

BGP Yang Model

draft-ietf-idr-bgp-model

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Status

- Support added for
 - Routing Management Module (RFC 8349)
 - Routing Policy Module (draft-ietf-rtgwg-policy-model)
 - RIB
 - Feature statement for 'ttl-security' (RFC 5082)
 - Feature statement for 'bfd'
 - BFD configuration for liveness check

Issue #1

- Action statement for 'clear bgp <blah>'
- There are no statistics in the module
- Clear routes?
 - Global?
 - Per address-family?

Issue #2

- Notifications
 - Route updates?

Issue #6

- Route metadata for LOC-RIB

```
| +--ro loc-rib
| | +--ro routes
| |   +--ro route* [prefix origin path-id]
| |     +--ro prefix
| |       | inet:ipv4-prefix
| |     +--ro origin      union
| |     +--ro path-id     uint32
| |     +--ro attr-index? leafref
| |     +--ro community-index? leafref
| |     +--ro ext-community-index? leafref
| |     +--ro last-modified?
| |       | types:timeticks
| |     +--ro valid-route? boolean
| |     +--ro invalid-reason? identityref
| |     +--ro unknown-attributes
| |       | +--ro unknown-attribute* [attr-type]
| |         | +--ro optional? boolean
| |         | +--ro transitive? boolean
| |         | +--ro partial? boolean
| |         | +--ro extended? boolean
| |         | +--ro attr-type uint8
| |         | +--ro attr-len? uint16
| |         | +--ro attr-value? binary
| |     +--ro reject-reason? union
| +--ro neighbors
```

Issue #7

- BGP Standard Community Type

```
type union {  
    type uint32 {  
        // per RFC 1997, 0x00000000 - 0x0000FFFF and 0xFFFF0000 -  
        // 0xFFFFFFFF are reserved  
        range "65536..4294901759"; // 0x00010000..0xFFFEFFFF  
    }  
    type string {  
        pattern '([0-9]+:[0-9]+)';  
    }  
}
```

- BGP Extended Community Types
 - Check draft

Issue #8-17

- Placeholder for specific configuration that are empty today
 - IPv4 Unicast
 - IPv6 Unicast
 - IPv4 Labeled Unicast
 - IPv6 Labeled Unicast
 - IPv4 Unicast L3VPN
 - IPv6 Unicast L3VPN
 - IPv4 Multicast L3VPN
 - IPv6 Multicast L3VPN
 - Signaled VPLS
 - EVPN

Feedback and questions

