3GPP TSG-WG SA Meeting #94 e-meeting *SP-211544*

December 14-20, 2021

Title: [DRAFT] LS on Energy Efficiency as guiding principle for new solutions

Source: Nokia, Nokia Shanghai Bell, Deutsche Telecom, Telecom Italia, Telefonica, Orange, Verizon, KDDI, AT&T, T-Mobile USA, Sony, Xiaomi (to be "TSG SA")

To: TSG RAN, TSG CT, TSG SA WG1, TSG SA WG2, TSG SA WG3, TSG SA WG4, TSG SA WG5, TSG SA WG6, TSG RAN WG1, TSG RAN WG2, TSG RAN WG3, TSG RAN WG4, TSG RAN WG5, TSG CT WG1, TSG CT WG3, TSG CT WG4, TSG CT WG6

Cc:

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Attachments: None

# 1 Overall description

3GPP has addressed the topic of EE (Energy Efficiency) for several 3GPP releases. TSG SA has undertaken studies at TSG SA level [1] and in some of its WGs [2] [3] [4]. Similarly, TSG RAN has addressed the topic quite extensively in various studies and is also soon engaging in additional work on the subject in Rel-18.

The EE-specific efforts so far undertaken e.g., in SA5 have aimed mostly at improving the energy efficiency by impacting the operations of the system. As we now are starting to specify the 5G-Advanced features, TSG SA kindly requests the recipient WGs and TSGs to consider EE even more as a guiding principle when developing new solutions and evolving the 3GPP systems specification, in addition to the other established principles of 3GPP system design.

TSG SA clarifies that in addition to EE, other system level criteria shall continue to be met (i.e. the energy efficiency aspects of a solution defined in 3GPP is not to be interpreted to take priority or to be alternative to security, privacy, complexity etc. and to meeting the requirements and performance targets of the specific feature(s) the solution addresses).

# References

[1] 3GPP TR 21.866, ["Study on Energy Efficiency Aspects of 3GPP Standards"](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=3062).

[2] 3GPP TS 28.310, ["Management and orchestration; Energy efficiency of 5G"](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=3550)

[3] 3GPP TS 28.552, ["Management and orchestration; 5G performance measurements"](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=3413)

[4] 3GPP TS 28.554, ["Management and orchestration; 5G end to end Key Performance Indicators (KPI)"](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=3415)

# 2 Actions

**To: TSG RAN, TSG CT, TSG SA WG1, TSG SA WG2, TSG SA WG3, TSG SA WG4, TSG SA WG5, TSG SA WG6, TSG RAN WG1, TSG RAN WG2, TSG RAN WG3, TSG RAN WG4, TSG RAN WG5, TSG CT WG1, TSG CT WG3, TSG CT WG4, TSG CT WG6**

**ACTION:** 3GPP SA kindly requests to take the above principles into consideration.

# 3 Dates of next TSG SA meetings

[CALENDAR OF FUTURE 3GPP SA MEETINGS](https://portal.3gpp.org/Home.aspx?tbid=375&SubTB=375" \l "/)