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:
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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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