**3GPP TSG-RAN WG2 Meeting #128 draft-R2-2411232**

**Orlando, USA, 18 - 22 November, 2024**

**Title: Assistance information from CN to the reader**

**Response to:**

**Release: Rel-19**

**Work Item: FS\_Ambient\_IoT\_solutions**

**Source: to be RAN2**

**To: SA2**

**Cc:** **RAN3**

**Contact Person:**

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**Send any reply LS to: 3GPP Liaisons Coordinator,** mailto:3GPPLiaison@etsi.org

**Attachments:** **-**

**1. Overall Description:**

Further to the LS in R2-2409412, RAN2 would like to inform SA2 of some more agreements listed below which were made as part of the A-IoT study item:

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| --- |
| **Agreements (RAN2#127):*** At least the following information are considered useful to be visible to the reader from CN
* The service type of A-IoT (e.g. inventory, command). FFS if more information on command type (e.g. read/write/disable) is useful
* targeted for one or more than one devices;
* approximate number of target devices (if available).

FFS on mandatory/optional* RAN2 assumes that commands (e.g., read/write/disable) and/or inventory are carried over the AIOT interface as upper layer data.

**Agreements (RAN2#128):*** The reader needs to know whether a response is expected and expected D2R message size. FFS how the reader gets this information. Wait for SA2 LS response on expected D2R message size to resolve the FFS. FFS if command type is explicit, if it can be inferred from expected D2R message size if available.
* Ask SA2 if they can provide information that RAN2 agreed on some information that are useful for the reader and ask whether they can be provided (e.g. service type). Ask SA2 if there are requirements from SA2 perspective (e.g. on latency of completion time of procedure)
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RAN2 has discussed visibility of information from reader perspective and concluded that information captured in the agreements from RAN2#127 above is considered useful. RAN2 has not concluded yet whether such information should be mandatory or optional. RAN2 would like SA2 to take this agreement into consideration and provide feedback on whether it is feasible to provide such information to the reader. Thus, RAN2 would like to ask SA2 to kindly answer the following question:

**Q1: Is it feasible for CN to provide the following information to the reader?**

* the service type of A-IoT (e.g. inventory, command)
* whether the service is targeted for a single or multiple devices;
* the approximate number of target devices (if available).

All D2R messages are scheduled by the reader. Hence, RAN2 agreed that the reader needs to know if the device would generate message(s) in D2R direction in response to the R2D message (e.g. command), and the size of such messages so that the reader can schedule the device accordingly.

The reader may schedule the response message in D2R direction if it is aware that there is an expected response message. It would then also be useful for the reader to know the expected message size in this case. If the expected size of the response message is not available at the reader, the reader should at least know whether a message in D2R direction is generated in response to the R2D message. Hence, RAN2 would like to ask SA2 to kindly answer the following question:

**Q2: Can the CN indicate to the reader (either explicitly by a command type or implicitly, for instance by indicating the expected size of a response message in D2R direction) whether a message is expected in D2R direction in response to an R2D message for command service type?**

Further, for the latency/completion time of a given A-IoT procedure, RAN2 would also like to ask SA2 to kindly answer the following question:

**Q3: Will there be any latency related requirements associated with completion time of a given A-IoT service?**

**2. Actions:**

**To SA2:**

**ACTION:** RAN2 respectfully asks SA2 to take the above information and RAN2 agreements into account, provide any relevant feedback and answer the questions above.

**3. Date of Next RAN2 Meetings:**

RAN2#129 17th – 21st February 2025 Athens, Greece

RAN2#129-bis 07th – 11th April 2025 China