

22 July 2024



SRv6OPS WG @ IETF 120

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Internet Engineering Task Force
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Definitive information is in the documents listed below and other IETF BCPs. For advice, please talk to WG chairs or ADs:

- [BCP 9](#) (Internet Standards Process)
- [BCP 25](#) (Working Group processes)
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- [BCP 54](#) (Code of Conduct)
- [BCP 78](#) (Copyright)
- [BCP 79](#) (Patents, Participation)
- <https://www.ietf.org/privacy-policy/> (Privacy Policy)

Note Really Well

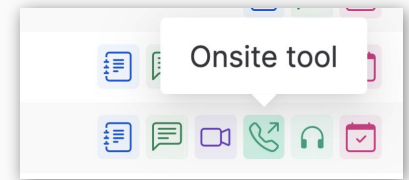
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IETF 120 Meeting Tips

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- Use Meetecho (usually the “Meetecho lite”) client to:
 - join the mic queue
 - participate in shows of hands
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Remote participants

- Make sure your audio and video are off unless you are chairing or presenting during a session.
- Use of a headset is strongly recommended.

Administrivia

- Minute taker(s)
 - Collaborative minutes
 - <https://notes.ietf.org/notes-ietf-120-srv6ops>
- Meetecho Etiquette
 - Join the common queue (onsite/remote) via meetecho
 - Do not send audio directly
 - Please state your name before speaking
 - Be mindful of the agenda time
 - Longer discussion on mailing list (or [zulip](#) chat)
- Please use the mailing list actively!
- Use the WG [wiki](#) & [GitHub](#)

Agenda Bashing

Introduction

- 1.1. Administrivia, Agenda Bashing
- 1.2. Charter & Milestones Recap
- 1.3. A word from the Responsible AD

Operator Presentations

- 2.1 Verizon: SRv6 in Verizon
- 2.2 China Unicom: SRv6 in the Cloud
- 2.3 Rakuten: SRv6 deployment case study

Initial Draft Discussion

- 3.1 SRv6 Deployment and Operation Problem Summary
draft-liu-srv6ops-problem-summary
- 3.2 IPv6 Address Assignment for SRv6
draft-liu-srv6ops-sid-address-assignment
- 3.3 Best Practices for Protection of SRv6 Networks
draft-liu-srv6ops-sr-protection
- 3.4 Alternate Marking deployment status
draft-zhou-srv6ops-am-deployment-status

WG Charter & Milestone Recap

Charter

The Segment Routing (SR) instantiation on the IPv6 data plane is known as SRv6.

Objective:

The SRv6OPS Working Group (WG) is dedicated to the **operational aspects of deploying and managing SRv6** networks. Our mission includes:

- Being a **forum for network operators** to discuss operational matters in SRv6 networks.
- Identifying and addressing **operational challenges** encountered during SRv6 deployments. Additionally, developing **operational guidelines** to ensure secure, reliable, efficient, and scalable SRv6 network operations.

Charter

Scope:

The SRv6OPS WG is dedicated to creating **informational documents** that provide deployment guidance, address operational issues, and identify gaps.

The development of protocols and protocol extensions is beyond the scope of the SRv6OPS WG. The chairs of the SRv6OPS WG will **consult** with the responsible Area Director (AD) before adopting documents that discuss operational considerations and guidance for SRv6-related technologies **still under development in other WGs** (such as SPRING and 6MAN). Presentations on relevant operational topics and discussions aimed at gathering feedback from the operator community deploying SRv6 are encouraged.

The SRv6OPS WG scope includes:

- **Operational Issues and Requirements**: Addressing IPv6 address planning for SRv6 Segment Identifiers (SIDs), protection, inter-domain, and interworking with other technologies. The WG may choose not to publish requirements as an RFC, but maintain them in a draft form or a collaborative WG space.
- **Deployment Scenarios**: Discussing operational considerations for various network environments and use cases.
- SRv6 Network **Management Guidance**: Providing insights on configuration, observability, service assurance, and performance optimization.

Charter

Key Deliverables:

The SRv6OPS WG will focus on the following items:

- Documenting **operational or management issues** encountered during SRv6 deployment.
- Documenting SRv6 **deployment experiences**, including different deployment scenarios (metro, core, and enterprise networks), scalability, and inter-domain implementations.
- Providing **recommendations and guidance** for various aspects such as IPv6 address planning, block size allocation, and the division of global/local identifiers block (GIB/LIB) for SRv6 SIDs, both with and without SRv6 compression techniques.
- Providing SRv6 **network management guidance** for configuration, automation, and performance optimization.
- Developing SRv6 **network observability guidance** for service assurance and troubleshooting.

Charter

Relationships with Other WGs:

The SRv6OPS WG will cooperate with other WGs as necessary. Key interactions include (but are not limited to):

- SPRING WG: **Close cooperation** on SRv6 protocol extensions, new requirements, and operational considerations.
- V6OPS WG: Cooperation on operational guidance and addressing deployment challenges.
- 6MAN WG: Cooperation on core IPv6 functionalities, requirements, and operational considerations.
- BESS WG: Cooperation on SRv6-based protocol extensions for BGP-enabled services, new service transport requirements, and operational considerations.
- IDR WG: Cooperation on SRv6-based BGP extensions, new SRv6-based attributes and encodings, and operational considerations.
- PCE WG: Cooperation on SRv6-based PCEP extensions, new SRv6-based attributes and encodings, and operational considerations.
- LSR WG: Cooperation on SRv6-based IGP protocol extensions, new SRv6-based attributes and encodings, and operational considerations.

The chairs will ensure that Working Group Last Call (WGLC) and Adoption notices are **cross-posted** to the relevant WGs.

Milestones

- Dec 2024 Adopt a document describing operational and management issues encountered during SRv6 network deployment.
- Mar 2025 Adopt a document that makes SRv6 operational recommendations.
- Mar 2025 Adopt a document describing SRv6 network deployment scenarios and related operational considerations.

A word from our AD...



Artist: ChatGpt



Thanks & Let us kick start the
1st SRv6OPS WG Session...

