## LSP Ping/Traceroute for Enabled In-situ OAM Capabilities

draft-xiao-mpls-lsp-ping-ioam-conf-state-00

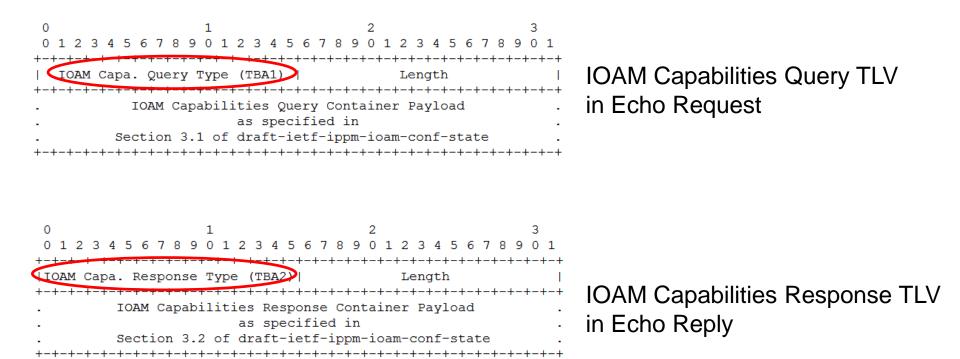
Xiao Min ZTE

Greg Mirsky Ericsson

#### Background of this draft

- draft-ietf-ippm-ioam-conf-state defines a general method of IOAM Capabilities Discovery, including IOAM Capabilities formats
  - Echo Request/Reply is used for IOAM Capabilities
    Discovery, through which the IOAM encapsulating node
    can discover the IOAM Capabilities of each IOAM transit
    and decapsulating node along the LSP
  - This draft defines LSP Ping/Traceroute extensions to achieve IOAM Capabilities Discovery in MPLS networks

### MPLS IOAM Echo Request/Reply

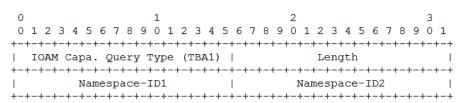


- This draft defines two new LSP Ping TLVs, one for Echo Request, another for Echo Reply
- A new Return Code "No Matched Namespace-ID"

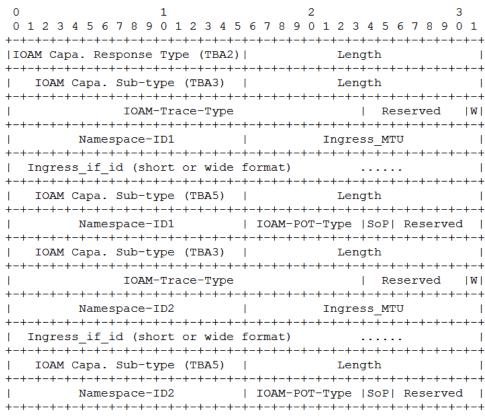
#### IOAM Capabilities sub-TLVs

- For IOAM Capabilities Response TLV, six IOAM Capabilities sub-TLVs are defined as follows:
  - IOAM Pre-allocated Tracing Capabilities sub-TLV
  - IOAM Incremental Tracing Capabilities sub-TLV
  - IOAM Proof-of-Transit Capabilities sub-TLV
  - IOAM Edge-to-Edge Capabilities sub-TLV
  - IOAM DEX Capabilities sub-TLV
  - IOAM End-of-Domain sub-TLV

# IOAM Capabilities Query/Response TLV Example



**IOAM Capabilities Query TLV** 



IOAM Capabilities Response TLV

#### Next steps

- Review, Comments, Collaboration are always welcome
- Revise this draft to improve it
- Request for WG adoption

Thank you!