

## ipsec

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```
Syntax ipsec {
  security-association {
    manual {
      direction (bidirectional | inbound | outbound) {
        protocol esp;
        spi spi-value;
        encryption {
          algorithm 3des-cbc;
          key ascii-text ascii-text-string;
        }
      }
    }
  }
  policy ipsec-policy-name {
    perfect-forward-secrecy {
      keys (group1 | group2);
    }
    proposals [ proposal-names ];
  }
  proposal ipsec-proposal-name {
    authentication-algorithm (hmac-md5-96 | hmac-sha1-96);
    encryption-algorithm (3des-cbc | des-cbc);
    lifetime-seconds seconds;
    protocol (ah | esp | bundle);
  }
  security-association name {
    dynamic {
      ipsec-policy policy-name;
      replay-window-size (32 | 64);
    }
    manual {
      direction (inbound | outbound | bi-directional) {
        authentication {
          algorithm (hmac-md5-96 | hmac-sha1-96);
          key (ascii-text key | hexadecimal key);
        }
        auxiliary-spi auxiliary-spi-value;
        encryption {
          algorithm (des-cbc | 3des-cbc);
          key (ascii-text key | hexadecimal key);
        }
        protocol (ah | esp | bundle);
        spi spi-value;
      }
    }
    mode (tunnel | transport);
  }
  traceoptions {
    file <files number> < size size>;
    flag all;
    flag database;
  }
}
```

```
    flag general;  
    flag ike;  
    flag parse;  
    flag policy-manager;  
    flag routing-socket;  
    flag timer;  
  }  
}
```

**Hierarchy Level** [edit security]

**Release Information** Statement introduced before JUNOS Release 7.4.

**Description** (Encryption interface on M Series and T Series routers only) Configure IPsec.

**Options** The remaining statements are explained separately.

**Required Privilege Level** system—To view this statement in the configuration.  
system-control—To add this statement to the configuration.

**Related Topics** ■ [Configuring Security Associations for IPsec on an ES PIC](#)

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