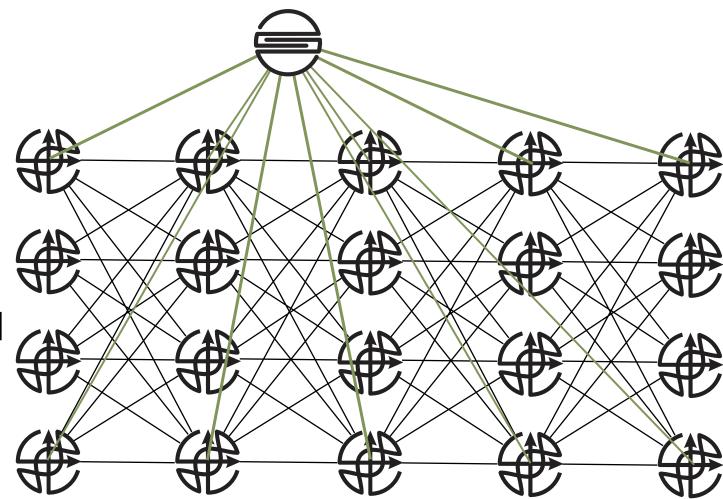


is-is support for openfabric Russ White, LinkedIn

Components

- distributed
 control plane
 reachability
 topology
- controller based
 overlay
 policy



Distributed Protocol Goal

- Build the *simplest possible* distributed link state protocol
- •*No* policy ^[]Just carry reachability and topology
- •*No* configuration [All configuration possible is "ephemeral"
- •*No* "extra stuff"

^[] Feature creep is a *real* problem at scale

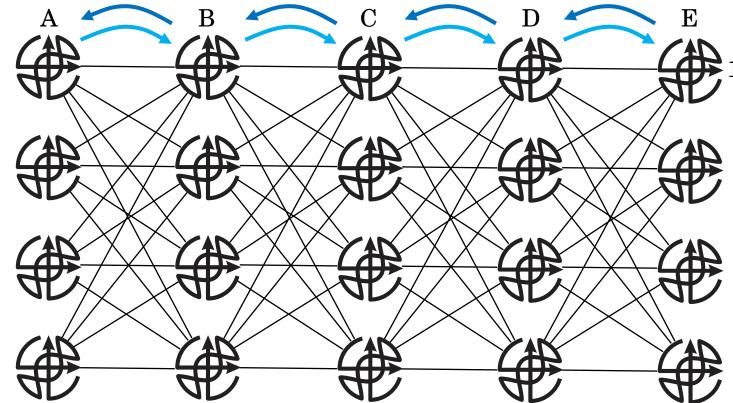
Loose Feature Set

- •There has been some concern expressed about the loose set of "MAY remove" features
- This is something we would like feedback on

^OShould the list be split into "MAY" and "MUST" remove with an eye to interoperability?

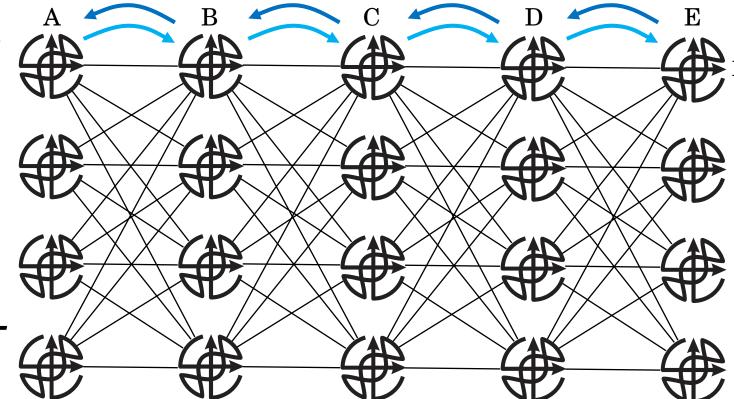
Fabric Location

- hop count == spf
 with all metrics set
 to 1
- *x* = max hop count
- y = max path from someone max path away
- location == y x



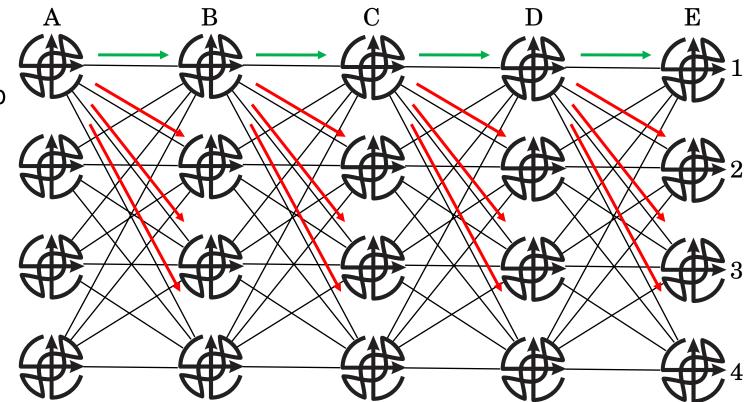
Fabric Location

- does not work in >3
 stage fabrics, but
 these can be
 manually
 configured
- Advertised in tier TLV from shen-isisspine-leaf-ext



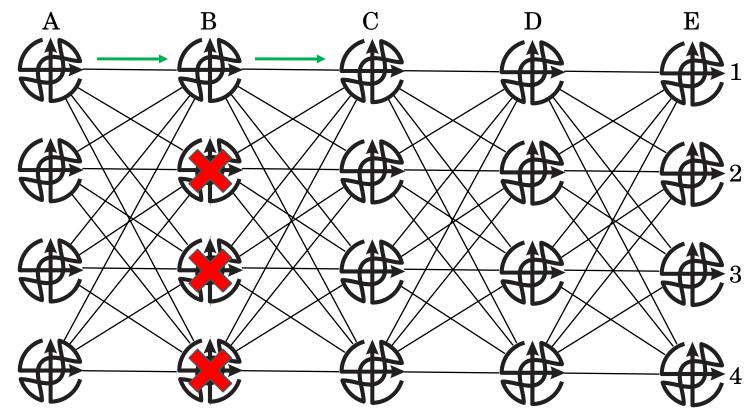
Forward Optimization

- A1 runs SPF
- C1-4, A2-4 are two hop neighbors
- B1 chosen as flooder
- Flooded to B1 in normal LSP
- Flooded to others in link local LSP (RFC7356)



Reverse Optimization

 do not flood to any neighbor on *any* shortest path towards the originator



Other Optimizations

- Remove lots of stuff we don't need/don't care about from IS-IS
- Some optimized neighbor formation "stuff"

Next Steps

•???