

**Note**

Metric defaults have been carefully set to work for a wide variety of networks. Take great care when changing these values.

Default metrics are supported only when you are redistributing from EIGRP or static routes.

An administrative distance is a rating of the trustworthiness of a routing information source, such as an individual router or a group of routers. Numerically, an administrative distance is an integer from 0 to 255. In general, the higher the value the lower the trust rating. An administrative distance of 255 means the routing information source cannot be trusted at all and should be ignored.

SUMMARY STEPS

1. **enable**
2. **configure terminal**
3. **router eigrp** *autonomous-system*
4. **network** *ip-address* [*wildcard-mask*]
5. **redistribute** *protocol* [*process-id*] {**level-1** | **level-1-2** | **level-2**} [*autonomous-system-number*] [**metric** {*metric-value* | **transparent**}] [**metric-type** *type-value*] [**match** {**internal** | **external 1** | **external 2**}] [**tag** *tag-value*] [**route-map** *map-tag*] [**subnets**]
6. **distance eigrp** *internal-distance external-distance*
7. **default-metric** *bandwidth delay reliability loading mtu*
8. **end**

DETAILED STEPS

	Command or Action	Purpose
Step 1	enable Example: Device> enable	Enables privileged EXEC mode. • Enter your password if prompted.
Step 2	configure terminal Example: Device# configure terminal	Enters global configuration mode.
Step 3	router eigrp <i>autonomous-system</i> Example: Device(config)# router eigrp 1	Enables an EIGRP routing process and enters router configuration mode. • A maximum of 30 EIGRP routing processes can be configured.

	Command or Action	Purpose
Step 4	network <i>ip-address</i> [<i>wildcard-mask</i>] Example: Device(config-router)# network 172.16.0.0	Associates networks with an EIGRP routing process.
Step 5	redistribute <i>protocol</i> [<i>process-id</i>] { level-1 level-1-2 level-2 } [<i>autonomous-system-number</i>] [metric { <i>metric-value</i> transparent }] [metric-type <i>type-value</i>] [match { internal external 1 external 2 }] [tag <i>tag-value</i>] [route-map <i>map-tag</i>] [subnets] Example: Device(config-router)# redistribute rip level1	Redistributes routes from one routing domain into another routing domain.
Step 6	distance eigrp <i>internal-distance external-distance</i> Example: Device(config-router)# distance eigrp 80 130	Allows the use of two administrative distances—internal and external.
Step 7	default-metric <i>bandwidth delay reliability loading mtu</i> Example: Device(config-router)# default-metric 1000 100 250 100 1500	Sets metrics for EIGRP.
Step 8	end Example: Device(config-router)# end	Exits router configuration mode and returns to privileged EXEC mode.

Configuring the EIGRP Route Summarization Autonomous System Configuration

Perform this task to configure EIGRP to perform automatic summarization of subnet routes into network-level routes in an EIGRP autonomous system configuration.