LSoE

Link State over Ether

draft-ietf-lsvr-lsoe-01.txt

LSVR WG

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Thanks to John Scudder, Rob Austein, Neeraj Malhotra, Larry Kreeger, Paul Congdon, and others, it is now much more mature.
Remember the Goal
Link-Layer Topology Discovery and Liveless for LSVR / BGP-SPF
Just a Reminder

Device

BGP-SPF

Link Check AFI/SAFIs

Ether PDUs

Device

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Ether PDUs

Device

BGP-SPF

Link Check AFI/SAFIs

Ether PDUs

TCP
You Read the Draft

So What's New?
Neeraj has Extended it

Always a Good Sign

draft-malhotra-bess-evpn-lsoe-00.txt
Devil is in the Details

"I’m here about the details."
Transport Layer to handle 64k octet PDUs is now Clearly Delineated. We could raise this limit evpn-lsoe is using in the extension for EVPNs.
Duplicate Frame and PDU Detection
Retransmission on TimeOut for ACK
### Vendor Extension

```
0 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0 1
+-------------------------------------------------------------+
| Type = 255 | Length | ... |
+-------------------------------------------------------------+
| Enterprise Number | Ent Type |
+-------------------------------------------------------------+
| Enterprise Data ...
```
Explicit ACK/ERROR

EType, Error Code, Error Hint = 0  /* no error, just an ACK */
HELLO and KEEPALIVE are still separate

UniCast vs MultiCast & Separate Timers
Do we add some nice short signature (80 bits or so) to each PDU, validate, and raise an error?
The Law of Ethernet says MACs are unique and per interface. They seem not to be! Need to accommodate?
jgs asked for a state machine
sra wrote one in Python 3 😊
same length as the spec
You wanted denotational semantics? 😊
we're waiting for Keyur's OK to open source it
DRAFT NEEDS REVIEW

Would prefer to get volunteer reviewers without having to WGLC it