

EIGRP OTP (Over the Top)

OTP interface of an EIGRP OTP route reflector

The EIGRP Over the Top feature enables a single end-to-end Enhanced Interior Gateway Routing Protocol (EIGRP) routing domain that is transparent to the underlying public or private WAN transport that is used for connecting disparate EIGRP customer sites.

When an enterprise extends its connectivity across multiple sites through a private or a public WAN connection, the service provider mandates that the enterprise use an additional routing protocol, typically the Border Gateway Protocol (BGP), over the WAN links to ensure end-to-end routing.

The use of an additional protocol causes additional complexities for the enterprise, such as additional routing processes and sustained interaction between EIGRP and the routing protocol to ensure connectivity, for the enterprise.

With the EIGRP Over the Top feature, routing is consolidated into a single protocol (EIGRP) across the WAN.

Perform this task to configure a customer edge (CE) device in a network to function as an EIGRP Route Reflector:

```
configure terminal
router eigrp virtual-name
address-family ipv4 unicast autonomous-system as-number
af-interface interface-type interface-number
no next-hop-self
no split-horizon
exit
remote-neighbors source interface-type interface-number unicast-listen lisp-encap
network ip-address
end
```

Note: Use **no next-hop-self** to instructs EIGRP to use the received next hop and not the local outbound interface address as the next hop to be advertised to neighboring devices; If **no next-hop-self** is not configured, the data traffic will flow through the EIGRP Route Reflector.