3GPP TSG-RAN WG2#131 R2-25XXXXX

Bengaluru, India, 25 Aug - 29 Aug, 2025

Agenda Item: 8.19.1

Source: Huawei, HiSilicon

Title: Report of [AT131][019][TEI19] NES (Huawei)

Document for: Discussion and decision

# 1 Introduction

This document is the report of the following discussion:

* [AT131][019][TEI19] NES (Huawei)

Intended outcome: update and agree to CR by email

Deadline: Thursday

**[Cell DTX/DRX]**

[R2-2506049](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_131\Docs\R2-2506049.zip) Discussion on UE assistance information for cell DTX/DRX Huawei, HiSilicon, China Telecom, NTT DOCOMO, Deutsche Telekom, KT Corporation, LG Uplus, Orange, Turkcell, SK Telecom, China Unicom, CMCC, Sharp, TCL, HONOR, ZTE Corporation, Sanechips, Google, Fraunhofer IIS, Fraunhofer HHI, CEWiT, CAICT, Apple, OPPO, CATT discussion Rel-19 TEI19

=> Revised in [R2-2506198](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_131\Docs\R2-2506198.zip)

[R2-2506198](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_131\Docs\R2-2506198.zip) Discussion on UE assistance information for cell DTX/DRX Huawei, HiSilicon, China Telecom, NTT DOCOMO, Deutsche Telekom, KT Corporation, LG Uplus, Orange, Turkcell, SK Telecom, China Unicom, CMCC, Sharp, TCL, HONOR, ZTE Corporation, Sanechips, Google, Fraunhofer IIS, Fraunhofer HHI, CEWiT, CAICT, Apple, OPPO, CATT, TIM discussion Rel-19 TEI19

*Proposal 1: UE indicates to the network that the configured cell DTX/DRX does not suit UE services. RAN2 to down-select from the following:*

*Option 1: Introduce a 1-bit indication in UAI, indicating the UE prefers not to operate under the current cell DTX/DRX configuration;*

*- Option 1-a: 1-bit indication as above, with an optional recommendation from UE of cell DTX/DRX configuration;*

*Option 2: Clarify in the spec that DRX-Preference-r16 can also be used by the network for cell DTX/DRX configuration.*

- Docomo supports this proposal as this helps energy consumption from network perspective.

- Nokia doesn’t share the enthusiasm as we can use normal QoE procedure to let the network control UE behaviour. Huawei explains that this is for OTT services that the network doesn’t understand what type of service it is and that no one pays for it.

- Xiaomi agrees with intention but DRX preference report is sufficient. Huawei thinks that this is option 2, but we need to clarify so after dtx/drx is configured and it is sending a preference it is also sending a preference for dtx/drx. LG shares the view with Xiaomi.

- ZTE agrees and prefers option 1, and using DRX preference without clarification it will be confusing to the network.

- Ericsson thinks that I can report unhappy but it doesn’t mean the network will make the UE happy, so this can go for a while. Huawei assumes that there is always a coverage cell and if it wants it can handover these unhappy UEs that cell.

- BT doesn’t see why we need to use this. Huawei explains that it is for OTT services.

- Vivo thinks that option 1 doesn’t exactly work so option 2 would work better.

- Ericsson thinks that the DRX preference for r16 would work implicitly. Huawei is explaining that we just need to clarify for implementers that this can also be used and also only the long cycle would need to be sent.

* UE indicates to the network that the configured cell DTX/DRX does not suit UE services. Clarify in the spec that DRX-Preference-r16 can also be used by the network for cell DTX/DRX configuration.
* Don’t need to capture how the NW will use this indication

Based on the online agreements I have provided a draft CR in the folder. The field description capturing NW behaviour was removed from the TP.

Please provide your comments by 19:00 on Wednesday to allow time for the rapporteur to update the CR before the deadline.

# 2 UAI CR for NES

Please don’t change the CR text or insert comments to the CR file. Please use the table below for comments and wording suggestions for clarity of the CR tdoc. If you want to highlight several issues, please use comment IDs e.g. HW01, HW02, etc. so it is easier for the rapporteur to respond.

|  |  |  |
| --- | --- | --- |
| **Company and comment ID (e.g. HW01)** | **Section and detailed comments/suggestions** | **Rapporteur response** |
| Ericsson | The current CR seems to go beyond a clarification since it includes procedural text for which the NW does not have control of the UE behavior (no associated RRC configuration) and no ways to verify whether the UE supports this behavior or not (no capability added). We think we should instead add this clarification in the field description below and not include the current changes in the CR e.g:  ***preferredDRX-LongCycle***  Indicates the UE's preferred long DRX cycle length for power saving. Value in ms. *ms10* corresponds to 10ms, *ms20* corresponds to 20 ms, *ms32* corresponds to 32 ms, and so on. If *preferredDRX-ShortCycle* is provided, the value of *preferredDRX-LongCycle* shall be a multiple of the *preferredDRX-ShortCycle* value. If the field is absent from the *DRX-Preference* IE, it is interpreted as the UE having no preference for the long DRX cycle. This field may also indicate UE preference for cellDTX-DRX-Cycle.  Also since we agreed to add a clarification and not a new feature per se, it is not clear whether it would be category B or category F. In any case the CR tittle does not seem accurate and should probably say “Clarification” rather than “Introduction”. |  |
| BT | Agree with Ericsson. An update on 38.306 should be sufficient.  We consider category F is more accurate. |  |
| Huawei (rapporteur) | The current CR is a modified option 2 from the discussion paper, as agreed online. The only difference being removal of the field description, which was discussed and agreed online. Please focus your comments on the CR text.  Without the procedural text there will be no standardized UE behavior for the reporting of preferredDRX-LongCycle used for Cell DTX preference.  The proposed addition to the field description is fine, on top of the other changes. |  |
| Nokia | Wouldn’t NW know if UE indicates DRX or cell DTX preference based on reported DRX cycles? If longer then DRX preference, if shorter then cell DTX indication?  And if this is the case I guess we don’t need UE capability either or activation to allow this behaviour from NW?  I think Ericsson proposal to capture this in field description could work but maybe not according to online discussions. But sure we can think whether it would be OK for proponents of feature to go that way to make this more agreeable? | First, we would agree that the UE capability is beneficial, as it would enable NW to know if the UE has been able to take into account cell DTX/DRX configuration in the reported drx-Preference. If the UE supports reporting drx-Preference based on cell DTX/DRX configuration (i.e. this TEI19 feature), the NW can configure such UE reporting drx-Preference if NW configures long cell DTX/DTX. Regarding the two questions, we agree that the NW could implicitly understand what this preference is for. For example, if the network configures a long DTX/DRX, and the UE supporting this Rel-19 TEI feature reports a shorter cycle in drx-Preference, then the NW would know that the UE has a preference with shorter cell DTX/DRX configurations, and then the NW can decide, e.g. to hand over the UE to other non-NES carrier or to reconfigure cell DTX/DRX, by implementation.  Regarding the last question our interpretation from the online discussions was that we go for option 2 and the wording in the agreement is exactly reflecting option 2 from the proposal. Since the field description proposed by Ericsson does not define NW behavior we think it is fine to add it, but the procedural text also needs to be present (as described in the answer above). |
| HONOR | The draft CR looks fine to us in general. |  |
| CATT | We are OK with the CR.we share the same view as Rapp that without the procedural text there will be no standardized UE behavior for the reporting of preferredDRX-LongCycle used for Cell DTX preference. |  |
| China Telecom | The CR in the folder is aligned with the online agreement and looks fine to us. |  |
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