

members  
services  
workshops  
about  
research  
connecting  
links  
sitemap  
contact  
faq  
press  
private



TREX runs two route servers to facilitate the interconnection of members. The route servers accept all RIPE registered routes from all members that wish to peer with the route servers and announce those routes to all members that wish to receive them.

Both route servers are running **BIRD**<sup>1</sup> right now. However, we have plans to change one of them to run some other software to protect the service from bugs occurring in either one of the chosen software routing daemons. Further details are as yet unavailable.

The AS number that the servers use is 197032 which is a 32-bit ASN. Members that wish to peer with it, but who cannot configure 32-bit ASNs in their routers should configure 23456 instead. All ASNs visible via the route-servers have been collected into the AS macro **AS197032:AS-ALL**<sup>2</sup>. The addresses of the servers are 195.140.192.1, 195.140.192.2, 2001:7f8:1d:4::1 and 2001:7f8:1d:4::2.

Members who have transit-customer relationships with other members on the exchange should be careful about using the route servers in case they might inadvertently damage the functionality of said transit. The communities listed below can be used to limit route visibility in such cases.

## **➤ BGP Communities Supported**

<b>Community</b>	<b>Announce?</b>
197032:0:ASN	not to ASN
197032:0:65534	not to anyone
197032:65534:ASN	yes to ASN

<sup>1</sup> <http://bird.network.cz/>

<sup>2</sup> [https://apps.db.ripe.net/search/query.html?form\\_type=simple&full\\_query\\_string=&searchtext=-r+AS197032:AS-ALL&do\\_search=Search](https://apps.db.ripe.net/search/query.html?form_type=simple&full_query_string=&searchtext=-r+AS197032:AS-ALL&do_search=Search)

## Secondary Service: Multi-Lateral Peer BGP Communities Supported

The route servers respect some parametrized BGP Communities as well as **Large Communities**<sup>3</sup>. To forbid the announcement of a route to a certain peer, use the community 0:peer-AS. For example to forbid announcing the route to AS1234 and AS2345 tag the route with the following communities:

```
0:1234 0:2345
```

The Large Community equivalents are:

```
197032:0:1234 197032:0:2345
```

To change from opt-out style announcement of routes to opt-in style announcement, use the community 0:65534. Routes with that community will not be announced to any peer unless the community 65534:peer-as appears on the route. For example, to announce a route to only autonomous systems 29243 and 51164 use the following set of communities:

```
0:65534 65534:29243 65534:51164
```

The Large Community equivalents are:

```
197032:0:65534 197032:65534:29243 197032:65534:51164
```

Only the Large Communities will work with 32bit autonomous system numbers.

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<sup>3</sup> <http://largebgpcommunities.net/implementations/>