



# The show goes on for the IANA IPv4 Address Space Registry

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One World

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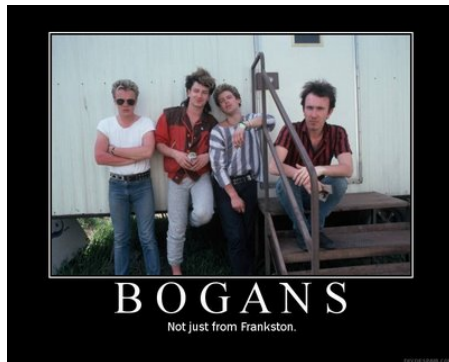
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# New since Hong Kong

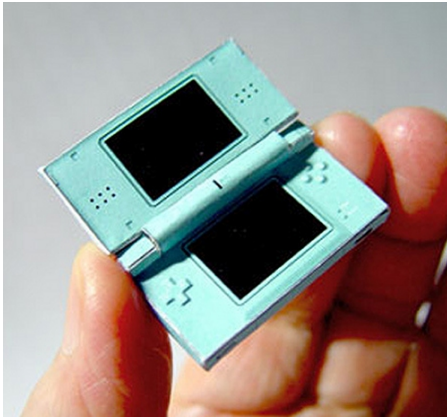
## *Progress*

# The 'no more bogons' draft



- draft-vegoda-no-more-unallocated-slash8s was accepted as a GROW WG document & became
- draft-ietf-grow-no-more-unallocated-slash8s passed WG Last Call & now with the AD prior to IETF LC

# IETF IPv4 address assignments



- 192.0.0.0/29 has been assigned for DS-Lite
- It's registered in the IANA IPv4 Special Purpose Address Registry
- Note it has a “routing scope” field

# More on “routing scope” (1)

- In an RPKI deployment, some IETF assignments need ASO ROAs, such as 192.0.0.0/29
- These are required by draft-ietf-sidr-iana-objects, which is in the RFC Editor queue

# More on “routing scope” (2)

- There are proposals to make the IANA IPv4 Address Space Registry automatically parsable by computers
- draft-manderson-routing-intent
  - submission to the IETF GROW WG & would require adding
  - routability statements
  - more granularity

# An example

This is an extract of the impact of the extra granularity on part of 198.0.0.0/8 as proposed in draft-manderson-routing-intent

| Prefix          | ... | Status    | PRI          | Note  |
|-----------------|-----|-----------|--------------|-------|
| ...             |     |           |              |       |
| 198.0/12        |     | ALLOCATED | Routable     |       |
| 198.16/15       |     | ALLOCATED | Routable     |       |
| 198.18/15       |     | RESERVED  | Not Routable | [ref] |
| 198.20/14       |     | ALLOCATED | Routable     |       |
| 198.24/13       |     | ALLOCATED | Routable     |       |
| 198.32/12       |     | ALLOCATED | Routable     |       |
| 198.48/15       |     | ALLOCATED | Routable     |       |
| 198.50/16       |     | ALLOCATED | Routable     |       |
| 198.51.0/18     |     | ALLOCATED | Routable     |       |
| 198.51.64/19    |     | ALLOCATED | Routable     |       |
| 198.51.96/22    |     | ALLOCATED | Routable     |       |
| 198.51.100.0/24 |     | RESERVED  | Not Routable | [ref] |

# Useful?

- Operators could parse the registry programmatically, allowing filter generation to be automated
- The registry could get quite long



# Taking part in the discussion

- Get the drafts

<http://tools.ietf.org/html>

- IETF GROW WG

<http://tools.ietf.org/wg/grow>

- IETF SIDR WG

<http://tools.ietf.org/wg/sidr>



Thank you

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# Questions