

# Flexible Algorithms: Bandwidth, Delay, Metrics and constraints draft-ietf-lsr-flex-algo-bw-con **IETF 111**

Shraddha Hegde, Juniper Networks  
William Britto, Juniper Networks  
Rajesh M, Juniper Networks  
Bruno Decraene, Orange  
Peter Psenak, Cisco  
Tony Li, Arista networks





# Agenda

- Updates from last revision
- Discussion
  - Generic metric advertisement for prefixes
    - 1) Do we need this metric in Prefixes



# Updates from last version

- Added a section on applicability to Flex-algo multi-area
- Changes related to max-link-bandwidth in OSPF
- Changes related to generic-metric sub-TLV advertisement

# Generic metric advertisement



- Generic metric
  - Concept of metric-type and value
  - Any application such as FA, SR-TE, RSVP, LFA can use it
  - Each metric-type gets advertised across boundary into BGP and get accumulated
  - In-built ability to advertise different metric for different flex-algo or different category of SR-TE policies
- Generic-metric sub-TLV allowed in TLV 22 and OSPF Extended Link TLV
- Advertisement under ASLA under WG discussion

# Generic metric advertisement for prefixes



- Flex-algo already has FAPM to carry flex-algo specific metric value for prefixes
- Would RSVP/SR-TE and other applications need generic metric-type to be advertised for prefixes?



# Next steps

- Request review and comments
- Early code point allocation



**Thank you**