**3GPP TSG-SA WG6 Meeting #61 S6-242555**

**Jeju Island, South Korea, 20th – 24th May 2024 (revision of S6-242055)**

**Source: Netherlands Police, Samsung, Nokia, TNO, Airbus, Motorola Solutions**

**Title: Pseudo-CR New key issue on impact on Mission Critical group communication KPIs**

**Spec: 3GPP TR 23.700-01**

**Agenda item: 8.6**

**Document for: Approval**

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**1. Introduction**

Satellite access may be valuable for Mission Critical communication, especially in remote areas and during disaster relief scenarios. Participants connected via satellite access may be crucial in Mission Critical group communications. Still, it should be considered that it is likely that Mission Critical group communication KPIs may be impacted for all participants if one participant is connected via Satellite access. KPIs outside the normal range can have a strong negative operational impact. Participants of MCX group communications may be confused by an unexpected drop in KPIs due to a participant being connected via Satellite access.

**2. Reason for Change**

The operational aspect and end user impact of satellite access for Mission Critical group communication is currently not sufficiently covered.

**4. Proposal**

It is proposed to agree the following changes to 3GPP TR 23.700-01 version 0.3.0.

\* \* \* First Change \* \* \* \*

## 4.X Key issue #X: Impact of satellite access on KPIs for Mission Critical group communications

### 4.X.1 Description

Satellite access may be valuable for Mission Critical communication, especially in remote areas and during disaster relief scenarios. Participants connected via satellite access may be crucial in Mission Critical group communications. Still, it should be considered that it is likely that Mission Critical group communication KPIs may be impacted for all participants if one participant is connected via Satellite access. KPIs outside the normal range can have a strong negative operational impact. Participants of MCX group communications may be confused by an unexpected drop in KPIs due to a participant being connected via Satellite access.

Hence, it is desirable to study the impact of satellite access to Mission Critical KPIs and how to mediate possible operational consequences.

### 4.X.2 Open issues

The following aspects need to be studied:

- What is the actual impact of satellite access to the KPIs for Mission Critical communication?

- Whether and how participants of group communications can be informed about reduced KPIs due to one or more participants being connected via satellite.

\* \* \* Next Change \* \* \* \*

<Proposed change in revision marks>

\* \* \* Next Change \* \* \* \*

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