Stateless user-plane architecture for virtualized EPC (vEPC)


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Splitting Control and User Plane

Control-Plane
- RAN
- Core Backbone NW
- vEPC

User-plane
- No tunnel (GTP/IP-in-IP)
- Simply Routing

"Requirements and use cases for separating control and user planes in mobile network architectures"
draft-wakikawa-req-mobile-cp-separation-00.txt
Simple Configuration

Mobility Management

Core NW

Router

Internet

Access NW (LTE)

Access NW (WiFi)

anycast address

Edge Router
Stateless user-plane architecture for Mobile

1. Signaling (ex. PBU/PBA)

2. BGP Update to setup route path per MN

3. BGP route propagation

Access NW (LTE)

Access NW (WiFi)

Core NW

anycast address

Internet

We almost have all components in IETF