IS-IS TTZ (Topology-Transparent Zone)

draft-chen-isis-ttz-011

Huaimo Chen, Richard Li(Futurewei)

Yi Yang (IBM)

Anil Kumar S N (Rt Brick)

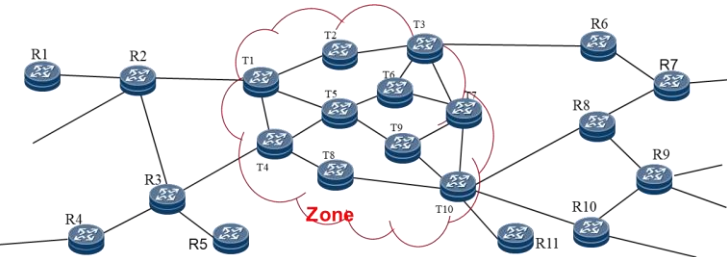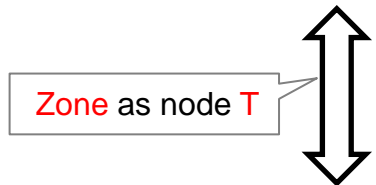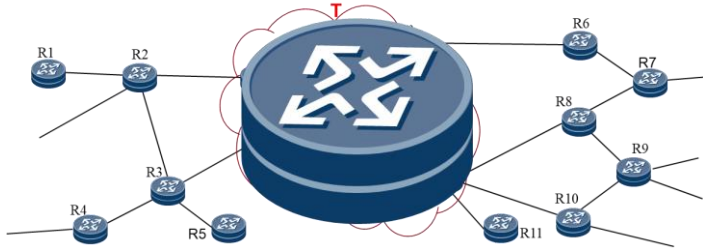Yanhe Fan (Casa Systems)

Ning So

Vic Liu

Mehmet Toy (Verizon)

Lei Liu (Fujitsu)

Kiran Makhijani

Updates to Previous Versions

- Removed OSPF
- Some Editorial Changes

A zone: a block of an area

Zone as node T

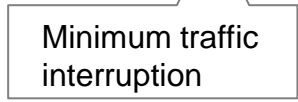Virtualize/abstract

a zone as a virtual node
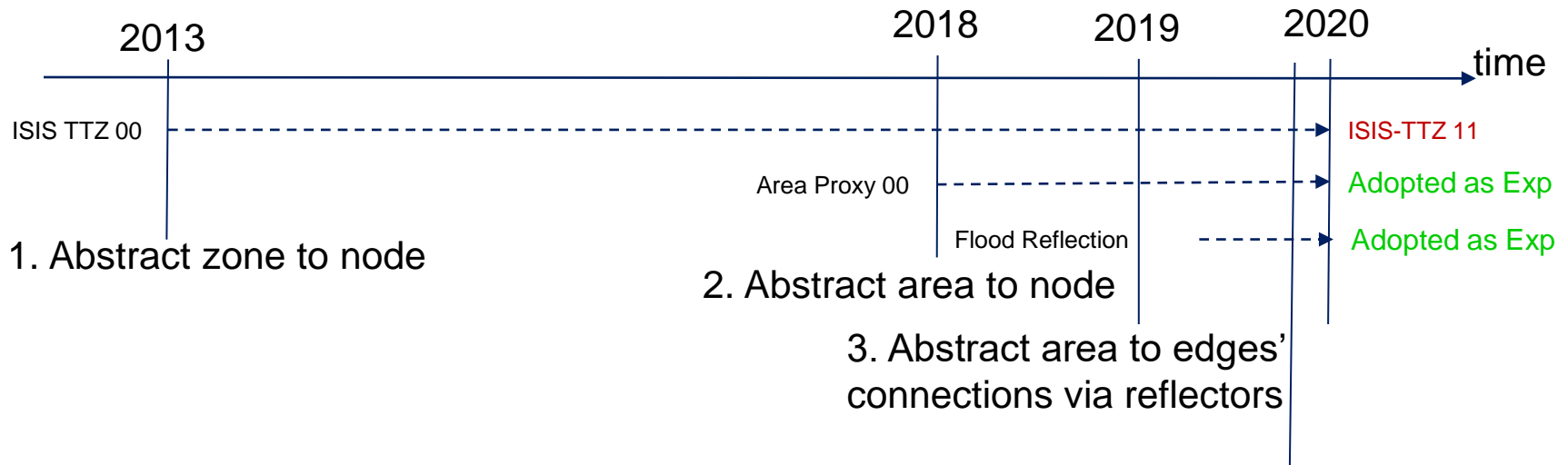
(LS generate, Adj form, LS filter, SPF, …)
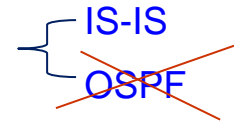
Smooth Migration/Transfer

a zone ⟷ a virtual node

Minimum traffic interruption

Protocol Extensions

IS-IS
OSPF

IS-IS
OSPF

Progress of ISIS TTZ

2013   2018   2019   2020
                                              time

ISIS TTZ 00 - - - - - - - - - - - - - - - - - - → ISIS-TTZ 11

Area Proxy 00 - - - - - - - - - - - → Adopted as Exp

Flood Reflection   - - - - - → Adopted as Exp

1. Abstract zone to node

2. Abstract area to node

3. Abstract area to edges'
connections via reflectors

3 drafts for scalability

Reasonable: adoption
call for 3 at same time
(but adoption call for 2)

2 adopted, put TTZ at
disadvantaged position

LSR: Request for adoption
discussions

ISIS TTZ advantages:
• reducing the service interruption
• making operations simpler

Good number of supports, a few objections

Next Step

Merge?

Adopt as Exp?