YANG Data Model for ARP

draft-ietf-rtgwg-arp-yang-model-03

Guangying Zheng, Bo Wu(Presenting)   Huawei
Rob Wilton Cisco
Xiaojian Ding
Recap – What does this ARP model cover

- This draft covers the extra bits of ARP implementations that many vendors support, but ietf-ip doesn’t cover, e.g.
  - Proxy ARP, Grat ARP configuration, etc.
  - ARP statistics

```plaintext
module: ietf-arp
  +--rw arp
    +--rw dynamic-learning?  boolean
    augment /if:interfaces/if:interface/ip:ipv4:
    +--rw arp
      +--rw expiry-time?  uint32
    +--rw dynamic-learning?  boolean
    +--rw proxy-arp
      | +--rw mode?  enumeration
    +--rw gratuitous-arp
      | +--rw enable?  boolean
      | +--rw interval?  uint32
    +--ro statistics
      +--ro in-requests-pkts?  yang:counter32
      +--ro in-replies-pkts?  yang:counter32
      +--ro in-gratuitous-pkts?  yang:counter32
      +--ro out-requests-pkts?  yang:counter32
      +--ro out-replies-pkts?  yang:counter32
      +--ro out-gratuitous-pkts?  yang:counter32
      augment /if:interfaces/if:interface/ip:ipv4/ip:neighbor:
      +--ro remaining-expiry-time?  uint32
```
Changes since -02 (IETF 104)

• Editorial improvements to YANG module, security sections
• Based on 104 WG discussion, removed ARP specific discontinuity timestamp added in -02 version, and added description to refer to the interface counters discontinuity counter
• Added proxy ARP and gratuitous ARP example
• Removed ARP dynamic learning example
Next Steps

• WGLC