OSPF Graceful Restart Enhancements
IETF 100, Singapore

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First GR Convergence Enhancement

- Situation where restarting router attaches to interfaces with no neighbors
  - Pre-restart Router-LSA will never be received
  - Graceful Restart will not complete until Grace Interval expires
  - Enhancement will assume stub interface if no OSPF packets received on interface in router dead-interval seconds.
  - May be extended to handle other scenarios and assume convergence if the pre-restart LSA is not received in maximum area router dead-interval seconds.
Second GR Convergence Enhancement

• Situation where two routers attached to same interface restart
  • Both routers have StrictLSAChecking disabled
  • Graceful-restart will not terminate until grace interval expires
  • Proposed solution is to terminate graceful restart when multiple routers restart
Summary

- Relatively simple enhancements to restarting router behavior.
- Informational draft since behavior is local.
- Looking forward to discussion on list of these scenarios and possibly others.