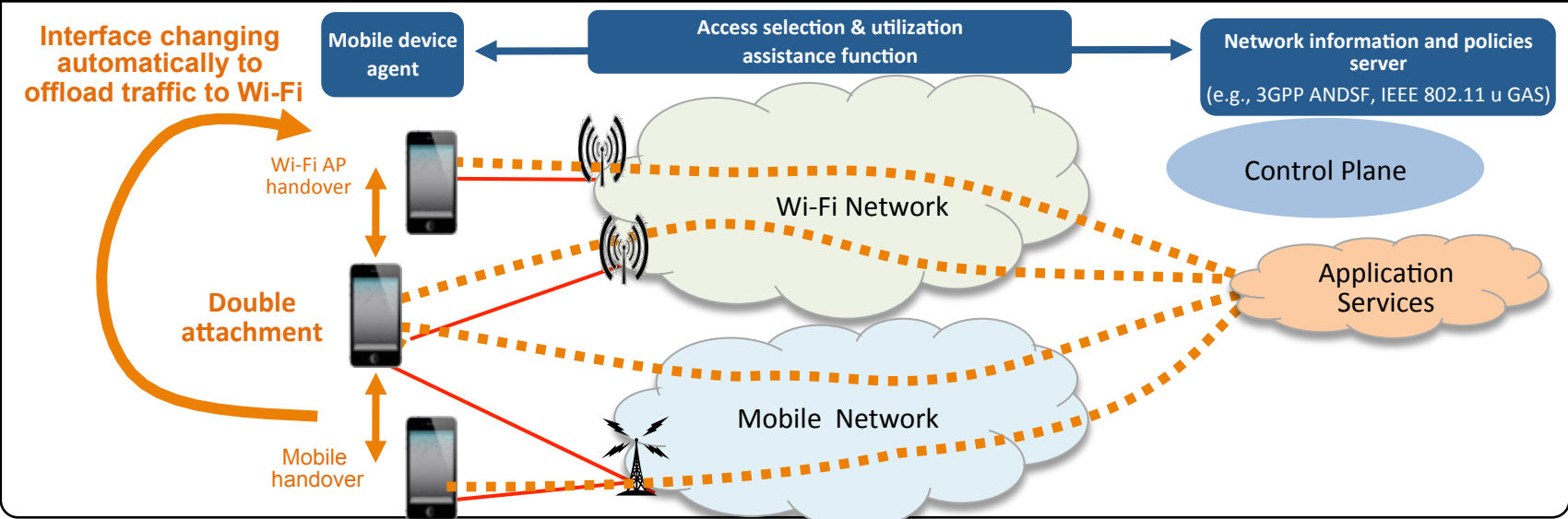


Challenges

- Current mobile networks will not be able to face the huge increase of traffic
- Wi-Fi technologies are comparably cheap! Can we take advantage of Wi-Fi offloading for increasing mobile network capacity in specific areas?
- Enhance Wi-Fi and Mobile networks cooperation by providing double attachment and mobility features to mobile devices

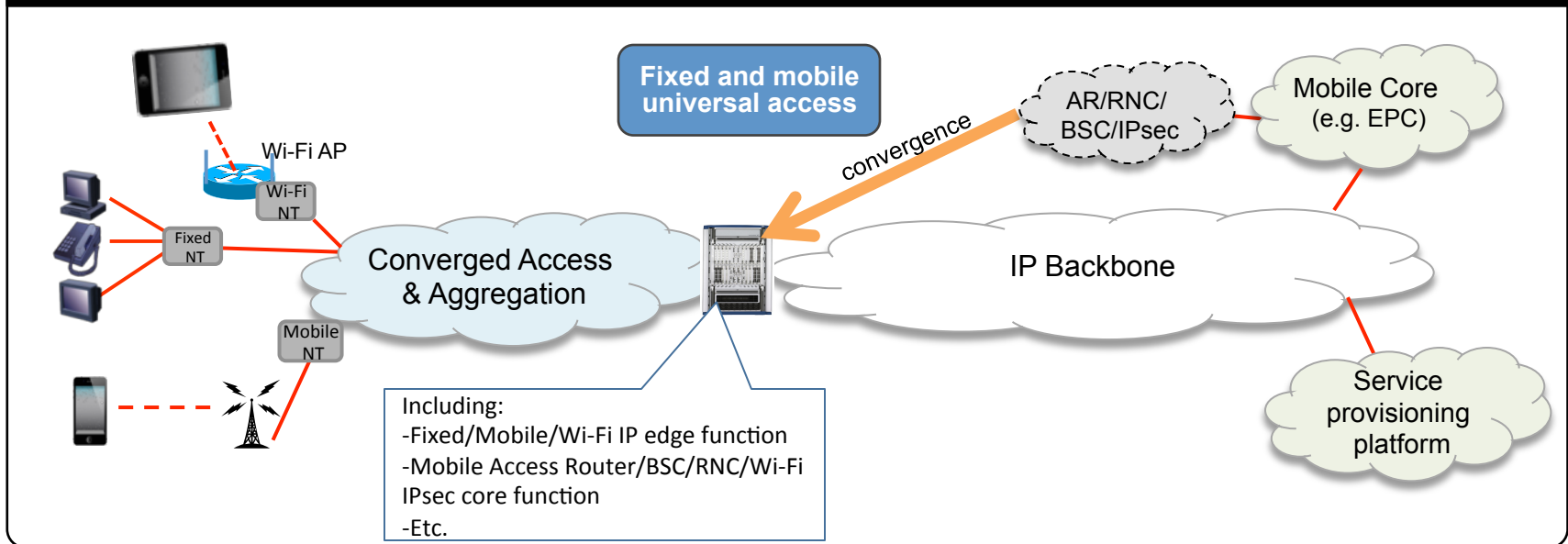
Unified Wireless Access Network Architecture



Challenges

- Reduce amount and plurality of network equipment for fixed and mobile networks
- Simplification of network architecture by using a universal access gateway including fixed line intelligence, Wi-Fi hotspot controller functionality, and mobile baseband processing (NG-POP flavor)
- Content delivery optimization based on access to all end user connectivity's

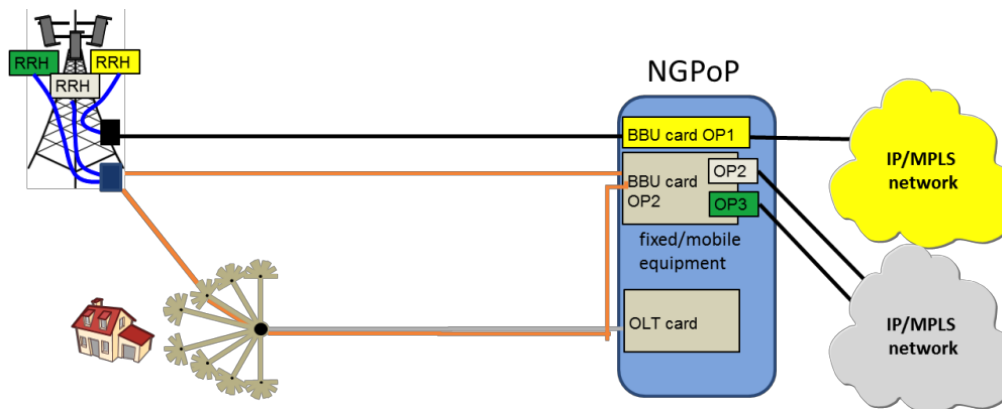
Fixed and mobile universal access



Challenges

- Mutualization of locations (NG-POP), fibre infrastructure, ...
- Usage of common technologies up to integration of fixed and mobile access equipment
- Availability of performance monitoring and management information across different operators and vendors to ensure QoS & QoE

Multi-operator / multi vendor environment



Simplification of network structure and enabling interoperability

- OP1** Mobile operator sharing NG-POP and tower of OP2 but using its own equipment
- OP2** OP2 provides converged network to the other operators and hosts co-location point at NGPOP and tower
- OP3** OP3 uses the co-location points of OP2 and also the FMC network resources and functions of OP2