UE
RAN
AMF
SMF
PCF
NSQ
1. NSQ is configured with MaximumUESliceAMBR from UDM/OAM
2. PDU Session Establishment Request
(S-NSSAI ‘a’)
3. Nnsq_PDUSession_DataRate_Check_Request
(S-NSSAI ‘a’, UE-ID, PDU Session ID, Session-AMBR, MFBR)
4. Compare actualUESliceAMBR with MaximumUESliceAMBR
5a. Nnsq_PDUSession_DataRate_Check_Response
(S-NSSAI ‘a’, UE-ID, PDU Session ID, Success code)
5b. Nnsq_PDUSession_DataRate_Check_Response
(S-NSSAI ‘a’, UE-ID, PDU Session ID, Cause: MaximumUESliceAMBR limit reached, deltaUESliceAMBR)
6. Adjustment of Session-AMBR, MFBR
7. PDU Session Establishment Reject
(S-NSSAI ‘a’, Cause code: Insufficient Resources for the network slice)
8. Nnsq_PDUSession_DataRate_Update_Request
(S-NSSAI ‘a’, UE-ID, PDU Session ID, Session-AMBR, MFBR, Addition)
9. NSQ updates the actualUESliceAMBR
10. Nnsq_PDUSession_DataRate_Update_Response
(S-NSSAI ‘a’,UE-ID, PDU-Session-ID,Success Code)
11. PDU Session Establishment Accept
(S-NSSAI ‘a’, Session-MBR, MFBR)