

Introduce QoS Status and Corresponding Notification Events



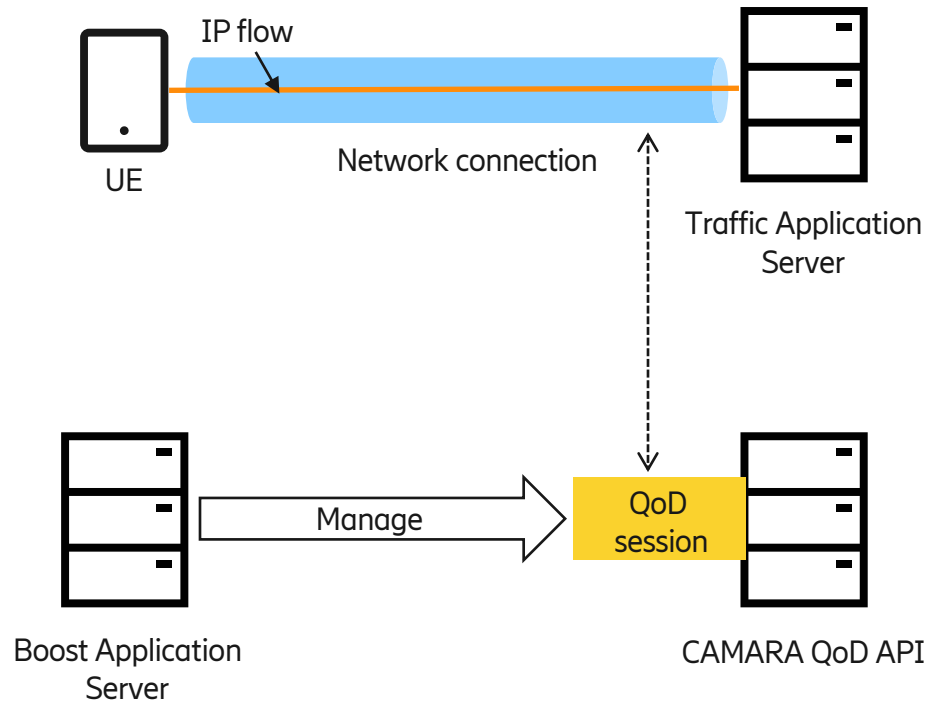
To Camara QoD Working Group

Issue



- <https://github.com/camaraproject/QualityOnDemand/issues/38>
- <https://github.com/camaraproject/QualityOnDemand/issues/46>
- Currently there is only one notification event in Camara QoD v0.8.0
 - SESSION_TERMINATED
 - No event to indicate the status about the network providing the required QoS
- 3GPP NEF AfSessionWithQos provides events to indicate the status of network providing the required QoS
 - SUCCESSFUL_RESOURCES_ALLOCATION/FAILED_RESOURCES_ALLOCATION/SESSION_TERMINATION
 - but those events/concepts are not simple and not clear enough for non-telecom developers to understand

Concepts



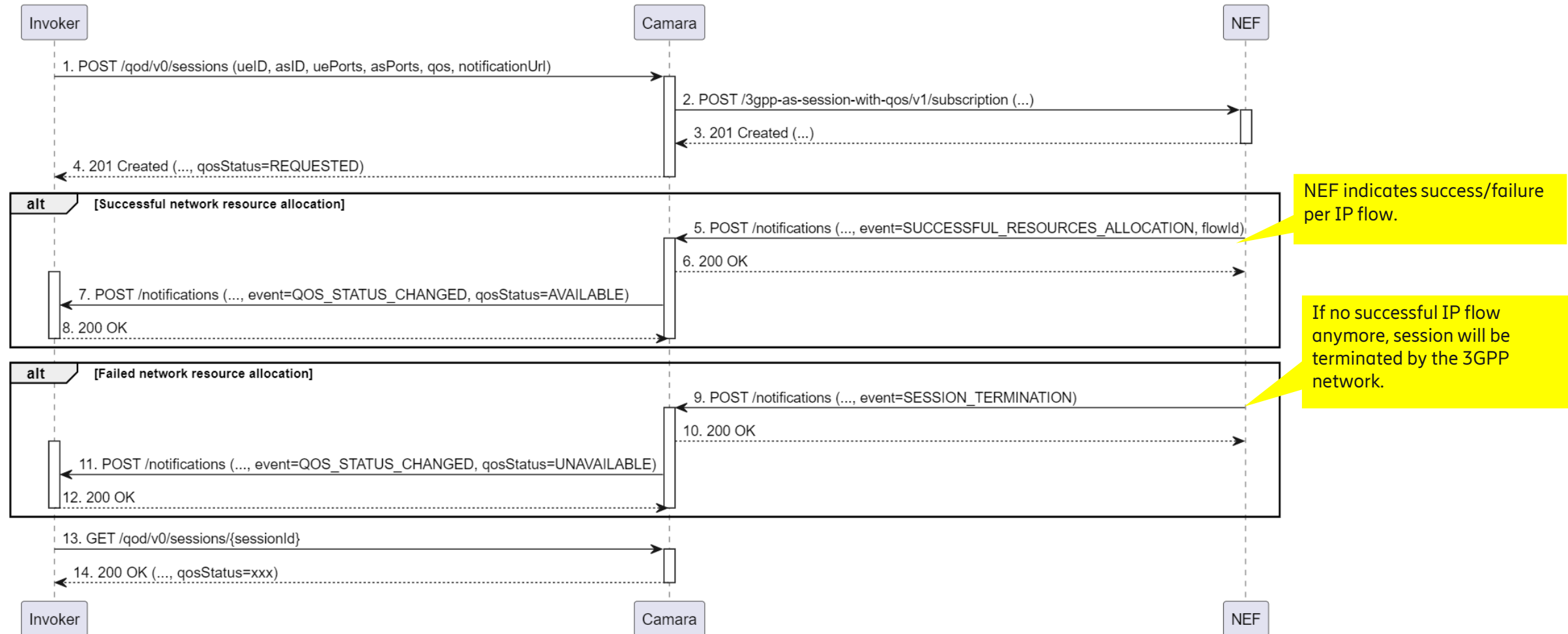
- QoD Session is a REST resource representing a **Boost Application Server** requests QoS boost for one (or more) IP flow(s) in a network connection between **UE** and **Traffic Application Server**
- There are two kind of status in the model
 - **Session status:** reflecting the status of a QoD session
 - CREATED/MODIFIED/EXPIRED/TERMINATED/DELETED
 - **QoS status:** reflecting the status about the network fulfilment for the QoS boost
 - REQUESTED/AVAILABLE/UNAVAILABLE

Proposal



- Introduce a 'qosStatus' attribute to QoD session data model 'SessionInfo'
- The enumeration of 'qosStatus'
 - REQUESTED
 - AVAILABLE
 - UNAVAILABLE
- Introduce a 'QOS_STATUS_CHANGED' notification event

Camara layer logic (only one IP flow)



State Machine of qosStatus

