Reclaiming our legacy...

... address space

What was involved in reclaiming 14.0.0.0/8

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Overview

- Which address space
- Tell me about 14.0.0.0/8
- Time spent
  - By me
  - By other people
- More?
- Conclusion
Balance sheet

A Mesopotamian balance sheet
Outgoings are not sustainable

- Coming home...
  2
  1
  1 (almost)

- Leaving home...
  5
  4
What was 14.0.0.0/8 used for?

An X-25 Gyrocopter
What is/was 14.0.0.0/8 used for?

- 14.0.0.0/8 — “One of the Internet Class A Networks is the international system of Public Data Networks. This section lists the mapping between the Internet Addresses and the Public Data Network Addresses (X.121)”

- “X.121 is the ITU-T address format of the X.25 protocol suite used as part of call setup to establish a switched virtual circuit between Public Data Networks (PDNs), connecting two network user addresses (NUAs). It consists of a maximum of fourteen binary-coded decimal digits and is sent over the Packet Layer Protocol (PLP) after the packet type identifier (PTI).”
About these addresses

• Mostly one or two addresses assigned
• Mostly not in use
• Low value to keep
• Low cost to return
How much work was there?
How many registrations were there?

- 984 addresses
- 29 contacts
  - 19 with e-mail addresses
  - 6 without e-mail addresses
  - 3 mystery contacts
So how long did it take?

A candle clock
How long did it take me?

• About 100 hours
  – Research
  – E-mail
  – IM
  – Phone
  – Face-to-face meetings
How long did it take the registrants?

• It varied from network to network
• But they...
  – Audited their networks
  – Scheduled maintenance slots
  – Renumbered devices
  – Had meetings and helped me investigate
• 5 minutes to 5 days work
How long did it take 3rd parties?

- 5 minutes to a few hours spread over a few days
Summary

- A /8 lasts about 1 month at current consumption rates
- Registry cost was about 6 mins per address
- 3½ hours per registration
- Low value addresses
  - Prefixes longer than /24
  - Not aggregated
  - Former Class A space

DOES NOT SCALE
Questions