

# Topology-Transparent Zone

draft-chen-isis-ttz-08

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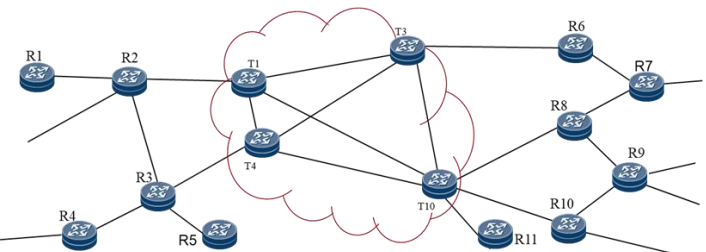
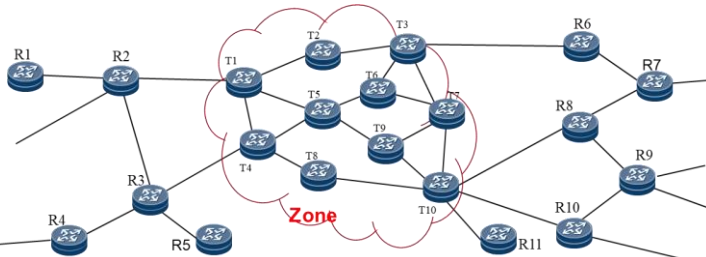
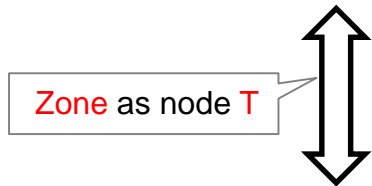
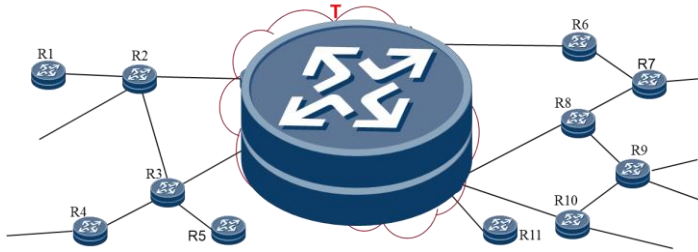
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# Overview on TTZ (Topology-Transparent Zone)

A **zone**: a block of an area (or entire area)



Virtualize/abstract

a zone as a pseudo node  
(LS generate, Adj form, LS filter, SPF, ...)

Protocol Extensions

OSPF  
IS-IS

Smooth Migration/Transfer

a zone ↔ a pseudo node

OSPF  
IS-IS

Minimum traffic interruption

Virtualize/abstract

a zone as edges' mess

Protocol Extensions

IS-IS

Smooth Migration/Transfer

a zone ↔ edges' mess

IS-IS

Minimum traffic interruption

OSPF (RFC8099) for edges' mess

# Updates to Previous versions

- MUST be backward compatible
- MUST support at least one more levels of network hierarchies

- **Zone → Pseudo Node or Edges' Mess**

SHOULD be smooth with minimum service interruption

- **Pseudo Node or Edges' Mess → Zone**

SHOULD be smooth with minimum service interruption

- SHOULD be able to set up E2E service
- Configuration SHOULD be minimum
- Changes to protocols SHOULD be minimum

Requirements

Updates

# Next Step

Comments