



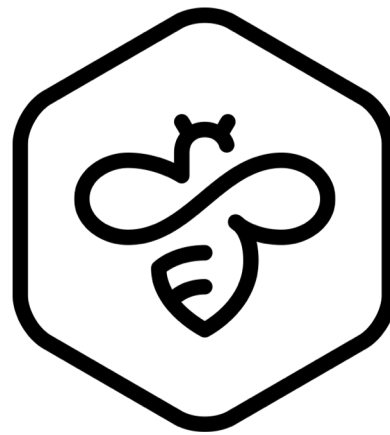
Hey IETF! The IPv6 Doc Prefix is Too Small!*

* and also we need one for labs...



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Issue/Problem/Use Cases

- 2001:db8::/32 isn't large enough
- Can't build labs at scale
- Can't build joint lab environments (National Laboratories)
- Can't document or design larger than a /32
- Currently running into this w/ many Fortune 1000, US Federal and US States in trying to do their IPv6 work
- ULA is not useable in dual-stack lab scenarios, we need something that looks and behaves like GUA but is local
- Projects are already using larger "lab" allocations



Proposed Solution

- Two drafts – one for additional doc space, one for lab
- For lab – reuse 200:: $/7$ (Formerly OSI NSAP-mapped prefix)
- For documentation – reuse/repurpose fec0:: $/10$ (Site-Local)
- For documentation – reuse/repurpose 3ffe:: $/16$ (6bone)
- For documentation – continue w/ existing 2001:db8:: $/32$
- Optionally, consider expanding 2001:db8:: $/32$?
- Consider a new prefix entirely?
- Note: Bogon/Blocklists/Filters are all being used for the above already, you aren't going to see them in the DFZ

Current Status



- Surprising number of objections from the IETF v6ops
 - Use ULA, you just don't understand how it works (see issue slide)
 - Use 2001:db8::/32 and “prefix shift” (doesn't work for labs, maybe for address plans?)
 - We are trying to recover those prefixes, we are concerned we will run out of IPv6 space in 50 year. (Why don't we worry about the issue in front of us – getting people to actually adopt IPv6?)
 - You are allocating way to large a prefix for that purpose. (We are reusing what was thrown in the garbage bin)
 - The issues identified are not legitimate needs
- So, what does the community think? Do you have a need?

Questions and Answers



Are there any questions or comments?

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