LIAISON STATEMENT

Title:*	NIDD RDS API enhancement
Source:*	oneM2M Technical Plenary
Date:*	2019-02-20
To:*	3GPP CT3
Copy to:	3GPP CT1, 3GPP SA2
In response to:	n/a
Send replies to:*	Replies to this LS should be sent to oneM2M_liaison@list.onem2m.org
List of attachments:	n/a

Template Version:23 February 2015 (Do not modify)

1   Overview

oneM2M would like to notify 3GPP CT3 that as of Rel-3 of the oneM2M specification, the oneM2M Mcn reference point supports a binding to NIDD. Via this binding, oneM2M supports sending requests and responses over NIDD. The oneM2M binding uses the Reliable Data Service. However, the binding assumes that the SCS (oneM2M IN-CSE) and UE Application (oneM2M MN/ASN-CSE or ADN-AE) are provisioned to know the type of serialization format (e.g. CBOR, JSON, XML) that is used to serialize the oneM2M request or response encapsulated within the NIDD.

oneM2M understands that 3GPP is adding support for the Reliable Data Service to the 5GC in Rel-16 as part of the 5G_CIoT_5G work item.

2   Requested Action

oneM2M would like to respectfully ask 3GPP CT3 to consider adding support to the Reliable Data Service for indicating the serialization format of the data that will be sent in a NIDD session. oneM2M would like for the SCEF/NEF API to support an attribute to indicate the type of serialization format used by the UE to serialize the oneM2M requests and responses of the NIDD session. This will enable the SCS (oneM2M IN-CSE) and the UE Application (oneM2M MN/ASN-CSE or ADN-AE) to not have to rely on static pre-provisioning of serialization formats and instead they could pass this information within NIDD requests. This would also enable oneM2M to simplify its architecture by keeping the oneM2M NIDD binding aligned with the other supported underlying transport protocols bindings (HTTP, CoAP, MQTT and WebSocket) which support indicators for the serialization format. oneM2M would like to point out that it is reasonable to assume that the UE Application (oneM2M MN/ASN-CSE or ADN-AE) will not change its serialization method during a NIDD session.

oneM2M would like to make use of the serialization format indicator support as part of oneM2M Release 4 which is scheduled to finish by Q4/2019.

3   Next Meeting Dates

- oneM2M TP 40, May 20-24, 2019, San Diego, USA
- oneM2M TP 41, July 8-12, 2019, China
- oneM2M TP42, September 23-27, India