Status Update

- Draft version 26 was submitted on 6-19-22
- WGLC successfully done
  - Received reviews and feedback from lot of folks
- Multiple implementations now available
  - Opensource implementation also available in FRR
- Early review of routing directorate done
  - Issues were addressed, Status needs to be cleared
Status Update

- Early OPSDIR review done
- Alvaro did the detailed AD Review
- YANG model draft submitted. 01 version posted
  - Fairly straightforward model
  - Feedback requested
AD Review Feedback

- Deep and insightful review with feedback from Alvaro
  - Many thanks!!
- Removed comparisons to IGPs and base BGP
- Added text for Error Handing
  - Added text for Semantic validation of NLRI and BGP LS attribute
  - Added text for Syntactic validation of NLRI and BGP LS attribute
- Added optional BGP-SPF synchronization requirement
- Added text for SPF computation section
- SPF Status TLV Clarifications
- Added text to Security section
AD Review Feedback – Error Handling

- Semantic & Syntactic validation for TLVS
  - Reference to the TLVs defined in the IGP (ISIS & OSPF) RFCs added

- Clarified Error handling for TLVs in LS Attribute and NLRIs

- Clarified Error handling for ordering violation of TLVs in LS Attribute and NLRIs

- Added text to explicitly call out mandatory TLVs for SPF Safi
AD Review Feedback – Error Handling

- Any errors in the mandatory attribute TLVs results in the attribute discard
- Malformed LS Attribute results in an attribute-discard behavior
  - Added text to forward NLRIs without LS Attribute to signal attribute-discard behavior within a domain
AD Review Feedback – SPF Computation Section

- Added text to explain the relationship of ECMP and unnumbered next-hops
- Added text to explain Prefix suppression in limited routing table capacity
- Added text to clarify status TLV’s transit bit handling
AD Review Feedback – BGP-LS-SPF Neighbor Synchronization

- OSPF requires LSDB synchronization prior to advertising an adjacency as a link in a Router-LSA.
- For IS-IS, it is not required but optional.
- Added OPTIONAL requirement the BGP-LS-SPF End-Of-RIB be received before advertising a link.
  - If supported, it is configurable.
AD Review Feedback – SPF Status Clarifications

- Clarified usage of SPF Status TLVs in failure convergence scenarios.
- Precisely specified usage for each BGP-LS-SPF NLRI
- Added IANA registries for BGP-LS-SPF NLRI SPF Status
AD Review Feedback – Security section

- Constrained the use of SPF SAFI to domains within a single administrative control
Thank you