OSPF Adjacency Suppression

draft-cheng-lsr-ospf-adjacency-suppress-04

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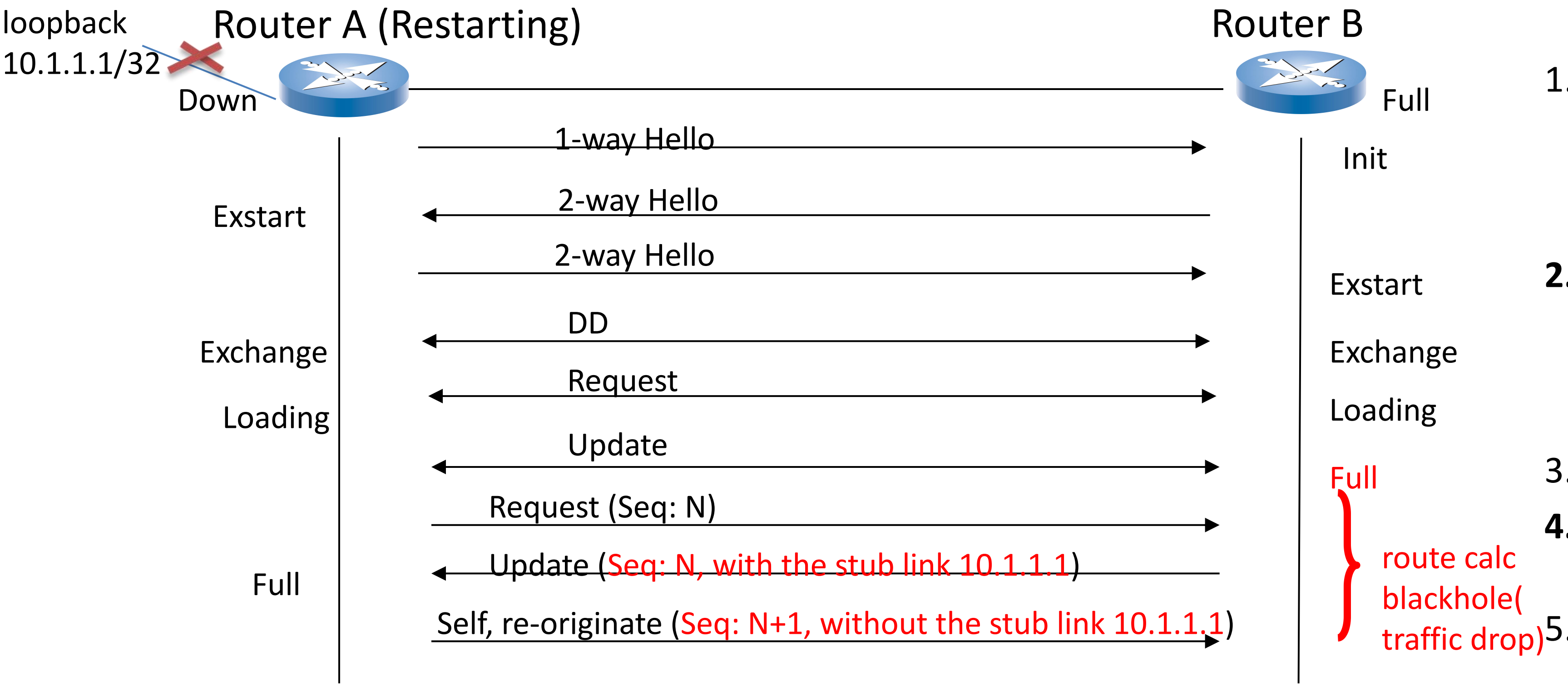
Introduction

- **Presented at IETF 116&117&118&120 meeting and requested adoption.**
- **It is to avoid the OSPF temporary blackhole(traffic drop) during a router' s unplanned restart.**



1. Router A restarts from unplanned outage and the loopback address has been deleted;
2. **Router B reaches the full state earlier** (B advertises adjacency B->A and route the traffic to 10.1.1.1 through A);
3. Temporary blackhole occurs;
4. **Router B receives the re-originated LSA later**;
5. Temporary blackhole disappears.

The other draft：
https://datatracker.ietf.org/doc/draft-hegde-lsr-ospf-better-idbx/

Purpose

- **Seeking to establish consensus on these two drafts**

[1]https://datatracker.ietf.org/doc/draft-cheng-lsr-ospf-adjacency-suppress/

[2]https://datatracker.ietf.org/doc/draft-hegde-lsr-ospf-better-idbx/

- **What is the next step?**

Move forward with these two drafts separately or look into a merged version

- **Put forward a potential merged proposal for discuss**

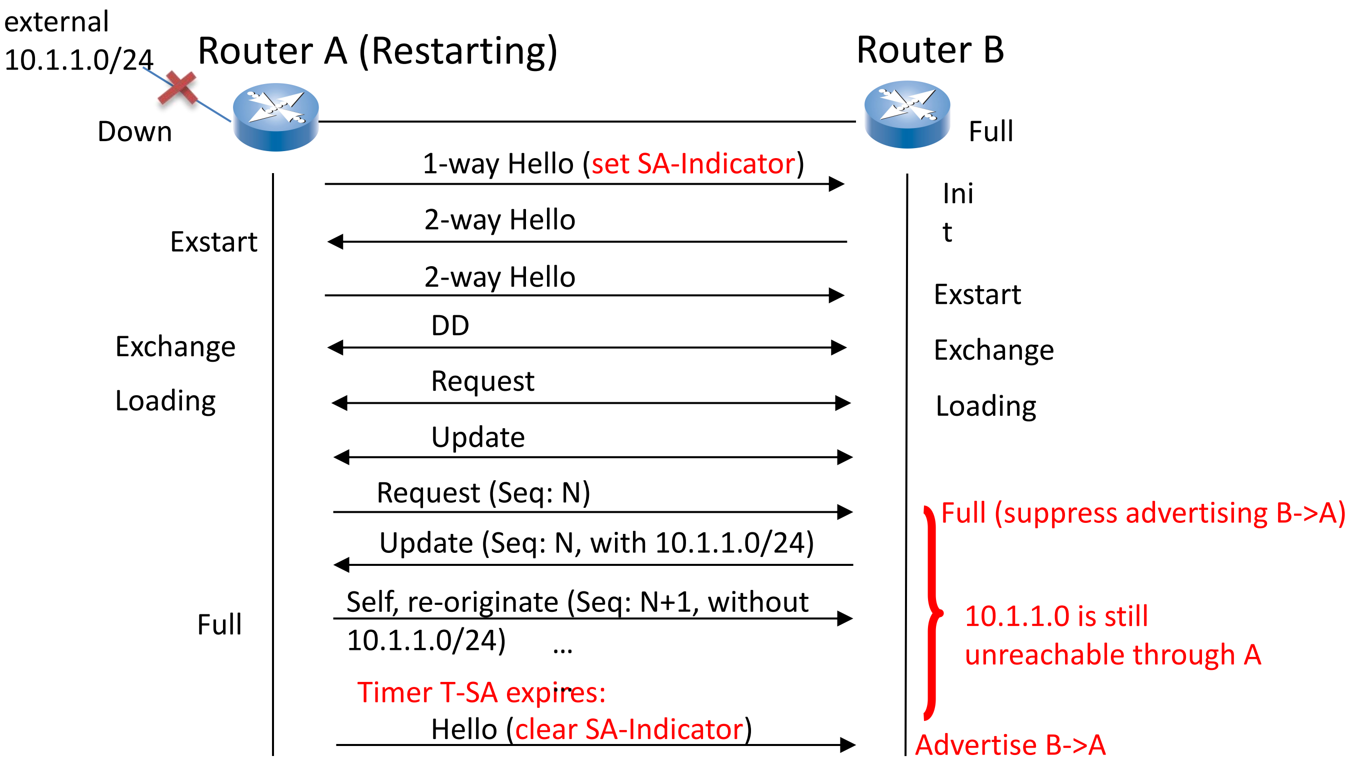
Solutions Overview

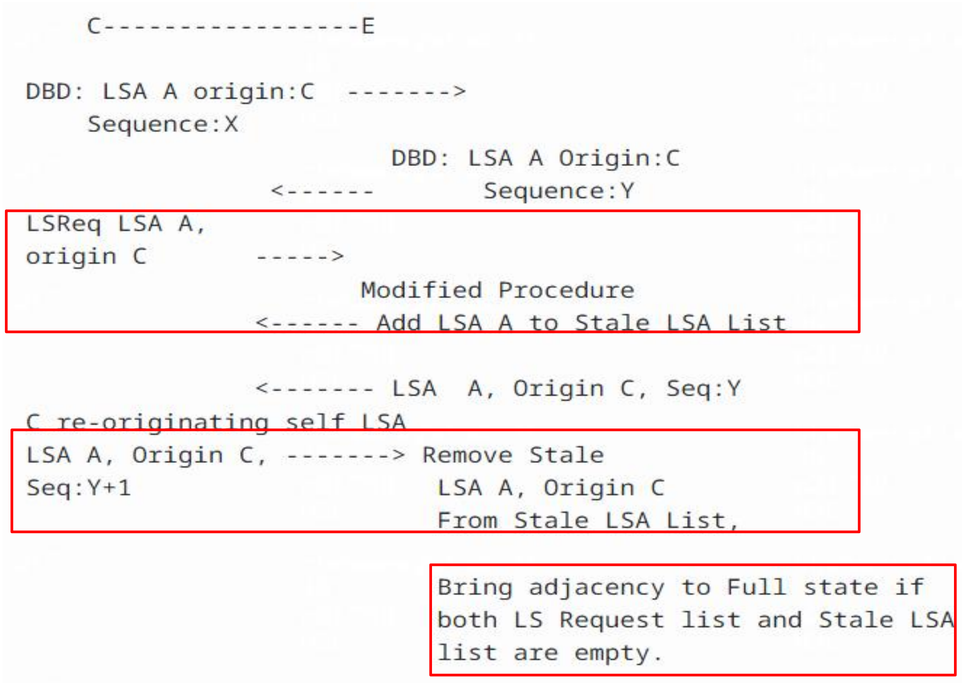
[A]draft-cheng-lsr-ospf-adjacency-suppress

Restarting router notifies its neighbor to suppress adjacency.

[B]draft-hegde-lsr-ospf-better-idbx

Neighbor router marks its LSA as stale and hold NSM.





Merged Solution

```
If Router A has the capability for SA-Indicator
{
   Set SA-Timer
   Sent  SA-Indicator when restart/start
}
else
{
   Normal procedure
}

When (SA-Timer expires)
{
   Clear SA-Indicator
}
```

```
If Router B recognized the SA-Indicator
{
   Adopt solution A
}
else
{
   Adopt solution B
}
```

Next Steps

- Merge or not?
- Any questions or comments are welcome

Thanks