

OSPF Terminology

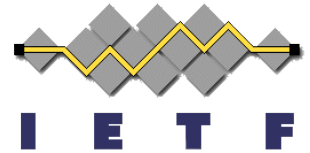
IETF-113 Vienna

March, 2022

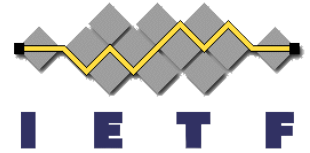
Acee Lindem, Cisco

Mike Fox, IBM

Alvaro Retana, Futurewei

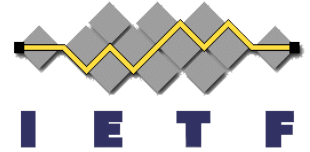


Changes to OSPF Database Exchange Terminology



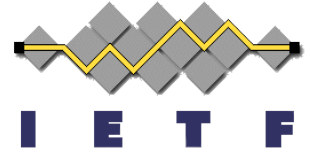
- Replace "Master/Slave" with Leader Follower
- Replace "MS Bit" in Database Exchange Packet with "L Bit"
 - Requires IANA Action for "Database Description (DD) Packet Flags" registry

RFC 2328 - OSPFv2



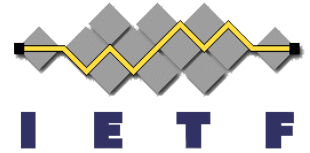
- Comprises Majority of Sections Changes
- 7.2 "The Synchronization of Databases",
- 10 "The Neighbor Data Structures"
 - 10.1 "Neighbor states"
 - 10.2 "Events causing neighbor state changes"
 - 10.6 "Receiving Database Description Packets"
 - 10.8 "Sending Database Description Packets"
 - 10.10 "An Example",
- A.3.3 "The Database Description packet"

RFC 5340 – OSPFv3



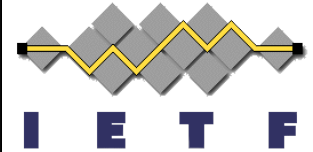
- Section A.3.3 – “The Database Description Packet”

Other OSPF RFCs (1/2)



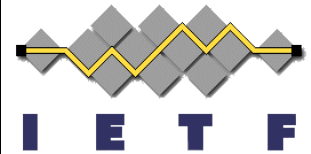
- RFC 4222 (BCP) - "Prioritized Treatment of Specific OSPF Version 2 Packets and Congestion" – One example reference.
- RFC 4811 (Experimental) - "OSPF Out-of-Band Link State Database (LSDB) Resynchronization" – Database Description Packet (Section 2.4) figure and annotation.
- RFC 5243 – "OSPF Database Exchange Summary List Optimization" – Reference in Introduction (Section 1) and Example (Section 3).

Other OSPF RFCs (2/2)

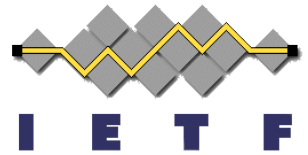


- RFC 5614 (Experimental) "Mobile Ad Hoc Network (MANET) Extension of OSPF Using Connected Dominating Set (CDS) Flooding" – Changes to Neighbor State Machine (Section 7.2) and Receiving Database Description Packets (Section 7.5).
- RFC 5838 (Standards Track) "Support of Address Families in OSPFv3" – MTU Non-IPv6 AF Discussion (Section 2.7) - Change to Database Description Packet flags field.

Next Steps



- Possible discussion on OSPF terminology change:
 - Authors agree that “Leader/Follower” is the natural choice in the context of an OSPF Database Exchange.
 - Please refrain from making alternative suggestions without valid arguments for change.
- Request WG Adoption
- Draft needed irrespective of any longer horizon BIS work for impacted OSPF drafts.



Thank you