

# Comparison of Yang Modules from I2RS

Draft-hares-i2rs-ospf-compare-yang-00

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# Status

- What: Comparison of Yang documents OSPF Config and I2RS ephemeral status
- Tentative I2RS Plan as of Sept 30<sup>th</sup>:  
  
Running = Config + I2RS-ephemeral
- The challenge: Align typedefs, groupings, and definitions I2RS ephemeral to allow this to occur

# Summary of Comparison

- draft-yeung-netmod-ospf-02 –
  - Contains: multi-topology view (write/read)
  - protocol state and ospf-lsa-database (read only)
  - notification on events (read-only)

**Conclusion:** This draft provides enough defining clauses (typedef, grouping, etc.) to support 90% definitions needed by both Config + I2RS
- draft-wang-i2rs-ospf-dm-00
  - Contains additional status and read/write configuration to satisfy the requirements in I2RS use cases (in-charter and beyond charter)
  - Changes some configurations variables will go from read to read/write
- **Recommendation:** merge the definition clauses, keep the drafts separate

# Details on what I2RS OSPF adds

- Makes read/write
  - ospf-ls-database and ospf-neighbor.
- Adds
  - ospf-rib (logical local rib to OSPF),
  - Total number of routers (router-number) in Area,
  - route-info-list with router-id - allows for I2RS client to check for router-id conflicts
  - state in ospf routes (metric, last state, reason for change),
  - state in ospf neighbors list

# Next Steps

- Authors of both drafts should harmonize their definitions/configurations
- Implementation experience: OSPF is a good place to start implementation trials for I2RS yang modules