**SA WG2 Meeting #163** **S2-240xxxx**

**27 - 31 May, 2024, Jeju, South Korea (revision of S2-240)**

**Source: Nokia (Rapporteur)**

**Title: SoH Questions**

**Document for: Approval**

**Agenda Item: 19.3**

**Work Item / Release: FS\_XRM\_Ph2 / Rel-19**

*Abstract of the contribution: SoH questions*

# KI#1

1. If FEC is applied, which AL-FEC mechanisms is your preferred method?
   1. Static approach/control plane based (NG-AP)
   2. Dynamic approach/User plane based (GTP-U)
2. Can 3GPP support Alternative QoS indication in user plane to NG-RAN to help the Alternative QoS profile (including PDU Set QoS parameters) fulfilment in NG-RAN? **YES/NO**
3. In R18, RAN indicates to CN whether PDU Set handling is supported or not. However, PDU Set handling support may be different in each Flow direction (UL, DL) (i.e. in the RAN, UE). Should RAN provided indication for PDU Set handling support be split into DL PDU Set handling support and UL PDU Set handling support? **YES/NO**
4. There might be dependency relationships amongst PDU Sets. Whether 3GPP should support marking PDU Set correlation information to assist RAN for discarding packets? **YES/NO**
5. Should PSI mapping be based on detected PDU Set type? **YES/NO**
6. Should we require NG-RAN to signal the amount of discarded data? For example, it could be done similar to the Secondary RAT data usage report between RAN and the AMF. **YES/NO**

# KI#2

1. The endpoints such as UE and AS should be able to provide application layer metadata to network. One or more of the following mechanisms should be supported over N6 to identify the meta data (including PDU Set information, also other meta data such as burst size) for encrypted DL media traffic:
   1. Category #1: Media over QUIC - **YES/NO**
   2. Category #2: UDP option (reference: sol #11, #12, #27) - **YES/NO**
   3. Category #3: Proxying-UDP-in-HTTP (QUIC-Aware Proxying method) (reference: sol #24, #26) - **YES/NO**
   4. Category #4: GTP-U (reference: sol #25) - **YES/NO**

# KI#3

1. SMF derives the Transport Level Marking for DL packets (N3/N9 interface) based on PDU Set Importance value(s) for a given PDU Set and sends to UPF via FAR. Is this acceptable? **YES/NO**

# KI#4

1. Should 3GPP support differentiating PDUs multiplexed within a media flow comprising of both PDU Set QoS PDUs and PDUs not belonging to PDU Set and map them to PDU Set based QoS Flow and PDU based QoS Flow respectively? **YES/NO**

# KI#5

1. Does NG-RAN need dynamic change in traffic characteristics (assistance information e.g. burst size) for optimized resource scheduling? **YES/NO**
2. If so, what kind of traffic characteristics is needed for NG-RAN?
   1. Burst Size – **YES/NO**
   2. Time to next burst – **YES/NO**

# KI#7

1. Is there a need to update the conclusion for DSCP per PSI? **YES/NO**