

IPv6 Query for Enabled In-situ OAM Capabilities

draft-ietf-6man-icmpv6-ioam-conf-state-10

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Recap of this draft

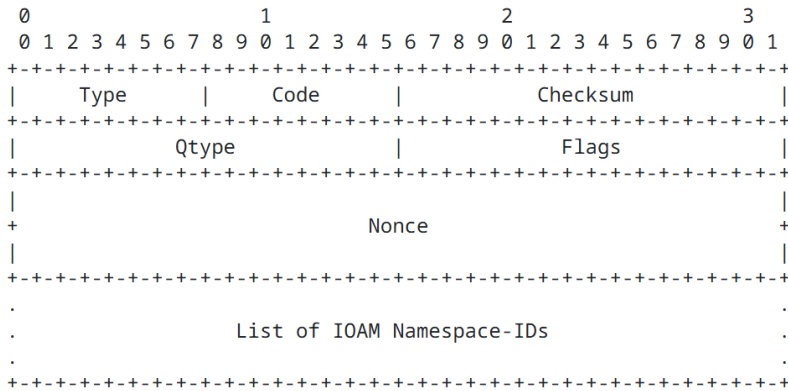
- This draft defines ICMPv6 extensions to achieve IOAM Capabilities Discovery in IPv6 Networks
 - A companion document of RFC 9359 developed in IPPM WG
 - Use draft-xbm-intarea-icmp-query as a foundation for extension
 - For the Node IOAM Information Query mechanism, five IOAM Capabilities Objects are defined:
 - IOAM Tracing Capabilities Object
 - IOAM Proof of Transit Capabilities Object
 - IOAM Edge-to-Edge Capabilities Object
 - IOAM DEX Capabilities Object
 - IOAM End-of-Domain Object

Updates since last IETF

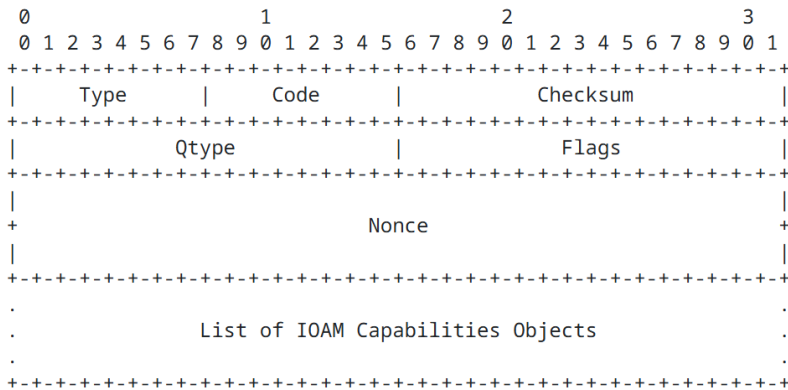
- The basis of this draft was changed from RFC 4620 to draft-xbm-intarea-icmp-query
- Welcome Ron Bonica to be a new co-author
- Some updates due to the change of the basis
 - “Updates RFC 4620/4884” was removed.
 - Terms were changed, e.g., Node IOAM Request/Reply -> IOAM Query Request/Response.
 - The formats of IOAM Query Request/Response are simplified.
 - ICMP Extension Structure was added to the IOAM Query Request. IOAM Query Object and Pad Object are contained.

Updates since last IETF (Cont.1)

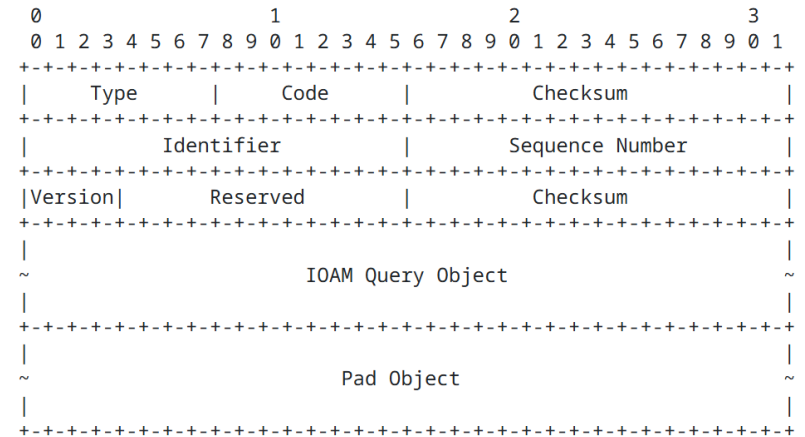
- The formats of IOAM Query Request/Response are simplified:



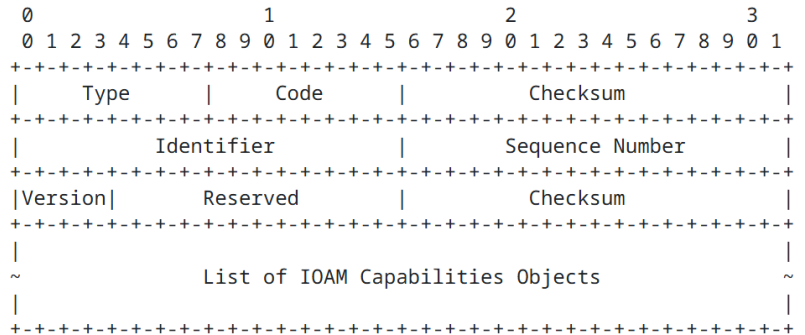
Node IOAM Request



Node IOAM Reply



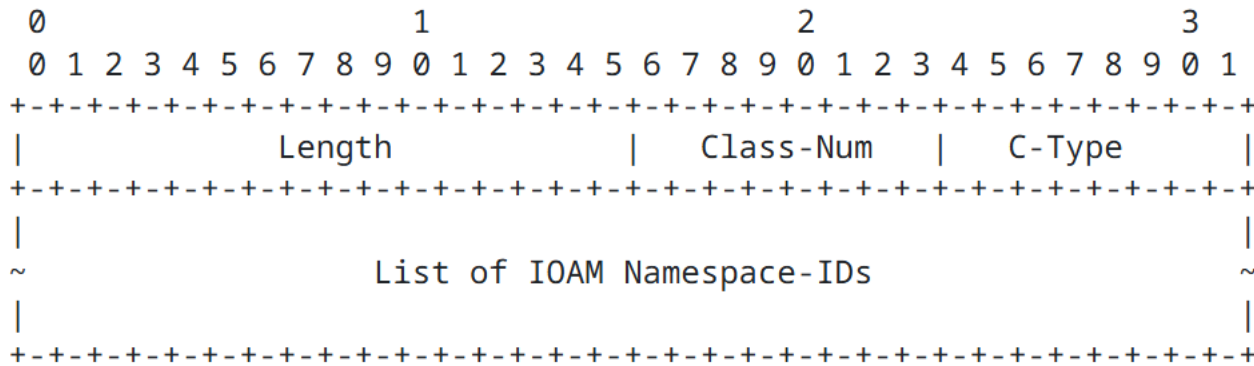
IOAM Query Request



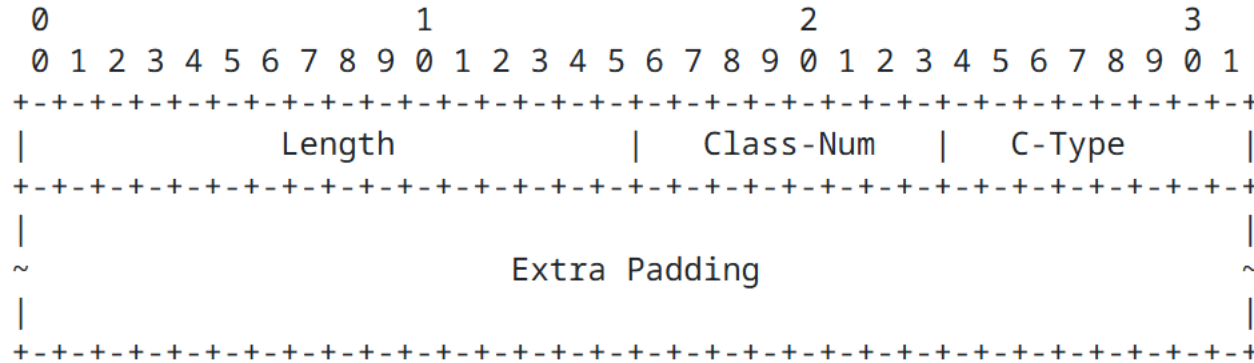
IOAM Query Response

Updates since last IETF (Cont.2)

- IOAM Query Object and Pad Object within an ICMP Extension Structure was added to the IOAM Query Request :

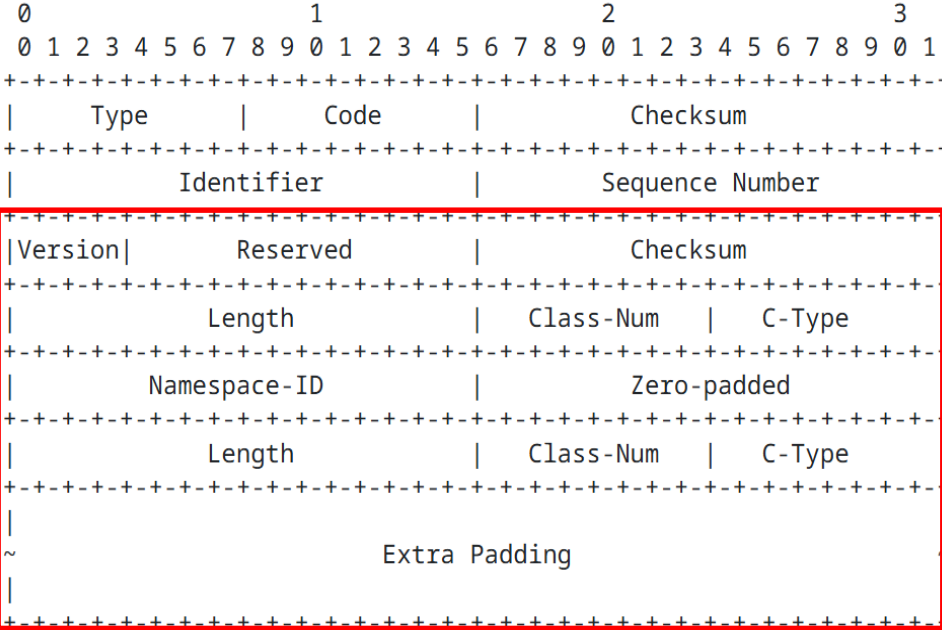


IOAM Query Object

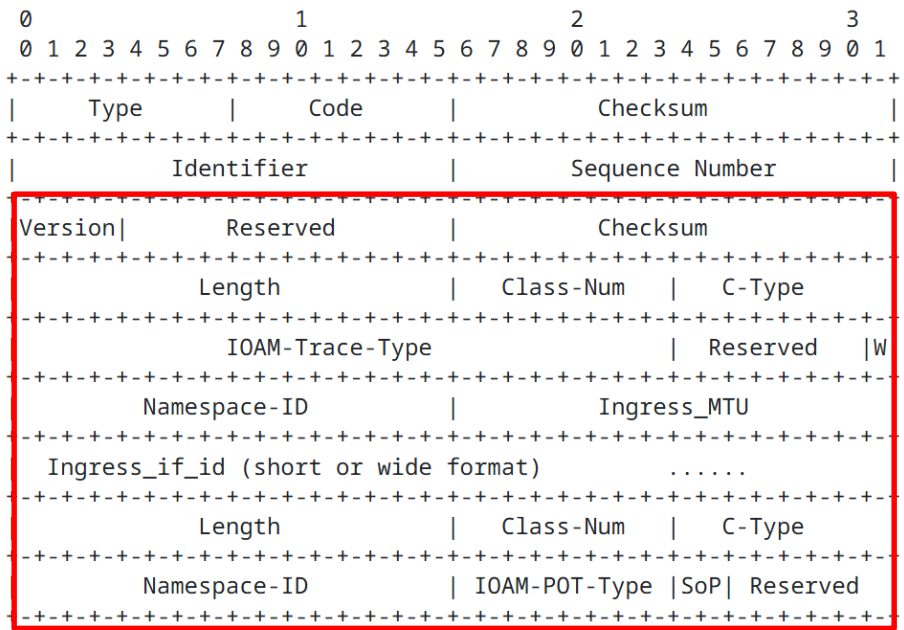


Pad Object

Examples: IOAM Query Request/Response



IOAM Query Request



IOAM Query Response

Next steps

- Ask for more reviews and comments
- Revise this draft to improve it
- Waiting for draft-xbm-intarea-icmp-query to progress
- WGLC on draft-ietf-6man-icmpv6-ioam-conf-state