

RP-222988

View on sTatus, conTent and Timing of Network Energy Savings Study/Work

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Why the right decisions are key **NOW**

Network energy savings is currently a short 9 months Study Item led by RAN1 (April – November 2022)

Simulation assumptions have been discussed for nearly 2 quarters, while result and potential solution discussion was mainly squeezed into a single quarter in RAN1. Multiple solutions have been documented in TR 38.864, but there is no convergence visible yet. Many basic definitions on RAN2 are missing.

Promising approaches, like the “adaptation of common signals”, have not been clearly recommended from the SI for the WI due to lack of analysis and related discussions [see RP-223340 - Fraunhofer]

The evaluation of **network energy savings** gains vs. performance impacts has only been marginally evaluated

Many promising solutions require new device functionality (as wake-up signaling to reactivate RAN)

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For operators, it is crucial to have a comprehensive and well working, while efficient solution as part of Rel-18, as otherwise only marginal/partial improvements can be realized, while the next evolution step comes only after Rel-18 !

The only Way Forward

It is of no doubt that **network energy savings** is the most important new feature in Rel-18 for operators !

In-depth analysis of any promising approach to minimize the **energy** consumption, to help minimize the carbon footprint is needed to decide of the best approach/solution in the next release to come (Rel-18)

The resulting WI shall not start with “*Study and specify*” anymore !

As we still see the need to converge to a good “one-shot Rel-18 solution” (and not marginal improvements release by release like eEE, FeEE, eFeEE ... that will simply delay the benefits of **network energy savings** due to slower device adoption) is essential as this solution will be the baseline for the next 20+ years !!!

Hence, **we request:**

**Extension of the currently ongoing Study Item for at least 3 to 6 months
in order to gain a solid basis for a main single Rel-18 Work Item on **network energy savings****

**#GREEN
MAGENTA**