

traceoptions

Syntax	<pre>traceoptions { file <i>name</i> <size <i>size</i>> <files <i>number</i>> > <world-readable no-world-readable>; flag <i>flag</i> <flag-modifier> <disable>; }</pre>
Hierarchy Level	[edit protocols bfd], [edit protocols bgp], [edit protocols isis], [edit protocols ldp], [edit protocols mpls], [edit protocols ospf], [edit protocols ospf3], [edit protocols pim], [edit protocols rip], [edit protocols ripng], [edit routing-options]
Release Information	Statement introduced before JUNOS Release 7.4. nsr-synchronization flag for BGP, IS-IS, LDP, and OSPF added in JUNOS Release 8.4. nsr-synchronization and nsr-packet flags for BFD sessions added in JUNOS Release 8.5. nsr-synchronization flag for RIP and RIPng added in JUNOS Release 9.0. nsr-synchronization flag for Layer 2 VPNs and VPLS added in JUNOS Release 9.1. nsr-synchronization flag for PIM added in JUNOS Release 9.3. nsr-synchronization flag for MPLS added in JUNOS Release 10.1.
Description	Define tracing operations that track nonstop active routing (NSR) functionality in the router. To specify more than one tracing operation, include multiple flag statements.
Default	If you do not include this statement, no global tracing operations are performed.
Options	disable —(Optional) Disable the tracing operation. You can use this option to disable a single operation when you have defined a broad group of tracing operations, such as all. file <i>name</i> —Name of the file to receive the output of the tracing operation. Enclose the name within quotation marks. All files are placed in the directory <code>/var/log</code> . We recommend that you place global routing protocol tracing output in the file <code>routing-log</code> . files <i>number</i> —(Optional) Maximum number of trace files. When a trace file named <i>trace-file</i> reaches its maximum size, it is renamed <i>trace-file.0</i> , then <i>trace-file.1</i> , and so on, until the maximum number of trace files is reached. Then the oldest trace file is overwritten. Range: 2 through 1000 files

Default: 2 files

If you specify a maximum number of files, you also must specify a maximum file size with the **size** option.

flag *flag*—Tracing operation to perform. To specify more than one tracing operation, include multiple **flag** statements. The nonstop active routing tracing options are:

- **nsr-packet**—Detailed trace information for BFD nonstop active routing only
- **nsr-synchronization**—Tracing operations for nonstop active routing
- **nsr-synchronization-detail**—(MPLS only) Tracing operations for nonstop active routing in detail

flag-modifier—(Optional) Modifier for the tracing flag. Except for BFD sessions, you can specify one or more of these modifiers:

- **detail**—Detailed trace information
- **receive**—Packets being received
- **send**—Packets being transmitted

no-world-readable—Restrict users from reading the log file.

size *size*—(Optional) Maximum size of each trace file, in kilobytes (KB), megabytes (MB), or gigabytes (GB). When a trace file named **trace-file** reaches this size, it is renamed **trace-file.0**. When the **trace-file** again reaches its maximum size, **trace-file.0** is renamed **trace-file.1** and **trace-file** is renamed **trace-file.0**. This renaming scheme continues until the maximum number of trace files is reached. Then the oldest trace file is overwritten.

Syntax: *xk* to specify KB, *xm* to specify MB, or *xg* to specify GB

Range: 10 KB through the maximum file size supported on your system

Default: 128 KB

If you specify a maximum file size, you also must specify a maximum number of trace files with the **files** option.

world-readable—Allow users to read the log file.

Usage Guidelines See Tracing Nonstop Active Routing Synchronization Events.

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

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