YANG Data Model for ARP

RTGWG IETF 100

draft-ding-netmod-arp-yang-model-00

Xiaojian Ding
Feng Zheng
Huawei Technologies
Problems and Possible Solutions

• Problem
  – Different vendor has its own private YANG module to implement ARP function
  – Service provide need many ARP YANG modules to manipulate massive devices

• Solution: extract some common properties that need to be configured
  – unique identifier for an ARP configuration function. E.g. aging (timeout, expire-time), interval (detect-interval, arp-interval)
  – common properties. E.g. Static ARP Entry, dynamic ARP entries, proxy ARP
Configuration features

- Static ARP Entry
- Dynamic learning of ARP Entries
- Proxy ARP
- Gratuitous ARP
ARP configuration

- arp-static-tables
- expire-time
- arp-learn
- arp-proxy
- arp-prob-grouping
- arp-gratuitous-grouping
- arp-if-limits
Statistic features

- arp table
- arp statistics
  - global statistics
  - local statistics
Next Steps

• Align with other models
• Solicit comments
• WG consensus