

ICMP Query for IP Node Information

draft-xbm-intarea-icmp-query

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Two New ICMP Messages

- Query Request
 - Request node information
- Query Response
 - Respond to Query Request

Syntax

- Both messages include an ICMP Extension Structure
- ICMP Extension Structure includes objects
 - Each object requests or provides specific information
 - Example: draft-ietf-6man-icmpv6-ioam-conf-state
 - Define new objects as needed

A Few More Things

- The Query Request and Query Response are defined for ICMPv4 and ICMPv6
- Like all ICMP messages, the Query Request and Query Response MUST be rate limited
- The ICMP Query Response MUST NOT be longer than the corresponding ICMP Query Request
 - Prevent amplification attacks

Why A New ICMP Message Type

- Information Request / Information Reply not used
 - Deprecated
 - Request address information only
- Extended Echo Request / Extended Echo Reply not used
 - Ping semantics not wanted

Ask

- Review and comment
- Adopt as WG item