

YANG Model for Automatic Multicast Tunneling

draft-liu-mboned-amt-yang-02

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Draft Status

The YANG model provides the methods for configuring and managing AMT Protocol.

- Version 01 has been presented at the IETF-115 meeting
- Version 02
 - Added AMT statistics items

Updates in version 02

- Statistics of the specified AMT tunnels on AMT relay.

```
augment /rt:routing/rt:control-plane-protocols
```

```
  +--rw amt!
```

```
    +--rw relay
```

```
      +--ro amt-tunnels
```

```
        +--ro amt-tunnel* [gateway-address gateway-port]
```

```
          .....
```

```
            +--ro multicast-group-num          uint32
```

```
            +--ro request-message-count        uint64
```

```
            +--ro membership-query-message-count uint64
```

```
            +--ro membership-update-message-count uint64
```

Updates in version 02

- Statistics of messages received and sent on AMT relay.

augment /rt:routing/rt:control-plane-protocols

+--rw amt!

+--rw relay

+--ro amtrelay-message-statistics

+--ro amtrelay-received-message-statistics

+--ro relay-discovery uint64

+--ro request uint64

+--ro membership-update uint64

+--ro teardown uint64

+--ro amtrelay-sent-message-statistics

+--ro relay-advertisement uint64

+--ro membership-query uint64

Updates in version 02

- Error message statistics on AMT relay.

augment /rt:routing/rt:control-plane-protocols

+--rw amt!

+--rw relay

+--ro amtrelay-message-statistics

+--ro amtrelay-error-message-statistics

+--ro incomplete-packet	uint64
+--ro invalid-mac	uint64
+--ro unexpected-type	uint64
+--ro invalid-relay-discovery-address	uint64
+--ro invalid-membership-request-address	uint64
+--ro invalid-membership-update-address	uint64
+--ro incomplete-relay-discovery-messages	uint64
+--ro incomplete-membership-request-messages	uint64
+--ro incomplete-membership-update-messages	uint64
+--ro no-active-gateway	uint64
+--ro invalid-inner-header-checksum	uint64
+--ro gateways-timed-out	uint64

Updates in version 02

- Message statistics of the specified pseudo interface on AMT Gateway.

```
augment /rt:routing/rt:control-plane-protocols
```

```
  +--rw amt
```

```
    +--rw gateway
```

```
      +--rw pseudo-interfaces
```

```
        +--rw pseudo-interface* [ifIndex]
```

```
          .....
```

```
            +--ro relay-discovery-message-count      uint64
```

```
            +--ro relay-advertisement-message-count  uint64
```

```
            +--ro request-message-count               uint64
```

```
            +--ro membership-query-message-count      uint64
```

```
            +--ro membership-update-message-count     uint64
```

Updates in version 02

- Message statistics on AMT Gateway.

augment /rt:routing/rt:control-plane-protocols

+--rw amt

+--rw gateway

+--ro amtgateway-message-statistics

+--ro amtgateway-received-message-statistics

+--ro relay-advertisement uint64

+--ro membership-query uint64

+--ro amtgateway-sent-message-statistics

+--ro relay-discovery uint64

+--ro request uint64

+--ro membership-update uint64

+--ro teardown uint64

Next Steps

- Welcome questions and comments
- Ask for WG adoption