

# BGP Communities and Routing Policies

NTT Communications offers the most comprehensive set of BGP communities in the industry. Unlike many providers, the Global IP Network strives to be transparent with its routing policies and also to provide as much flexibility as possible. The matrix below offers a snapshot of NTT Com's policies compared to those of other tier-1 providers. These findings are based on publicly available information as of September 2018.

While the focus is on protecting its network and its customers, NTT Com believes it is its duty to act as good citizens by educating industry peers and encouraging the adoption of best practices to further its shared mission of a safer and more reliable Internet.

	NTT Com	Level 3	Telia	Cogent	Zayo	GTT	Tata	PCCW	HE	Comcast
<b>Published on Public Corporate Website</b>	✓	X	X	✓	X	✓	X	X	X	X
<b>Do Not Advertise (No Export)</b>	✓	Limited	Limited	Limited	Limited	Limited	X	Limited	X	Limited
To All Peering Partners	✓	✓	✓	✓	✓	✓	✓	X	X	✓
To Specific Peering Partners	✓	✓	Limited	Limited	Limited to 6 peers	✓	✓	Limited	X	✓
To Specific Peering Partners in Specific Continent	✓	Limited to EU	Limited	Limited	X	X	X	X	X	X
Except to a Specific Peering Partner	✓	X	X	X	X	✓	X	X	X	X
<b>AS Path Prepending</b>	✓	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	Limited to 6 peers	✓	X	Limited to 4	X	✓
To Specific Peering Partners in Specific Continent	✓	Limited to EU	Limited	X	X	✓	X	X	X	X
<b>Local Preference Manipulation</b>	✓	Limited	Limited	Limited	Limited	Limited	4	Limited	X	Limited
Local Pref in Specific Continent	✓	X	X	Limited	X	X	X	X	X	X
Local Pref Outside Origin Continent	✓	X	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	X
<b>Global Blackhole Routing</b>	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
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
<b>Provider Informational Tags</b>	✓	✓	X	✓	Limited	✓	✓	✓	✓	X

For a more comprehensive list of additional Carrier BGP Communities, visit OneStep Community Guides: <https://onestep.net/communities/>  
Data as of September 2018. If you have any comments about these findings please email GIN at [info@us.ntt.net](mailto:info@us.ntt.net)

### Additional Information and Resources

NTT Com 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>

Presentations by Job Snijders, IP Development Engineer, NTT Communications:  
"BGP Routing Security: Practical Protection Mechanisms"  
(Capacity Magazine Webinar)  
<https://www.brighttalk.com/webcast/5648/266823>  
"Practical everyday BGP filtering with AS\_PATH filters: Peer Locking"  
(NANOG 67 Presentation)  
[https://www.nanog.org/sites/default/files/Snijders\\_Everyday\\_Practical\\_Bgp.pdf](https://www.nanog.org/sites/default/files/Snijders_Everyday_Practical_Bgp.pdf)