

# BGP Path Marking

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# Motivation

- With extensions like add-path or best-external, BGP may send non-bestpaths
- Useful to know whether a path advertised by a BGP speaker was a best path
  - Monitoring applications
  - Avoiding suboptimal routing in Inter-AS VPN

# Path Type Extended Community

- Optional transitive Extended Community
  - Value field encodes path's role as a flag

Value	Path type
0x0000	Unknown
0x0001	Best-path
0x0002	Best-external path
0x0004	Multi-path
0x0008	Backup path
0x0010	Uninstalled path
0x0020	Unreachable path

- Operational considerations
  - Attach the extended community if the path is to be advertised anyway

# Comments?