



## BGP Support APIs

**Table 1: BGP APIs**

Action	Method	Payload Required	API
To configure BGP	POST	Yes	/api/config/routers/router/bgp/<as-number>
To update BGP	PUT	Yes	/api/config/routers/router/bgp/<as-number>
To delete BGP	DELETE	No	/api/config/routers/router/bgp/<as-number>
To get BGP configuration	GET	No	/api/config/routers/router/bgp?deep

### Example for BGP payload

```
<bgp xmlns="http://www.cisco.com/nfvis/router">
  <as>200</as>
  <router-id>10.20.0.1</router-id>
  <address-family>
    <protocol>ipv4</protocol>
    <routing-scheme>unicast</routing-scheme>
    <network>
      <network>10.20.0.0</network>
      <mask>255.255.255.0</mask>
    </network>
    <neighbor>
      <remote-ip>bgp-neighbor</remote-ip>
      <activate/>
    </neighbor>
  </address-family>
  <neighbor xmlns="http://www.cisco.com/nfvis/router">
    <remote-ip>bgp-neighbor</remote-ip>
    <remote-as>65000</remote-as>
  </neighbor>
</bgp>
```

Table 2: Description for BGP Payloads

Property	Type	Description	Mandatory
remote-ip	String	Neighbor IPv4 address or bgp-neighbor-name matching secure-overlay configuration	Yes
as	String	Local autonomous system number	Yes
remote-as	String	Remote autonomous system number	Yes
router-id	String	Local router id IP address	No
network	String	IP address of announced network	No
mask	String	Network mask (e.g. 255.255.255.0)	No
routing-scheme	String	Routing scheme used for announcing networks. Only unicast supported	No
activate		Activate neighbor under address family	No
protocol	String	Protocol to be used for the announcements over BGP. Only ipv4 supported	No

**Example: POST create BGP local session**

```
curl -k -v -u "admin:admin" -H Accept:application/vnd.yang.data+xml -H
Content-Type:application/vnd.yang.data+xml -X POST
https://209.165.201.1/api/config/routers/router/bgp/200 -d '
<bgp
  xmlns="http://www.cisco.com/nfvis/router">
  <as>200</as>
  <router-id>10.20.0.1</router-id>
  <neighbor
    xmlns="http://www.cisco.com/nfvis/router">
    <remote-ip>90.90.90.1</remote-ip>
    <remote-as>65000</remote-as>
  </neighbor>
</bgp>'
```

**Example: PUT update BGP**

```
curl -k -v -u "admin:admin" -X GET "https://209.165.201.1/api/config/routers/router/bgp?deep"
```

**Example: DELETE BGP configuration**

```
curl -k -v -u "admin:admin" -X DELETE "https://209.165.201.1/api/config/routers/router/bgp"
```

- [BGP over MPLS APIs, on page 3](#)

## BGP over MPLS APIs

**Table 3: BGP APIs**

Action	Method	Payload Required	API
Add subnet to routes announced in address-family	POST	Yes	/api/config/router/bgp/<as_number>/address-family/network
Activate neighbor within address-family to announce routes specified	POST	Yes	/api/config/router/bgp/<as_number>/address-family/neighbor
Retrieve BGP status information	GET	No	/api/operational/bgp/<protocol>,<routing-scheme>/

### Example for BGP payload

```
<router:bgp>
  <as>200</as>
  <address-family>
    <protocol>ipv4</protocol>
    <routing-scheme>unicast</routing-scheme>
    <network>
      <network>10.20.0.0</network>
      <mask>255.255.255.0</mask>
    </network>
    <neighbor>
      <remote-ip>90.90.90.1</remote-ip>
      <activate />
    </neighbor>
  </address-family>
  <neighbor>
    <remote-ip>90.90.90.1</remote-ip>
    <remote-as>65000</remote-as>
    <description>This is the CSR Headend</description>
  </neighbor>
</router:bgp>
```

