**3GPP TSG SA WG 1 Meeting #106 S1-241323**

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**pCR Title: Pseudo-CR on dynamic user experience adjustment**

**Draft Spec: 3GPP TR 22.883**

**Agenda item: 7.2**

**Document for: Approval**

**Contact: Yuying Zhang,** [**zhangyy45@chinatelecom.cn**](mailto:zhangyy45@chinatelecom.cn)

*Abstract: This pCR introduces a new use case into TR 22.883.*

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

## 5.X Use case on dynamic user experience adjustment

### 5.X.1 Description

Climate change and the rising consumption of energy are catching people’s eyes. Not only the network or user device modules could develop mechanisms for energy consumption reduction, but also network operator could encourage their users to participate in environmental protection. With the user consent and preconfigured acceptable degraded QoS levels of the user, the user’s QoS could be degraded with incentive. Energy consumption could be reduced while the user experience could be guaranteed as well.

### 5.X.2 Pre-conditions

Bob loves his planet. Bob has a subscription to the ‘green service’ provided by operator A. With the subscription of ‘green service’, Bob can turn on his preference for saving energy by dynamically adjusting the QoS levels of his services.

Operator A provides an incentive scheme for all the users subscribing to the ‘green service’ based on the time for the users setting the preference on adjusting the QoS levels in order to save energy for the operator’s network.

### 5.X.3 Service Flows

1. In the morning, Bod turns on his phone and registers to operator A, and he decides to turn on the subscribed ‘green service’ on his phone.

2. Operator A monitors the energy consumption of the network, and the network degrades the QoS level of Bob’s services to save energy when it detects that the energy consumption exceeds the configured threshold.

3. Bob’s QoS level is degraded, the 5G system collects the timestamp information of Bob turning on the ‘green service’ on his phone.

4. When the network detects the energy consumption of the network under the configured threshold, it adjusts the QoS level of Bob’s services.

5. At night, Bob decides to turn off the ‘green service’ on his phone.

6. Operator A collects the timestamp information of Bob turning off the ‘green service’ on his phone.

### 5.X.4 Post-conditions

Operator A would reward Bob with a discount on his bill according to the duration that he turns ‘green service’ on.

### 5.X.5 Existing feature partly or fully covering use case functionality

Energy consumption can be monitored and considered through O&M as part of network operations.

TS 22.261 subclause 6.15a.2:

For best-effort traffic, that is, without QoS criteria, policies can be defined to limit energy use for services.

### 5.X.6 Potential New Requirements needed to support the use case

[PR.5.X.6-1] Subject to operator policy and user consent, and based on the dynamic subscriber’s preference, the 5G network shall provide a mechanism to dynamically adjust service parameters (e.g. QoS parameters, maximum bitrate) to save energy whilst compromising on service experience.

[PR.5.X.6-2] Subject to operator policy and user consent, the 5G network shall be able to collect the charging information including the energy-saving preference related information (e.g. the timestamp of the start and end of energy-saving adjusted service parameters, and the corresponding service parameters).

\* \* \* End of Change \* \* \* \*