**3GPP TSG-SA5 Meeting #143e *S5-223492Rev2***

**e-meeting, 9-17 May 2022**

**Source: NEC**

**Title: pCR draft TS28.104, revisions to Network slice traffic prediction capability**

**Document for: Approval**

**Agenda Item: 6.6.5**

1 Decision/action requested

***For approval***

2 References

[1] 3GPP TS28.104, v1.1.0, Management and orchestration; Management Data Analytics (MDA).

3 Rationale

This pCR proposes some changes and corrections into network slice traffic prediction capability.

4 Detailed proposal

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| **1st modification** |

#### 7.2.2.3 Network slice traffic prediction

##### 7.2.2.3.1 Description

This MDA capability is for the prediction of network slice traffic patterns.

##### 7.2.2.3.2 Use case

It is desirable to use MDAS to get the network slice traffic predictions including individual traffic load predictions on each of the constituent network function instance present in the network slice. The traffic load predictions per constituent network function instances can be used for better resource provisioning of the network slice. For example, resources can be pre-configured considering the predicted traffic on the network slice.

##### 7.2.2.3.3 Requirements

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| **Requirement label** | **Description** | **Related use case(s)** |
| **REQ-TRA\_MDA--01** | MDA capability for network slice traffic prediction shall be able to provide analytics output describing traffic load prediction of the network slice including traffic load prediction for each of  its constituent network function instances. | Network slice traffic prediction |
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| **REQ-TRA\_MDA-03** | MDA capability for network slice traffic prediction shall be able to provide analytics output describing traffic load prediction for the network slice which include the following information:  - Predicted uplink and downlink throughput on each User Plane Function instance (UPF) in the network slice.  - Predicted number of Packet Data Unit (PDU) session for each Session Management Function (SMF) instance in the network slice.  - Predicted number of UE or Registered subscriptions for each AMF instance in the network slice.  - Predicted maximum packet size for each UPF instance in the network slice.  - Predicted UE uplink and downlink throughput on each gNodeB (gNB) instance in the network slice.  - Predicted number of UE for each gNB/NR cell instance in the network slice. | Network slice traffic prediction |

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| **End of modifications** |