

BOGON ASNS MUST DIE

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Why?

Occurrences of AS 23456 are misconfigurations or software bugs.

Private/Reserved ASNs have no place in the global routing table

We should not reward misconfigurations by accepting these routes.
The new paradigm: **fail hard & fail fast.**

The Policy...

The NTT Global IP Network will **NOT** accept route announcements from **ANY** eBGP neighbors which contain a “Bogon ASN” **anywhere** in the AS_PATH or its atomic aggregate attribute.

Bogon ASNs are defined as

23456,

64496-131071

4200000000-4294967295

This policy is effective starting July 2016.

<http://www.us.ntt.net/support/policy/routing.cfm#bogon>

Break down

23456	# AS_TRANS
64496-64511	# Reserved for use in docs and code RFC5398
64512-65534	# Reserved for Private Use RFC6996
65535	# Reserved RFC7300
65536-65551	# Reserved for use in docs and code RFC5398
65552-131071	# Reserved
4200000000-4294967294	# Reserved for Private Use RFC6996
4294967295	# Reserved RFC7300

Config examples

<http://mailman.nlnog.net/pipermail/nlnog/2016-May/002584.html>

BIRD, IOS XR, JunOS.

```
policy-options {
    as-path-group bogon-asns {
        as-path as_trans ".* 23456 .*";
        as-path reserved1 ".* [64496-131071] .*";
        as-path reserved2 ".* [4200000000-4294967295] .*";
    }
    policy-statement import_from_ebgp {
        term bogon-asns {
            from as-path-group bogon-asns;
            then reject;
        }
        term .....
    }
}
```

Call to action

Please join us, commit to implementing this too!

But, do **NOT** implement this if you are the only network person in your organization; or you foresee that your network will on auto-pilot mode soon. You'll need to check on a yearly basis whether the filter is still correct.

Follow the “IANA AS Numbers registry update” emails