

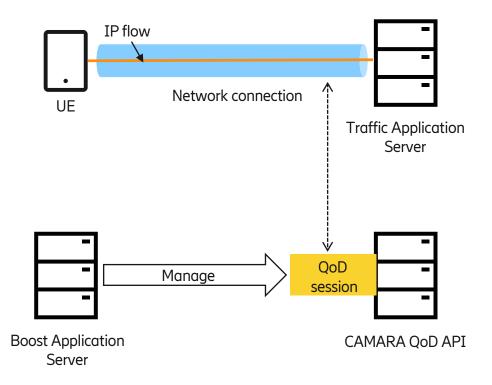


To Camara QoD Working Group



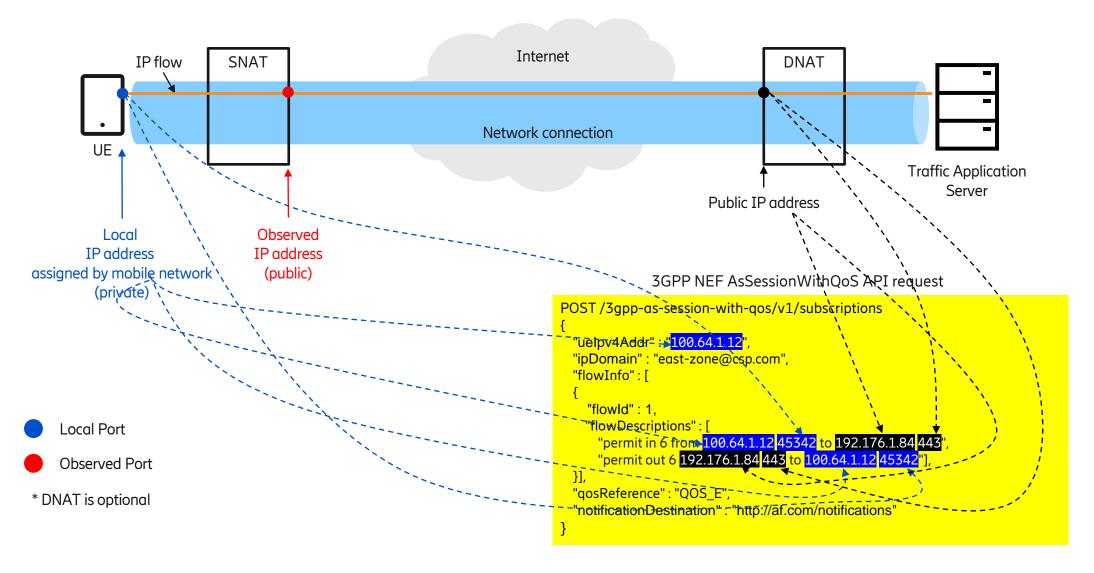
Concepts (1/3)





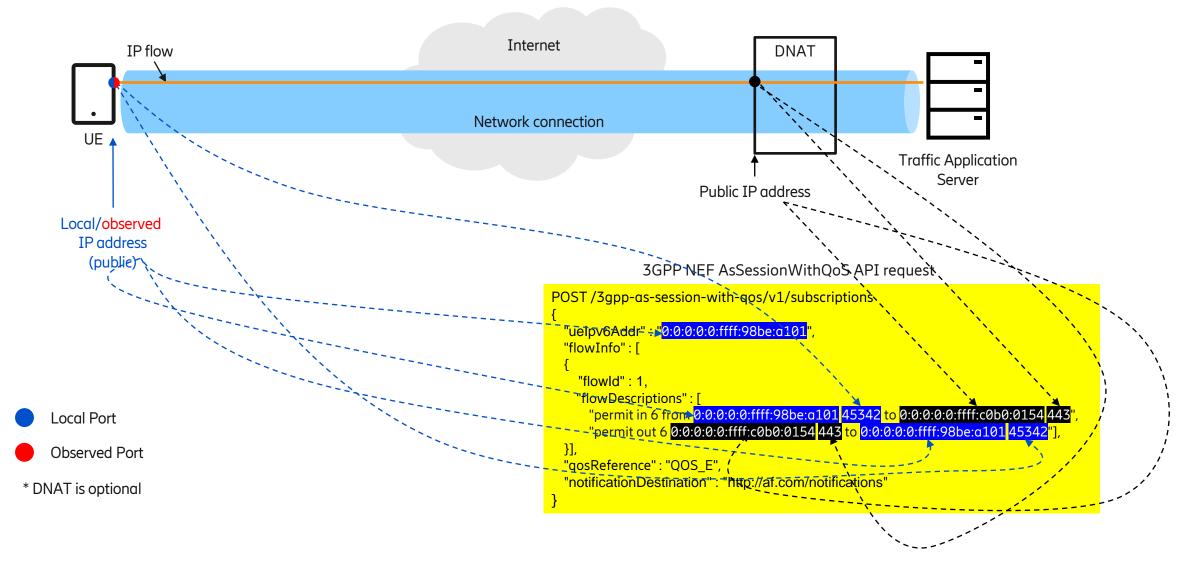
Concepts (2/3)





Concepts (3/3)

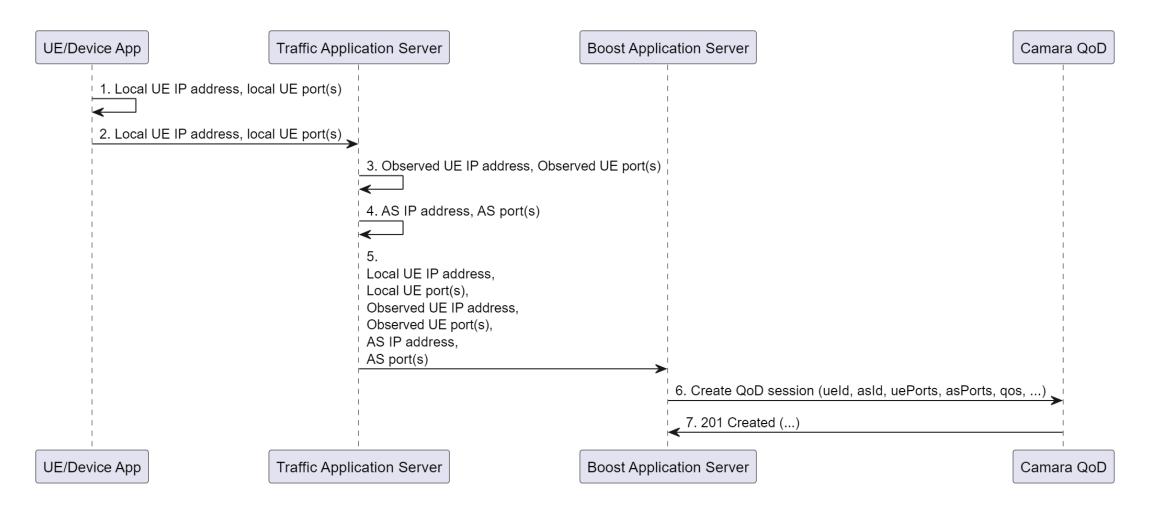




2 scenarios to collect QoD information



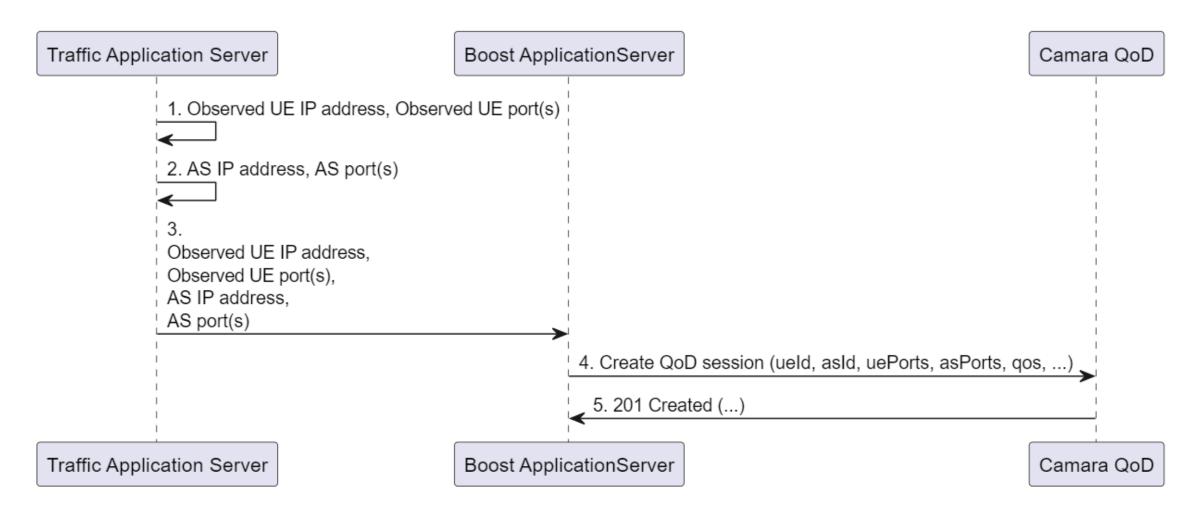
Device-assisted QoD Boost



2 scenarios to collect QoD information



Non-device-assisted QoD Boost







Where to obtain	Information	Used for
UE/Device App	Local IP address (assigned by mobile network)	Flow descriptionsPDU session identification
UE/Device App	Local UE port(s)	Flow descriptions
Traffic Application Server	Observed UE IP address (observed from Traffic Application Server)	PDU session identification
Traffic Application Server	Observed UE port(s) (observed from Traffic Application Server)	PDU session identification

- As a developer, I only need to differentiate between the IP address is assigned to the UE and the IP address observed by the Traffic Application Server (no need to differentiate between public or private, no need to understand mobile network topology)
- As a developer, I do know where the information comes from (i.e., Device App or Traffic Application Server).
 - From Device App, I obtain local UE IP address + local UE port(s)
 - From Traffic Application Server, I obtain observed UE IP address + observed UE port(s)
 - The observed UE IP address + observed UE port(s) are always together
- As a developer, I shall not know how the information will be used

Proposal (1/2)



- Ericsson agree and appreciate the technical details Vodafone initiated in <u>issue #34</u>
- Ericsson just try to propose another alternative of the API design to address this issue
 - Introduce concepts
 - Local UE IP address (assigned by mobile network)
 - Local UE ports
 - Observed UE IP address (observed from Traffic Application Server)
 - Observed UE ports (observed from Traffic Application Server)
 - Introduce 'Local UE IP address' & 'Observed UE IP address' to 'UE ID' datatype
 - Introduce a new 'UE Ports' datatype includes 'Local UE ports' and 'Observed UE ports'

Proposal (2/2)



```
UeId
 type: object
  properties
    externalId
     $ref: "#/components/schemas/ExternalId"
   msisdn
     $ref: "#/components/schemas/MSISDN"
   localIpAddr:
     oneOf:
         $ref: "#/components/schemas/Ipv4Addr'
         $ref: "#/components/schemas/Ipv6Addr"
   observedIpAddr:
     oneOf:
         $ref: "#/components/schemas/Ipv4Addr"
          $ref: "#/components/schemas/Ipv6Addr'
  description: User equipment identifier
```

