**SA2#169 R19 AIoT-ARC contribution plan**

* FFS documented in TS 23.369, v0.3.0 is summarized and categorized in the following table.
* Please companies add company name in the right column if interested.

Table

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| **Clause number** | **Editor’s note** | **Interested companies**  |
| 4.5.1 | Editor’s note: The definition of AIoT Device needs to align with the definition at RAN WGs. | OPPO |
| 4.5.2 | Editor’s note: NG-RAN and AIoT Reader will be aligned later with RAN WGs. It is FFS whether to specify the relationship between NG-RAN and AIoT Reader and which term to use in this TS. | OPPO |
| 4.5.7 | Editor’s note: Further functions on AMF is FFS. | Huawei |
| 4.6.1 | Editor's note: The protocol stacks between RAN and 5GC in the following clauses need to align with RAN specifications. | ZTEOPPO |
| 4.6.2.3 | Editor's note: Whether AIoT Reader Control is transported by NGAP or is part of the NGAP protocol will be updated based on RAN WG3 decision. |
| Editor's note: The reference to AIoT AS Layer protocol will be updated based on RAN WG1 or RAN WG2 decision |
| 5.3.2 | Editor's note: The further investigation of factors for the ADM selection will be needed and other factors are FFS. | Huaweivivo(combine handling with the EN in 5.7.2) |
| 5.3.3 | Editor’s note: NG-RAN and RAN reader information needs to coordinate with the RAN WG(s). Details are pending RAN WG feedback. | HuaweiZTECATTOPPO |
| Editor’s note: The AIOTF or AMF configuration of NG-RAN and RAN reader information over NGAP needs to coordinate with RAN WG(s). |
| Editor’s note: It is FFS how NG-RAN transfers and updates its information to the AIOTF in indirect connectivity.(vivo) |
| 5.3.4 | Editor’s note: It is FFS whether and how the procedure is performed between AMF and AIOTF in order to provide the NG-RAN ID of NG-RAN from the AMF to the AIOTF. | Huaweivivo (fix all the indirect ENs in one paper, include functions, procedure, services) |
| 5.4 | Editor's note: Other assistance information may be added later if necessary. | HuaweiZTE(propose a new sub-clause for aggregation)CATT |
| Editor's note: It is FFS where detailed description on time interval as AIoT aggregation assistance information will be captured, i.e. in this clause or in another clause. |
| 5.7.2 | Editor's note: The reference in NOTE 3 needs to be updated, when the appropriate stage 3 document is identified. | HuaweiCATT |
| Editor's note: Whether the Domain Information can be empty needs to be clarified. |
| 5.8 | Editor's note: Whether and how to secure the filtering information is up to SA WG3. | HuaweiCATTvivo (refine 5.8, not about the EN) |
| 6.1 general(empty clause) | Editor’s note: The contents of this general clause is FFS and is expected to describe there are service procedures which are reader type/routing agnostic and there are procedures which relate to the transports to the readers. | HuaweiZTEOPPOvivo (align with RAN, NF services) |
| 6.2.1 general | Editor's note: Additional information in the steps, parameters, and their naming throughout the procedures requires additional details, alignment with other clauses and references adding as required. |
| 6.2.1 general | Editor's note: Alignment is required for how to document and describe Direct Connectivity and Indirect Connectivity options in the procedures. |
| 6.2.2 inventory | Editor's note: The parameters for the inventory service operation need further definition. |
| 6.2.2 inventory | Editor's note: Whether the Inventory Request sent to NG-RAN includes indication about whether there will be a follow up command or not needs to be determined. |
| 6.2.2 inventory | Editor's note: Whether and how the Device ID is concealed or encrypted will be determined and aligned with SA WG3. |
| 6.2.2 inventory | Editor's note: The details how interactions between NG-RAN and AIOTF to indicate no further Inventory Reports will be sent and completion of the procedure need to be aligned with RAN. |
| 6.2.3 command | Editor's note: Additional information in the steps, parameters, and their naming throughout the procedures requires alignment with other clauses and references adding as required. | HuaweiZTECATTOPPO |
| 6.2.3 command | Editor's note: Alignment is required for how to document and describe Direct Connectivity and Indirect Connectivity options in the procedures. |
| 6.2.3 command | Editor's note: It is FFS whether and how to structure the AIoT data if the Command Type is Read, Write or Disable. |
| 6.2.3 command | Editor's note: What parameter(s) are used in the Command Request to enable NG-RAN node to target a specific AIoT Device requires coordination with RAN3. |
| 6.2.3 command | Editor's note: Additional information included in the NAS Command Request for security will be determined and aligned with SA WG3. |
| 6.2.3 command | Editor's note: The AS R2D message and AS D2R message will be aligned with RAN WG's specification. |
| 6.2.3 command | Editor's note: Additional information included in the NAS Command Response for security will be determined and aligned with SA WG3. |
| 7.2AIOTFservice | It is FFS how to support the service between AMF and AIOTF in order to report and update the information provided by the RAN for indirect path. | ZTEOPPO(AIOT data)vivo(1. align with RAN and procedure;
2. AIoT data, propose to handle AIoT data separate, and update procedure, function and NF services in one paper.)
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| It is FFS whether to use separate service operation to respectively support read, write or disable command procedure. |
| The AIoT Data specific for the Read/Write/Disable command is FFS. |
| The Command specific parameters for Read/Write/Disable command is FFS |
| It is FFS whether the Approximate message size from the AIoT Device can also be provided by the AF for the other command operations |
| It is FFS whether that fail to discovery any AIoT device is normal operation result or failure case. |
| It is FFS how to make AF be aware of the report is finished in case there are multiple notify for the same AIoT operation. |
| 7.3AMFservice | It is FFS whether the Correlation identifier or AIOTF ID is included in the Namf\_AIoT\_MessageDelivery | vivo |
| AIoT messages is FFS and coordination with RAN3 is needed.  |
| It is FFS how to make AIOT be aware of the report is finished in case there are multiple notify for the same operation. |
| It is FFS whether the Correlation identifier is included in the Namf\_AIoT\_Notify |
| 7.4NEFService | It is FFS whether to use separate service operation to respectively support read, write or disable command procedure. | ZTEOPPO (AIoT data)vivo |
| The AIoT Data specific for the Read/Write/Disable command is FFS. |
| It is FFS whether the Approximate message size from the AIoT Device can also apply for the other command types. |
| The NEF AIoT service operation definition needs to be revisited to align with AIOTF services |
| 7.5ADMService | Whether AF authorization data is stored in ADM is FFS | vivo |