**Notes of SA2#140E\_CC#4**

# Opened: 01 September 2020, 13.00 UTC = 15.00 CEST

~ 200 people attended the conference call

**Attendees**: The following companies were recorded as present (list not exhaustive or verified)

Alibaba

Apple

AT&T

Broadcom

BT

CATT

Charter

China Mobile

China Telecom

Cisco

Convida Wireless

DENSO

Deutsche Telekom

Ericsson

ETRI

Futurewei

Huawei

Intel

Interdigital

KDDI

Lenovo

LGE

MediaTek

NEC

Nokia

NTT DOCOMO

OPPO

Orange

Perspecta Labs

Philips

Rogers Wireless

Qualcomm

Samsung

Sharp

Spreadtrum

Tencent

T-Mobile USA

Vivo

Vodafone

Volkswagon

Xiaomi

ZTE

Puneet Jain (SA WG2 Chairman) chaired the conference call. Notes were taken by Maurice Pope (MCC).

NOTE: Meeting notes are not exhaustive and may not contain all the comments made during the conference call.

Opening statements by SA WG2 Chairman: The flexibility on allowing changes after the final revision deadline has been abused during this meeting and no revisions available after the deadlines will be considered unless the paper is related to KI evaluation, KI conclusion, SID/WID update, or LS Out.

# Agenda:

Items marked "For CC#4 were scheduled to be discussed in this CC.

**Documents folder:** <https://www.3gpp.org/FTP/tsg_sa/WG2_Arch/TSGS2_140e_Electronic/INBOX/CCs/SA2%23140E_CC%234/>

TD S2‑2004792 (LS IN) LS from BBF: Uniqueness of FN-RG PEI for Lawful Interception purposes (BBF)

**Discussion and conclusion:**

This LS was noted.

TD S2‑2004795 (LS IN) LS from CT WG1: Reply LS on the applicability of 5G NAS protocol for 5G-RG and FN-RG (LIAISE-397) (CT WG1)

**Discussion and conclusion:**

This LS was noted.

TD S2‑2006779 (LS IN) LS from SA WG5: LS on New function for Network Slice PA and Management Charging (SA WG5)

**Discussion and conclusion:**

This LS was missing from Chairman’s notes and was postponed.

TD S2‑2005919 (LS OUT) LS on Use Cases for providing IMS services to SNPN (Ericsson)

**Discussion and conclusion:**

r03 was provided after the deadline in the CC#4 folder. This was agreed and revised in TD S2‑2006029, which was approved.

TD S2‑2005841 (LS OUT) [DRAFT] LS on extending PLMN selection to include SNPN selection for UEs with a PLMN subscription) Deutsche Telekom AG)

**Discussion and conclusion:**

r16 was provided in the CC#4 folder. Huawei suggested replacing 'check whether' with 'clarify whether'. This was agreed as r17 and this was agreed and revised in TD S2‑2006030, which was approved.

TD S2‑2005719 (P-CR) 23.700-07: KI #1, Solution #11, address Editor notes. (Futurewei, Philips)

**Discussion and conclusion:**

r01 was provided. This was agreed and revised in TD S2‑2006031, which was approved.

TD S2‑2005042 (P-CR) 23.700-07: KI #1, Solution #11, address Editor notes. (Futurewei, Philips)

**Discussion and conclusion:**

r01 was proposed as a basis for the revision. This was agreed and the revision in TD S2‑2005936 should be based on this and remained approved.

TD S2‑2005582 (P-CR) 23.700-07: KI#2: Evaluation and conclusion.) Ericsson)

**Discussion and conclusion:**

An update to modify editor's notes was provided in r17 in the CC#4 folder. This was agreed and revised in TD S2‑2006032, which was approved.

TD S2‑2005943 (P-CR) 23.700-07: ENPN KI #1 & K2 discussion and proposals for evaluations and conclusions.) Deutsche Telekom)

**Discussion and conclusion:**

An update to S2-200 5837r13 was proposed by Intel. Huawei could not agree to this revision and the document was postponed and TD S2‑2005943 was withdrawn.

TD S2‑2005962 (P-CR) 23.700-07: KI #4, Evaluation and interim conclusion - User plane solutions. (Intel)

**Discussion and conclusion:**

S2-2005101r41 was the agreed proposal for confirmation. This was agreed.

TD S2‑2005918 (LS OUT) [DRAFT] LS on checking security concern of option 2 & 3 for Solution 22 in TR 23.748. (China Mobile, CATT)

**Discussion and conclusion:**

This had been noted, but there was a request to consider r03 at this CC. This was reviewed and agreed (without an attachment) and revised in TD S2‑2006033, which was approved.

TD S2‑2005969 (P-CR) 23.748: KI#1, Sol#16: Updates to add impact.) Vivo, OPPO, Xiaomi)

**Discussion and conclusion:**

S2-2005249r03 was proposed for confirmation at this CC. Convida Wireless objected to this version. It was decided to take r05 with an additional editor’s note as a basis for TD S2‑2005969, which was then approved.

TD S2‑2005366 (P-CR) 23.748: KI#1: Evaluation of solutions and conclusions.) Huawei, Hisilicon)

**Discussion and conclusion:**

Compromise in r28 uploaded in drafts folder after revision deadline For CC#4. r30 was provided in the CC#4 folder. China Mobile commented that they would like to postpone this for further discussion. Huawei suggested that this could be agreed now and further discussed at the next meeting. China Mobile objected to having this as an interim agreement. This was then postponed.

TD S2‑2005977 (P-CR) 23.748: KI #1, Evaluation: Partial Evaluation for Discovery of Edge Application Server. (Convida Wireless LLC, AT&T, Samsung)

**Discussion and conclusion:**

S2-2004860r09 was confirmed as the agreed version. TD S2‑2005977 was approved.

TD S2‑2005989 (P-CR) 23.748: KI #3, Sol #47: Update to remove ENs. (Tencent)

**Discussion and conclusion:**

S2- 2005225r05 was proposed for confirmation at this CC. Tencent asked to remove the note text about using RAN provided information. This was agreed and will be used in the revision in TD S2‑2005989, which was approved.

TD S2‑2005556 (P-CR) 23.748: KI#3, Sol#45 update to remove EN.) OPPO)

**Discussion and conclusion:**

It was not clear from comments whether r00/r01 to be approved. The original document TD S2‑2005556 was acceptable and was approved.

TD S2‑2005991 (P-CR) 23.748: Solution for the KI#3: Edge NEF based Network Information Provisioning. (Alibaba Group)

**Discussion and conclusion:**

S2- 2005586r06 was proposed, for confirmation in this CC. Nokia suggested some corrections to step 7 and an editorial error, using r05 as a basis. This was agreed and will be used in the revision in TD S2‑2005991, which was approved.

TD S2‑2004836 (P-CR) 23.748: KI#5,Sol#50, solution update and evaluation.) ZTE, CATT, Apple)

**Discussion and conclusion:**

r13 was provided in DRAFTS folder after revision deadline. Nokia provided r15 in the CC#4 folder. This was agreed and revised in TD S2‑2006034, which was approved.

TD S2‑2005734 (P-CR) 23.700-20: KI#1, Sol#1: Updates to Solution #1 for Uplink Time Synchronization. (Nokia, Nokia Shanghai Bell, Qualcomm Incorporated, NTT Docomo)

**Discussion and conclusion:**

Proposal to agree r13 + (removal of some text). r12 with some text changes was agreed and revised in TD S2‑2006035, which was approved.

TD S2‑2005743 (P-CR) 23.700-20: KI #3B: Evaluation and conclusion. (Nokia, Nokia Shanghai Bell)

**Discussion and conclusion:**

r09 was provided after the revision deadline. r10 was provided in the CC#4 Folder. This was agreed and revised in TD S2‑2006036, which was approved. BMC detail may be further specified at future meetings.

TD S2‑2005689 (LS OUT) [DRAFT] LS on System support for Multi-USIM devices (Intel)

**Discussion and conclusion:**

Proposal to approve r37 (No rev seems agreeable; r39 has most support so far). Intel provided r40 in the CC#4 folder. This was agreed (with some editorial corrections to be made) and revised in TD S2‑2006037, which was approved.

TD S2‑2005695 (LS OUT) [DRAFT] LS on System support for Multi-USIM devices (Intel)

**Discussion and conclusion:**

r11 had been agreed but Intel suggested r12 making editorial corrections. It was proposed to do editorial fixes and add reference to TD#6018 on top of r11. This was agreed and TD S2‑2006018 will be based on this and remained approved.

TD S2‑2005487 (P-CR) 23.761: KI#1 Interim Evaluations.) Huawei, HiSilicon)

**Discussion and conclusion:**

r18 was agreed. This was revised in TD S2‑2006038, which was approved.

TD S2‑2005685 (P-CR) 23.761: KI #1, Proposed way forward. (Intel)

**Discussion and conclusion:**

r19 still received objections from Nokia and Huawei. This was postponed.

TD S2‑2005741 (P-CR) KI#3B: Sol#7: Updates on Solution #7 for Exposure of Time Synchronization. (Nokia, Nokia Shanghai Bell, NTT Docomo, Qualcomm Incorporated)

**Discussion and conclusion:**

This had been noted, but Nokia asked to consider the available revisions at the deadline. r06 was the latest available by the deadline. Nokia suggested adding an editor's note and updating step 0. r06 with these changes was agreed. This was revised in TD S2‑2006039, which was approved.

TD S2‑2005423 (TS or TR COVER) Cover Sheet for TR 23.700-91 for Information to TSG SA (Huawei Technologies France)

**Discussion and conclusion:**

r01 was provided after the deadline. This was agreed. This was revised in TD S2‑2006040, which was approved.

TD S2‑2005795 (P-CR) 23.700-91: KI #8, KI#13, New Solution: Triggers for data collection from the UEs. (Nokia, Nokia Shanghai Bell)

**Discussion and conclusion:**

r02 with removal of notes 1 and 2, adding and editor's note was agreed instead of r03 and was agreed. This was revised in TD S2‑2006041, which was approved.

TD S2‑2005111 (P-CR) 23.700-91: KI#9, Dispersion analytics as Expected UE Behavior. (Ericsson)

**Discussion and conclusion:**

Ericsson suggested adding 2 editor's notes. This was revised in TD S2‑2006042, which was approved.

TD S2‑2005377 (P-CR) 23.700-91: KI #11, New Sol: Solution for increasing efficiency of data collection. (China Mobile)

**Discussion and conclusion:**

r03 was provided after the deadline. It was suggested to make an update based on r02 removing the DCCF functionality and replacing it was an Editor's note. NTT DOCOMO suggested agreeing the original version. Ericsson commented that there needs to be an editor's note that DCCF support for this solution needs to be evolved and is FFS. There were further issues raised and this was postponed.

TD S2‑2004929 (WID NEW) KI#12\_Solution Evaluation and Interim Conclusion for NWDAF-assisted RFSP policy. (China Telecom)

**Discussion and conclusion:**

r03 without the evaluation part was agreed. The evaluation part may be contributed to future meetings. There were issues raised and this was postponed.

TD S2‑2005345 (P-CR) 23.700-91: KI #13, New Sol: AF influencing NF triggers for interactions with NWDAFs. (Huawei, HiSilicon)

**Discussion and conclusion:**

Proposed to agree r04 + 3 new ENs. This was agreed. This was revised in TD S2‑2006043, which was approved.

TD S2‑2005438 (P-CR) 23.700-91: KI #13, New Sol: Trigger configuration for data collection and analytics. (CATT)

**Discussion and conclusion:**

It was proposed to use r02 for the revision with some ENs. This was agreed. This was revised in TD S2‑2006028, which was approved.

TD S2‑2005379 (P-CR) 23.700-91: KI#14, Sol#46: Removing FFS on how to determine App ID for new PFD. (China Mobile)

**Discussion and conclusion:**

This was postponed.

TD S2‑2005286 (P-CR) KI #1, New Sol: steering mode with location attribute. (Charter Communications)

**Discussion and conclusion:**

This had been noted, but Charter asked to consider adding an Editor's note. Deutsche Telekom had concerns with this and suggested postponing it. This remained noted.

TD S2‑2005415 (P-CR) 23.757: [DRAFT] LS on RAN impact of FS\_5MBS Study. ([Huawei to be] SA WG2)

**Discussion and conclusion:**

r37 was the latest proposal. This was agreed. This was revised in TD S2‑2006044, which was approved.

TD S2‑2005409 (P-CR) 23.757: New architecture for MBS.) Huawei, HiSilicon, Nokia, Nokia Shanghai Bell, Qualcomm Incorporated, CATT)

**Discussion and conclusion:**

Huawei suggested a show of hands on this. This was not possible in the CC. Huawei asked which companies objected to r15. Ericsson objects to all revisions including converged architecture. Nokia suggested removing the last column of the table from r17 in order to have an agreeable proposal. Huawei had concerns with r17. This was postponed.

TD S2‑2004968 (P-CR) 23.757: KI#1: Update to Sol#2. (Ericsson)

**Discussion and conclusion:**

r06 with an added editor's note and replacing AMF with MBS-SMF was proposed. This was agreed. This was revised in TD S2‑2006045, which was approved.

TD S2‑2005413 (P-CR) 23.757: KI#1: Principles for categorization of Solutions for KI1.) Huawei (Rapporteur))

**Discussion and conclusion:**

Huawei suggested r18. Ericsson had issues with additional information internal to the system being added and preferred r17. Juniper had issues with r17. Nokia suggested adding an editor's note for the proposal in r18, to r17. This was agreed. This was revised, using r17 with an added editor's note, merging TD S2‑2005273, in TD S2‑2006046, which was approved.

TD S2‑2005273 (P-CR) 23.757: Conclusion for 5MBS KI#1. (vivo)

**Discussion and conclusion:**

This was merged into TD S2‑2006046.

TD S2‑2005211 (P-CR) 23.700-40: KI#2, Solution 6.6 updates with considering EPS/5GS interworking. (China Mobile,)

**Discussion and conclusion:**

ZTE commented that they agreed with DOCOMO that this was not really in the scope of the study, but sympathised with operators who would like to add it. This should be considered for a SID update. This was then postponed.

TD S2‑2005337 (P-CR) 23.761: KI#1, KI#2: new solution: Operator controlled UE behaviour.) Nokia, Nokia Shanghai Bell, AT&T)

**Discussion and conclusion:**

Huawei and Samsung objected to this. Nokia was recommended to bring a document to the next meeting to propose a show of hands to resolve this issue. This was then postponed.

TD S2‑2004859 (P-CR) 23.700-40: KI#7: solution 29 update.) Nokia, Nokia Shanghai Bell, Ericsson)

**Discussion and conclusion:**

This was approved.

TD S2‑2005178 (P-CR) 23.700-40: KI#7, New Sol: Steering the UE towards the 5G-AN during PDU session Establishment.) ZTE, T-Mobile USA)

**Discussion and conclusion:**

r05 was the latest proposal. Nokia commented that it was not clear that this KI addresses the requirements. It was suggested to add an editor's note. There was no consensus on this and it was postponed.

TD S2‑2005800 (P-CR) 23.700-40: KI #7, New Sol: Compatibility of S-NSSAIs operating frequency bands with UE Radio Capabilities.) Qualcomm Incorporated, T-Mobile USA)

**Discussion and conclusion:**

There was no consensus on this and it was postponed.

TD S2‑2004825 (P-CR) 23.700-40: Network Slice Quota Exemptions. (Perspecta Labs, AT&T)

**Discussion and conclusion:**

It was suggested to take r03 and add a note. This was agreed. This was revised in TD S2‑2006047, which was approved.

TD S2‑2005171 (P-CR) KI#3, Sol #24: Update to End-to-End QoS support for L3 UE-to-Network Relay. (Samsung)

**Discussion and conclusion:**

It was proposed to use the original document with 2 added editor's notes. This was agreed. This was revised in TD S2‑2006048, which was approved.

TD S2‑2005201 (P-CR) KI#5, New Sol: Provisioning policy based path selection between PC5 and Uu. (CATT)

**Discussion and conclusion:**

r01 was agreed. This was revised in TD S2‑2006049, which was approved.

TD S2‑2005405 (P-CR) 23.776: KI #1, New Solution: V2X Layer assisted DRX over PC5. (Huawei, HiSilicon)

**Discussion and conclusion:**

It was proposed to remove the contentious text and add an editor's note (FFS) to the original document. This was agreed. This was revised in TD S2‑2006050, which was approved.

# 5. AoB

TD S2‑2005478 (P-CR) KI#6, New Sol: Simultaneous use of network slices via Configured NSSAI. (Huawei, HiSilicon)

**Discussion and conclusion:**

Nokia commented that they had objected to the revision r01, but it was still revised to S2-2006521 and approved. It was commented that Nokia objection was for 5478r00 and 5478r01 was provided later. Their objection to r01 is late objection. TD S2‑2006521 remained approved.

TD S2‑2005873 (TS or TR COVER) Cover page of TR 23.757 for information to TSG SA. (FS\_5MBS) (Huawei (Rapporteur))

**Discussion and conclusion:**

Revision was not provided in time. This was noted. The rapporteur was asked to submit this directly to TSG SA.

**WI Status Reports:**

Feedback for these documents should be provided over the DISCUSSIONS list. **Revisions numbers may be requested if needed from the SA WG2 Chairman.**

TD S2‑2005867 (WI STATUS REPORT) FS\_IIoT Status report (Nokia (Rapporteur))

TD S2‑2005868 (WI STATUS REPORT) FS\_eNS\_Ph2 Status Report (ZTE Wistron Telecom AB (Rapporteur))

TD S2‑2005869 (WI STATUS REPORT) FS\_ID\_UAS\_SA2 Status Report (Qualcomm (Rapporteur))

TD S2‑2005870 (WI STATUS REPORT) FS\_eNA\_Ph2 Status Report (Huawei (Rapporteur))

TD S2‑2005871 (WI STATUS REPORT) FS\_ATSSS\_Ph2 Status Report (ZTE (Rapporteur))

TD S2‑2005843 (WI STATUS REPORT) FS\_MUSIM Status Report (Intel (rapporteur))

TD S2‑2004931 (WI STATUS REPORT) FS\_eV2XARC\_Ph2 status report (LG Electronics)

TD S2‑2005204 (WI STATUS REPORT) FS\_5G\_ProSe Status Report (CATT. OPPO)

TD S2‑2005369 (WI STATUS REPORT) Report of FS\_enh\_EC status (Huawei)

TD S2‑2005557 (WI STATUS REPORT) FS\_5MBS status report (Huawei)

TD S2‑2005580 (WI STATUS REPORT) FS\_eNPN Status Report (Ericsson (rapporteur))

TD S2‑2005356 (REPORT) FS\_eNA\_ph2 Status Report (Huawei, China Mobile)

# Closed: 01 September 2020, 15.35 UTC = 17.35 CEST