Chapter 38

Summary of DVMRP Configuration Statements

The following sections explain each of the IP multicast configuration statements. The statements are organized alphabetically.

disable

Syntax disable;

Hierarchy Level [edit protocols dvmrp]

Description Explicitly disable DVMRP.

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

dvmrp

Syntax

```
dvmrp {
    disable;
    export [ policy-names ];
    import [ policy-names ];
    rib-group group-name;
    traceoptions {
        file name <replace> <size size> <files number> <no-stamp>
            <(world-readable | no-world-readable)>;
        flag flag <flag-modifier> <disable>;
    }
    interface interface-name {
        disable;
        hold-time seconds;
        metric metric;
    }
}
```

Hierarchy Level [edit protocols]

Description Enable DVMRP on the router.

Default DVMRP is disabled on the router.

Options The statements are explained separately.

Usage Guidelines See “Enable DVMRP” on page 393.

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

export

Syntax export [*policy-names*];

Hierarchy Level [edit protocols dvmrp]

Description Apply one or more policies to routes being exported from the routing table into DVMRP.

Options *policy-names*—Name of one or more policies.

Usage Guidelines See “Configure DVMRP Routing Policy” on page 394 and “Configure Routing Policy” on page 35.

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

See Also import on page 399

import

Syntax import [*policy-names*];

Hierarchy Level [edit protocols dvmrp]

Description Apply one or more policies to routes being imported into the routing table from DVMRP.

Options *policy-names*—Name of one or more policies.

Usage Guidelines See "Configure DVMRP Routing Policy" on page 394 and "Configure Routing Policy" on page 35.

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

See Also export on page 398

interface

Syntax
```
interface interface-name {
    disable;
    hold-time seconds;
    metric metric;
}
```

Hierarchy Level [edit protocols dvmrp]

Description Enable DVMRP on an interface, and configure interface-specific properties.

Options *interface-name*—Name of the interface. Specify the full interface name, including the physical and logical address components. To configure all interfaces, you can specify all. For details about specifying interfaces, see the *JUNOS Internet Software Configuration Guide: Interfaces and Chassis*.

The remaining statements are explained separately.

Usage Guidelines See "Enable DVMRP" on page 393.

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

metric

Syntax metric *metric*;

Hierarchy Level [edit protocols dvmrp interface *interface-name*]

Description Define the DVMRP metric value.

Options *metric—Metric value.*
Range: 1 through 31
Default: 1

Usage Guidelines See “Modify the Metric Value” on page 394.

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

rib-group

Syntax rib-group *group-name*;

Hierarchy Level [edit protocols dvmrp]

Description Associate a routing table group with DVMRP.

Options *group-name*—Name of the routing table group. The name must be one that you defined with the rib-group statement at the [edit routing-options] hierarchy level.

Usage Guidelines See “Enable DVMRP” on page 393, “Enable PIM” on page 408, “Enable MSDP” on page 433, and “Configure How Interface Routes Are Imported into Routing Tables” on page 124.

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

See Also rib-group on page 150, rib-groups on page 151

traceoptions

Syntax

```
traceoptions {
    file name <replace> <size size> <files number> <no-stamp>
        <(world-readable | no-world-readable)>;
    flag flag <flag-modifier> <disable>;
}
```

Hierarchy Level [edit protocols dvmrp]

Description Configure DVMRP tracing options.

To specify more than one tracing operation, include multiple flag statements.

To trace the paths of multicast packets, use the mtrace command, as described in the *JUNOS Internet Softw are Command R eference*.

Default The default DVMRP trace options are those inherited from the routing protocols traceoptions statement included at the [edit routing-options] hierarchy level.

Options disable—(Optional) Disable the tracing operation. You can use this option is to disable a single operation when you have defined a broad group of tracing operations, such as all.

filename—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 /var/log. We recommend that you place tracing output in the dvrmp-log file.

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 also must specify a maximum file size with the size option.

Range: 2 through 1000 files
Default: 2 files

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

DVMRP Tracing Flags

cache—All packets in the DVMRP routing cache

graft—Graft messages

neighbor—Neighbor probe messages

packets—All DVMRP packets

probe—Probe packets

prune—Prune messages

report—DVMRP route report packets

Global Tracing Flags

all—All tracing operations

general—A combination of the normal and route trace operations

normal—All normal operations
Default: If you do not specify this option, only unusual or abnormal operations are traced.

policy—Policy operations and actions

route—Routing table changes

state—State transitions

task—Interface transactions and processing

timer—Timer usage

flag-modifier—(Optional) Modifier for the tracing flag. You can specify one or more of these modifiers:

detail—Detailed trace information

receive—Packets being received

send—Packets being transmitted

no-stamp—(Optional) Do not place timestamp information at the beginning of each line in the trace file.
Default: If you omit this option, timestamp information is placed at the beginning of each line of the tracing output.

no-world-readable—(Optional) Disallow any user to read the log file.

replace—(Optional) Replace an existing trace file if there is one.
Default: If you do not include this option, tracing output is appended to an existing trace 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.

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

Syntax: *x*k to specify KB, *x*m to specify MB, or *x*g to specify GB
Range: 10 KB through the maximum file size supported on your system
Default: 1 MB

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

Usage Guidelines See "Trace DVMRP Protocol Traffic" on page 395.

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.