

GBLX Customer BGP Communities

Dedicated Internet Access BGP Communities

GBLX allows customers to modify various attributes of their announced prefixes within the GBLX network. Customers can alter the local preference of their prefixes, thus changing whether a prefix is chosen as the preferred route. However, many external influences can affect whether any given prefix is chosen as the best route. If you are multi-homed and GBLX hears your route(s) from another provider and you alter your local preference to a value lower than the peer's value, the peer learned prefix will be chosen.

In order for you to appropriately manipulate your local preference values, the following is the standard policy applied for GBLX network customers and peers:

Customers:
Local Preference : 300
Metric Policy : Accept customers' metrics

Peers:
Local Preference : 200
Metric Policy : Do not accept peers' metrics.

Setting Local Preference	
Community	Action
3549:100	set local preference 100
3549:200	set local preference 200
3549:275	set local preference 275
3549:300	set local preference 300
3549:350	set local preference 350

Controlling Route Propagation		
Community	Action	Region Enabled
3549:600	Deny inter-continental export of tagged prefix [iBGP].	EU/SA
3549:601	Deny inter-cluster export of tagged prefix [iBGP].	SA
3549:602	Deny inter-country export of tagged prefix [iBGP].	SA
3549:603	Deny inter-metro export of tagged prefix [iBGP].	TBD
3549:604	Deny inter-Hub export of tagged prefix [iBGP].	TBD
3549:605	Deny inter-router export of tagged prefix [iBGP].	TBD
3549:666	Deny inter-as export of tagged prefix (deny to peers, send to customers) [eBGP].	NA/SA/EU/AS
3549:695	Deny in country peers but export globally	SA

For a limited subset of GBLX peering connections, more granular control of announcements is provided. If GBLX sees a community matching 3549:8..., routing announcements sent to the following listed ASNs will be modified according to these rules :

Controlling Route Announcements to Peers					
ASN	Peer	No Export	Prepend +1	Prepend +2	Prepend +3
174	Cogent	8280	8281	8282	8283
209	Qwest	8010	8011	8012	8013
286	KPN	8330	8331	8332	8333
577	Bellnexxia	8090	8091	8092	8093
701	MCI	8030	8031	8032	8033
1239	Sprint	8060	8061	8062	8063
1257	Tele2	8110	8111	8112	8113
1299	TeliaSonera	8250	8251	8252	8253
1668	AOL	8070	8071	8072	8073
2497	JPNIC	8080	8081	8082	8083
2516	KDDI	8100	8101	8102	8103
2828	XO	8260	8261	8262	8263
2914	NTT Verio	8120	8121	8122	8123
3257	Tiscali	8240	8241	8242	8243
3292	TDC	8320	8321	8322	8323
3300	InfoNet Europe	8130	8131	8132	8133
3303	Swisscom	8140	8141	8142	8143
3320	DTAG	8150	8151	8152	8153
3356	Level 3	8160	8161	8162	8163
3561	Savvis	8170	8171	8172	8173
4134	ChinaNet	8230	8231	8232	8233
4637	Reach	8360	8361	8362	8363
5511	OpenTransit	8190	8191	8192	8193
6453	Teleglobe	8210	8211	8212	8213
6461	AboveNet	8200	8201	8202	8203
6762	Seabone (TI)	8050	8051	8052	8053
6830	UPC/Chello	8180	8181	8182	8183
7018	AT&T (US)	8220	8221	8222	8223
7132	SBC	8350	8351	8352	8353
7473	Singtel	8040	8041	8042	8043
7738	Telemar	8290	8291	8292	8293
7911	Wilcom	8020	8021	8022	8023
8220	Colt	8340	8341	8342	8343

12322	Proxad	8310	8311	8312	8313
12956	Telefonica	8270	8271	8272	8273
15169	Google	8370	8371	8372	8373
65000	PTT-Metro/NIC.BR	8360	8361	8362	8363

A customer with ASN 1234 sends GBLX a route tagged with communities “3549:8011 3549:8033 3549:8190”

When that route is reannounced across GBLX peering connections:

Qwest (AS 209) will see an AS path of: “3549 3549 1234”

Verizon (AS 701) will see a path of: “3549 3549 3549 3549 1234”

OpenTransit (AS 5511) will not see the route at all

All other peers will see: “3549 1234”

IP-VPN BGP Communities

Community	LP Value	Action
6745:11	-	set MED based on IGP metric
6745:100	100	set local preference 100
6745:200	200	set local preference 200
6745:600	600	set local preference 600
6745:700	700	set local preference 700
-	750	Default value for customer learned
6745:800	800	set local preference 800
6745:900	900	set local preference 900