

Temp- BGP Yang

1. Yang Tree

```
module: frr-bgp
augment /frr-rt:routing/frr-rt:control-plane-protocols/frr-rt:control-plane-protocol:
  +-rw bgp
    +-rw bgp
      +-rw global!
        |  +-rw local_as                      inet:as-number
        |  +-rw instance-type                 bgp-instance-type
        |  +-rw router-id?                   yang:dotted-quad
        |  +-rw confederation
        |    |  +-rw identifier?      inet:as-number
        |    |  +-rw member-as*       inet:as-number
        |  +-rw med-config
        |    |  +-rw enable-med?      boolean
        |    |  +-rw max-med-admin?   uint32
        |    |  +-rw max-med-onstart-up-time?  uint32
        |    |  +-rw max-med-onstart-up-value?  uint32
        |  +-rw route-reflector
        |    |  +-rw route-reflector-cluster-id?  bt:rr-cluster-id-type
        |    |  +-rw no-client-reflect?      boolean
        |    |  +-rw allow-outbound-policy?   boolean
        |  +-rw route-selection-options
        |    |  +-rw always-compare-med?    boolean
        |    |  +-rw deterministic-med?    boolean
        |    |  +-rw confed-med?          boolean
        |    |  +-rw missing-as-worst-med? boolean
        |    |  +-rw aspath-confed?        boolean
        |    |  +-rw ignore-as-path-length? boolean
        |    |  +-rw external-compare-router-id?  boolean
        |    |  +-rw allow-multiple-as?     boolean
        |    |  +-rw multi-path-as-set?    boolean
        |  +-rw global-neighbor-config
        |    |  +-rw dynamic-neighbors-limit?  uint32
        |    |  +-rw log-neighbor-changes?    boolean
        |    |  +-rw packet-quanta-config
        |      |  +-rw wpkt-quanta?      uint32
        |      |  +-rw rpkt-quanta?      uint32
        |  +-rw graceful-restart
        |    |  +-rw enabled?          boolean
        |    |  +-rw graceful-restart-disable?  boolean
        |    |  +-rw preserve_fw_entry?    boolean
        |    |  +-rw restart-time?       uint16
        |    |  +-rw stale-routes-time?   uint16
        |    |  +-rw selection-deferral-time?  uint16
        |    |  +-rw rib-stale-time?     uint16
        |  +-rw global-config-timers
        |    |  +-rw rmap-delay-time?    uint16
        |    |  +-rw update-delay-time?  uint16
        |    |  +-rw establish-wait-time?  uint16
        |    |  +-rw connect-retry-interval?  uint16
        |    |  +-rw hold-time?         uint16
        |    |  +-rw keepalive?          uint16
        |  +-rw no-ipv4-unicast-active?    boolean
        |  +-rw ebgp-multihop-connected-route-check?  boolean
        |  +-rw no-fast-external-failover?    boolean
        |  +-rw local-pref?                  uint32
        |  +-rw default-shutdown?          boolean
        |  +-rw ebgp-requires-policy?      boolean
        |  +-rw subgroup-pkt-queue-size?   uint32
        |  +-rw import-check?            boolean
        |  +-rw graceful-shutdown
        |    |  +-rw enable?      boolean
        |  +-rw afi-safis
        |    |  +-rw afi-safi* [afi-safi-name]
```

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+--rw afi-safi-name           identityref
+--rw ipv4-unicast
|  +--rw static-route* [prefix]
|  |  +--rw prefix          inet:ipv4-prefix
|  |  +--rw label-index?   rt-types:mpls-label
|  |  +--rw backdoor?       boolean
|  +--rw aggregate-route* [prefix]
|  |  +--rw prefix          inet:ipv4-prefix
|  |  +--rw as-set?         boolean
|  |  +--rw summary-only?  boolean
|  +--rw admin-distance-route* [prefix]
|  |  +--rw prefix          inet:ipv4-prefix
|  |  +--rw distance?      uint8
+--rw route-flap-damping
|  +--rw enable?            boolean
|  +--rw reach-decay?      uint8
|  +--rw reuse-above?      uint16
|  +--rw suppress-above?  uint16
|  +--rw unreach-decay?    uint8
+--rw use-multiple-paths
|  +--rw ebgp
|  |  +--rw maximum-paths?  uint32
|  +--rw ibgp
|  |  +--rw maximum-paths?  uint32
|  |  +--rw cluster-length-list?  boolean
+--rw redistribution-list* [route-type route-instance]
|  +--rw route-type        frr-rt-type:frr-route-types
|  +--rw route-instance    uint16
|  +--rw metric?          uint32
+--rw distance
|  +--rw external?        uint8
|  +--rw internal?        uint8
|  +--rw local?           uint8
+--rw ipv6-unicast
|  +--rw static-route* [prefix]
|  |  +--rw prefix          inet:ipv6-prefix
|  |  +--rw label-index?   rt-types:mpls-label
|  |  +--rw backdoor?       boolean
|  +--rw aggregate-route* [prefix]
|  |  +--rw prefix          inet:ipv4-prefix
|  |  +--rw as-set?         boolean
|  |  +--rw summary-only?  boolean
|  +--rw admin-distance-route* [prefix]
|  |  +--rw prefix          inet:ipv6-prefix
|  |  +--rw distance?      uint8
+--rw use-multiple-paths
|  +--rw ebgp
|  |  +--rw maximum-paths?  uint32
|  +--rw ibgp
|  |  +--rw maximum-paths?  uint32
|  |  +--rw cluster-length-list?  boolean
+--rw redistribution-list* [route-type route-instance]
|  +--rw route-type        frr-rt-type:frr-route-types
|  +--rw route-instance    uint16
|  +--rw metric?          uint32
+--rw distance
|  +--rw external?        uint8
|  +--rw internal?        uint8
|  +--rw local?           uint8
+--rw ipv4-labeled-unicast
+--rw ipv6-labeled-unicast
|  +--rw use-multiple-paths
|  +--rw ebgp
|  |  +--rw maximum-paths?  uint32
|  +--rw ibgp
|  |  +--rw maximum-paths?  uint32
|  |  +--rw cluster-length-list?  boolean
+--rw l3vpn-ipv4-unicast
+--rw l3vpn-ipv6-unicast
+--rw l3vpn-ipv4-multicast
+--rw l3vpn-ipv6-multicast

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    +-rw l2vpn-vpls
    +-rw l2vpn-evpn
    +-rw ipv4-multicast
    |   +-rw static-route* [prefix]
    |   |   +-rw prefix          rt-types:ipv4-multicast-group-address
    |   |   +-rw label-index?   rt-types:mpls-label
    |   |   +-rw backdoor?      boolean
    |   +-rw aggregate-route* [prefix]
    |   |   +-rw prefix          rt-types:ipv4-multicast-group-address
    |   |   +-rw as-set?         boolean
    |   |   +-rw summary-only?   boolean
    |   +-rw admin-distance-route* [prefix]
    |   |   +-rw prefix          rt-types:ipv4-multicast-group-address
    +-rw distance
    |   +-rw external?        uint8
    |   +-rw internal?        uint8
    |   +-rw local?            uint8
    +-rw route-flap-damping
    |   +-rw enable?           boolean
    |   +-rw reach-decay?      uint8
    |   +-rw reuse-above?      uint16
    |   +-rw suppress-above?   uint16
    |   +-rw unreach-decay?    uint8
    +-rw ipv6-multicast
    |   +-rw static-route* [prefix]
    |   |   +-rw prefix          rt-types:ipv6-multicast-group-address
    |   |   +-rw label-index?   rt-types:mpls-label
    |   |   +-rw backdoor?      boolean
    |   +-rw aggregate-route* [prefix]
    |   |   +-rw prefix          rt-types:ipv6-multicast-group-address
    |   |   +-rw as-set?         boolean
    |   |   +-rw summary-only?   boolean
    |   +-rw admin-distance-route* [prefix]
    |   |   +-rw prefix          rt-types:ipv6-multicast-group-address
    +-rw distance
    |   +-rw external?        uint8
    |   +-rw internal?        uint8
    |   +-rw local?            uint8
    +-rw ipv4-flowspec
    |   +-rw flow-spec-config
    |   |   +-rw interface?     frr-interface:interface-ref
    +-rw ipv6-flowspec

---rw neighbors
    +-rw neighbor* [remote-address]
    |   +-rw remote-address      inet:ip-address
    |   +-rw local-interface?   frr-interface:interface-ref
    |   +-rw local-port?        inet:port-number
    |   +-rw peer-group?        -> ../../..../peer-groups/peer-group/peer-group-name
    |   +-rw neighbor-group-config
    |       +-rw password?      string
    |       +-rw ttl-security?  uint8
    |       +-rw solo?          boolean
    |       +-rw enforce-first-as? boolean
    |       +-rw description?   string
    |       +-rw passive-mode?  boolean
    |       +-rw capability-options
    |           +-rw dynamic-capability?  boolean
    |           +-rw strict-capability? boolean
    |           +-rw extended-nexthop-capability? boolean
    |           +-rw no-capability-negotiate? boolean
    |           +-rw override-capability?  boolean
    |       +-rw update-source
    |           +-rw (source)?
    |               +--:(ip-based)
    |                   |   +-rw ip?          inet:ip-address
    |                   +--:(interface-based)
    |                       +-rw interface?   frr-interface:interface-ref
    |       +-rw neighbor-remote-as
    |           +-rw remote-as-type  as-type
    |           +-rw remote-as?     inet:as-number
    +-rw ebgp-multipath

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|   |   |   +-rw enabled?          boolean
|   |   |   +-rw multihop-ttl?    uint8
|   |   +-rw local-as
|   |   |   +-rw local-as        inet:as-number
|   |   |   +-rw no-prepend?      boolean
|   |   |   +-rw no-replace-as?  boolean
|   |   +-rw bfd-options
|   |   |   +-rw enable          boolean
|   |   |   +-rw detect-multiplier?  uint8
|   |   |   +-rw required-min-rx?  uint16
|   |   |   +-rw desired-min-tx?  uint16
|   |   |   +-rw check-cp-failure? boolean
|   |   +-rw admin-shutdown
|   |   |   +-rw enable          boolean
|   |   |   +-rw message         string
|   |   +-rw graceful-restart
|   |   |   +-rw (mode)?
|   |   |   |   +-:(graceful-restart-mode)
|   |   |   |   |   +-rw enable?          boolean
|   |   |   |   |   +-:(graceful-restart-helper-mode)
|   |   |   |   |   |   +-rw graceful-restart-helper? boolean
|   |   |   |   |   +-:(graceful-restart-disable-mode)
|   |   |   |   |   |   +-rw graceful-restart-disable? boolean
|   |   +-rw afi-safis
|   |   |   +-rw afi-safi* [afi-safi-name]
|   |   |   |   +-rw afi-safi-name      identityref
|   |   |   |   +-rw enabled?          boolean
|   |   |   +-rw ipv4-unicast
|   |   |   |   +-rw add-paths
|   |   |   |   |   +-rw path-type?    add-path-type
|   |   |   |   +-rw as-path-options
|   |   |   |   |   +-rw (allowas-in)?
|   |   |   |   |   |   +-:(occurrence-based)
|   |   |   |   |   |   |   +-rw allow-own-as?      uint8
|   |   |   |   |   |   +-:(origin-based)
|   |   |   |   |   |   |   +-rw allow-own-origin-as? boolean
|   |   |   |   |   +-rw replace-peer-as?  boolean
|   |   |   +-rw default-originate-options
|   |   |   |   +-rw send-default-route? boolean
|   |   +-rw prefix-limit
|   |   |   +-rw max-prefixes        uint32
|   |   |   +-rw (options)?
|   |   |   |   +-:(warning)
|   |   |   |   |   +-rw warning-only?  boolean
|   |   |   |   |   +-:(restart)
|   |   |   |   |   |   +-rw restart-timer?  uint32
|   |   |   |   |   +-:(threshold)
|   |   |   |   |   |   +-rw shutdown-threshold-pct? bt:percentage
|   |   |   |   |   |   +-:(threshold-restart)
|   |   |   |   |   |   |   +-rw tr-shutdown-threshold-pct? bt:percentage
|   |   |   |   |   |   |   +-rw tr-restart-timer?  uint32
|   |   |   |   |   |   +-:(threshold-warning)
|   |   |   |   |   |   |   +-rw tw-shutdown-threshold-pct? bt:percentage
|   |   |   |   |   |   |   +-rw tw-warning-only?  boolean
|   |   +-rw nexthop-self
|   |   |   +-rw next-hop-self?      boolean
|   |   |   +-rw next-hop-self-force? boolean
|   |   +-rw private-as
|   |   |   +-rw remove-private-as-all?  boolean
|   |   |   +-rw remove-private-as-all-replace? boolean
|   |   |   +-rw remove-private-as?      boolean
|   |   |   +-rw remove-private-as-replace? boolean
|   |   +-rw weight
|   |   |   +-rw weight-attribute?  uint16
|   |   +-rw route-reflector
|   |   |   +-rw route-reflector-client? boolean
|   |   +-rw route-server
|   |   |   +-rw route-server-client? boolean
|   |   +-rw send-community
|   |   |   +-rw send-community?      boolean
|   |   |   +-rw send-ext-community?  boolean

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|      +--rw send-large-community?    boolean
+--rw ipv6-unicast
|  +--rw nexthop-local-unchanged?   boolean
+--rw ipv4-labeled-unicast
+--rw ipv6-labeled-unicast
+--rw l3vpn-ipv4-unicast
+--rw l3vpn-ipv6-unicast
+--rw l3vpn-ipv4-multicast
+--rw l3vpn-ipv6-multicast
+--rw l2vpn-vpls
+--rw l2vpn-evpn
+--rw ipv4-multicast
+--rw ipv6-multicast
+--rw ipv4-flowspec
+--rw ipv6-flowspec
---rw unnumbered-neighbor* [interface]
  ---rw interface          frr-interface:interface-ref
  ---rw v6only?            boolean
  ---rw peer-group?        -> ../../../../peer-groups/peer-group/peer-group-name
  ---rw neighbor-group-config
    ---rw password?        string
    ---rw ttl-security?    uint8
    ---rw solo?            boolean
    ---rw enforce-first-as? boolean
    ---rw description?    string
    ---rw passive-mode?   boolean
    ---rw capability-options
      ---rw dynamic-capability?   boolean
      ---rw strict-capability?   boolean
      ---rw extended-nexthop-capability? boolean
      ---rw no-capability-negotiate? boolean
      ---rw override-capability?  boolean
    ---rw update-source
      ---rw (source)?
        ---:(ip-based)
          |  ---rw ip?          inet:ip-address
        ---:(interface-based)
          |  ---rw interface?   frr-interface:interface-ref
---rw neighbor-remote-as
  ---rw remote-as-type    as-type
  ---rw remote-as?        inet:as-number
---rw ebgp-multiphop
  ---rw enabled?          boolean
  ---rw multihop-ttl?    uint8
---rw local-as
  ---rw local-as          inet:as-number
  ---rw no-prepend?       boolean
  ---rw no-replace-as?   boolean
---rw bfd-options
  ---rw enable             boolean
  ---rw detect-multiplier? uint8
  ---rw required-min-rx?  uint16
  ---rw desired-min-tx?  uint16
  ---rw check-cp-failure? boolean
---rw admin-shutdown
  ---rw enable           boolean
  ---rw message          string
---rw graceful-restart
  ---rw (mode)?
    ---:(graceful-restart-mode)
      |  ---rw enable?       boolean
    ---:(graceful-restart-helper-mode)
      |  ---rw graceful-restart-helper? boolean
    ---:(graceful-restart-disable-mode)
      |  ---rw graceful-restart-disable? boolean
---rw afi-safis
  ---rw afi-safi* [afi-safi-name]
    ---rw afi-safi-name     identityref
    ---rw enabled?          boolean
    ---rw ipv4-unicast
    ---rw ipv6-unicast

```

```

        +-rw ipv4-labeled-unicast
        +-rw ipv6-labeled-unicast
        +-rw l3vpn-ipv4-unicast
        +-rw l3vpn-ipv6-unicast
        +-rw l3vpn-ipv4-multicast
        +-rw l3vpn-ipv6-multicast
        +-rw l2vpn-vpls
        +-rw l2vpn-evpn
        +-rw ipv4-multicast
        +-rw ipv6-multicast
        +-rw ipv4-flowspec
        +-rw ipv6-flowspec

+-rw peer-groups
  +-rw peer-group* [peer-group-name]
    +-rw peer-group-name          string
    +-rw ipv4-listen-range*      inet:ipv4-address
    +-rw ipv6-listen-range*      inet:ipv6-address
    +-rw neighbor-group-config
      +-rw password?            string
      +-rw ttl-security?        uint8
      +-rw solo?                boolean
      +-rw enforce-first-as?   boolean
      +-rw description?         string
      +-rw passive-mode?        boolean
      +-rw capability-options
        +-rw dynamic-capability? boolean
        +-rw strict-capability?  boolean
        +-rw extended-nexthop-capability? boolean
        +-rw no-capability-negotiate? boolean
        +-rw override-capability?  boolean
      +-rw update-source
        +-rw (source)?
          +-:(ip-based)
            | +-rw ip?             inet:ip-address
          +-:(interface-based)
            | +-rw interface?     frr-interface:interface-ref
    +-rw neighbor-remote-as
      +-rw remote-as-type       as-type
      +-rw remote-as?           inet:as-number
    +-rw ebgp-multipath
      +-rw enabled?            boolean
      +-rw multihop-ttl?       uint8
    +-rw local-as
      +-rw local-as             inet:as-number
      +-rw no-prepend?          boolean
      +-rw no-replace-as?      boolean
    +-rw bfd-options
      +-rw enable                boolean
      +-rw detect-multiplier?   uint8
      +-rw required-min-rx?     uint16
      +-rw desired-min-tx?     uint16
      +-rw check-cp-failure?   boolean
    +-rw admin-shutdown
      +-rw enable                boolean
      +-rw message               string
    +-rw graceful-restart
      +-rw (mode)?
        +-:(graceful-restart-mode)
          | +-rw enable?          boolean
        +-:(graceful-restart-helper-mode)
          | +-rw graceful-restart-helper? boolean
        +-:(graceful-restart-disable-mode)
          +-rw graceful-restart-disable? boolean
    +-rw afi-safis
      +-rw afi-safi* [afi-safi-name]
        +-rw afi-safi-name        identityref
        +-rw enabled?            boolean
        +-rw ipv4-unicast
        +-rw ipv6-unicast
        +-rw ipv4-labeled-unicast
        +-rw ipv6-labeled-unicast

```

```
+--rw 13vpn-ipv4-unicast
+--rw 13vpn-ipv6-unicast
+--rw 13vpn-ipv4-multicast
+--rw 13vpn-ipv6-multicast
+--rw 12vpn-vpls
+--rw 12vpn-evpn
+--rw ipv4-multicast
+--rw ipv6-multicast
+--rw ipv4-flowspec
+--rw ipv6-flowspec
```