

# **draft-hegdeppsenak-isis-sr-flex-algo-02**

## **draft-ppsenak-ospf-sr-flex-algo-00**

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# Flex-algorithm drafts

- Flex-Algo is a set of values from the “IGP Algorithm Types” registry
- Flex-Algo represents:
  - Set of constraints – e.g affinity exclude-any, include-any, include-all
  - Metric type – IGP metric, Delay ([RFC7810](#)), TE metric ([RFC5305](#)), ...
  - Algorithm type – SPF, ...
- Meaning of particular Flex-Algo is user defined
- Allows IGP to compute constraint based paths to destinations in the network
- Flex-Algo specific SIDs are advertised and used for forwarding
- Single SID represents the constraint based path to a destination

# Changes from previous version (draft-isis-...)

- FAD sub-TLV only a sub-TLV of IS-IS Router Capability TLV-242
  - Originally was also a top level TLV – that has been removed
- FAD conflict detection has been replaced by deterministic selection mechanism based on priority and router-id
  - Disablement on conflict has been replaced by selection
  - Improves availability and makes it easier to change the FAD
- Priority field added to FAD sub-TLV
  - Used during FAD selection.
- Alg. Type field added to FAD sub-TLV
  - Allows non-SPF computation or Flex-Algo paths

# Changes from previous version (draft-isis-...)

- Flexible Algorithm Exclude Admin Group Sub-TLV added
- Flexible Algorithm Include Admin Group Sub-TLV added
- Section that describes the calculation of Flexible Algorithm paths has been extended.
- Editorial changes to make text clearer and easier to read

# **draft-ppsenak-ospf-sr-flex-algo-00**

- New draft
- In sync with 02 version of ISIS draft

# Next Steps ...

- An implementation is available
- Authors would like to ask for WG adoption
- Early IANA allocation for FAD sub-TLV code point
- ISIS and OSPF drafts can be merged to a single “LSR” draft