OpState & Schema Mount Update

NETMOD WG Chairs
IETF 95 Buenos Aires
Context: **Opstate & Schema Mount**

Drafts, presentations, and interim meetings:

- **2015-03**: original openconfig drafts submitted & presented @ 92
- **2015-06**: draft-openconfig-netmod-opstate-01 updated
- **2015-06**: opstate virtual interim meeting #1
- **2015-06**: opstate virtual interim meeting #2
- **2015-07**: bjorklund-netmod-openconfig-reply-00 posted and presented @ 93
- **2015-09**: kwatsen-opstate-00 posted & presented @ 94
- **2015-09**: wilton-opstate-yang-00 posted & presented @ 94
- **2015-09**: opstate virtual interim meeting #3
- **2015-10**: opstate virtual interim meeting #4
- **2015-10**: opstate-reqs-00 posted & presented @ 94
- **2015-10**: informal mount’ related discussions with Routing Area YANG Design Team @ 94
- **2015-11**: lhotka-netmod-ysdl-00 posted
- **2015-11**: wilton-opstate-yang-01 posted
- **2015-12**: wilton-opstate-yang-02 posted
- **2015-12**: bjorklund-netmod-structural-mount-00 posted
- **2016-01**: draft-rtgyangdt-rtgwrg-device-model-02 posted, using structural-mount/YSDL
- **2016-01**: opstate-reqs-04 posted
- **2016-02**: opstate solutions analysis completed (but not published)
- **2016-02**: schemamount authors virtual meeting #1
- **2016-02**: kwatsen-opstate-01 posted
- **2016-02**: kwatsen-opstate-02 posted
- **2016-02**: bjorklund-netmod-structural-mount-01 posted
- **2016-02**: bjorklund-netmod-structural-mount-02 posted
- **2016-03**: opstate solution authors informal meetings
Each draft update, presentation, and interim given one unit
OpState Solution Update

• Authors of individual drafts asked to propose a joint solution
  – Two author’s meetings held already
    • Notable discussion on telemetry/streaming use case
    • Some discussion on leveraging YANG push
  – Another scheduled for 2-weeks after IETF 95
  – Hopefully will have joint solution draft in April/May?

• Will then discuss on list and, probably, hold interim
  – Objective is identifying consensus on proposed direction

• Target is draft-ietf-netmod-opstate-soln-00 before Berlin
  – Following normal WG process: IPR polling and Poll for adoption
Schema Mount Update

• Interim held to discuss proposals
  – General agreement on utility of function
  – Authors of solution drafts agreed to merge efforts, using structural-mount draft as foundation for work.

• draft-ietf-schema-mount adopted today (expected)
  – Hopefully -00 will be posted this week

• Authors (Martin/Lada) working on -01
  – Details, timing, to be covered by Lada/Martin in next discussion slot

• Will then discuss on list and, if needed, hold interim
Key Requirements of This Use Case

1. That any data model can be instantiated within another module
   • Instantiated means that information is maintained only within the ‘mounted’ context
   • This use case only requires mounting of top-level models
2. That no additional model is needed to support 1
   • The schema defines what other modules can be mounted
3. That a server can control which models are mounted
4. That all capabilities that exist with the mounted module are available e.g. RPC operations, notifications, and augmentations