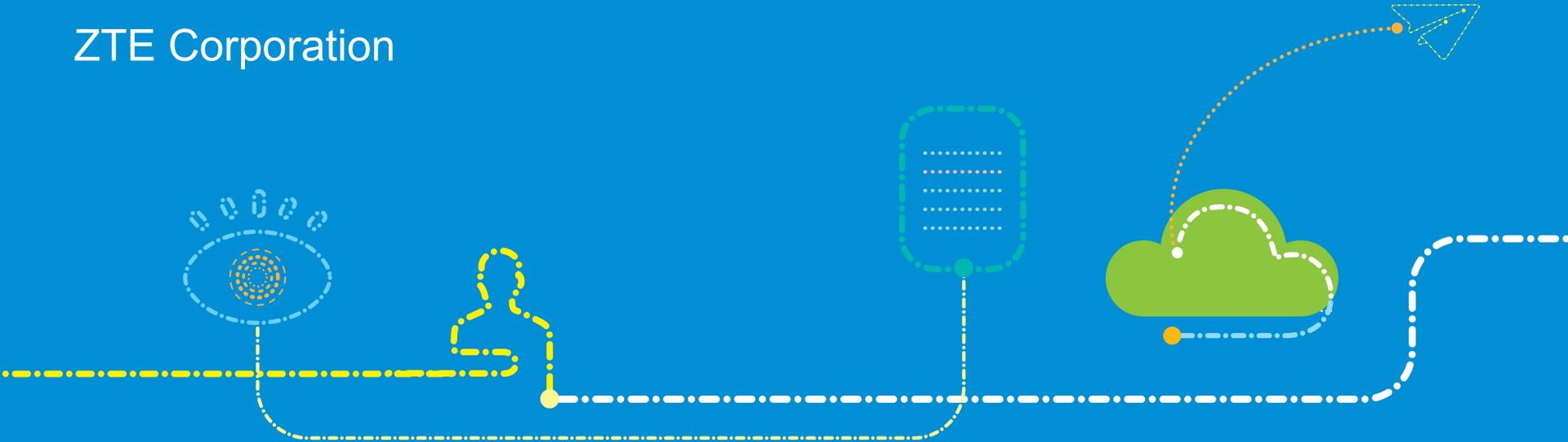


Discussion Paper for Measurement Data Collection

ZTE Corporation



Motion Control

- 5G based motion control is a typical use case, which has stringent requirements in latency, service availability and reliability as specified in TS22.104
- Taking 500 μ s transfer interval and survival time as an example, 2000 messages are delivered per second, and an immediate service disruption will be caused if one message is delayed or failed

Power Distribution Automation

- 5G based high-speed current differential protection is a typical use case of power distribution automation, which shall support sub-millisecond fault detection
- If the protection relay can not receive the remote sample from the remote protection relay within a certain period of time, it will enter a blocking mode, which may cause a false trip and further negatively impact Smart Grid availability and reliability (see TR22.867)

When there is service fault or disruption, the network operators need to prove that the delay is not caused by the communication network to the vertical industry users



Robotic arm



CN



Smart factory control center

Existing requirements

✓ **Granularity**

- The granularity of packet level is not covered by the current existing QoS monitoring and result reporting requirements

✓ **Refresh rate**

- The refresh rate requirement is not clear, i.e. who can specify the refresh rate and whether collection rate and reporting rate are the same

New requirements

✓ **Reflect new demands**

- Support packet-level granularity
- Mechanisms shall be supported to start/stop packet-level monitoring and reporting

✓ **Clarification**

- The refresh rate can be specified by the user
- The rates for collection and reporting can be different

- 📶 The objective of this work item is to propose new requirements for TS22.261 which will augment existing TS22.261 QoS monitoring requirements.
- 📶 The following related requirements will be included:
 - 📶 QoS monitoring and reporting with packet level granularity.
 - 📶 Mechanisms to enable an authorized application/network entity to start and stop QoS monitoring with packet level granularity.
 - 📶 Clarification of the existing refresh rate requirement for QoS monitoring.

Thank you



Tomorrow never waits

