For information: IETF LSVR WG Work on LSoE (Link neighbor, liveness and encapsulation discovery)

Colleagues,

We would like to draw your attention to a topic that has been raised in the IETF's Link State Vector Routing Protocol (LSVR) working Group.

Used in Massive Data Centers (MDCs), LSVR (Link State Vector Routing) and similar protocols need link neighbor discovery, link encapsulation data, and Layer 2 liveness. The initial LSVR (https://datatracker.ietf.org/doc/draft-ietf-lsvr-bgp-spf/) protocol development does not standardize a discovery and liveness technology, however LSVR relies heavily on such technology. The Link State Over Ethernet (LSoE) protocol provides link discovery, exchanges supported encapsulations (IPv4, IPv6, ...), discovers encapsulation addresses (Layer 3 / MPLS identifiers) over raw Ethernet, and provides layer 2 liveness checking. The development of LSoE is initially focused around the LSVR protocol requirements for operation in MDCs.

The LSoE (Link State over Ethernet) technology has been documented in an individual contribution and posted as a work item in the IETF LSVR Working Group [https://datatracker.ietf.org/doc/draft-ymbk-lsvr-lsoe/]

During the IEEE and IETF Coordination meeting on November 9th there was a first high level LSoE introduction, with a more technological follow-up overview during the November 10th IEEE802/IETF Workshop on Data Center Networks [https://mentor.ieee.org/802.1/dcn/18/1-18-0083-00-ICne-minutes-of-ieee802-ietf-workshop-on-dcns.pdf]

LSoE is not currently an adopted working group item, and it falls adjacent to the current scope of the LSVR working group's charter (http://datatracker.ietf.org/wg/lsvr/charter/). However, we are progressing a WG adoption call [https://www.ietf.org/mail-archive/web/lsvr/current/msg00222.html] and anticipate that there will be ongoing discussion of the topic at the IETF's meeting in Prague during the week of March 23rd, 2019.

At this stage we welcome your views on the topic, and (of course) welcome participation at the meeting in Prague or on the LSVR working group's mailing list, which can be accessed from the charter page (above).

We will continue to provide updates through the IEEE IETF Coordination Group.

Kind Regards,
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IETF LSVR WG Chairs