# **Configuring BGP4**

This is a basic configuration. Depending on the type of network, you may need to configure additional parameters.

Access the BGP configuration module from the Config> prompt. Config> protocol bgp

BGP config>

Enable BGP as shown. BGP config>enable bgp speaker AS [0]? 125 TCP segment size [1024]?

The AS number identifies the speaker's autonomous system. The TCP segment size represents the maximum segment size BGP uses for passive TCP connections.

Define BGP neighbors. Neighbors either have a direct connection to the speaker, or have an indirect connection within the speaker's AS.

BGP config>add neighbor 192.18.32.12

Adding a neighbor automatically enables it, causing the speaker to send the neighbor a connection request.

Define policies. Digital's BGP4 implementation supports **originate**, **send**, and **receive** policy commands.

When you are finished configuring the router, restart it as described on the back of this card to load the new configuration.



Part Number: AV–QU5UA–TE Border Gateway Protocol 4 Quick Reference Card Version 1.1 January 1996

## **BGP4** Configuration Commands

This section summarizes the BGP4 configuration commands. Enter these commands at the BGP Config> prompt. Enter ? to list available commands or their options.

#### <u>a</u>dd

aggregate network-prefix network-mask

Causes the BGP speaker to aggregate a block of addresses and advertise a single address to its neighbors.

neighbor

Defines a BGP neighbor. An external neighbor must be on the same network as the speaker.

no-receive AS number

Excludes updates from a specified AS.

originate-policy...

Adds an originate-policy definition.

receive-policy...

Adds a receive-policy definition.

send-policy...

Adds a send-policy definition.

#### change

aggregate ...

Changes information associated with the current aggregate.

neighbor...

Changes information associated with a neighbor router.

originate-policy...

Changes an existing originate-policy definition.

receive-policy...

Changes an existing receive-policy definition.

send-policy...

Changes an existing send-policy definition.

#### <u>de</u>lete

aggregate index number

Deletes an aggregate.

neighbor network address

Deletes a BGP neighbor.

no-receive AS number

Delete the no-receive policy associated with a specified AS.

originate-policy index number

Deletes an originate-policy.

receive-policy index number

Deletes a receive-policy.

send-policy index number

Deletes a send-policy.

<u>disable</u> BGP speaker or neighbor Disables a previously enabled BGP speaker

or neighbor.

**<u>en</u>able** *BGP speaker* or *neighbor* Disables a BGP speaker or neighbor.

### **BGP4** Configuration Commands (continued)

#### <u>li</u>st

#### aggregate

Lists all aggregated records defined with the **add aggregate** command.

<u>a</u>ll

Lists the BGP neighbors, policies, aggregated routes, and no-receive-AS records in the current configuration.

BGP speaker

Lists information on the BGP speaker.

neighbor

Lists information on BGP neighbors.

#### no-receive

Lists information on no-receive-AS definitions.

originate-policy

Lists information on originate policies.

receive-policy

Lists information on receive policies.

send-policy

Lists information on send policies.

#### <u>e</u>xit

Returns to the Config> prompt.

# **BGP4 Monitoring Commands**

This section summarizes the BGP4 monitoring commands. Enter these commands at the BGP> prompt. Enter ? to list available commands or their options.

#### destinations network-address

advertised-to network-address

Dump information on routes advertised to a specified network address.

#### received-from network-address

Dump information on routes received from a specified network address.

#### neighbors internet-address

Displays information on all active neighbors, or a specified BGP neighbor.

#### paths

Displays the path descriptors stored in the path descriptions data base.

#### sizes

Displays the number of entries stored in various data bases.

#### <u>e</u>xit

Returns to the Config> prompt.

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# **Configuring the Router**

Enter configuration commands at the Config> prompt. Access the config prompt as shown:

```
*talk 6
Gateway user configuration
Config>
```

If the Config> prompt does not appear, press again.

To enter BGP4 configuration commands, display the BGP config> prompt as shown:

```
Config>protocol bgp
BGP config>
```

To return to the \* prompt, press Ctrl P.

### **Restarting the Router**

When you are done configuring the router, restart it to load the new configuration. Enter **restart** at the \* prompt and respond yes to the following prompt:

Are you sure you want to restart the gateway? (Yes or No): yes

When the new configuration is finished loading, the terminal displays the \* prompt.

### **Monitoring the Router**

Enter monitoring commands at the GWCON prompt (+). To enter BGP monitoring commands, display the BGP> prompt as shown:

\*talk 5

```
CGW Operator Console
+protocol bgp
BGP>
```

To return to the \* prompt, press Ctrl P.

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