BGP YANG Model
draft-ietf-idr-bgp-model-13

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Status (-13)

• Structure of the model
  – Holding up w.r.t. to future extensions
  – Test with L3VPN model

• BGP model
  – Updated to match with rfc9127-bis (BFD YANG)
  – Support for BGP MED Considerations (RFC 4451)
  – Send community now an identity (from an enum)
    • Makes it extensible for wide communities in the future
  – Addition of large communities
Status (-13 cont)

• BGP Policy model
  – Support for next-hop (match & set)
  – Support for Large community set (match & set)
  – Example for BGP Policy configuration
Issues

- Tracked here
  - [https://github.com/mjethanandani/ietf-bgp-yang/issues](https://github.com/mjethanandani/ietf-bgp-yang/issues)

- Major issues (not an exhaustive list)
  - Maintenance of Extended communities (Issue #96)
    - As an IANA module??
  - Extended community typedef (Issue #66)
    - Overlaps with RFC 8294 (Routing YANG types)
    - The generic community types have the formats (as4:as2 as an example), but absent the type/sub-type
  - No as-path Regex (Issue #91)
    - Vendor specific. Leave it as a string??
  - Replace peer AS in the AS Path (Issue #70)
    - Semantics are different between vendors
Next Steps

• Structural issues have been addressed
• Interface with other modules, e.g. BFD, TCP, Keychain have been examined
  – Keychain is a reference
  – BFD interface cleaned up
  – Issue with TCP-AO configuration to be resolved
• L3VPN YANG model
  – Some changes in the L3VPN model needed
  – Example validates the changes