

## traceoptions

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**Syntax** traceoptions {  
    file <filename> <files number> <match regular-expression> <size size> <world-readable | no-world-readable>;  
    flag flag;  
    no-remote-trace;  
}

**Hierarchy Level** [edit protocols neighbor-discovery secure]

**Release Information** Statement introduced in JUNOS Release 9.3.

**Description** Configure tracing operations for Secure Neighbor Discovery events. To specify more than one tracing operation, include multiple **flag** statements.

**Options** file *filename*—Name of the file to receive the tracing operation. Enclose the name within quotation marks. All files are placed in the directory `/var/log`.

files *number*—(Optional) Maximum number of trace files. When a trace file named *trace-file* reaches its maximum size, it is renamed *trace-file.0*, then *trace-file.1* and so on, until the maximum number of trace files is reached. Then the oldest trace file is overwritten.

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

**Range:** 2 through 1000 files

**Default:** 10 files

*flag*—Tracing operation to perform. To specify more than one tracing operation, include multiple **flag** statements.

### Secure Neighbor Discovery Tracing Options

- **configuration**—All configuration events.
- **cryptographic-address**—Cryptographically generated address events.
- **protocol**—All protocol processing events.
- **rsa**—RSA events.

### Global Tracing Options

- **all**—All tracing operations.

You can specify one or more of following flag modifiers:

- **detail**—Provide detailed trace information
- **receive**—Packets being received

- **send**—Packets being transmitted

**match**—(Optional) Specify a regular expression to match the output of the trace file you want to log.

**no-remote-trace**—Disable remote tracing globally or for a specific tracing operation.

**no-world-readable**—(Optional) Prevent any user from reading this log file.

**size size**—(Optional) Maximum size of each trace file, in kilobytes (KB) or megabytes (MB). 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

**world-readable**—(Optional) Allow any user to read this log file.

**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.

**Related Topics**

- Tracing Secure Neighbor Discovery Protocol Traffic

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