**3GPP TSG-SA5 Meeting #155 *S5-243016d1***

Jeju, Korea, 27 - 31 May 2024

**Source: Huawei**

**Title: Rel-19 Discussion paper on New KI Support PS Data Off for FS\_NG\_RTC\_Ph2\_CH**

**Document for: Discussion**

**Agenda Item: 7.5.3**

# 1 Decision/action requested

***The group is asked to discuss.***

# 2 References

[1] S5-241835: "New SID on Charging aspects of next generation real time communication services phase 2".

# 3 Rationale

This contribution proposes to add new Key Issue and corresponding use cases of IMS Data Channel PS Data Off which is initiated by S5-241835 [1].

The possible solution, evaluation and conclusion section is FFS as waiting SA2 to conclude on the Key Issue in May meeting.

# 4 Detailed proposal

|  |
| --- |
| **1st Change** |

# 5 Charging scenarios and key issues for NG\_RTC

## 5.x Topic x: Support IMS Data Channel as a PS Data Off Exempt Service

### 5.x.1 Use cases

#### 5.x.1.1 Use case #1: Services over IMS Data Channel is configured as a PS Data Off Exempted Service

IMS data channel deployment is based on the IMS architecture depicted in Annex AC of TS 23.228 [x]. The Services over IMS Data Channel as a whole is configured as a PS Data Off Exempted Service. Operators may further control whether each individual DC application is allowed when the PS Data Off Exempt of services over IMS Data Channel is on.Charged Party: A serving End User (UE) who used IMS data channel application.

Charging Party: IMS Data channel operator who charge the serving End User for IMS data channel application usage.

The potential charging requirements for this UC are: REQ-CH\_NG\_RTC\_PS-01, REQ-CH\_NG\_RTC\_PS-02.

### 5.x.2 Potential charging requirements

**REQ-CH\_NG\_RTC\_PS-01:** The 5G system should support converged charging when Services over IMS Data Channel as a part of PS Data Off Exempt Services.

**REQ-CH\_NG\_RTC\_PS-02:** The 5G system should support converged charging to enable further control the usage of individual applications on the IMS Data Channel when the PS Data Off Exempt of IMS Data Channel is on.

### 5.x.3 Key issues

The following key issues are identified considering REQ-CH\_NG\_RTC\_PS-01 and REQ-CH\_NG\_RTC\_PS-01:

- **Key Issue #1a**: Identification of the charging information to support converged charging for services over IMS Data Channel when UE turn on the PS Data Off.

- **Key Issue #1b**: Identification of the main interactions with the NFs to obtain the charging information.

|  |
| --- |
| **End of changes** |