

## Option: Securing OSPFv3 Networks with Transport Mode

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OSPF version 3 (OSPFv3), unlike OSPF version 2, does not have a built-in authentication method and relies on IPsec to provide this functionality. Using the ES PIC syntax, you can use IPsec to secure OSPFv3 between Routing Engines in M Series and T Series platforms. You can secure specific OSPFv3 interfaces and protect OSPFv3 virtual links. To configure, create a transport mode security association and apply the SA to the OSPFv3 configuration by including the `ipsec-sa` statement at the `[edit protocols ospf3 area area-number interface interface-name]` or `[edit protocols ospf3 area area-number virtual-link neighbor-id neighbor-ip-address transit-area area-number]` hierarchy level.

```
[edit]
protocols {
  ospf3 {
    area area-number {
      interface interface-name {
        ipsec-sa sa-name;
      }
      virtual-link neighbor-id neighbor-ip-address transit-area area-number {
        ipsec-sa sa-name;
      }
    }
  }
}
```

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