

interface

Syntax interface *interface-name* {
 disable;
 authentication key <key-id *identifier*>;
 bfd-liveness-detection {
 authentication {
 algorithm *algorithm-name*;
 key-chain *key-chain-name*;
 loose-check;
 }
 detection-time {
 threshold *milliseconds*;
 }
 minimum-interval *milliseconds*;
 minimum-receive-interval *milliseconds*;
 transmit-interval {
 threshold *milliseconds*;
 minimum-interval *milliseconds*;
 }
 multiplier *number*;
 }
 dead-interval *seconds*;
 demand-circuit;
 hello-interval *seconds*;
 ipsec-sa *name*;
 interface-type *type*;
 ldp-synchronization {
 disable;
 hold-time *seconds*;
 }
 metric *metric*;
 neighbor *address* <eligible>;
 passive;
 poll-interval *seconds*;
 priority *number*;
 retransmit-interval *seconds*;
 te-metric *metric*;
 topology (ipv4-multicast | *name*) {
 metric *metric*;
 }
 transit-delay *seconds*;
 transmit-interval *seconds*;
}

Hierarchy Level [edit logical-systems *logical-system-name* protocols (ospf | ospf3) area *area-id*],
[edit logical-systems *logical-system-name* protocols ospf3 realm (ipv4-unicast |
 ipv4-multicast | ipv6-multicast) area *area-id*],
[edit logical-systems *logical-system-name* routing-instances *routing-instance-name* protocols
 (ospf | ospf3) area *area-id*],
[edit logical-systems *logical-system-name* routing-instances *routing-instance-name* protocols
 ospf3 realm (ipv4-unicast | ipv4-multicast | ipv6-multicast) area *area-id*],

```
[edit protocols (ospf | ospf3) area area-id],  
[edit protocols ospf3 realm (ipv4-unicast | ipv4-multicast | ipv6-multicast) area area-id],  
[edit routing-instances routing-instance-name protocols (ospf | ospf3) area area-id],  
[edit routing-instances routing-instance-name protocols ospf3 realm (ipv4-unicast |  
  ipv4-multicast | ipv6-multicast) area area-id]
```

Release Information Statement introduced before JUNOS Release 7.4.
Statement introduced in JUNOS Release 9.0 for EX Series switches.
Support for the **topology** statement introduced in JUNOS Release 9.0.
Support for the **topology** statement introduced in JUNOS Release 9.0 for EX Series switches.
Support for the **realm** statement introduced in JUNOS Release 9.2.
Support for the **realm** statement introduced in JUNOS Release 9.2 for EX Series switches.

Description Enable OSPF routing on a routing device interface.

You must include at least one **interface** statement in the configuration to enable OSPF on the routing device.

Options *interface-name*—Name of the interface. Specify the interface by IP address or interface name for OSPFv2, or only the interface name for OSPFv3. Using both the interface name and IP address of the same interface produces an invalid configuration. To configure all interfaces, you can specify **all**. Specifying a particular interface and **all** produces an invalid configuration. For details about specifying interfaces, see interface naming in the *JUNOS Network Interfaces Configuration Guide*.



NOTE: For nonbroadcast interfaces, specify the IP address of the nonbroadcast interface as *interface-name*.

The remaining statements are explained separately.



NOTE: You cannot run both OSPF and **ethernet-tcc** encapsulation between two Juniper Networks routing devices.

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

- Related Topics**
- neighbor
 - Minimum OSPF Configuration
 - Configuring Multitopology Routing in OSPF
 - Configuring Multiple Address Families for OSPFv3

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