

Chapter 16 Internet Control Message Protocol (ICMP)

16.1 ICMP Overview

On systems without the BSD routing socket, GateD listens to Internet Control Message Protocol (ICMP) messages received by the system. GateD currently supports `redirect`. Processing of ICMP redirect messages is handled by the `redirect` statement. (See “Chapter 17 Redirect Processing” on page 91 for more information about `redirect`.)

Currently, the only reason to specify the `icmp` statement is to be able to trace the ICMP messages that GateD receives. These messages may be traced to a separate log file as allowed by any GateD `traceoptions` clause. This allows for easy separation of non-redirect ICMP messages from redirect messages in the trace file.

16.2 ICMP Syntax

```
icmp {  
    traceoptions  
        [ tracefile [ replace ]  
        [ size tracesize [ k | m ] files tracefiles ] ] [ nostamp ]  
        [ trace_global_options | trace_protocol_packets ]  
        [ except ( trace_global_options | trace_protocol_packets ) ] ;  
};
```

More detailed descriptions of these commands can be found on page 307 of the *Command Reference Guide*.

16.3 ICMP Sample Configuration

This example traces all ICMP messages received except for redirects, which may be traced from the `redirect` clause.

```
icmp {  
    traceoptions "/tmp/icmp_log" packets routerdiscovery info error ;  
}
```

