

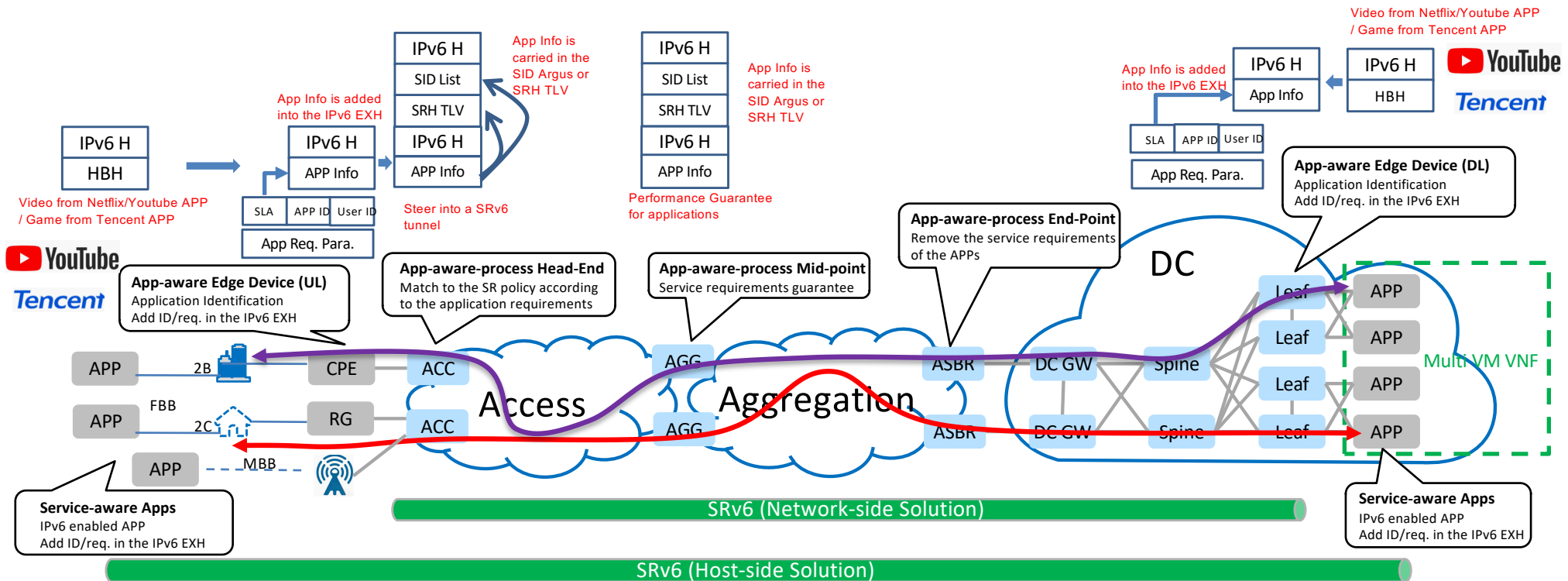
# Application-aware IPv6 Networking (APN6)

draft-li-6man-app-aware-ipv6-network-00

Zhenbin Li, Shuping Peng (Huawei)  
Chongfeng Xie, Cong Li (China Telecom)

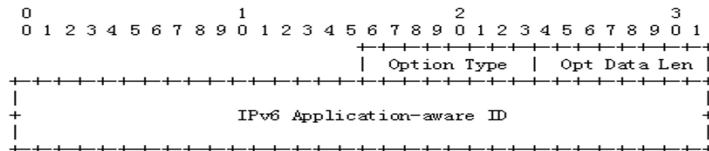
# Application-aware IPv6 Networking

- Make use of IPv6 extensions header to convey the service requirements along with the packet to the network
- To facilitate the service deployment and network resource adjustment to guarantee SLA for applications

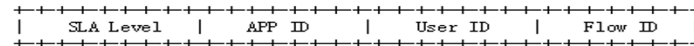


# Application-aware ID Option/Service-Para Option

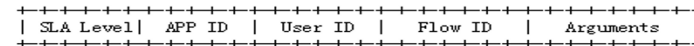
- Carrying application ID, user ID, flow ID, and service requirements



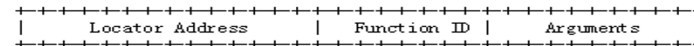
**Structure I:** Any combination of SLA level (e.g. Gold, Silver, Bronze), APP ID, and/or user ID, and/or Flow ID



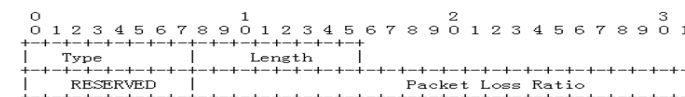
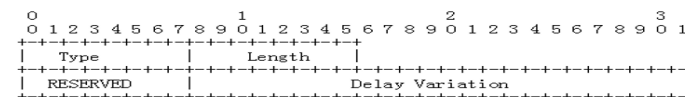
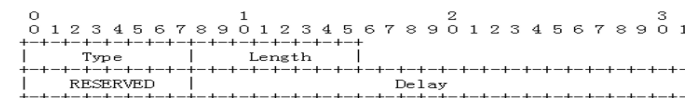
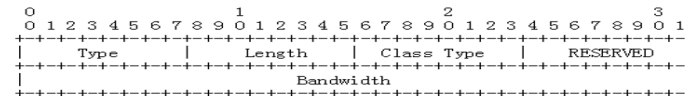
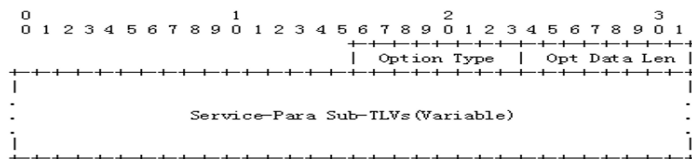
**Structure II:** Any combination of SLA level (e.g. Gold, Silver, Bronze), APP ID, and/or user ID, and/or Flow ID, plus the arguments which indicating the service requirements of the identified application



**Structure III:** An SRv6 SID, with its arguments as the information specified in Structure II



- Carrying the service requirement parameter



# Summary of APN6 Side Meeting

## Agenda

- Thursday Morning @Notre Dame
- Attendee: 50+
- Discussion points:
  - App-aware Info conveying
  - App-aware services
  - Security issues/boundary
  - Application identification
  - Policy enforcement
  - Relationship with the PANRG
- Investigation and Consensus: There is a value of the work
- Next Step:
  - Setup Mailing list to continue discussions
  - <https://github.com/shupingpeng/IETF105-Side-Meeting-APN6>

1. Admin (Chairs) [5 : 5/75]
2. Problem Statement and Requirements (Zhenbin Li) [10 : 15/75]
3. Application-aware Information Conveying
  - a) Framework of App-aware IPv6 Networking (Shuping Peng) [10 : 25/75]
  - b) Firewall and Service Tickets (Tom Herbert) [10 : 35/75]
  - c) SRH Metadata for Simplified Firewall (Jim Guichard) [5 : 40/75]
4. App-aware Services
  - a) IPv6-based DetNet (Yongqing Zhu) [5 : 45/75]
  - b) SRV6 Path Segment (Fengwei Qin) [5 : 50/75]
  - c) IPv6-based IFIT (In-situ Flow Information Telemetry) (Haoyu Song) [5 : 55/75]
5. Shaping Our Discussion (Chairs and Room) [15 : 70/75]
6. Wrap Up (Chairs) [5 : 75/75]

