**3GPP TSG-SA5 Meeting #143e S5-223368rev1**

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

**Source: China Unicom**

**Title: Add Key Issue on the Performance measurements related to URLLC**

**Document for: Approval**

**Agenda Item: 6.5.10 Study on Management Aspects of URLLC**

# 1 Decision/action requested

***The group is asked to approve the proposal.***

# 2 References

[1] 3GPP TR 28.832 v0.1.0: “Management Aspects of URLLC”

# 3 Rationale

It was approved in SP-220146 to study the management aspects of URLLC and one of the objectives is to investigate performance measurements related to URLLC. In order to achieve the objective mentioned above, the structure of performance measurements related to URLLC is proposed in this contribution.

# 4 Detailed proposal

This contribution proposes to make the following changes in [1].

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| **1st Change** |

# 5 Key Issues Investigation and Potential Solutions

## 5.X Key Issue #X: Performance measurements related to URLLC

### 5.X.1 Description

URLLC is a set of service scenarios that require low-latency and ultra-reliability communications and have specific SLAs correspondingly. As a new service deployed in the 5G network, the URLLC service requires a new set of measurements to monitor and evaluate network performance. The typical performance measurements for 5G networks are specified in TS 28.552, but there are few performance measurements performed in gNB specific for URLLC services. The performance measurements for gNB related to URLLC need to be investigated.

### 5.X.2 Potential solutions

The URLLC services satisfy the requirements of low latency and ultra reliability through URLLC features' invocation and guarantee of network resources. Therefore, performance measurements related to URLLC can be designed into the following three categories: low latency, ultra reliability and resource multiplexing.

#### 5.X.2.1 Low latency:

-- used to evaluate air-interface latency of URLLC service.

#### 5.X.2.2 Ultra reliability:

--used to evaluate air-interface reliability of URLLC service.

#### 5.X.2.3 Resource multiplexing:

--used to display the resource multiplexing of URLLC services in scenarios where multiple services such as URLLC and EMBB coexist, so as to evaluate the network load of URLLC services.

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| **End of changes** |