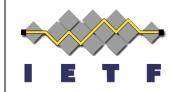
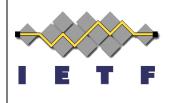
OSPFv3 Extended LSA Update IETF 92, Dallas

Acee Lindem, Cisco

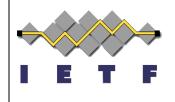


Agenda

- Draft Status
- Prefix Options Updates
- New compatibility mode proposal

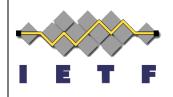


Draft Status



- Lots of good review
- Mechanisms Stable only clarifications and minor revisions in last couple versions.
- Need implementation momentum
- Proposal to lower the bar for initial implementation.

Prefix Options Updates



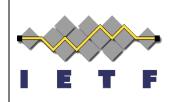
- LA-bit (local address) applicable to Inter-Area-Prefix TLVs and External-Prefix-TLVs.
 - Allows stable local address to be advertised without loopback in every area.
- N-bit defined very similar to LA-bit with following differences:
 - N-bit setting for local /128 prefixes under admin control (may not be set)
 - Propagated in Inter-Area-Prefix LSAs and translated External-LSAs.

Limited Deployment Mode



- Allow usage of OSPFv3 Extended LSAs for new functionality
- Get some implementation experience.
- OSPFv3 routers advertise non-support of OSPFv3 Extended LSAs – LSAs never used for base SPF.
- OSPFv3 Extended LSAs only originated with the TLVs supporting advanced functions
 - For example, Extended-Router-LSAs would only have links with extended attributes.

Limited Deployment Mode (Continued)



- Backward compatibility must be specified in the features that utilize the Extended LSAs.
- Downside of limited deployment:
 - Misses main benefit of OSPFv3 Extended LSAs of consolidated advertisement
 - Development done to correlate existing and extended LSAs – could have been applied to providing full support.
 - Would allow standardization