Address Policy WG

Temporary Number Resource Assignments



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Freely available IPv4 address space will be gone in ~2012









EVERYBODY

PANIC!!!11!!



Did someone mention that

16 bit ASNs

might be running out too?







Once they're gone, they ain't coming back



People are still in emotional denial

that IPv4 address space will soon become

a scarce resource





And we aren't coming up with good and reasonable ideas

about how to make it last longer





... and that's assuming that

making it last longer is actually a good idea





but we can't make the supply

of finite resources

last longer if...





... we use an assignment policy

based on the principle of

"assignment for indefinite duration"





So, what would happen if we allowed

an assignment policy

based on the principle of

"assignment for fixed duration"



Reduce, Reuse, Recycle!



We could reassign

the same address space again

and again

and again



This will provide end-users who only need

resources for a short period

and the supply WON't dry up





IPv4 and ASN16 assignment today





IPv4 and ASN16 assignment in 2012



How can we make a policy of

assignment for fixed duration

actually work in practice?





Principles

Reserve a chunk of IPv4 space

Reserve a bunch of 16 bit ASNs

Don't limit NCC to just IPv4 and ASN16

Assign for fixed time period only



Principles

Change the address plan requirements

Define some categories

(Experimental, research, conferences, time limited projects, new product testing, etc)

Try to predict and stop future abuse



Policy Problems

PI assignment only? Or does allocation make sense?

Is this compatible with IANA to RIPE NCC delegation?

Regulatory stuff



45. It could be argued RIPE NCC "competes" with the LIRs when it comes to PI address space: an End User has the possibility to request PI resources either directly from the RIPE NCC or via an LIR. In this market, however, RIPE NCC has no dominant position (it only has one or two out of hundreds End Users as customers). Additionally, RIPE NCC does not aim to reserve some address space for its PI direct assignments and the current IPv4 address space allocation (RIPE-471) provides that the use of PA address space should always be recommended. Accordingly, a primary line abuse from the side of RIPE NCC is excluded.

Reply to RIPE NCC "Competition law analysis of the proposed RIPE final /8 policies" -Contrast European and Business Law, 30 September 2008.



In other words

this policy proposal may have substantial legal consequences

(but I am not a lawyer)





Technical Problems

Address space poisoning

End-user mightn't stop advertisements

Quarantine period

Other unknown unknowns



Discussion?