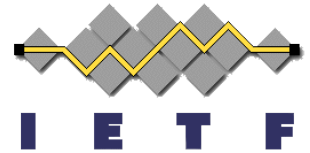
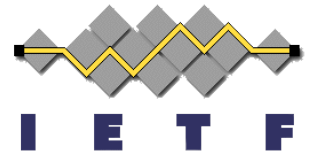


OSPF Admin Tags

IETF 92, Dallas

Acee Lindem, Cisco
Peter Psenak, Cisco

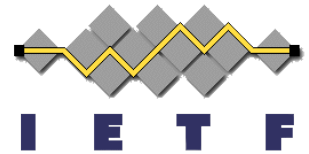




Use Cases

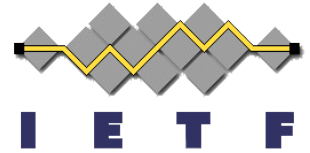
- Identifying prefixes for priority of other special treatment
- Policy control for protocol redistribution for all types of OSPF routes.
- Selection of prefixes for Loop-Free Alternative protection
- Others consistent with IS-IS tag usage as specified in RFC 5130.

OSPF Extension Mechanisms

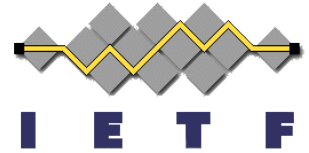


- New Sub-TLV to add one or more 32-bit tags to an OSPF(v3) link or prefix
- OSPF Prefix/Link Attributes Draft
 - Extended Prefix TLV
 - Extended Link TLV
- OSPFv3 Extended LSAs Draft
 - Router-Link TLV in E-Router-LSA
 - Inter-Area-Prefix TLV in E-Inter-Area-Prefix-LSA

Automatic Tag Propagation

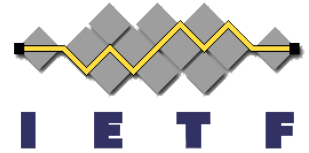


- Routes inherit tags from contributing LSAs
 - For ECMP – MAY be multiple LSAs
- Intra-area to Inter-area prefixes
- NSSA routes -> Translated AS External Prefixes
- No propagation of tags of component prefixes for area ranges and aggregates
- Configuration for redistributed routes and other configured aggregates



64-Bit Tags

- Not implemented for IS-IS in more than 7 years
- Use case of carrying BGP extended communities not realistic
- Moved to appendix



Next Steps

- Standardization of OSPF prefix/link attributes and OSPFv3 Extended LSAs
- Discussion on OSPF WG lists
- Acceptance as OSPF WG Document