in the conference call.

**Proposal**:

Discuss which paper will be used to be as the basis, i.e., S2-2006833 and S2-2006893. S2-2006833 can be used as the basis.

### 1.5.3 Conclusion

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| 8.9 | **[S2-2006834](https://www.3gpp.org/ftp/tsg_sa/WG2_Arch/TSGS2_141e_Electronic/Docs/S2-2006834.zip%22%20%5Ct%20%22_blank)** | P-CR | Approval | 23.757: KI #4 interim conclusion. | CATT |  | Merge into S2-2007637? |
| 8.9 | **[S2-2006897](https://www.3gpp.org/ftp/tsg_sa/WG2_Arch/TSGS2_141e_Electronic/Docs/S2-2006897.zip%22%20%5Ct%20%22_blank)** | P-CR | Approval | 23.757: Conclusion on K#4 - QoS level support. | Vivo |  | Merge into S2-2007637? |
| 8.9 | **[S2-2007565](https://www.3gpp.org/ftp/tsg_sa/WG2_Arch/TSGS2_141e_Electronic/Docs/S2-2007565.zip%22%20%5Ct%20%22_blank)** | P-CR | Approval | 23.757: KI #4: Conclusion for MBS QoS Model and QoS Control. | Tencent |  | Merge into S2-2007637? |
| 8.9 | **[S2-2007637](https://www.3gpp.org/ftp/tsg_sa/WG2_Arch/TSGS2_141e_Electronic/Docs/S2-2007637.zip%22%20%5Ct%20%22_blank)** | P-CR | Approval | 23.757: KI#4: Conclusions of QoS support for MBS . | Qualcomm Incorporated |  | Use this document as the basis? |

The following papers are more or less overlapping: S2-2006834, S2-2006897, S2-2007565 and S2-2007637, and they could be merged. S2-2006834 and S2-2007637 were discussed during the conference call.

It is proposed to use S2-2007637 as basis.

But at the same time, on supporting non-GBR issue, S2-2007284 and S2-2007659 should be discuss with the candidate conclusions together.

**Proposal**:

A. Use S2-2007637 as basis and merge content from S2-2006834, S2-2006897, S2-2007565 (and possibly S2-2007284 based on companies’ views).

## 1.6 KI#6

### 1.6.1 Solution Update

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| 8.9 | **[S2-2007450](https://www.3gpp.org/ftp/tsg_sa/WG2_Arch/TSGS2_141e_Electronic/Docs/S2-2007450.zip%22%20%5Ct%20%22_blank)** | P-CR | Approval | 23.757: KI #6, Sol#7, Update to clarify signaling procedures. | Tencent | Clarifying the app-level issue.  |  |
| 8.9 | **[S2-2006980](https://www.3gpp.org/ftp/tsg_sa/WG2_Arch/TSGS2_141e_Electronic/Docs/S2-2006980.zip%22%20%5Ct%20%22_blank)** | P-CR | Approval | 23.757: KI#6, Sol#20: Add SMF providing the latest multicast service area info to UE. | LG Electronics | Add the description to be more compatible with solutions of KI#1.  |  |
| 8.9 | **[S2-2007238](https://www.3gpp.org/ftp/tsg_sa/WG2_Arch/TSGS2_141e_Electronic/Docs/S2-2007238.zip%22%20%5Ct%20%22_blank)** | P-CR | Approval | 23.757: KI#6 Update of Solution #21. | Nokia, Nokia Shanghai Bell | Update solution #21 based on solution #27. |  |
| 8.9 | **[S2-2006982](https://www.3gpp.org/ftp/tsg_sa/WG2_Arch/TSGS2_141e_Electronic/Docs/S2-2006982.zip%22%20%5Ct%20%22_blank)** | P-CR | Approval | 23.757: KI#6, Sol#38: Clarify target service area. | LG Electronics |  | Merge? |
| 8.9 | **[S2-2007529](https://www.3gpp.org/ftp/tsg_sa/WG2_Arch/TSGS2_141e_Electronic/Docs/S2-2007529.zip%22%20%5Ct%20%22_blank)** | P-CR | Approval | 23.757: KI#6, Sol#38: Solve EN. | Samsung |  | Merge? |

Seems there is no overlap for the solution update/evaluation papers. But note that there is a potential merge between S2-2006982 and S2-2007529.

**Proposal**:

Keep papers separate, consider a potential merge of S2-2006982 and S2-2007529.

### 1.6.2 Evaluation

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| 8.9 | [**S2-2006894**](https://www.3gpp.org/ftp/tsg_sa/WG2_Arch/TSGS2_141e_Electronic/Docs/S2-2006894.zip) | P-CR | Approval | 23.757: Evaluation on K#6 - Local MBS service. | Vivo | Analyse the solutions in a feature-based manner.  | Merge? |
| 8.9 | [**S2-2006989**](https://www.3gpp.org/ftp/tsg_sa/WG2_Arch/TSGS2_141e_Electronic/Docs/S2-2006989.zip) | P-CR | Approval | 23.757: KI #6: Evaluation. | Huawei, HiSilicon | Categorize solutions of KI#6 into two groups, and suggest to document both alternatives. | Merge? |

Papers S2-2006894 and S2-2006989 have overlapping evaluation using two different approaches.

S2-2006894 includes some limited description of solution #40 that can be merged into paper to be used as basis.

Note that the evaluation and conclusion of KI#6 might be dependent on the chosen solution of KI#1.

**Proposal**:

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

### 1.6.3 Conclusion

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| 8.9 | [**S2-2006990**](https://www.3gpp.org/ftp/tsg_sa/WG2_Arch/TSGS2_141e_Electronic/Docs/S2-2006990.zip) | P-CR | Approval | 23.757: KI #6: Conclusion. | Huawei, HiSilicon |  | Progress separately. |
| 8.9 | [**S2-2006983**](https://www.3gpp.org/ftp/tsg_sa/WG2_Arch/TSGS2_141e_Electronic/Docs/S2-2006983.zip) | P-CR | Approval | 23.757: KI#6: proposal for conclusion. | LG Electronics |  | Progress separately. |
| 8.9 | [**S2-2006898**](https://www.3gpp.org/ftp/tsg_sa/WG2_Arch/TSGS2_141e_Electronic/Docs/S2-2006898.zip) | P-CR | Approval | 23.757: Conclusion on K#6 - Local MBS service. | Vivo |  | Progress separately. |

Papers S2-2006990, S2-2006983 and S2-2006898 are all deal with the conclusion, but it seems that the proposals are not overlapping much since they are talking about the solutions from different aspects.

S2-2006990 suggests to document both location-dependent and location-limited case as mentioned in the document. There is a need to decide if we will agree both scenarios for the normative work.

S2-2006983 mainly considers to support putting CN functions closer to the RAN (i.e., location-limited case as mentioned in S2-2006990).

S2-2006898 proposes to support NAS-based provisioning to the UEs on local MBS info, and to enforce restriction on MBS data transmission.

**Proposal**:

Discuss and decide whether to support both scenarios for local MBS as mentioned in S2-2006990;

Discuss whether the content of S2-2006983 and S2-2006898 should be considered as the conclusion proposal.

## 1.7 KI#7

### 1.7.1 Solution Update

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| 8.9 | **[S2-2006837](https://www.3gpp.org/ftp/tsg_sa/WG2_Arch/TSGS2_141e_Electronic/Docs/S2-2006837.zip%22%20%5Ct%20%22_blank)** | P-CR | Approval | 23.757: KI #7, Sol #18: Update to resolve ENs. | CATT |  | Merge? |
| 8.9 | **[S2-2007199](https://www.3gpp.org/ftp/tsg_sa/WG2_Arch/TSGS2_141e_Electronic/Docs/S2-2007199.zip%22%20%5Ct%20%22_blank)** | P-CR | Approval | 23.757: KI #7, Sol #18: Clarification on MBS assistance information for delivery mode switching and update to remove ENs. | Tencent |  | Merge? |
| 8.9 | **[S2-2007591](https://www.3gpp.org/ftp/tsg_sa/WG2_Arch/TSGS2_141e_Electronic/Docs/S2-2007591.zip%22%20%5Ct%20%22_blank)** | P-CR | Approval | 23.757: KI#7 update the sol#25 to keep align with sol#10 and clarify the EN. | ZTE |  | Progress separately. |
| 8.9 | **[S2-2007592](https://www.3gpp.org/ftp/tsg_sa/WG2_Arch/TSGS2_141e_Electronic/Docs/S2-2007592.zip%22%20%5Ct%20%22_blank)** | P-CR | Approval | 23.757: KI#7 update the sol#26 to keep align with sol#10. | ZTE |  | Progress separately. |
| 8.9 | **[S2-2007466](https://www.3gpp.org/ftp/tsg_sa/WG2_Arch/TSGS2_141e_Electronic/Docs/S2-2007466.zip%22%20%5Ct%20%22_blank)** | P-CR | Approval | 23.757: KI#7: Update to Solution#27 . | Huawei, HiSilicon |  | Progress separately. |
| 8.9 | **[S2-2006903](https://www.3gpp.org/ftp/tsg_sa/WG2_Arch/TSGS2_141e_Electronic/Docs/S2-2006903.zip%22%20%5Ct%20%22_blank)** | P-CR | Approval | 23.757: KI#7, Sol#29: Update handover from legacy to enhanced RAN node. | Vivo |  | Progress separately. |
| 8.9 | **[S2-2007198](https://www.3gpp.org/ftp/tsg_sa/WG2_Arch/TSGS2_141e_Electronic/Docs/S2-2007198.zip%22%20%5Ct%20%22_blank)** | P-CR | Approval | 23.757: KI #7, Sol #29: Update to clarify MBS switching procedures. | Tencent |  | Progress separately. |
| 8.9 | **[S2-2007194](https://www.3gpp.org/ftp/tsg_sa/WG2_Arch/TSGS2_141e_Electronic/Docs/S2-2007194.zip%22%20%5Ct%20%22_blank)** | P-CR | Approval | 23.757: KI#7, Sol#24: Multiple updates to solution. | Samsung |  | Progress separately. |

S2-2006837 and S2-2007199 are both updating solution #18, and they are overlapping more or less. Proposals in S2-2006837 is suggested as the baseline.

Note S2-2006903 and S2-2007198 are both updating solution #29 but it seems that the proposal are not overlapping. Could deal with these two documents separately.

**Proposal**:

Discuss and decide whether to use S2-2006837 or S2-2007199 as basis to update Solution #18.

Other papers could be progressed separately.

### 1.7.2 Evaluation

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| 8.9 | **[S2-2006835](https://www.3gpp.org/ftp/tsg_sa/WG2_Arch/TSGS2_141e_Electronic/Docs/S2-2006835.zip%22%20%5Ct%20%22_blank)** | P-CR | Approval | 23.757: KI #7 evaluation. | CATT |  | Merge? |
| 8.9 | **[S2-2006895](https://www.3gpp.org/ftp/tsg_sa/WG2_Arch/TSGS2_141e_Electronic/Docs/S2-2006895.zip%22%20%5Ct%20%22_blank)** | P-CR | Approval | 23.757: Evaluation on K#7 - delivery method switching. | Vivo |  | Merge? |
| 8.9 | **[S2-2007465](https://www.3gpp.org/ftp/tsg_sa/WG2_Arch/TSGS2_141e_Electronic/Docs/S2-2007465.zip%22%20%5Ct%20%22_blank)** | P-CR | Approval | 23.757: KI#7: Evaluation and Conclusion of KI#7. | Huawei, HiSilicon | Also include conclusion. | Merge? |
| 8.9 | **[S2-2006973](https://www.3gpp.org/ftp/tsg_sa/WG2_Arch/TSGS2_141e_Electronic/Docs/S2-2006973.zip%22%20%5Ct%20%22_blank)** | P-CR | Approval | 23.757: KI#7: Evaluation and conclusion of MBS Handover. | OPPO | Also include conclusion. | Merge? |

On KI#7 some concerns raised during the CC that for the overlapping part with KI#1 (i.e., on the handover-triggered switching), whether the evaluation should belong to KI#1 or we could describe it in the associating evaluations for KI#7. Note that some evaluation/conclusion proposals for KI#1 also include the service continuity/individual delivery aspects (e.g., S2-2006892, S2-2007264).

S2-2006835 was submitted to CC and discussed during the CC.

**Proposal**:

Discuss and decide which document will be used as the basis for evaluation (S2-2006835, S2-2006895, S2-2007465 or S2-2006973).

### 1.7.3 Conclusion

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| 8.9 | **[S2-2006836](https://www.3gpp.org/ftp/tsg_sa/WG2_Arch/TSGS2_141e_Electronic/Docs/S2-2006836.zip%22%20%5Ct%20%22_blank)** | P-CR | Approval | 23.757: KI #7 interim conclusion. | CATT |  |  |
| 8.9 | **[S2-2006899](https://www.3gpp.org/ftp/tsg_sa/WG2_Arch/TSGS2_141e_Electronic/Docs/S2-2006899.zip%22%20%5Ct%20%22_blank)** | P-CR | Approval | 23.757: Conclusion on K#7 - delivery method switching. | Vivo |  |  |
| 8.9 | **[S2-2007593](https://www.3gpp.org/ftp/tsg_sa/WG2_Arch/TSGS2_141e_Electronic/Docs/S2-2007593.zip%22%20%5Ct%20%22_blank)** | P-CR | Approval | 23.757: KI#7 proposal on the conclusion. | ZTE |  |  |
| 8.9 | [**S2-2007465**](https://www.3gpp.org/ftp/tsg_sa/WG2_Arch/TSGS2_141e_Electronic/Docs/S2-2007465.zip) | P-CR | Approval | 23.757: KI#7: Evaluation and Conclusion of KI#7. | Huawei, HiSilicon | Also include evaluation. |  |
| 8.9 | [**S2-2006973**](https://www.3gpp.org/ftp/tsg_sa/WG2_Arch/TSGS2_141e_Electronic/Docs/S2-2006973.zip) | P-CR | Approval | 23.757: KI#7: Evaluation and conclusion of MBS Handover. | OPPO | Also include evaluation. |  |

S2-2007593 concludes KI#7 from three aspects: RAN-based (PTP/PTM), 5GC-based (individual/shared) and HO-based (between MBS-capable RAN and non-MBS-capable RAN).

S2-2007465 analyses the solutions toward the inter-RAN mobility caused switch and non-inter-RAN mobility caused switch, and propose to conclude some principles for both cases.

S2-2006899 proposes to require RAN support PTP/PTM delivery method switching and 5GC support shared/individual switching when UE moves from a MBS-capable RAN and non-MBS-capable RAN.

It seems that no paper is obvious to be used as basis.

**Proposal**:

Discuss and agree one document used as the baseline for conclusion.

## 1.8 KI#9

### 1.8.1 New Solution

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| 8.9 | **[S2-2007269](https://www.3gpp.org/ftp/tsg_sa/WG2_Arch/TSGS2_141e_Electronic/Docs/S2-2007269.zip%22%20%5Ct%20%22_blank)** | P-CR | Approval | 23.757: KI#9: New solution. | Ericsson |  | Progress separately. |
| 8.9 | **[S2-2007532](https://www.3gpp.org/ftp/tsg_sa/WG2_Arch/TSGS2_141e_Electronic/Docs/S2-2007532.zip%22%20%5Ct%20%22_blank)** | P-CR | Approval | 23.757: KI#9, new solution: MBS service continuity between NR/5GC and E-UTRAN/EPC . | Samsung |  | Progress separately. |
| 8.9 | **[S2-2007594](https://www.3gpp.org/ftp/tsg_sa/WG2_Arch/TSGS2_141e_Electronic/Docs/S2-2007594.zip%22%20%5Ct%20%22_blank)** | P-CR | Approval | 23.757: KI#9, New Sol: service continuity with eMBMS. | ZTE |  | Progress separately. |

**Proposal**:

Seems no overlap, we could handle the papers separately.

### 1.8.2 Solution Update

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| 8.9 | **[S2-2007467](https://www.3gpp.org/ftp/tsg_sa/WG2_Arch/TSGS2_141e_Electronic/Docs/S2-2007467.zip%22%20%5Ct%20%22_blank)** | P-CR | Approval | 23.757: KI#9: Update date to Solution #41 to resolve the Editor's note. | Huawei, Hisilicon |  | Progress separately. |
| 8.9 | **[S2-2007685](https://www.3gpp.org/ftp/tsg_sa/WG2_Arch/TSGS2_141e_Electronic/Docs/S2-2007685.zip%22%20%5Ct%20%22_blank)** | P-CR | Approval | 23.757: KI#9: Sol. 43 update and conclusions. | Qualcomm Incorporated | Also include the conclusion | Progress separately. |

**Proposal**:

Seems no overlap, we could handle the papers separately. For the conclusion part of S2-2007685, it is necessary to consider the proposal of S2-2007595 together.

### 1.8.3 Conclusion

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| 8.9 | **[S2-2007595](https://www.3gpp.org/ftp/tsg_sa/WG2_Arch/TSGS2_141e_Electronic/Docs/S2-2007595.zip%22%20%5Ct%20%22_blank)** | P-CR | Approval | 23.757: KI#9 proposal on the interim conclusion. | ZTE |  |  |
| 8.9 | [**S2-2007685**](https://www.3gpp.org/ftp/tsg_sa/WG2_Arch/TSGS2_141e_Electronic/Docs/S2-2007685.zip) | P-CR | Approval | 23.757: KI#9: Sol. 43 update and conclusions. | Qualcomm Incorporated |  |  |

It seems that no paper is obvious to be used as basis. Perhaps the conclusion could be considered in the next meeting, since in this meeting some new solutions are still permitted to be submitted.

**Proposal**:

Discuss and decide the way forward of the conclusion proposal.

# 2. Proposal

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