Use cases for MAP-T

draft-maglione-softwire-map-t-scenarios-02

V. Kuarsingh - Rogers Communications

E. Mallette - Bright House Networks

R. Maglione, W. Dec – Cisco Systems

Main changes -02

- Generalized the text from BNG to Edge device/ Edge network:
  - Rationale is to cover not only BNG for DSL environments, but also CMTS for cable networks, OLT for PON scenarios, PDN Gateway for mobile networks
- Modified the structure of the document:
  - Section 2: existing section about "Operational Service Policy use cases"
    - New sub-section 2.2 about "Device Configuration / DOCSIS"
  - Section 3: new section about "Technological Considerations ", describing issues related to packet overhead and MTU

Challenges with MTU/overhead

- Jumbo Frame support in the Access Network:
  - Point-to-Multipoint connectivity model is common across access network - DOCSIS, EPON, GPON, etc.
  - Point-to-Multipoint networks (legacy products) have limited support for jumbo frames
  - Tools like MTU discovery or TCP MSS are not enough
- Overhead and Service Level Agreement (SLA)
  - adding new overhead introduces challenges for operators in being able to meet the SLA
  - Over-provisioning or "not guaranteed" bandwidth are sub-optimal approaches
  - Reduction in effective capacity on the wire yields higher cost for the operator
- In summary: less overhead is better for the operators

Next Steps

- Adopt the draft as Working Group item?

Questions?

Thanks!