

Fusix AS57866 BGP Communities.

Action communities

Per AS

- Regular communities only work for 16-bit ASes.
- Setting <peer_as> only works for transit providers and private peers.
- Setting <peer_as> = 0 means that the no-export/prepend action will be taken against all transit providers, private and public peers.

Regular community	Large community	Description
65000:<peer_as>	57866:0:<peer_as>	No-export to AS <peer_as>
65001:<peer_as>	57866:1:<peer_as>	Prepend once to AS <peer_as>
65002:<peer_as>	57866:2:<peer_as>	Prepend twice to AS <peer_as>
65003:<peer_as>	57866:3:<peer_as>	Prepend thrice to AS <peer_as>

Per network type

- These actions work for transit providers, private peers and public peers. Not Fusix customers.

Regular community	Large community	Description
65010:<network_type>	57866:10:<network_type>	No-export to network type <network_type>
65011:<network_type>	57866:11:<network_type>	Prepend once to network type <network_type>
65012:<network_type>	57866:12:<network_type>	Prepend twice to network type <network_type>
65013:<network_type>	57866:13:<network_type>	Prepend thrice to network type <network_type>

Per IXP

- Regular communities only work for 16-bit IXP RS ASes.

Regular community	Large community	Description
65020:<ixp_id>	57866:20:<ixp_id>	No-export to IXP <ixp_id>
65021:<ixp_id>	57866:21:<ixp_id>	Prepend once to IXP <ixp_id>
65022:<ixp_id>	57866:22:<ixp_id>	Prepend twice to IXP <ixp_id>
65023:<ixp_id>	57866:23:<ixp_id>	Prepend thrice to IXP <ixp_id>

Per site

- Only applicable for border router sites.

Regular community	Large community	Description
65030:<site_id>	57866:30:<site_id>	No-export to site <site_id>

65031:<site_id>	57866:31:<site_id>	Prepend once to site <site_id>
65032:<site_id>	57866:32:<site_id>	Prepend twice to site <site_id>
65033:<site_id>	57866:33:<site_id>	Prepend thrice to site <site_id>

Per country

- Only applicable for border router sites.

Regular community	Large community	Description
65040:<country_id>	57866:40:<country_id>	No-export to country <country_id>
65041:<country_id>	57866:41:<country_id>	Prepend once to country <country_id>
65042:<country_id>	57866:42:<country_id>	Prepend twice to country <country_id>
65043:<country_id>	57866:43:<country_id>	Prepend thrice to country <country_id>

Special & well-known action communities

Regular community	Large community	Description
65535:0	N/A	Graceful shutdown (RFC6198)
65535:666	N/A	Blackhole all traffic to the prefix (RFC7999). Only /32 (IPv4) and /128 (IPv6) routes supported
65535:65281	N/A	NO_EXPORT (RFC1997), rewritten to 57866:0:0, 65000:0
65535:65282	N/A	NO_ADVERTISE (RFC1997), No propagation within AS57866 and also not outside AS57866
65535:65283	N/A	NO_EXPORT_SUBCONFED (RFC1997) Not applicable, rewritten to 57866:0:0, 65000:0
65535:65284	N/A	NO_PEER (RFC3765), rewritten to 57866:10:200, 65010:200 and 57866:10:300, 65010:300
57866:9080	57866:90:80	Set local pref lower to use route as backup route (even lower than routes learned from transit)

Informational communities

Regular community	Large community	Description	Remarks
65100:<peer_as>	57866:100:<peer_as>	Learned from network <peer_as>	Only for transit providers and private peers. Regular communities only work for 16-bit ASes
57866:<network_type>	57866:101:<network_type>	Learned from network type	
65102:<ixp_id>	57866:102:<ixp_id>	Learned at IXP ID	Regular communities only work for 16-bit IXP RS ASes
65103:<site_id>	57866:103:<site_id>	Learned in POP <site_id>	Only applicable to border router PoPs
65104:<country_id>	57866:104:<country_id>	Learned in country <country_id>	

Network types

100	transit providers
200	public peers
300	private peers
500	customers
57866	Fusix originated

IXP IDs

24115	Equinix-IX
41441	Speed-IX
56393	Frys-IX

Site IDs

Only applicable for border router sites

1	NIKHEF
2	Equinix AM6
3	Digital Realty AMS17

Country IDs

31	The Netherlands
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