Yang Model for GRE

draft-zheng-intarea-gre-yang-00

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Motivation

- Defines the data model for GRE configuration and management
- YANG represents a very popular choice for configuration and management
What’s addressed in rev-00

- Defines Yang data model based on RFC 2784
- Defines Yang data model based on RFC 2890 (Key and Sequence Number)
- Defines Yang data model based on RFC 7676 (IPv6) and RFC 7588 (MTU)
What is not addressed in rev-00

- Vendor proprietary features (not in scope, could be supported by augment)
- State information (will be added in rev-01)…
Yang Model

- Support delivery protocol configuration
- Support Path MTU enable/disable
- Support fragmentation enable/disable
- Support checksum enable/disable
- Support key enable/disable and key value configuration
- Support sequence number enable/disable
module: ietf-gre
   +--rw gre-tunnel
      +--rw gre-tunnel* [tunnel-name]
         +--rw tunnel-name string
         +--rw (delivery-protocol)?
            |    +--:(ipv4)
            |      +--rw source-ipv4-address? inet:ipv4-address
            |      +--rw dest-ipv4-address? inet:ipv4-address
            |    +--:(ipv6)
            |      +--rw source-ipv6-address? inet:ipv6-address
            |      +--rw dest-ipv6-address? inet:ipv6-address
      +--rw pmtd-enable? boolean
      +--rw fragmentation-enable? boolean
      +--rw checksum-enable? boolean
      +--rw key-enable? boolean
      +--rw key? uint32
      +--rw sequence-number-enable? boolean
Next Steps

- Get comments and seek contributions & collaborations
- Eventual WG adoption