**IPR call reminder:**

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| ***"I draw your attention to your obligations under the 3GPP Partner Organizations' IPR policies. Every Individual Member organization is obliged to declare to the Partner Organization or Organizations of which it is a member any IPR owned by the Individual Member or any other organization which is or is likely to become essential to the work of 3GPP.******Delegates are asked to take note that they are thereby invited:**** ***to investigate whether their organization or any other organization owns IPRs which are, or are likely to become Essential in respect of the work of 3GPP.***
* ***to notify their respective Organizational Partners of all potential IPRs, e.g., for ETSI, by means of the IPR Information Statement and the Licensing declaration forms".***
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**Antitrust policy Reminder:**

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| ***"I also draw your attention to the fact that 3GPP activities are subject to all applicable antitrust and competition laws and that compliance with said laws is therefore required of any participant of this TSG/WG meeting including the Chairman and Vice Chairman. In case of question I recommend that you contact your legal counsel.******The leadership shall conduct the present meeting with impartiality and in the interests of 3GPP.******Furthermore, I would like to remind you that timely submission of work items in advance of TSG/WG meetings is important to allow for full and fair consideration of such matters."*** |

List for Meeting: **All Sessions**
**Temporary Documents List - Ordered by Agenda Item**

| **AI**  | **TD#**  | **Type**  | **Doc For**  | **Subject**  | **Source**  | **Rel**  | **Work Item**  | **Comments**  | **Result**  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 19.4 | - | - | - | Feasibility Study on 5GS Enhancement for Energy Efficiency and Energy Saving (FS\_EnergySys) | - | - | Wanqiang | Docs:=86 | **-**  |
|  | - | - | - | Unhandled new solutions (Resubmissions) | - | - |  |  |  |
|  | - | - | - | KI#3: Enhancements for network energy saving and efficiency | - | - |  | Docs:=9  |  |
| 19.4 | **S2-2404066** | P-CR | Approval | 23.700-66: KI#3, New Sol: Enhancement for AF influence on traffic routing with Energy related analytics. | KDDI, TOYOTA MOTOR CORPORATION | Rel-19 | FS\_EnergySys | Revision of S2-2402216To be handled as baseline and merge S2-2404066 |  |
| 19.4 | **S2-2403932** | P-CR | Approval | 23.700-66: KI#3 new solution of DNAI selection based on network energy related information | CATT | Rel-19 | FS\_EnergySys | Revision of S2-2400858To be merged to S2-2404066 |  |
| 19.4 | **S2-2404005** | P-CR | Approval | 23.700-66: New Solution: Network energy saving with UPF relocation and release . | China Mobile | Rel-19 | FS\_EnergySys | Revision of S2-2402235To be handled |  |
| 19.4 | **S2-2404238** | P-CR | Approval | 23.700-66: KI#3 New Solution on NF energy state impact on event exposure. | Nokia | Rel-19 | FS\_EnergySys | Revision of S2-2402212To be handled |  |
| 19.4 | **S2-2404928** | P-CR | Approval | 23.700-66: KI#3: New Solution on session control for network energy saving. | Samsung | Rel-19 | FS\_EnergySys | Revision of S2-2402737 from SA WG2#161To be handled |  |
| 19.4 | **S2-2404233** | P-CR | Approval | 23.700-66: KI#3 energy saving by sharing of resources across PLMNs. | Nokia | Rel-19 | FS\_EnergySys | Revision of S2-2402695 |  |
| 19.4 | **S2-2404236** | P-CR | Approval | 23.700-66: KI#3 New Solution on UE energy category analytics | Nokia | Rel-19 | FS\_EnergySys | Revision of S2-2402211 |  |
| 19.4 | **S2-2404246** | P-CR | Approval | 23.700-66: KI#3: new Sol: Energy efficiency and Energy saving in edge computing. | vivo | Rel-19 | FS\_EnergySys | Revision of S2-2402116 |  |
| 19.4 | **S2-2404790** | P-CR | Approval | 23.700-66: KI#3, New solution: Dynamic addition or removal of AMF instance due to energy saving | Huawei, HiSilicon, Deutsche Telekom | Rel-19 | FS\_EnergySys | Revision of S2-2402295 from SA WG2#161 |  |
|  | - | - | - | KI#2: Subscription and policy control  | - | - |  | Docs:=6  |  |
| 19.4 | **S2-2404239** | P-CR | Approval | 23.700-66: KI#2\_New sol\_New Sol UE invloved energy saving operation | vivo | Rel-19 | FS\_EnergySys | Revision of S2-2402150To be handled |  |
| 19.4 | **S2-2404234** | P-CR | Approval | 23.700-66: KI#2 New Solution on UE Preferred Energy Setting | Nokia | Rel-19 | FS\_EnergySys | Revision of S2-2402710To be merged to S2-2404239? |  |
| 19.4 | **S2-2404798** | P-CR | Approval | 23.700-66: KI#2, New Sol: Control of UE current energy consumption | Huawei, HiSilicon | Rel-19 | FS\_EnergySys | Revision of S2-2402294 from SA WG2#161To be handled |  |
| 19.4 | **S2-2404512** | P-CR | Approval | 23.700-66: KI#2, New Solution option to Solution #15 on PCF based policy control for UE Energy Consumption | Lenovo | Rel-19 | FS\_EnergySys | Revision of S2-2402284To be handled |  |
| 19.4 | **S2-2403931** | P-CR | Approval | 23.700-66: KI#2 new solution of policy control for multiple accesses based on network energy related information | CATT | Rel-19 | FS\_EnergySys | Revision of S2-2402236 |  |
| 19.4 | **S2-2404799** | P-CR | Approval | 23.700-66: KI#2, New Sol: UE energy credit control and enforcement | Huawei, HiSilicon | Rel-19 | FS\_EnergySys | Revision of S2-2402295 from SA WG2#161 |  |
|  | - | - | - | KI#1:Network energy related information exposure | - | - |  | Docs:=2  |  |
| 19.4 | **S2-2404486** | P-CR | Approval | 23.700-66: KI#1 and 2: New Solution: BSS based energy credit solutions | Ericsson | Rel-19 | FS\_EnergySys | Revision of S2-2402320To be handled |  |
| 19.4 | **S2-2404793** | P-CR | Approval | 23.700-66: KPI parameter definition for Energy Saving and Energy Efficiency | Huawei, HiSilicon | Rel-19 | FS\_EnergySys | Revision of S2-2402289 from SA WG2#161 |  |
|  |  |  |  | Updates for existing solutions |  |  |  |  |  |
|  | - | - | - | KI#3: Enhancements for network energy saving and efficiency | - | - |  | Docs:=17  |  |
| 19.4 | [**S2-2404905**](file:///D%3A%5C1.%20Work%5C5G%20Network%5C2024%5CSA2%5CTSGS2_162_Changsha_2024-04%5CDocs%5CS2-2404905.zip) | P-CR | Approval | 23.700-66: Key Issue #3, Solution 29 Update for Per Service Operation Energy Consumption | InterDigital Belgium. LLC | Rel-19 | FS\_EnergySys | To be handled as baseline and merge S2-2403941, S2-2404242, and S2-2404591 |  |
| 19.4 | **S2-2403941** | P-CR | Approval | 23.700-66: KI#3, Sol#29: Solution updates. | Samsung, SK Telecom | Rel-19 | FS\_EnergySys | To be merged to S2-2404905 |  |
| 19.4 | **S2-2404242** | P-CR | Approval | 23.700-66: Update sol#29: NF selection based on energy related information | vivo | Rel-19 | FS\_EnergySys | To be merged to S2-2404905 |  |
| 19.4 | **S2-2404591** | P-CR | Approval | 23.700-66: Updates on Solution# 29: NF selection based on energy related information | Motorola Mobile Com Technology | Rel-19 | FS\_EnergySys | To be merged to S2-2404905 |  |
| 19.4 | **S2-2404235** | P-CR | Approval | 23.700-66: KI#3, Sol#12: Update for clarification of inputs and outputs | NTT DOCOMO . | Rel-19 | FS\_EnergySys | Revision of S2-2402534To be handled as baseline and merge S2-2403969 and S2-2404509 |  |
| 19.4 | **S2-2403969** | P-CR | Approval | 23.700-66: KI#3, Sol#12 Update to introduce new output analytics for a group of entities | Samsung | Rel-19 | FS\_EnergySys | Revision of S2-2402854To be merged to S2-2404235 |  |
| 19.4 | **S2-2404509** | P-CR | Approval | 23.700-66: Updates on NWDAF-based Energy Analytics (Sol#12) | Motorola Mobile Com Technology | Rel-19 | FS\_EnergySys | To be merged to S2-2404235 |  |
| 19.4 | **S2-2403933** | P-CR | Approval | 23.700-66: KI#3 update solution #15 Enhancements to existing 5GS procedures for energy saving | CATT | Rel-19 | FS\_EnergySys | Revision of S2-2402238To be handled as baseline and merge S2-2404354 |  |
| 19.4 | **S2-2403943** | P-CR | Approval | 23.700-66: KI#3, Sol#24: Solution updates. | Samsung, SK Telecom | Rel-19 | FS\_EnergySys | To be merged to S2-2404488 (KI#2) |  |
| 19.4 | **S2-2404731** | P-CR | Approval | 23.700-66: KI#3: Updates to Solution #14 UE energy usage control. | NEC | Rel-19 | FS\_EnergySys | Revision of S2-2402333 from SA2#161To be handled |  |
| 19.4 | [**S2-2404908**](file:///D%3A%5C1.%20Work%5C5G%20Network%5C2024%5CSA2%5CTSGS2_162_Changsha_2024-04%5CDocs%5CS2-2404908.zip) | P-CR | Approval | 23.700-66: Key Issue #3, Solution 30 Update | InterDigital Belgium. LLC | Rel-19 | FS\_EnergySys | S2-2403940 and 2404796 |  |
| 19.4 | **S2-2403940** | P-CR | Approval | 23.700-66: KI#3, Sol#30: Solution updates. | Samsung, SK Telecom | Rel-19 | FS\_EnergySys |  |  |
| 19.4 | **S2-2404796** | P-CR | Approval | 23.700-66: KI#3, Sol #30 update: Network optimization for energy saving per S-NSSAI | Huawei, HiSilicon | Rel-19 | FS\_EnergySys |  |  |
| 19.4 | **S2-2404067** | P-CR | Approval | 23.700-66: KI#3, Sol#13: Updates to add Energy-aware UP path adjustment with NWDAF analytics | KDDI, TOYOTA MOTOR CORPORATION | Rel-19 | FS\_EnergySys | 4035 |  |
| 19.4 | **S2-2404035** | P-CR | Approval | 23.700-66: KI #3, Sol #13: Update to remove ENs and clarification | NTT DOCOMO | Rel-19 | FS\_EnergySys | Revision of S2-24021824067 |  |
| 19.4 | **S2-2404052** | P-CR | Approval | 23.700-66: Clarification related to Energy consumption Analytics. (solution#4) | China Mobile | Rel-19 | FS\_EnergySys | Revision of S2-2402814 |  |
| 19.4 | **S2-2404916** | P-CR | Approval | 23.700-66: Key Issue #3, Update to Solution #5 to Address Editor s Notes | InterDigital Belgium. LLC | Rel-19 | FS\_EnergySys |  |  |
|  | - | - | - | KI#2: Subscription and policy control | - | - |  | Docs:=20  |  |
| 19.4 | **S2-2404353** | P-CR | Approval | 23.700-66: KI#2, Sol#7: Solution updates to resolve EN. | LG Electronics | Rel-19 | FS\_EnergySys | Revision of S2-2402372To be handled as baseline and merge S2-2404007 and S2-2404805 |  |
| 19.4 | **S2-2404007** | P-CR | Approval | 23.700-66: Update on Solution #7: Policy control for network energy saving. | China Mobile | Rel-19 | FS\_EnergySys | Revision of S2-2401929To be merged to S2-2404353 |  |
| 19.4 | **S2-2404805** | P-CR | Approval | 23.700-66: Update of Solution #7: Policy control for network energy saving | TOYOTA MOTOR CORPORATION | Rel-19 | FS\_EnergySys | To be merged to S2-2404353 |  |
| 19.4 | **S2-2404488** | P-CR | Approval | 23.700-66: KI#2, Sol#24: Update to capture Network KPI impacts | Ericsson | Rel-19 | FS\_EnergySys | To be handled as baseline and merge S2-2404230 and S2-2403943 (KI#3) |  |
| 19.4 | **S2-2404230** | P-CR | Approval | 23.700-66: KI#2 Solution 24 update | Nokia | Rel-19 | FS\_EnergySys | To be merged to S2-2404488 |  |
| 19.4 | **S2-2404424** | P-CR | Approval | 23.700-66: Resolve ENs in solution 6.11 | MediaTek Inc. | Rel-19 | FS\_EnergySys | To be handled |  |
| 19.4 | **S2-2404446** | P-CR | Approval | 23.700-66: Solution#10 update for KI#2 | Intel | Rel-19 | FS\_EnergySys | To be handled |  |
| 19.4 | **S2-2404354** | P-CR | Approval | 23.700-66: KI#2&3, Sol#15: Solution updates. | LG Electronics | Rel-19 | FS\_EnergySys | Revision of S2-2402373To be merged to S2-2403933 (KI#3) |  |
| 19.4 | **S2-2404902** | P-CR | Approval | 23.700-66: Key Issue #2, Solution 27 Update to address an EN | InterDigital Belgium. LLC | Rel-19 | FS\_EnergySys |  |  |
| 19.4 | **S2-2403972** | P-CR | Approval | 23.700-66: KI#2, Sol#27 Update to Introduce Negotiation between AF and PCF on Energy-Related Criteria | Samsung | Rel-19 | FS\_EnergySys |  |  |
| 19.4 | **S2-2404240** | P-CR | Approval | 23.700-66: Update sol#9 on credit limit control | vivo | Rel-19 | FS\_EnergySys |  |  |
| 19.4 | **S2-2404508** | P-CR | Approval | 23.700-66: KI#2, Sol#9 Update to resolve ENs | Samsung | Rel-19 | FS\_EnergySys |  |  |
| 19.4 | **S2-2404792** | P-CR | Approval | 23.700-66: KI#2, Update of Solution #22: Removal of EN | Huawei, HiSilicon | Rel-19 | FS\_EnergySys |  |  |
| 19.4 | **S2-2404804** | P-CR | Approval | 23.700-66: Update of Solution #22: Energy related UE subscription information | Toyota Motor Corporation, KDDI, CMCC | Rel-19 | FS\_EnergySys |  |  |
| 19.4 | **S2-2404034** | P-CR | Approval | 23.700-66: KI#2, Sol#26: Update to include warning notification procedure | NTT DOCOMO | Rel-19 | FS\_EnergySys |  |  |
| 19.4 | **S2-2404039** | P-CR | Approval | 23.700-66: Solution#25: Enhancements to include PDTQ | OPPO Beijing | Rel-19 | FS\_EnergySys |  |  |
| 19.4 | **S2-2404241** | P-CR | Approval | 23.700-66: Update sol#21: Credit limit control based on UE's subscription | vivo | Rel-19 | FS\_EnergySys |  |  |
| 19.4 | **S2-2404388** | P-CR | Approval | 23.700-66: KI#2: update the Solution 23 | ZTE | Rel-19 | FS\_EnergySys |  |  |
| 19.4 | **S2-2404425** | P-CR | Approval | 23.700-66: Resolve ENs in solution 6.28 | MediaTek Inc. | Rel-19 | FS\_EnergySys |  |  |
| 19.4 | **S2-2404730** | P-CR | Approval | 23.700-66: KI#2: Updates to Solution #8 Energy efficiency subscriptions and control. | NEC | Rel-19 | FS\_EnergySys | Revision of S2-2402332 from SA2#161 |  |
|  | - | - | - | KI#1:Network energy related information exposure | - | - |  | Docs:=9  |  |
| 19.4 | **S2-2404385** | P-CR | Approval | 23.700-66: KI#1, update the Solution 1 | ZTE | Rel-19 | FS\_EnergySys | Revision of S2-2402581To be handled as baseline and merge S2-2404006 and S2-2404797 |  |
| 19.4 | **S2-2404006** | P-CR | Approval | 23.700-66: Update on Solution #1: Energy related information collection and exposure. | China Mobile | Rel-19 | FS\_EnergySys | Revision of S2-2401928To be merged to S2-2404385 |  |
| 19.4 | **S2-2404797** | P-CR | Approval | 23.700-66: KI#1, Sol#1 update: Energy related information collection and exposure | Huawei, HiSilicon | Rel-19 | FS\_EnergySys | To be merged to S2-2404385 |  |
| 19.4 | **S2-2404306** | P-CR | Approval | 23.700-66: KI#1, Sol#16 update to resolve ENs | OPPO, NTT DOCOMO | Rel-19 | FS\_EnergySys | To be handled |  |
| 19.4 | **S2-2404284** | P-CR | Approval | 23.700-66: KI#1&3, Sol#3: Solution updates to resolve ENs | Tencent, Tencent Cloud | Rel-19 | FS\_EnergySys | To be handled |  |
| 19.4 | **S2-2404231** | P-CR | Approval | 23.700-66: KI#1: Solution 20 update | Nokia | Rel-19 | FS\_EnergySys |  |  |
| 19.4 | **S2-2404352** | P-CR | Approval | 23.700-66: KI#1, Sol#2: Solution updates to resolve ENs. | LG Electronics | Rel-19 | FS\_EnergySys | Revision of S2-2402371 |  |
| 19.4 | **S2-2404386** | P-CR | Approval | 23.700-66: KI#1: update the Solution 6 | ZTE | Rel-19 | FS\_EnergySys | Revision of S2-2402582 |  |
| 19.4 | **S2-2404791** | P-CR | Approval | 23.700-66: KI#1, Sol#17 update: Energy Related information obtained from OAM | Huawei, HiSilicon | Rel-19 | FS\_EnergySys |  |  |
|  | - | - | - | Evaluation & Conclusion | - | - |  | Docs:=16 |  |
| 19.4 | **S2-2403934** | P-CR | Approval | 23.700-66: Solution evaluations for KI#2 | CATT | Rel-19 | FS\_EnergySys |  |  |
| 19.4 | **S2-2403935** | P-CR | Approval | 23.700-66: Conclusions for KI#2 | CATT | Rel-19 | FS\_EnergySys |  |  |
| 19.4 | **S2-2403936** | P-CR | Approval | 23.700-66: Solution evaluations for KI#3 | CATT | Rel-19 | FS\_EnergySys |  |  |
| 19.4 | **S2-2403937** | P-CR | Approval | 23.700-66: Conclusions for KI#3 | CATT | Rel-19 | FS\_EnergySys |  |  |
| 19.4 | **S2-2404012** | P-CR | Approval | 23.700-66: Evaluation and Conclusion for KI#1 | China Mobile | Rel-19 | FS\_EnergySys | To be used as baseline |  |
| 19.4 | **S2-2404038** | P-CR | Approval | 23.700-66: List of evaluation criteria | OPPO Beijing | Rel-19 | FS\_EnergySys |  |  |
| 19.4 | **S2-2404243** | P-CR | Approval | 23.700-66: KI#1: evaluation and conclusion | vivo | Rel-19 | FS\_EnergySys |  |  |
| 19.4 | **S2-2404244** | P-CR | Approval | 23.700-66: KI#2: evaluation and conclusion | vivo | Rel-19 | FS\_EnergySys |  |  |
| 19.4 | **S2-2404245** | P-CR | Approval | 23.700-66: KI#3: evaluation and conclusion | vivo | Rel-19 | FS\_EnergySys | To be used as baseline |  |
| 19.4 | **S2-2404387** | P-CR | Approval | 23.700-66: KI#1, interim conclusion proposal | ZTE | Rel-19 | FS\_EnergySys |  |  |
| 19.4 | **S2-2404389** | P-CR | Approval | 23.700-66: KI#2, proposal on the interim conclusion | ZTE | Rel-19 | FS\_EnergySys |  |  |
| 19.4 | **S2-2404423** | P-CR | Approval | 23.700-66: Evaluation and interim principles for conclusion | MediaTek Inc. | Rel-19 | FS\_EnergySys |  |  |
| 19.4 | **S2-2404487** | P-CR | Approval | 23.700-66: Evaluation Criteria | Ericsson | Rel-19 | FS\_EnergySys |  |  |
| 19.4 | **S2-2404794** | P-CR | Approval | 23.700-66: Evaluation and conclusion KI#1 | Huawei, HiSilicon | Rel-19 | FS\_EnergySys |  |  |
| 19.4 | **S2-2404904** | P-CR | Approval | 23.700-66: Key Issue #3, Conclusion Principles | InterDigital Belgium. LLC | Rel-19 | FS\_EnergySys |  |  |
| 19.4 | **S2-2404963** | P-CR | Approval | 23.700-66: Interim conclusion for Key Issue#2 | Dish Network | Rel-19 | FS\_EnergySys | To be used as baseline |  |
|  | - | - | - | LS In/Out | - | - |  | Docs:=4  |  |
| 19.4 | **S2-2403863** | LS In | Information | LS from SA WG5: LS on energy states in TS 22.261 | SA WG5 (S5-240807) | Rel-19 | FS\_Energy\_OAM\_Ph3 | Revision of postponed S2-2401865 from S2#161To be handled |  |
| 19.4 | [**S2-2403899**](file:///D%3A%5C1.%20Work%5C5G%20Network%5C2024%5CSA2%5CTSGS2_162_Changsha_2024-04%5CDocs%5CS2-2403899.zip) | LS In | Information | LS from SA WG1: Reply LS on energy states in TS 22.261 | SA WG1 (S1-240299) | Rel-19 | FS\_Energy\_OAM\_Ph3, EnergyServ | To be handled |  |
| 19.4 | [**S2-2403898**](file:///D%3A%5C1.%20Work%5C5G%20Network%5C2024%5CSA2%5CTSGS2_162_Changsha_2024-04%5CDocs%5CS2-2403898.zip) | LS In | Action | LS from TSG RAN: Reply LS RP-240029 on per UE energy consumption in RAN  | TSG RAN (RP-240825) | Rel-19 | FS\_EnergySys | To be handled |  |
| 19.4 | **S2-2404795** | P-CR | Approval | 23.700-66: Capture answer of LS from RAN S2-2403898 | Huawei, HiSilicon | Rel-19 | FS\_EnergySys | To be handled |  |
|  | - | - | - | Others | - | - |  | Docs:=3 |  |
| 19.4 | **S2-2404075** | P-CR | Approval | 23.700-66: KI#3, New Sol: Energy-aware Analytics Exposure and Data Collection | Huawei, HiSilicon | Rel-19 | FS\_EnergySys |  |  |
| 19.4 | **S2-2404305** | P-CR | Approval | 23.700-66: KI #1, New Sol: on energy related information exposure | OPPO | Rel-19 | FS\_EnergySys |  |  |
| 19.4 | **S2-2404605** | P-CR | Approval | 23.700-66: TR 23.700-66: KI#1: New solution: KPI definition for PDU session Energy Consumption | Qualcomm India Pvt Ltd | Rel-19 | FS\_EnergySys |  |  |

Created:      **END OF LIST**
OPEN documents: **0**
Parallel Agreed: **0**
Approved/Endorsed: **0**
Agreed: **0**
Replied to LSs: **0**
Noted: **0**
Merged: **0**
For e-mail approval: **0**
Postponed: **0**
Withdrawn: **15**
Total documents: **1144**