**BGP: Boron: Release Notes**

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**Major Features**

**BGP:**

- BGP/MPLS IP VPNs
- BGP MPLS-Based Ethernet VPN
- Advertisement of Multiple Paths in BGP
- Distribution of MPLS Traffic Engineering (TE) LSP State using BGP
- Route Refresh Capability for BGP-4
- BGP Model for Service Provider Networks
- BGP High Availability (Cluster singleton service)

**Target Environment**

**For Execution**

Java Runtime Environment 8

**For Development**

JDK 8

**Known Issues and Limitations**

- Particular known bugs and workarounds.
  - Bug 6257 - missing PMSI attribute in Inclusive Multicast Ethernet Tag Route
  - Bug 6562 - Support add-path in base BGP NLRI

- Limitations
  - BGP scaling with clustering - it is recommended to create a "bgp-rib" module-based shard without a replication, for more details see BGP user-guide

- Testing methodology. How extensive was it? What should be expected to work? What hasn't been tested as much?

The BGP extensions (L3VPN, EVPN, Route Refresh, Add-Path) were tested manually with vendor’s BGP router implementation or other software implementations (exaBGP, bagpipeBGP). Also, new features are covered by the unit tests and automated system tests.

**Changes Since Previous Releases**

The BGP, PCEP and BMP are no longer depending on TPCMD5 project. This library functionality was replaced with Netty’s TCP MD5 implementation.

**Bugs Fixed in this Release**

At least 28 bugs was fixed.
Migration from Previous Releases

- **Features:**
  no changes

- **Yang Data Models:**
  BGP-FS, BGP-LU model's grouping changes - affects Java DTO users only - update Java imports
  BGP OpenConfig top-level node is augmenting OpenConfig Network Instance model now - affecting target RESTCONF identifiers and namespaces

Compatibility with Previous Releases

No compatibility issues are expected.

Deprecated, End of Life, and/or Retired Features/APIs

- **Deprecated:**
  BGP CSS-based configuration
  Distribution of MPLS Traffic Engineering (TE) LSP State using BGP

- **End of Life:**