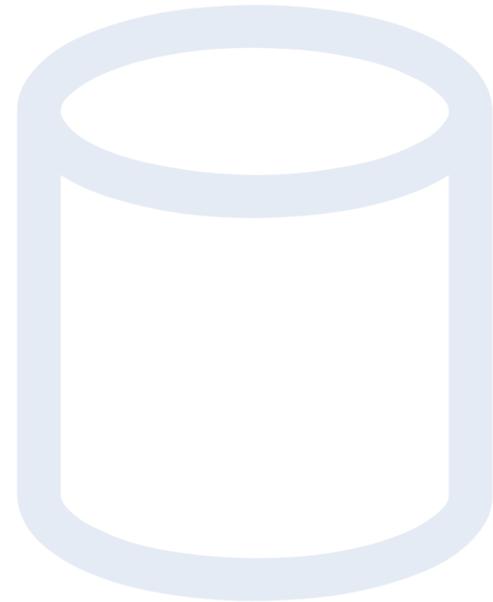


BGP Yang Model

draft-ietf-idr-bgp-model-07



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Jeffrey Haas (new addition)



Status (-07)

- Added
 - graceful restart with graceful-restart feature statement.
 - ability to clear routes inside of a feature statement
 - send-communities as a feature
 - choice of send in add-paths.
 - support for route flap damping (inside a feature statement)
 - example around VRF
 - example for IPv6
 - example for how the module can be augmented and/or deviated.
- Updated security considerations section with RFC 7454 and RFC 5082.
- Closed on the min list of AFI/SAFIs considered core to the model
- Updated definition for med type.
- Changed community type from an enum to a bits type.



Issues

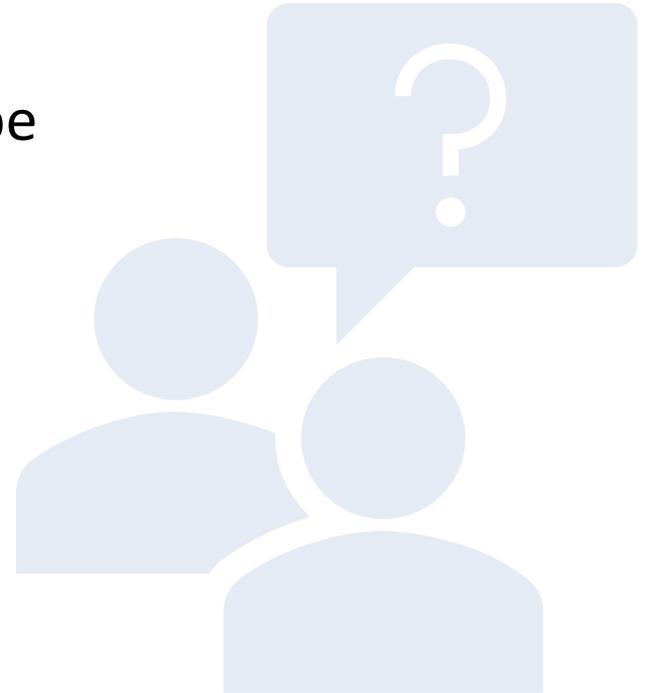
- Documented in <https://github.com/mjethanandani/ietf-bgp-yang/issues>
 1. Should confederation be a peer-type
 2. List of AS path segments
 3. How is AS path length calculated?
 4. Add support for authentication
 5. Features and attributes that lack references





Issue #1

- Should confederation be a peer-type
 - Current peer-types (as enums)
 - internal
 - external
 - confederation-internal (new addition?)
 - confederation-external (new addition?)





Issue #2

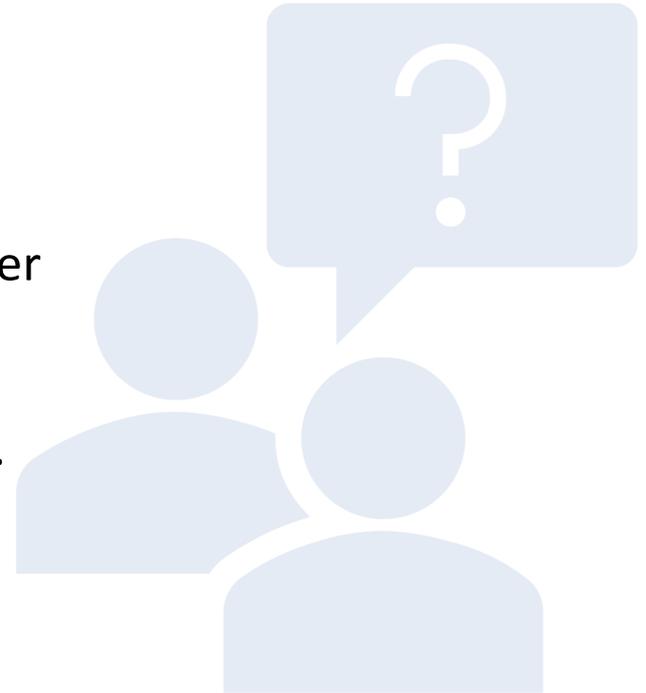
- List of AS path segments
 - AS_PATH is always 4-byte
 - If router is not 4-byte capable, route updates should consist of
 - AS_TRANS of 23456 send/received
 - Or AS is 2-byte





Issue #3

- As-path length container will contain:
 - Calculated AS_PATH length for route per RFC 4271 rules.
 - Lets the user see the number that serves as input to BGP route selection.





Issue #4

- Support for authentication
 - IPSec
 - TCP MD5
 - TCP AO
 - May achieve via using IETF keychain



Issue #5

- Features and attributes that lack references
 - no-client-reflect for Route Reflector.
 - always-compare-med
 - ignore-as-path-length
 - external-compare-router-id
 - advertise-inactive-routes
 - ignore-next-hop-igp-metric
- Will be surrounded by individual feature statements
- Optional to implement

