

IANA IPv4 Registry

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Overview

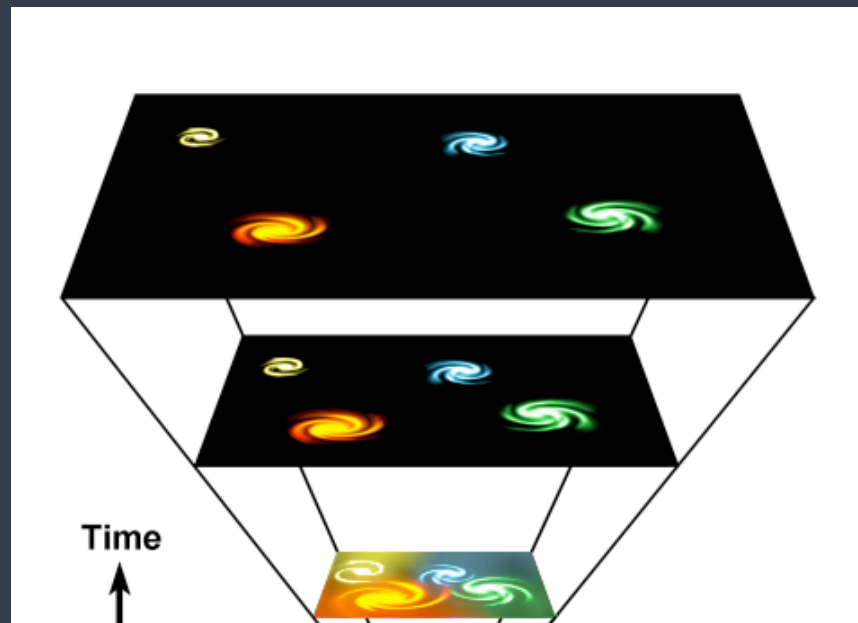
How did we get here?

Where are we?

Did we tidy up?

A spoonful of sugar

How did we get here?



the beginning...

There were just 256 networks

- There would be a very few networks and they very large. Or so it was thought.

It turns out this was wrong and more networks needed

Small, Medium & Large

Classes were introduced

- Many more networks were now possible
- Addresses were distributed and configured
- These are the “legacy assignments”



ner is better

CIDR was introduced to be provide finer gra

Sizes now ranged from XXXS to XXXL

Address blocks fit networks more closely

Legacy assignments could now be used more



Where are we?

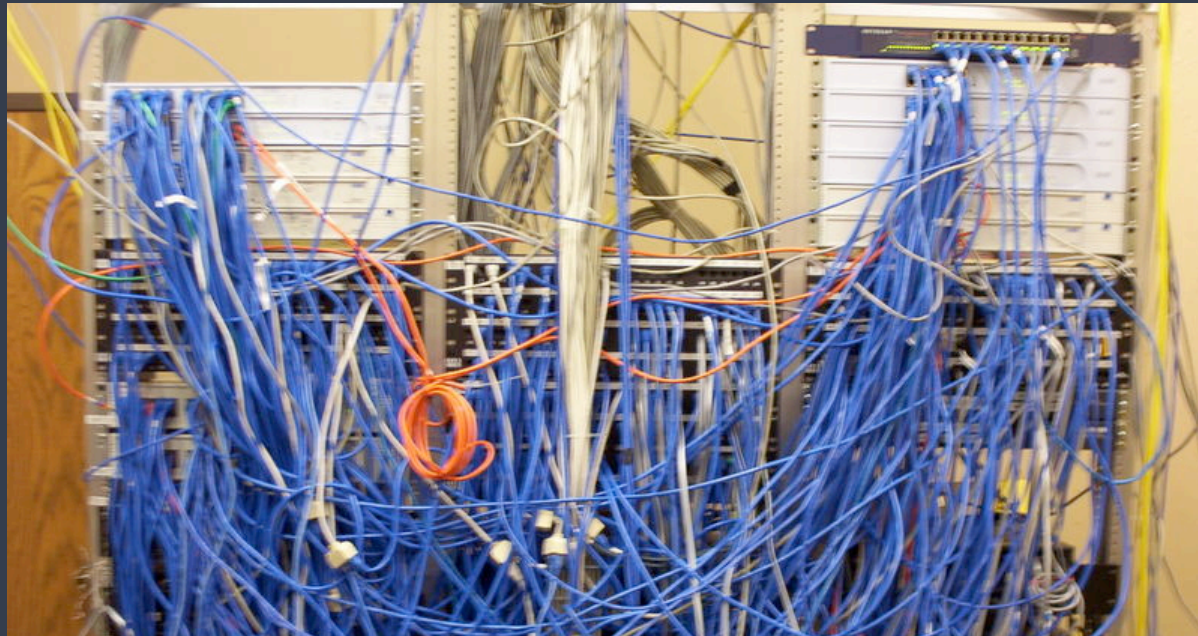


v4 Status - June 2008

**8s
ABLE**

182 /8s ALLOCATED

Did we tidy up?



reviewing legacy /8 assignments

Actively reviewed the legacy /8 assignments

- 1 relatively easy target: 14.0.0.0/8

- All other blocks actively used

- 14.0.0.0/8 reclaimed in January after a year's

- Extended the free pool lifetime by about a mo

the unallocated space

Some of this space is used despite not being

This could cause problems when it is allocated

We have tried to measure its use

- Which /8s are used?

- Distribution within those /8s?

research results

Duane Wessels analysed the DITL 2008

<http://www.caida.org/projects/ditl/>

<http://public.oarci.net/files/dnsops-2008/Wesselspace.pdf>

Using the results

Coordinate with the RIRs to ensure distribution of the final few /8s is done in an open and transparent manner

- No decisions taken yet

A spoonful of sugar



v4 registry improvements

Improved text format

- Status clearly delineated

- Whois servers clearly identified for legacy “B”

XMLification

Now available in XML and XHTML, too

- Easy for computers to parse

- Will allow us to provide update subscription service

- <http://www.iana.org/reports/2008/xml-registry->

All IANA registries to follow in July

Thank you

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