**3GPP TSG-RAN WG2 Meeting #131bis *R2-250xxxx***

**Prague, Czech Republic, 13 – 17 October 2025**

**Agenda item: 8.x.x**

**Source: Xiaomi**

**Title: Open issues of Rel-19 AIML air UE capabilities**

**Document for: Discussion and Decision**

# Introduction

As part of email discussion “[POST131][043][AI PHY] UE capabilities (Xiaomi)”, this document is to collect open issues on Rel-19 AIML air UE capabilities.

Phase 1: Companies are invited to provide input on open issue list no later than 19th Sep.

Phase 2: Rapporteur will further provide the resolution to each open issue afterwards. Companies further input on the open issue list and resolution are expected before 1st Oct.

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| **Company** | **Name** | **Email** |
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# Discussion

During previous discussion, rapporteur observes there’s only one open issue left:

***Open issue UECap-1: whether UE can support other memory sizes and indicate to network via optional capability signaling***

*Issue Description:*

This was discussed during the email discussion, and there are 5 companies think that UE can optionally indicate other AS layer memory sizes to network due to the following reasons:

- network flexibility for higher buffer threshold configuration

- common AS layer buffer might need larger memory size to support other use cases as well

4/9 companies don’t agree to indicate other memory size to network due to the following reasons:

- for Rel-19 data collection, no need for additional memory

- more memory size is up to UE implementation

- network can retrieve data based on UE buffer full indication

*Status in running CR:*

Not captured

Based on offline and online discussion, the supporting of additional memory sizes mainly motivated by supporting more flexible buffer-threshold based configuration. It seems reasonable to consider *dataThresholdAvailabiltyIndication-r19* as the prerequisite of this new capability (if introduced). If *dataThresholdAvailabiltyIndication-r19* is not supported, UE does not need to support additional memory size.

Therefore, rapporteur proposes with the following way-forward, where the candidate values consider memory size supported in *qoe-AdditionalMemoryMeasReport-r18* as baseline (except introducing a smaller value of 64kB):

**Proposal 1: Define *aiml-AdditionalMemoryReport-r19* to indicate the additional AS layer memory size the UE support for logged measurement of network-side data collection in addition to 64kB.**

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| ***aiml-AdditionalMemoryReport-r19***Indicates whether the UE supports the additional AS layer memory size the UE support for logged measurement of network-side data collection in addition to 64kB. Value kB64 means the UE supports at least 64 kilobytes for this purpose, and so on. A UE supporting this feature shall also indicate support of *dataThresholdAvailabiltyIndication-r19*. | UE | No | No | No |

***AIML-Parameters* information element**

-- ASN1START

-- TAG-AIML-PARAMETERS-START

AIML-Parameters-r19 ::= SEQUENCE {

 applicabilityReportingCSI-r19 ENUMERATED {supported} OPTIONAL,

 applicabilityReportingOther-r19 ENUMERATED {supported} OPTIONAL,

 loggedDataCollection-r19 ENUMERATED {supported} OPTIONAL,

 eventBasedLoggedDataCollection-r19 ENUMERATED {supported} OPTIONAL,

 dataThresholdAvailabilityIndication-r19 ENUMERATED {supported} OPTIONAL,

 aiml-AdditionalMemoryReport-r19 ENUMERATED {kB64, kB128, kB256, kB512, kB1024}

OPTIONAL

}

-- TAG-AIML-PARAMETERS-STOP

-- ASN1STOP

**Q1: Do companies agree with above proposal and the relative TPs for this new introduced capability? Comment to the TP is also welcomed.**

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| **Company** | **Yes/No** | **Comment** |
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Besides the above open issue, companies are invited to describe any identified open issues in the table below.

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| **Company** | **Description of open issues and potential resolution** | **Rapporteur comment** |
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# Conclusion

In this contribution, we collect open issues of Rel-19 AIML air UE capabilities. Based on above discussion, following open issues are identified: