

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

Data Hierarchy

```
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 pmtud-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