26 July 2024

IETF 120 SPRING

This session is being recorded
Note Well

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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)
- BCP 25 (Anti-Harassment Procedures)
- BCP 54 (Code of Conduct)
- BCP 78 (Copyright)
- BCP 79 (Patents, Participation)
- https://www.ietf.org/privacy-policy/(Privacy Policy)
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IETF 120 Meeting Tips

In-person participants

● Make sure to sign into the session via Datatracker or the QR Code in this session.
● Use Meetecho (usually the “Meetecho lite”) client to:
  ○ join the mic queue
  ○ participate in shows of hands
● Keep audio and video off if not using the onsite version.

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.
Minutes are collaborative

https://notes.ietf.org/notes-ietf-120-spring?both

Please help with the notes

Please check and correct your name and comments...
# Document Activity Update

<table>
<thead>
<tr>
<th>Document</th>
<th>Name</th>
<th>WG Status</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>draft-peng-spring-pmtu-sr-policy</td>
<td>Path MTU (PMTU) for Segment Routing (SR) Policy</td>
<td>Adopted by a WG</td>
<td>Waiting for draft-ietf-*</td>
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<tr>
<td>draft-agrawal-spring-srv6-mpls-interworking</td>
<td>SRv6 and MPLS interworking</td>
<td>Call For Adoption By WG Issued</td>
<td>Ends on August/1, please review!</td>
</tr>
<tr>
<td>draft-ietf-spring-srv6-srh-compression</td>
<td>Compressed SRv6 Segment List Encoding</td>
<td>Submitted to IESG for Publication</td>
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<td>Distribute SRv6 Locator by DHCP</td>
<td>I-D Exists</td>
<td>Early Allocation</td>
</tr>
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<td>draft-ietf-spring-srv6-path-segment</td>
<td>Path Segment for SRv6 (Segment Routing in IPv6)</td>
<td>I-D Exists</td>
<td></td>
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<tr>
<td>draft-ietf-spring-resource-aware-segments</td>
<td>Introducing Resource Awareness to SR Segments</td>
<td>I-D Exists</td>
<td>WGLC Queue</td>
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<tr>
<td>draft-ietf-spring-bfd</td>
<td>Bidirectional Forwarding Detection (BFD) in Segment Routing Networks Using MPLS Dataplane</td>
<td>I-D Exists</td>
<td>WGLC Queue</td>
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<tr>
<td>draft-ietf-spring-stamp-srpm</td>
<td>Performance Measurement Using Simple Two-Way Active Measurement Protocol (STAMP) for Segment Routing Networks</td>
<td>I-D Exists</td>
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<td>Circuit Style Segment Routing Policies</td>
<td>I-D Exists</td>
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<td>draft-ietf-spring-sr-policy-yang</td>
<td>YANG Data Model for Segment Routing Policy</td>
<td>I-D Exists</td>
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<td>draft-ietf-spring-srv6-yang</td>
<td>YANG Data Model for SRv6 Base and Static</td>
<td>I-D Exists</td>
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<td>draft-ietf-spring-sr-for-enhanced-vpn</td>
<td>Segment Routing based Network Resource Partition (NRP) for Enhanced VPN</td>
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<td>WGLC Queue</td>
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<td>draft-ietf-spring-sr-service-programming</td>
<td>Service Programming with Segment Routing</td>
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<td>Segment Protection for SR-TE Paths</td>
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<td>SRv6 for Redundancy Protection</td>
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<td>Anycast Segments in MPLS based Segment Routing</td>
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</table>
Adoption Queue (not in order)

<table>
<thead>
<tr>
<th>Document</th>
<th>Name</th>
</tr>
</thead>
<tbody>
<tr>
<td>draft-bdmgct-spring-srv6-security</td>
<td>SRv6 Security Considerations</td>
</tr>
<tr>
<td>draft-cheng-spring-srv6-policy-resource-gurantee</td>
<td>Resource Guarantee for SRv6 Policies</td>
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<tr>
<td>draft-gong-spring-hierarchical-slice-solution</td>
<td>Segment Routing based Solution for Hierarchical IETF Network Slices</td>
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<td>draft-hr-spring-intentaware-routing-using-color</td>
<td>Problem statement for Inter-domain Intent-aware Routing using Color</td>
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<tr>
<td>draft-liu-spring-sr-policy-flexible-path-selection</td>
<td>Flexible Candidate Path Selection of SR Policy</td>
</tr>
<tr>
<td>draft-salih-spring-srv6-inter-domain-sids</td>
<td>SRv6 inter-domain mapping SIDs</td>
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</tbody>
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Spring rechartering

Current charter is six years old and the chartering of the new srv6ops WG impacts it.

Proposed charter sent to the list for comments and discussions.

Please review and comment.

https://mailarchive.ietf.org/arch/msg/spring/xEBGJFcbxpv44q06y81gEpHXH-w/
The Source Packet Routing in NetworkinG (SPRING) Working Group is the home of Segment Routing (SR) using MPLS (SR-MPLS) and IPv6 (SRv6). The SPRING WG is responsible for defining new applications and specifying extensions of Segment Routing technologies. It also serves as a forum to discuss SR-MPLS network operations.

The work in the SPRING WG should avoid modification to existing data planes that would make them incompatible with existing deployments. Where possible, existing control and management plane protocols must be used within existing architectures to implement the SPRING function. Any modification of—or extension to—existing architectures, data planes, or control or management plane protocols should be carried out in the WGs responsible for the architecture, data plane, or control or management plane protocol being modified and in coordination with the SPRING WG, but may be done in SPRING WG after agreement with all the relevant WG chairs and responsible Area Directors.
The SPRING WG defines procedures that allow a node to steer a packet through an SR Policy instantiated as an ordered list of instructions called segments without needing per-path state information at transit nodes. A network comprising only SPRING nodes can achieve full path control (through loose or strict path specification). However, SPRING nodes must interoperate through loose routing in existing networks.
SPRING proposed charter (3)

By default, Segment Routing operates within a trusted domain and requires the enforcement of a strict boundary to prevent Segment Routing packets from entering the trusted domain [rfc8402]. Some deployments may involve multiple trusted domains and the use of cross/inter-domain segments. Documents which deal with such situations need to include a risk analysis and use mechanisms to validate that the segment list is provided by an authorized entity and has not been modified in transit.
The SPRING WG will manage its specific work items based on WG input and according to milestones agreed upon with the responsible Area Director.

The SPRING WG will coordinate and collaborate with other WGs as needed. Specific expected interactions include (but may not be limited to):

mpls on the MPLS data plane and associated extensions
6man on the IPv6 data plane and associated extensions
lsr on OSPF and IS-IS extensions
idr on BGP extensions
bess on VPN control plane
pce on extensions for centralized solutions
teas on traffic engineering architecture
rtgwg on fast-reroute technologies
srv6ops on SRv6 operations
Agenda

13:00 SPRING Status - Chairs (15 mins)

13:15 SRv6 Security Considerations (10 mins)
[ draft-bdmgct-spring-srv6-security
(https://datatracker.ietf.org/doc/draft-bdmgct-spring-srv6-security/)
Presenter: Nick Buraglio

13:25 Validity of SR Policy Candidate Path (10 mins)
Presenter: Ran Chen
draft-chen-spring-sr-policy-cp-validity

13:35 SRv6 for Inter-Layer Network Programming (10 mins)
Presenter: Liuyan Han/Jie Dong
draft-dong-spring-srv6-inter-layer-programming

13:45 MicroTap Segment in Segment Routing (10 mins)
Presenter: Zhaohui (Jeffrey) Zhang
draft-zzhang-spring-microtap-segment

13:55 SRv6 SPAN (10 mins)
Presenter: Zhiqiang Li
draft-li-span-over-srv6

14:05 4map6 Segments for IPv4 Service delivery over IPv6-only underlay networks (10 mins)
Presenter: Guozhen Dong
draft-dong-spring-sr-4map6-segments

14:15 Encapsulation of BFD for SRv6 Policy (10 mins)
Presenter: Xiao Min
draft-liu-spring-bfd-srv6-policy-encap

14:25 Problem Statement with Aggregate Header Limit (10 mins)
Presenter: Yao Liu
draft-liu-spring-aggregate-header-limit-problem

14:35 Deterministic Networking specific SID (10 mins)
Presenter: Balazs Varga
draft-varga-spring-preof-sid