

## spf-options

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<b>Syntax</b>	<pre>spf-options {   delay <i>milliseconds</i>;   holddown <i>milliseconds</i>;   rapid-runs <i>number</i>; }</pre>
<b>Hierarchy Level</b>	<pre>[edit logical-systems <i>logical-system-name</i> protocols (ospf   ospf3)], [edit logical-systems <i>logical-system-name</i> protocols ospf topology (default   ipv4-multicast   <i>name</i>)], [edit logical-systems <i>logical-system-name</i> protocols ospf3 realm (ipv4-unicast   ipv4-multicast   ipv6-multicast)], [edit logical-systems <i>logical-system-name</i> routing-instances <i>routing-instance-name</i> protocols (ospf   ospf3)], [edit logical-systems <i>logical-system-name</i> routing-instances <i>routing-instance-name</i> protocols ospf topology (default   ipv4-multicast   <i>name</i>)], [edit logical-systems <i>logical-system-name</i> routing-instances <i>routing-instance-name</i> protocols ospf3 realm (ipv4-unicast   ipv4-multicast   ipv6-multicast)], [edit protocols (ospf   ospf3)], [edit protocols ospf topology (default   ipv4-multicast   <i>name</i>)], [edit protocols ospf3 realm (ipv4-unicast   ipv4-multicast   ipv6-multicast)], [edit routing-instances <i>routing-instance-name</i> protocols (ospf   ospf3)], [edit routing-instances <i>routing-instance-name</i> protocols ospf topology (default   ipv4-multicast   <i>name</i>)], [edit routing-instances <i>routing-instance-name</i> protocols ospf3 realm (ipv4-unicast   ipv4-multicast   ipv6-multicast)]</pre>
<b>Release Information</b>	<p>Statement introduced in JUNOS Release 8.5.</p> <p>Statement introduced in JUNOS Release 9.0 for EX Series switches.</p> <p>Support for Multitopology Routing introduced in JUNOS Release 9.0.</p> <p>Support for Multitopology Routing introduced in JUNOS Release 9.0 for EX Series switches.</p> <p>Support for the <b>realm</b> statement introduced in JUNOS Release 9.2.</p> <p>Support for the <b>realm</b> statement introduced in JUNOS Release 9.2 for EX Series switches.</p>
<b>Description</b>	<p>Configure options for running the shortest-path-first (SPF) algorithm. You can configure a delay for when to run the SPF algorithm after a network topology change is detected, the maximum number of times the SPF algorithm can run in succession, and a hold-down interval after the SPF algorithm runs the maximum number of times.</p>
<b>Options</b>	<p><b>delay</b> <i>milliseconds</i>—Time interval between the detection of a topology change and when the SPF algorithm runs.</p> <p><b>Range:</b> 50 through 8000 milliseconds</p> <p><b>Default:</b> 200 milliseconds</p>

**holddown *milliseconds***—Time interval to hold down, or wait before a subsequent SPF algorithm runs after the SPF algorithm has run the configured maximum number of times in succession.

**Range:** 2000 through 20,000 milliseconds

**Default:** 5000 milliseconds

**rapid-runs *number***—Maximum number of times the SPF algorithm can run in succession. After the maximum is reached, the holddown interval begins.

**Range:** 1 through 5

**Default:** 3

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

- Related Topics**
- Configuring SPF Options for OSPF
  - Configuring Multitopology Routing in OSPF

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