

Routing Information

Autonomous System (AS) Numbers

The AARNet3 network uses AS number 7575 and so any BGP peering with AARNet3 will be against this AS number. AARNet recommends that any organisation that connects to more than one transit provider acquire a public AS number. AARNet can obtain AS numbers from APNIC on behalf of its customers. Customers that only connect to AARNet should contact AARNet so that a "private" AS number can be issued to them.

Filtering

Within AARNet3 the import and export of prefixes is controlled. The mechanism can be broadly described as follows. On import from a customer the routing announcement is filtered by prefix and AS path and the accepted prefixes are tagged with a community that describes the type of prefix and the router that imported it. Prefixes exported from AARNet3 to customers, peers and transit providers are selected using the communities tagged on the prefix.

The ranges of communities in use by AARNet3 are listed on the aut-num object for AS7575 registered at RADB. To see this object use the whois protocol to query whois.ra.net for AS7575 or use the search function at <http://www.radb.net>. Some of the more interesting communities are:

7575:1000

AARNet or Customer announced prefix

7575:1001

Prefix learned from a Research and Education Network

7575:1002

Prefix learned from a Commodity Internet Peer

7575:1003

Prefix learned from a Commodity Internet transit provider

7575:2xxx

Prefix learned from router with loopback address 202.158.192.xxx

The aut-num object is described using the Routing Policy Specification Language (RPSL), which is defined in [RFC 2622](#). A tutorial on RPSL is available as [RFC 2650](#). [RFC 4012](#) updates RFC 2622 to include multi protocol support.

Typically AARNet will send a default route and prefixes tagged with 7575:1000 to customers.