BGP YANG Model
draft-ietf-idr-bgp-model-14

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Status (-14)

• Cleanup
  – Moved total-paths/prefixes into stats container
  – Consistency in the use of type for counters
  – Canonical order for all features
  – Securing BGP session
    • Required update of TCP YANG model
    • Remove redundant MD5 auth password
    • Example updated in Appendix

• Types module is an IANA module

• BGP module
  – Addition of “raw” to support new and experimental extended communities

```python
type string {
    // raw with 8 octets
    pattern 'raw:([0-9A-F][0-9A-F]:){7}[0-9A-F][0-9A-F]';
}
```
Issues

• Tracked here
  – https://github.com/mjethanandani/ietf-bgp-yang/issues

• Major issue
  — 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

The model needs to provide for policy configuration
Next Steps

• Address last major issue
• Some cleanup, mostly editorial
• Expect the model to be ready for publication by IETF 115
  – 7 years and counting since -00 was published