

BGP Communities and Routing Policies



The Global IP Network at NTT offers the most comprehensive set of BGP communities in the industry. Unlike many providers, we strive to be transparent with our routing policies and also to provide as much flexibility as possible. The matrix below offers a snapshot of our policies compared to those of other tier-1 providers. These findings are based on publicly available information as of January 2020.

Our focus is on protecting our network and our customers. We believe it is our duty to act as good citizens by educating industry peers and encouraging the adoption of best practices to further our shared mission of a safer and more reliable Internet.

	NTT	CenturyLink/ Level3	Telia	Cogent	Zayo	GTT	TATA	PCCW	HE	Comcast
Published on Public Corporate Website	✓	X	✓	✓	X	✓	X	X	X	✓
Do Not Advertise	✓	Limited	✓	Limited	Limited	Limited	Limited	Limited	X	Limited
To All Peering Partners	✓	✓	✓	✓	✓	✓	✓	✓	X	✓
To Specific Peering Partners	✓	✓	✓	Limited	Limited to 6 Peers	✓	✓	✓	X	✓
To Specific Peering Partners in Specific Continent	✓	Limited to EU	✓	Limited	X	X	X	Limited	X	X
Except to a Specific Peering Partner	✓	X	✓	X	X	✓	✓	X	X	✓
AS Path Prepending	✓	Limited	Limited	Limited	Limited	Limited	X	Limited	X	Limited
To All Customers	✓	X	X	X	X	X	X	X	X	X
To All Customers - Continent Specific	✓	X	X	X	X	X	X	X	X	X
To All Peers	✓	✓	✓	✓	✓	✓	✓	✓	X	✓
To Specific Peering Partners	✓	✓	✓	Limited	Limited to 6 Peers	✓	✓	✓	X	✓
To Specific Peering Partners in Specific Continent	✓	Limited to EU	✓	X	X	✓	X	X	X	X
Local Preference Manipulation	✓	Limited	Limited	Limited	Limited	Limited	Limited	Limited	X	Limited
Local Pref in Specific Continent	✓	X	X	✓	X	X	X	X	X	X
Local Pref Outside Origin Continent	✓	X	X	✓	X	X	X	X	X	X
Local Pref in Specific Country	✓	X	X	X	X	X	X	X	X	X
Local Pref Outside Origin Country	✓	X	X	X	X	X	X	X	X	X
Graceful Shutdown (RFC 8326)	✓	X	✓	X	X	✓	X	✓	X	X
Global Blackhole Routing	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Selective Blackhole: Only Outside Origin Country	✓	X	X	X	X	X	X	X	X	X
Selective Blackhole: Only Outside Origin Continent	✓	X	X	X	X	X	X	X	X	X
Provider Informational Tags	✓	✓	✓	✓	Limited	✓	✓	✓	X	X

Data as of March 2020. If you have any comments about these findings please email GIN at gin@ntt.net.

Additional Information and Resources

Global IP Network (GIN) website: <http://www.gin.ntt.net/>

Routing Policies:

<http://www.gin.ntt.net/support/policy/routing.cfm>

Routing Registry: <http://www.gin.ntt.net/support/policy/rr.cfm>

For a more comprehensive list of additional Carrier BGP Communities, visit OneStep Community Guides: <https://onestep.net/communities/>

"Practical everyday BGP filtering with AS_PATH filters: Peer Locking" (NANOG 67 Presentation): <http://peerlock.net/>