

Diverse Path Implementation Report

draft-mynam-grow-diverse-path-impl-00

IETF 80 - GROW WG - Prague

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Background

Implementation report of WG base spec:

Distribution of diverse BGP paths.

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- **No technical changes since -01 version**
- **Stable document (ready for WG last call)**

Diverse Path Implementation Details

Form:

- Name: Satish Mynam, Email: mynam@cisco.com,
- Vendor: Cisco Systems

Support for multiple RRs:

- Provision for Multi plane route reflection ? – **Yes**
- Co-located best and backup path RRs ? – **Yes**
- Multi plane route servers for Internet Exchanges ? – **Yes**

Path Selection:

- Best path selection according to sec 9 of RFC 4271 ? – **Yes**

Diverse Path Implementation Details

Deployment Considerations:

- Does BGP diverse Path implementation be easily enabled by introduction of a new route reflector or route server plane dedicated to the selection and distribution of Nth best-path?
– **Yes**
- Does BGP diverse Path implementation require any upgrades to the edge/core routers? – **No**
- Can BGP diverse Path implementation be deployed on multiple RR clusters ? – **Yes**
- Does your BGP diverse Path implementation involve major modification to BGP implementations in the entire network ? - **No**

Diverse Path Implementation Details

Usage of Diverse Path:

- Does BGP diverse Path implementation require any modifications to BGP4 protocol ? – **No**
- Does it help in the Multi-path load balancing applications for both IBGP and EBGP? – **Yes**
- Does the implementation support second session from RR to the same RR-client preferably terminated at a different loopback address of the route reflector and provide second bestpath to the RR-client? – **No**

Diverse Path Implementation Details

Bestpath algorithm:

- Does it add any modifications to the 9.1. BGP Decision Process in RFC 4271? Does it skip any steps in the decision process ?
 - **No** (modulo optional disabling of IGP metric check step)
- Does the implementation provide support for disabling IGP metric for best path selection ? – **Yes**

Interoperable Implementations:

- By not mandating any BGP protocol change interoperates with any BGP implementation.

Next steps ...

- Authors would like to ask chairs to initiate last call for base Diverse Path Specification:**

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