OAM

draft-barthel-schc-oam-schc-01

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Title

• Text 1
• Text 2
Objective

• Focus on RFC 4443
• Compression of ICMPv6 messages
• Add new features to SCHC:
  – Proxy
  – ICMP generation
  – New CDA for ICMP payload
• Implemented in openSCHC
Ping compression/proxy

<table>
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<tr>
<th>SCHC packet</th>
<th>Echo Request, Code=0</th>
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- Add an action to the rule with parameter
ICMP payload compression

- 2 MO: match-rule, match-rev-rule
- 2 CDA: send-compressed, send-rev-compressed
ICMP error message

- Device not found: (type 0, code 3) host not found
- Device found by not matching rules: (type 0, code 4) port not found
- Packet cannot be fragmented: Too big (TBD)
YANG Data Model

- Extend RFC9363

```yang
module: ietf-schc-oam

  +--rw proxy-behavior?  schc-oam:proxy-type

nodes:
  proxy-behavior
typedefs:
  proxy-type
identities:
  fid-icmpv6-base-type
  fid-icmpv6-checksum
  fid-icmpv6-code
  fid-icmpv6-identifier
  fid-icmpv6-sequence
  fid-icmpv6-type
  proxy-none
  proxy-pingv6
  proxy-schc-message
```