

## Chapter 15

# PGM Configuration Guidelines

Pragmatic General Multicast (PGM) allows the router to participate in defined PGM router assistance functions between PGM-enabled sources and receivers. Although PGM is a transport layer protocol and is not directly concerned with IP packet routing, PGM must be explicitly configured on the router.

To enable PGM globally on the router, include the `pgm` statement:

```
pgm;
```

You can include this statement at the following hierarchy levels:

- [edit protocols]
- [edit logical-routers *logical-router-name* protocols]

To trace the operation of PGM, include the `traceoptions` statement:

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

You can include this statement at the following hierarchy levels:

- [edit protocols]
- [edit logical-routers *logical-router-name* protocols]

You can specify the following PGM-specific options in the PGM `flag` statement:

- `all`—Trace all PGM packets.
- `init`—Trace all PGM initialization events.
- `packets`—Trace all PGM packet processing.
- `parser`—Trace all PGM parser processing.
- `route-socket`—Trace all PGM route-socket events.

- **show**—Trace all PGM **show** command servicing.
- **state**—Trace all PGM state transitions.

For an overview of logical routers and a detailed example of logical router configuration, see the logical routers chapter of the *JUNOS Feature Guide*.

By default, PGM is enabled on every interface of the router, but global, explicit configuration is required. No options are available for PGM operation.