

ICMPv6 Echo Request/Reply for Enabled In-situ OAM Capabilities

draft-xiao-6man-icmpv6-ioam-conf-state-01

Xiao Min

ZTE

Greg Mirsky

Ericsson

Recap of this draft

- This draft defines ICMPv6 extensions to achieve IOAM Capabilities Discovery in IPv6 networks
 - A companion document of draft-ietf-ippm-ioam-conf-state
 - ICMPv6 IOAM Echo Request/Reply are defined
 - For ICMPv6 IOAM Echo Reply, six IOAM capabilities objects are defined as follows:
 - IOAM Pre-allocated Tracing Capabilities Object
 - IOAM Incremental Tracing Capabilities Object
 - IOAM Proof-of-Transit Capabilities Object
 - IOAM Edge-to-Edge Capabilities Object
 - IOAM DEX Capabilities Object
 - IOAM End-of-Domain Object

Status of draft-ietf-ippm-ioam-conf-state

- draft-ietf-ippm-ioam-conf-state defines a general method of IOAM capabilities discovery, allowing the IOAM encapsulating node to discover the enabled IOAM capabilities of each IOAM transit and decapsulating node along the transport path of IOAM data packet
 - The general method can be applied in IPv6, MPLS, SFC and BIER environments
 - The IPPM document passed WGLC and is currently with Transport AD

Updates since IETF 112

- draft-xiao-6man-icmpv6-ioam-conf-state-00 was presented at IETF 112, some good discussions happened there, a few updates since then:
 - Added one example where two Namespace-IDs (Namespace-ID1 and Namespace-ID2) are deployed
 - Aligned the encodings of IOAM Echo Reply's examples with updated draft-ietf-ippm-ioam-conf-state
 - Editorial and nits (one more nit in Figure 6 will be fixed in next revision: s/Default Namespace-ID/Namespace-ID)

Next step

- WG adoption?

Thank you!