PRESENTATION

Monetizing Open Network APIs: Learning from API Success Stories

NOEL WIRZIUS

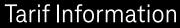
Telcos for Developers: Why we need to develop APIs together



Product Manager Deutsche Telekom

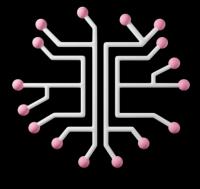
Telco Capabilities







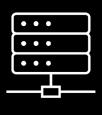
Sim-Card Information



Network Information

Telcos hold a lot of data about devices and the network, and this information is being made available to developers via APIs. APIs are simple interfaces that provide access to extract and manage data.

Quality on Demand



Best EDGE/Server



QoD in the backbone



QoD in WIFI



QoD in the mobile network

Check Device







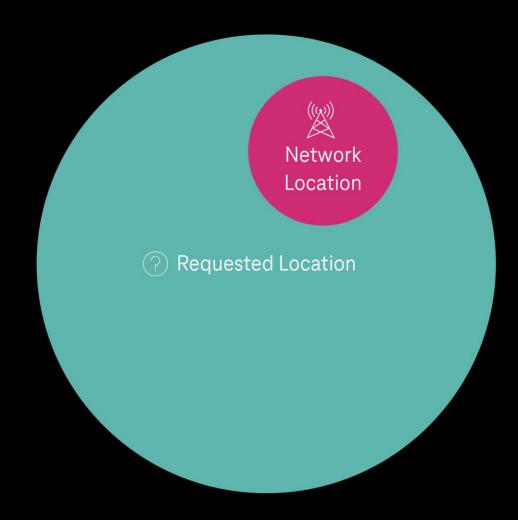




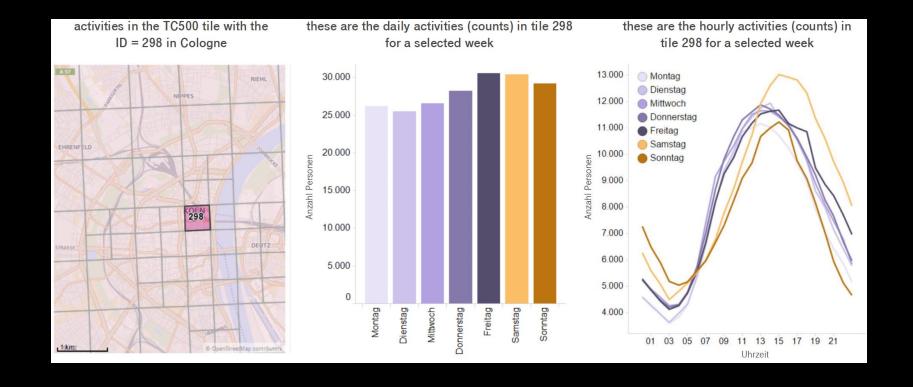


Wake Up

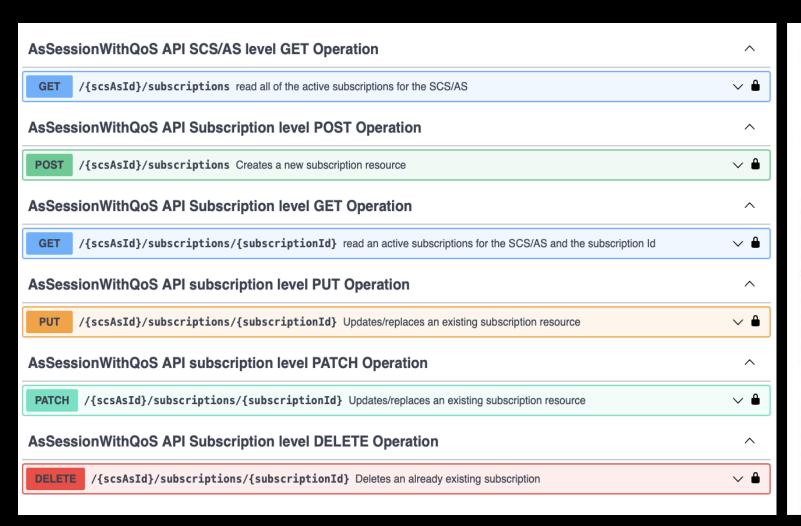
Location Verify



Motion Data

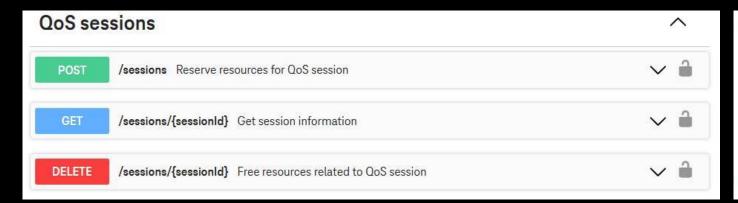


Complex Telco World nobody will understand



```
'qosReference": "string",
"altOoSReferences": |
  "string"
"disUeNotif": true,
"ueIpv4Addr": "string",
"ipDomain": "string"
"ueIpv6Addr": "string",
"macAddr": "string",
"usageThreshold": "string",
"sponsorInfo": "string",
"gosMonInfo": {
  "reqQosMonParams": [
    "string"
  "repFreqs": [
    "string"
  "repThreshDl": "string",
  "repThreshUl": "string".
  "repThreshRp": "string",
  "waitTime": "string",
  "repPeriod": "string"
"localNotifInd": true,
"tscQosReq": {
  "reqGbrDl": "string",
  "reqGbrUl": "string",
  "reqMbrDl": "string",
  "reqMbrUl": "string",
  "maxTscBurstSize": "string",
  "req5Gsdelay": "string",
  "priority": "string",
```

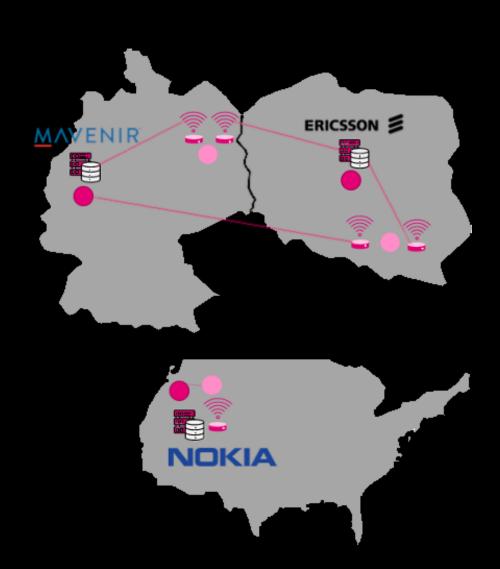
Our First Concept



```
{
  "duration": 86400,
  "ueAddr": "192.168.0.1",
  "asAddr": "192.168.0.1",
  "uePorts": "5010-5020,5021,5022",
  "asPorts": "5010-5020,5021,5022",
  "protocolIn": "TCP",
  "protocolOut": "TCP",
  "qos": "LOW_LATENCY",
  "notificationUri": "https://application-server.com/notifications",
  "notificationAuthToken": "c8974e592c2fa383d4a3960714"
}
```

Labs

- Deutsche Telekom and T Mobile PL and T Mobile US
- Builders of developer communities everywhere
- Provider of test beds
- Design & UX researchers



Massive teamwork allows us to be successful









Automated Valet Parking







Early Access Programs



CAMARA





- 77 Named Partners
- 214 (+105) companies participating in CAMARA
- 130+ regular participants in Open Steering Calls
- 625 (+624) people joined CAMARA
- Development "home" for GSMA **Open Gateway**











































































































































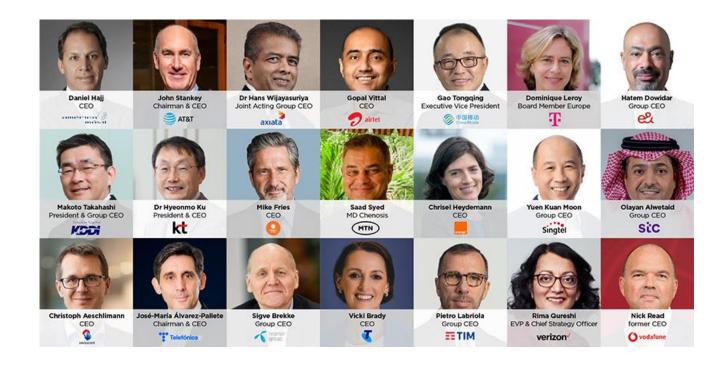




Open Gateway

Open Gateway

- Based on CAMARA
- East/West
- Service Annex
- Aggregator
- 21 Telcos



But we are not alone

- MWC Coverage of Network APIs
 - 3,374 pieces of media coverage,
 - 105 media outlets
- 18 Operators showing Network APIs
- Every major telco even looking for Network API presentations
- All the big analyst firms writing report on Network APIs















Telco Marketplace











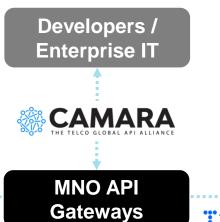








Accelerate the development of immersive technologies and services such as industrial systems, fintech, identity, smart mobility, gaming and further Web 3.0 innovation



Operator Federation & Interconnection











































Aggregation

















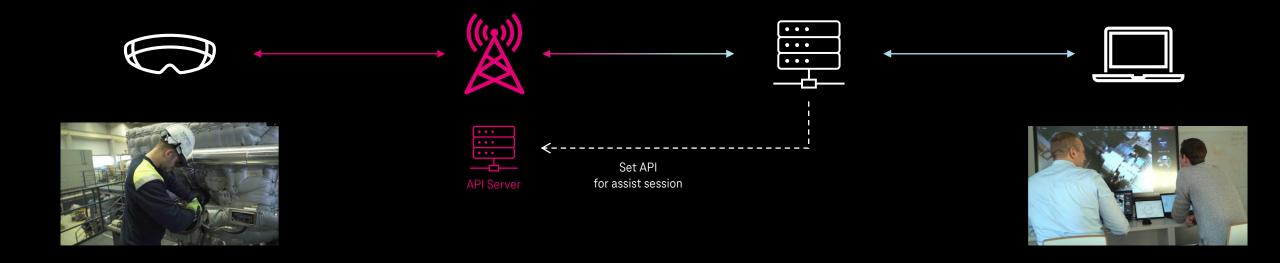








Solution





A Siemens Energy field engineer is fixing a machine and requires real time technical assistance over mobile network



DT/TMUS network assigns the IP flow a higher priority to ensure better and steadier latency



Cloud application calls DT/TMUS API to request QoS on the mobile connection.

The remote assistant server receives highquality pictures with low latency, significantly increasing service quality



Siemens Energy technical experts remotely assists the field engineer

Stay in Contact



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Product Manager Deutsche Telekom



