NOTE
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.

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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.

<u>ne</u>ighbor

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. <u>se</u>nd-policy...

Changes an existing send-policy definition.

delete

aggregate index number Deletes an aggregate. <u>neighbor network address</u> Deletes a BGP neighbor. <u>no</u>-receive AS number Deletes the no-receive policy associated with a specified AS. <u>or</u>iginate-policy index number Deletes an originate-policy. <u>re</u>ceive-policy index number Deletes a receive-policy.

<u>se</u>nd-policy *index number* Deletes a send-policy.

disable BGP speaker or neighbor Disables a previously enabled BGP speaker or neighbor.

enable BGP speaker or neighbor Disables a BGP speaker or neighbor.

BGP4 Configuration Commands (Continued)

<u>li</u>st

<u>ag</u>gregate

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.

BGP4 Monitoring Commands

Lists information on no-receive-AS definitions. <u>originate-policy</u> Lists information on originate policies.

receive-policy

Lists information on receive policies.

<u>se</u>nd-policy

no-receive

Lists information on send policies.

<u>e</u>xit

Returns to the Config> prompt.

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 database.

sizes

Displays the number of entries stored in various databases.

<u>e</u>xit

Returns to the Config> prompt.

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 Return 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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