BGP Communities



BGP Communities

Our locations :

Netaris Location	Code	Real Location
AMS1	**02**	Nikhef Amsterdam
PAR2	**03**	Equinix PA5 – Netario infra

Our BGP communities :

Our peering partners & transits :

For large communities format is as follows :

- peer-code→ 1XX(Transit), 2XX(Public peering), 3XX(Private Peering), 5XX(Netaris), 20XX(Customer)
- The X will represent different locations defined above
- peer-as → The ASN of the peer, no equivalent is possible for legacy communities for 32 bit ASN, so an alias is created below for each upstream or important peer

Legacy Community	Large Community	Upstream / Peering
64615:1X0	211615:peer-code:peer-as	All peers
64615:500	211615:5XX:**211615**	Netaris

64615:120	211615:102:**209768**	AMS1 - White2Net
64615:130	211615:103:**15830**	PAR2 - Equinix
64615:2000	211615:20XX:**peer-as**	Customer

Local preferences :

As a customer you can control the local preference of your prefixes on our network :

Community	Large Community	Value
64615:5010	211615:5000:**10**	**10** (Below everything-least preferred)
64615:5100	211615:5000:**100**	**100** (Below peers)
64615:5150	211615:5000:**150**	**150** (Below customer, above upstream)
64615:5200	211615:5000:**200**	**200** (Above customer default)

Prepending :

As a customer you can control the prepending of your prefixes before we send them to upstream and peering :

Community	Large Community	Result
64615:6001	211615:6001:0	Prepend AS211615 **1** time
64615:6002	211615:6002:0	Prepend AS211615 **2** time
64615:6003	211615:6003:0	Prepend AS211615 **3** time

Partner-specific community :

With all of our partners, we have partner-specific communities, here is the format :

Legacy Community	Large Community	Effect
N/A	211615:6001:**peer-as**	**Prepend 1x** to peer-as
N/A	211615:6002:**peer-as**	**Prepend 2x** to peer-as
N/A	211615:6003:**peer-as**	**Prepend 3x** to peer-as
N/A	211615:6009:**peer-as**	**Do not announce** to peer-as

The same applies for all of our peering partners defined above

> The use of large community is mandatory for partner-specific communities.

Blackhole community :

We support the blackhole community and passes it to our peering partners when supported:

Legacy Community	Large Community	Effect
64615:666	211615:666:0	**Nullroute** /32 v4 and /128 v6

Graceful BGP shutdown :

We support the well-known community GRACEFUL_SHUTDOWN :

Legacy Community	Large Community	Effect
65535:0	211615:5000:**0**	Set local preference to 0

Our Routing Policies:

Our local preferences :

Route Source / Relationship	Transport / Variation	Local Pref Value	Comments / Policy Considerations
Locally Originated	Local	**200**	
Direct Customer	Direct	**199**	
Direct Upstream	Direct	**120**	
Direct Peer	Direct	**110**	
Peer via IXP/PNI	IXP/PNI	**105**	
Default	N/A	**100**	Routes that do not clearly fall in one of the above categories
Distant Mesh Routes	Mesh between PoPs, exact local pref depends on the latency	**99-50**	These routes are used only when a direct link is not available.

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