

# BGP Path Control



Step	Letter	Short Phrase	Preference	Direction	Default	Cisco IOS configuration commands and comments
0	<b>N</b>	Next Hop Reachable	No next hop = can't use	n/a	n/a	n/a
1	<b>W</b>	Weight (proprietary)	Bigger	Outbound	0 - Learned 32768 - Locally injected	<b>neighbor route-map</b> (per prefix) ... use <b>set weight</b> <b>neighbor weight</b> (all routes from neighbor)
2	<b>L</b>	LOCAL_PREF	Bigger	Outbound	100	<b>neighbor route-map in</b> (per prefix) ... use <b>set local-preference</b> Not advertised to eBGP peers. set default using <b>bgp default local-preference</b>
3	<b>L</b>	Locally Injected	Locally over iBGP/eBGP peer	n/a	n/a	Prefer the path that was locally originated via a <b>network</b> or <b>aggregate-address</b> BGP subcommand or through redistribution from an IGP. The aggregate-address command is least favoured in event of tie.
4	<b>A</b>	AS_PATH Length	Smaller	Both	n/a	<b>neighbor route-map in</b> (per prefix) ... use <b>set as-path prepend x y z</b> . In this context, BGPs loop prevention mechanism doesn't block routes with repeated AS numbers in their AS_PATH
5	<b>O</b>	ORIGIN	Prefer I over E over ?	Outbound	n/a	n/a
6	<b>M</b>	MED	Smaller	Inbound	0	<b>neighbor route-map out</b> (per prefix) ... use <b>set metric</b> Even appears as <b>metric</b> in routing table
7	<b>N</b>	Neighbor Type	Prefer eBGP over iBGP	n/a	n/a	n/a
8	<b>I</b>	IGP Metric to Next_Hop	Smaller	n/a	n/a	n/a
9	<b>T</b>	Time it has had route	Older	n/a	n/a	n/a
10	<b>R</b>	Neighbor RID	Smaller	n/a	n/a	<b>bgp router-id</b>
11	<b>I</b>	Neighbor IP	Smaller	n/a	n/a	n/a