



Configuring IS-IS

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IS-IS Overview

Intermediate System-to-Intermediate System (IS-IS) routing protocol is a link-state Interior Gateway Protocol (IGP). Link-state protocols are characterized by the propagation of the information required to build a complete network connectivity map on each participating device. That map is then used to calculate the shortest path to destinations.

The IS-IS protocol was developed in the late 1980s by Digital Equipment Corporation (DEC) and was standardized by the International Standards Organization (ISO) in ISO/IEC 10589. The current version of this standard is ISO/IEC 10589:2002.

For more information, refer [Information About IS-IS](#).

How to Configure IS-IS

Enabling IS-IS

To configure IS-IS, you need to enable IS-IS on the device and interface.

To enable IS-IS as an IP routing protocol on the device at the global configuration mode, enter the following commands:

```
enable
configure terminal
router isis [area-tag]
net network-entity-title
end
```

Configuring IS-IS on BDI Interface

To enable IS-IS as an IP routing protocol on the BDI interface, enter the following commands:

```
enable
```

```
configure terminal
interface BDI<bdi-no>
ip address ip-address mask
ip router isis [area-tag]
end
```

For more information, see [Configuring IS-IS](#).

Configuring Loopback on IS-IS Interface

To configure loopback on IS-IS interface, enter the following commands:

```
interface loopback<loopback-no>
ip address <ip-address > <subnet-mask>
ip router isis area <area-tag>
end
```

Configuration Examples for IS-IS

Refer the examples described in the [Configuration Examples for IS-IS](#).