SDN based DMM


Hui Deng
Background and Motivation

• There are ongoing research work and discussions of using SDN/Open Flow in cellular network[1][2].

• Virtualization of mobile core network introduces a new deployment model. And that leads to new requirement of mobility management.

Control Plane is centralized and deployed in cloud

Data plane is preferred to be distributed

Deployment Model of Mobile Core Network Virtualization
Example of SDN based DMM Solution

• The mobile node moves to a new attach point without changing its IP address.
• The first hop switch in the data plane detects the mobility event of the mobile node.
• It notify the controller/mobility management function about this mobility event in a timely manner.
• A new routing path is set for the mobile node by the controller/mobility management function in a timely manner.
• Session continuity is maintained since the mobile node’s IP address is not changed.
Next Step

- Interest from the group?
- In the re-charter scope?