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