

Framework for Multi-domain IPv6-only Underlay Network and IPv4 as a Service

draft-ietf-v6ops-framework-md-ipv6only-underlay

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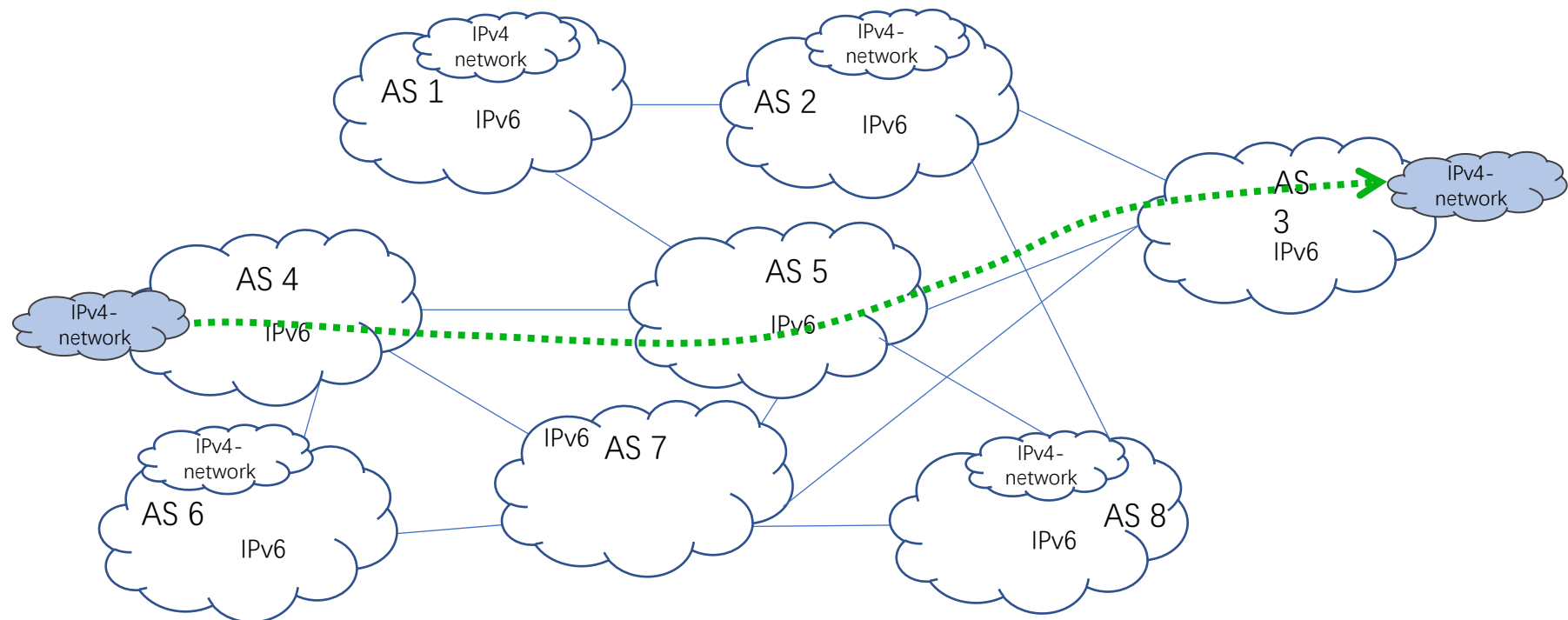
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Overview

- This document specifies requirements and proposes a framework for deploying IPv6-only as the underlay in multi-domain networks.
- Its purpose is to provide end-to-end IPv4 service delivery over multi-domain IPv6-only underlay networks in a scalable way.
- It was adopted after IETF 115 in January 2023, the current version is -04.



Revisions made in version -04(1/2)

- The term of "multi-domain IPv6-only networks" is changed to "multi-domain IPv6-only network", since the singular form is more suitable than plural form.
- Reference section has been revised, one reference item has been changed from draft to its RFC, another one is move from the Normative reference to Informative reference, one item is removed.
- Several editorial changes

Revisions made in version -04(2/2)

- The section of 'IPv6 Mapping Prefix Allocation' has been changed by adding additional illustration for NSP(Network Specific Prefix).

Cons:

Not found yet.

Cons:

If the operator does not have a specific address prefix planning and policy configuration, in the case of operator-interworking, the same IPv4 address block will receive NSP prefixes from different operators, forming different IPv6 mapping routes. This may lead to an increase scale of the routing table in the IPv6 network, including FIB and RIB.

Acknowledgement for your comments

- Comments were received from Brian E. Carpenter, Jeffrey Haas, Bob Harold, Dhruv Dhody, Xipeng Xiao, Eduard Metz, Giuseppe Fioccola, Qin Wu, Shuping Peng, Zhenbin Li, Ron Bonica, Cheng Li, Vasilenko Eduard, Jingrong Xie, Aijun Wang, Dhruv Dhody, Nick Buraglio, Linda Dunbar, Guoliang Han, Weiqiang Cheng, Tianran Zhou, Huaimo Chen, etc.
- All are appreciated!

Next Steps

- We think the document is stable and apply for LC in v6ops WG.
- Any new comments and suggestions are highly welcome.

Thank you !
Q&A