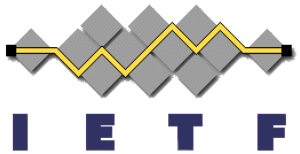
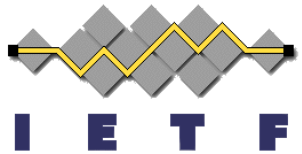
LSR WG Status
IETF 123, Madrid

Acee Lindem, Arrcus
Chris Hopps, LabN
Yingzhen Qu, Futurewei



Note Well



This is a reminder of IETF policies in effect on various topics such as patents or code of conduct. It is only meant to pointyou in the right direction. Exceptions may apply. The IETF's patent policy and the definition of an IETF "contribution" and "participation" are set forth in BCP 79; please read it carefully.

As a reminder:

- By participating in the IETF, you agree to follow IETF processes and policies.
- If you are aware that any IETF contribution is covered by patents or patent applications that are owned or controlled by you or your sponsor, you must disclose that fact, or not participate in the discussion.
- As a participant in or attendee to any IETF activity you acknowledge that written, audio, video, and photographic records of meetings may be made public.
- Personal information that you provide to IETF will be handled in accordance with the IETF Privacy Statement.
- As a participant or attendee, you agree to work respectfully with other participants; please contact the ombudsteam (https://www.ietf.org/contact/ombudsteam/) if you have questions or concerns about this.

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)

Note Really Well

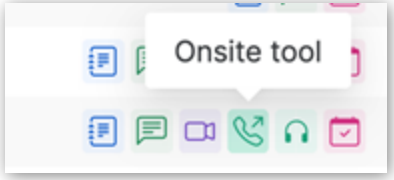
- IETF meetings, virtual meetings, and mailing lists are intended for professional collaboration and networking, as defined in the IETF Guidelines for Conduct (RFC 7154), the IETF Anti-Harassment Policy, and the IETF Anti-Harassment Procedures (RFC 7776). If you have any concerns about observed behavior, please talk to the Ombudsteam, who are available if you need confidentiality to raise concerns confident about harassment or other conduct in the IETF.
- The IETF strives to create and maintain an environment in which people of many different backgrounds and identities are treated with dignity, decency, and respect. Those who participate in the IETF are expected to behave according to professional standards and demonstrate appropriate workplace behavior.
- IETF participants must not engage in harassment while at IETF meetings, virtual meetings, social events, or on mailing lists. Harassment is unwelcome hostile or intimidating behavior—in particular, speech or behavior that is aggressive or intimidates.
- If you believe you have been harassed, notice that someone else is being harassed, or have any other concerns, you are encouraged to raise your concern in confidence with one of the Ombudspersons.

IETF 123 Meeting Tips

This session is being recorded

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.

RFCs since IETF 122

- RFC 9792 – Prefix Flag Extension for OSPFv2 and OSPFv3

Drafts on RFC Edit Queue

- Extensions to OSPF for Advertising Prefix Administrative Tags – draft-ietf-lsr-ospf-admin-tags
- IGP Flexible Algorithms: Bandwidth, Delay, Metrics and Constraints - draft-ietf-lsr-flex-algo-bw-con
- Multi-Part TLVs in IS-IS – draft-ietf-lsr-multi-tlv
- A YANG Data Model for IS-IS Segment Routing for the MPLS Data Plane – draft-ietf-isis-sr-yang
- A YANG Data Model for OSPF Segment Routing for the MPLS Data Plane – draft-ietf-ospf-sr-yang

Drafts Submitted to IESG

- IGP Flexible Algorithms Reverse Affinity Constraint – draft-ietf-lsr-igp-flex-algo-reverse-affinity, on agenda of 2025-07-10 IESG telechat, has 2 DISCUSSes

Drafts Adopted

- draft-ietf-lsr-isis-flood-reduction-arch - Flooding Reduction Algorithms Framework

On agenda today!

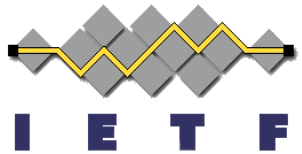
WGLC Closed

- draft-ietf-lsr-igp-ureach-prefix-announce

Drafts WG Last Call Ready?

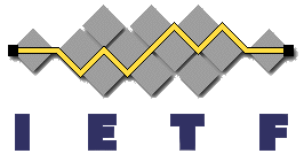
- Algorithm Related IGP-Adjacency SID Advertisement - draft-ietf-lsr-algorithm-related-adjacency-sid-07
  - Adds to Flex Algo
  - Also has been WG document for some time
  - No change since IETF 120
  - Expired!

Existing WG YANG Documents



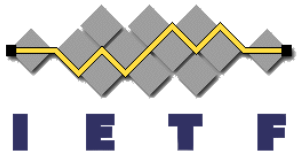
- ***YANG Model for IS-IS Application-Specific Link Attributes and Flexible Algorithm - draft-ietf-lsr-isis-flex-algo-yang-00***
- ***YANG Data Model for OSPF Application-Specific Link Attributes and Flexible Algorithm - draft-ietf-lsr-ospf-flex-algo-yang-00***
- OSPF YANG Model Augmentations for Additional Features - Version 1 - draft-ietf-lsr-ospf-yang-augmentation-v1-17
- IS-IS YANG Model Augmentations for Additional Features - Version 1 - draft-ietf-lsr-isis-yang-augmentation-v1-10
- YANG Data Model for IS-IS SRv6 - draft-ietf-lsr-isis-srv6-yang-06
- YANG Data Model for OSPF SRv6 - draft-ietf-lsr-ospf-srv6-yang-06
- YANG Data Model for IS-IS Protocol Implementation Conformance Statement (PICS)
  - draft-ietf-isis-pics-yang
  - draft-ietf-isis-pics-srmpls-yang
  - draft-ietf-isis-pics-l2mbmber-attr-yang

Existing WG Documents (1/2)



- OSPF-GT Generalized Transport - draft-ietf-lsr-ospf-transport-instance-09 – Control plane segmentation of non-routing data.
  - No change since IETF 120
- IS-IS Optimal Distributed Flooding for Dense Topologies - draft-ietf-lsr-distoptflood-09
  - On agenda today
- Flooding Topology Minimum Degree Algorithm - draft-ietf-lsr-flooding-topo-min-degree-09
  - Expired in August 2024 – ***Should this be moved to Dead?***
- IS-IS Topology-Transparent Zone - draft-ietf-lsr-isis-ttz-09
  - Expired in September 2024 – ***Should this be moved to Dead?***

Existing WG Documents (2/2)



- Advertising Infinity Links in OSPF - draft-ietf-lsr-ospf-ls-link-infinity-01
  - Editorial changes since IETF 120, ready for WGLC?
- Updates to Anycast Property advertisement for OSPFv2 – draft-ietf-lsr-anycas-flag-01
  - No change since IETF 120

- Advertisement of Remote Interface Identifiers for Layer 2 Bundle Members - draft-ietf-lsr-l2-bundle-member-remote-id
  - Version -00
- IGP Reverse Metric Algorithm - draft-ietf-lsr-igp-reverse-spf-algo
  - Version -00

Recently Adopted

- An Algorithm for Computing Dynamic Flooding Topologies
  - draft-chen-lsr-dynamic-flooding-algorithm-02 - An Algorithm for Computing Dynamic Flooding Topologies

Ready for Adoption?

- IGP Flexible Algorithm with Link Loss
  - IGP Flexible Algorithm with Link Loss - draft-wang-lsr-flex-algo-link-loss-04
- IGP Reverse Prefix Metric
  - draft-li-lsr-igp-reverse-prefix-metric-02 - IGP Flexible Algorithm with Link Loss
- IGP Flex Soft Dataplane
  - IGP Flex Soft Dataplane - draft-ginsberg-lsr-flex-soft-dataplane-01

Agenda

1. 17:00
Meeting Administrivia and WG Update
Chairs (10 mins)

2. 17:10
Flooding Reduction Algorithms Framework
Tony P (10 mins)

3. 17:20
IS-IS Distributed Flooding Reduction
Tony P (15 mins)

4. 17:35
ISIS Hierarchical SNPs
Tony P (15 mins)

5. 17:50
Energy-aware Routing Using Flex-Algo in Segment Routing
Luis Contreras (10 mins)

6. 18:00
Flexible Algorithms for Energy Efficiency
Jinming Li (10 mins)

7. 18:10
Advertising SRv6 SIDs for Layer 2 Bundle Member Links in IGP
Jie Dong (10 mins)

8. 18:20
OSPF Adjacency Suppression
Liyan Gong (10 mins)

9. 18:30
Source Address Validation in Intra-domain Networks Gap Analysis, Problem Statement, and Requirements
Lancheng Qin (10 mins)

10. 18:40
Open Discussions