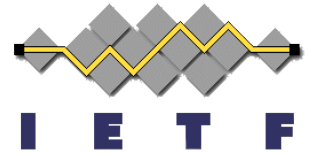
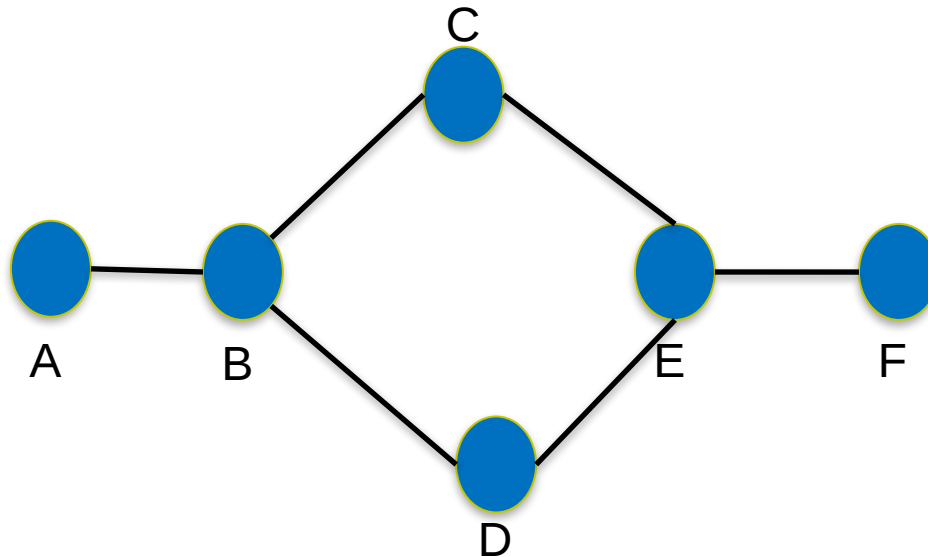


Improved OSPF Database Exchange Procedure draft-hegde-lsr-better-idbx **IETF 118**

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Problem

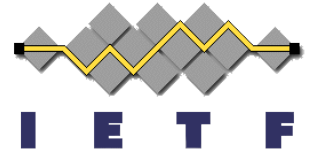


- When C Restarts, it will leave stale LSAs in other nodes which have full adjacencies to B & E
- When C comes-up, B and E use old LSAs and assume adjacency with C is bi-directional

Solution

- Neighbors of Restarting router
 - Do not bring-up adjacency with C until
 - Latest LSA with Seq no higher than stale LSA received
- Stale LSA List
 - Similar to LSReq List
 - Internal to the node, not exposed to neighbors
 - When an LSA with lower seq No received from originating neighbor, the local database LSA is marked Stale

Solution



```
C-----E

DBD: LSA A origin:C ----->
Sequence:X

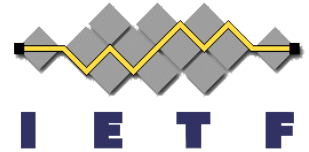
                                DBD: LSA A Origin:C
                                <----- Sequence:Y

LSReq LSA A,
origin C ----->

                                Modified Procedure
                                <----- Add LSA A to Stale LSA List

                                <----- LSA A, Origin C, Seq:Y
C re-originating self LSA
LSA A, Origin C, -----> Remove Stale
Seq:Y+1                                LSA A, Origin C
                                        From Stale LSA List,

                                        Bring adjacency to Full state if
                                        both LS Request list and Stale LSA
                                        list are empty.
```



Next Steps

- Request for review and comments
- Request WG adoption



Thank you