**3GPP TSG-CT WG3 Meeting #112-eRev of C3-205036**

**Electronic meeting, 04-13 November 2020**

**Source: CT3**

**Title: New WID on Reliable Data Service Serialization Indication**

**Document for: Endorsement**

**Agenda item: 17.1.1**

3GPP™ Work Item Description

Information on Work Items can be found at <http://www.3gpp.org/Work-Items>
See also the [3GPP Working Procedures](http://www.3gpp.org/specifications-groups/working-procedures), article 39 and the TSG Working Methods in [3GPP TR 21.900](http://www.3gpp.org/ftp/Specs/html-info/21900.htm)

# Title: Reliable Data Service Serialization Indication

## Acronym: RDSSI

## Unique identifier: {A number to be provided by MCC at the plenary}

Potential target Release: Rel-17

## 1 Impacts

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Affects:** | UICC apps | ME | AN | CN | Others (specify) |
| **Yes** |  | X |  | X |  |
| **No** | X |  | X |  | X |
| **Don't know** |  |  |  |  |  |

## 2 Classification of the Work Item and linked work items

### 2.1 Primary classification

|  |  |
| --- | --- |
| X | Feature |
|  | Building Block |
|  | *Work Task* |
|  | Study Item |

### 2.2 Parent Work Item

|  |
| --- |
| Parent Work / Study Items  |
| Acronym | Working Group | Unique ID | Title (as in 3GPP Work Plan) |
|  |  |  |  |

### 2.3 Other related Work Items and dependencies

|  |
| --- |
| Other related Work Items (if any) |
| Unique ID | Title | Nature of relationship |
| 740039 | CT1 aspects of extended architecture enhancements for Cellular Internet of Things | The Work Item that originally created the Reliable Data Service  |
| 780006 | CT3 aspects of NAPS | The Work Item that added the API exposure for the Reliable Data Service on T8 |
| 830039 | CT3 aspects of 5G\_CIoT | The Work Item that added the Reliable Data Service to 5GC and added the API exposure for the Reliable Data Service on Nnef/N33 |
| 840017 | Reliable Data Service Serialization Indication | SA2 Work Item that introduced serialization indication in stage-2 specifications |

**Dependency on non-3GPP (draft) specification**:

None

## 3 Justification

As part of the RDSSI (SP-190446) work item, SA2 added support to the Reliable Data Service for indicating the serialization format of the data that will be sent in a NIDD session. This feature was added to the SCEF in TS 23.682 (clauses 4.5.14.3 and 5.31.2) and the NEF in TS 23.501 (clause 5.13.6) and TS 23.502 (clause 4.25.3).

## 4 Objective

The objective of this work item is to do the necessary stage 3 updates to add support to the Reliable Data Service for indicating the serialization format of the data that will be sent in a NIDD session. The objectives for the specific WGs are as follows:

CT1:

- Update the Manage Port command and add support for serialization format.

CT3:

- Update the NIDD API and add support for serialization format. The serialization format can be reserved by the SCS/AS, the reserved serialization formats can be queried by the SCS/AS and the SCEF can notify the reserved serialization formats.

## 5 Expected Output and Time scale

|  |
| --- |
| **Impacted existing TS/TR** *{One line per specification. Create/delete lines as needed}* |
| TS/TR No. | Description of change  | Target completion plenary# | Remarks |
| *TS 24.250* | *Updates to Manage Port command for adding serialization format.* | TSG CT#93 (September 2021) |  CT1 |
| *TS 29.122* | *Updates to NIDD API and add support for serialization format* | TSG CT#93 (September 2021) | CT3 |

## 6 Work item Rapporteur(s)

Vivek Gupta, Intel, (vivek.g.gupta@intel.com)

## 7 Work item leadership

CT1

## 8 Aspects that involve other WGs

## 9 Supporting Individual Members

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| Supporting IM name |
| Convida Wireless LLC |
| Intel |
| InterDigital |
| Deutsche Telekom |
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