## **ASN Assignment Policy**

**RIPE71 Routing Working Group** 

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## **ASN Assignment Policy**

current policy dates from 1996

not perfect

19 years old

worked reasonably well for 19 years

people need asns even if they don't multihome we're going to run out of asn16s







how important is this?

current policy is broken

not very

sometimes people need an asn anyway

but we don't want people to lie



how urgent is this?

no

hmmm

and they're the same, right?

but we have lots of asn32s?



Variable vendor support, particularly on older software

No support for 32b:32b communities due to BGP specification limitations

This doesn't matter to many organisations

Unless you plan to export policy with communities





not necessary

but if we do, let's fix these problems



...an AS is only required when exchanging routing information with other ASes



80% of asn assignees have only a single asn

most end users know when they need an asn

no shortage of asn32

if an end user wants a single asn32, why not just give it to them?



subsequent asn32s can be assigned if the end user states a need



an asn16 can be assigned if the end user states a need which cannot be satisfied by an asn32



after the pool of asn16s drops to a certain size, an end user can only be assigned a single asn16 from it, if needed



## **Proposal Summary**

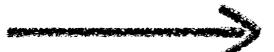
"need"

exchanging routes with other asn

first asn32

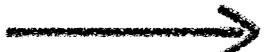
entitlement

next asn32s



need

asn16 before runout



need

asn16 after runout



single assignment

