

LISP Network Element Deployment Considerations

`draft-jakab-lisp-deployment-02`

Loránd Jakab, **Albert Cabellos**, Florin Coraş, Jordi Domingo
Universitat Politècnica de Catalunya

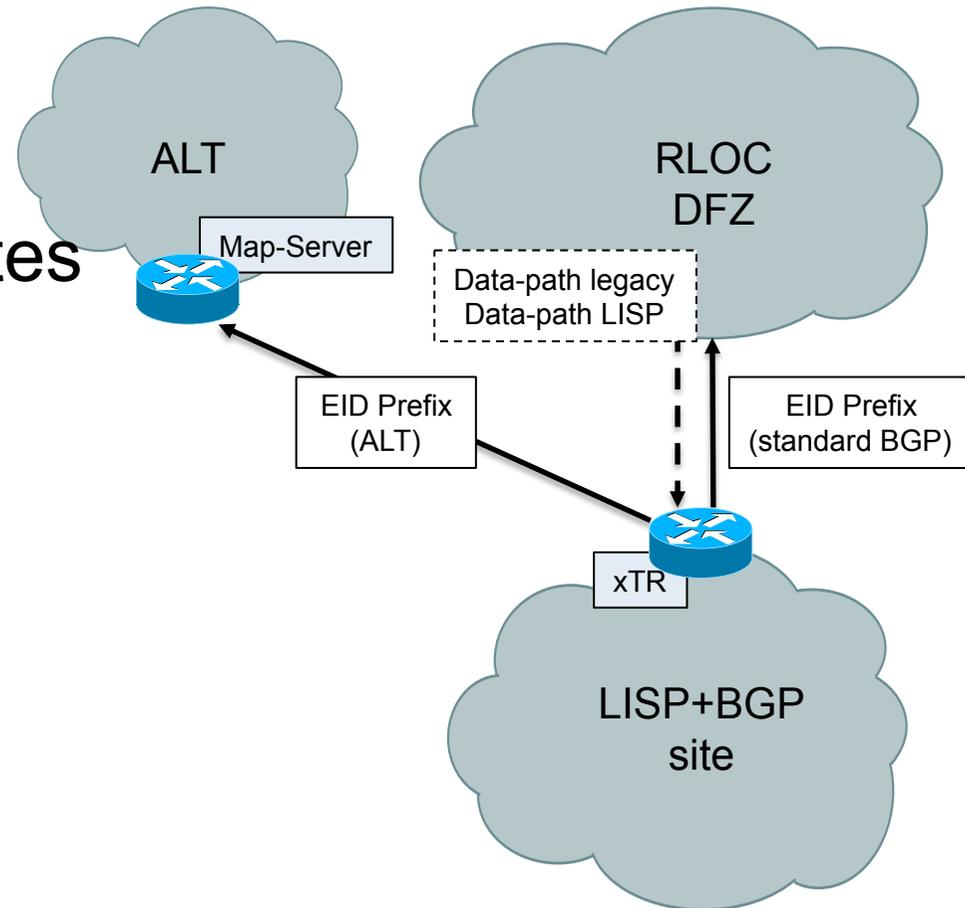
Darrel Lewis
Cisco Systems

ChangeLog (from -01)

1. The section on the P-ITR was almost completely rewritten:
 1. Effects on the DFZ size
 2. BGP announcements' directions have been clarified
 3. Scenarios not supported by the WG have been removed
2. Mapping section updated:
 1. How one can become a MSP
 2. Redundant Map-Servers
3. Editorial/minor changes

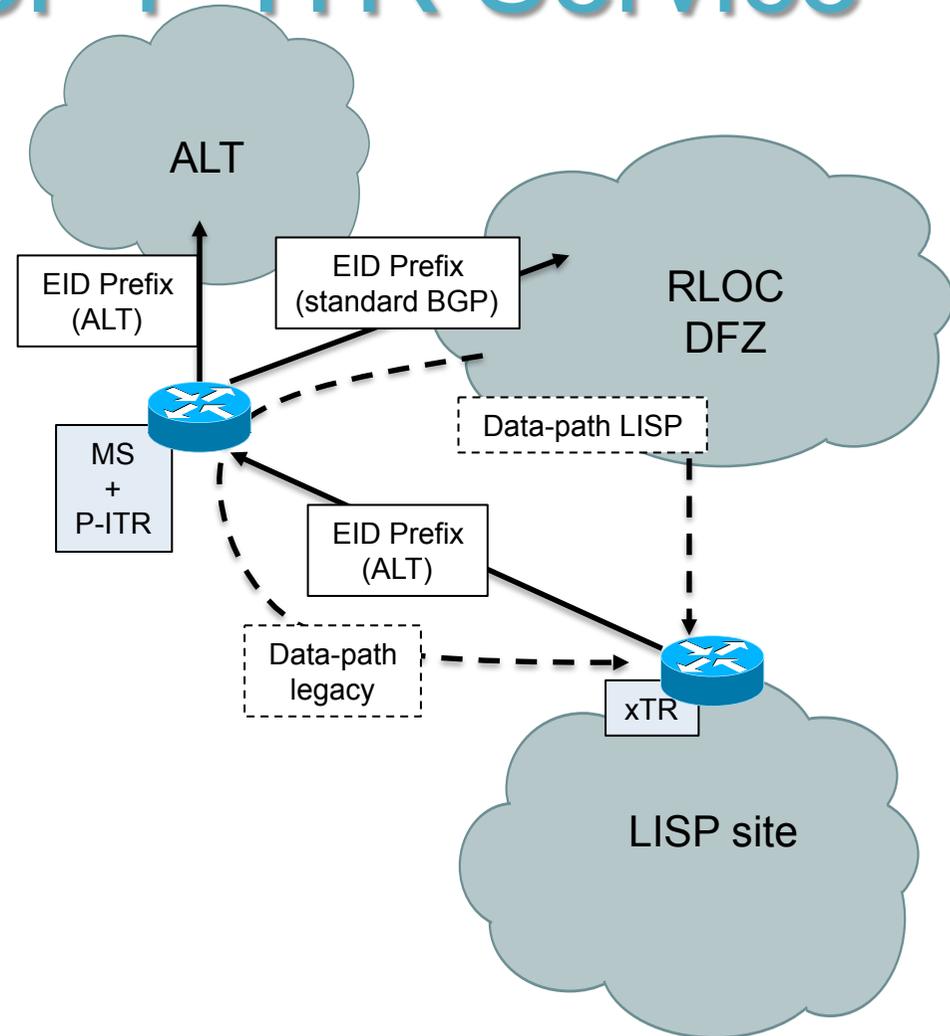
Scenario I: LISP+BGP

- Less disruptive
(site point of view)
- LISP and legacy sites
 - No path stretch
- No decrease DFZ
 - Early stage



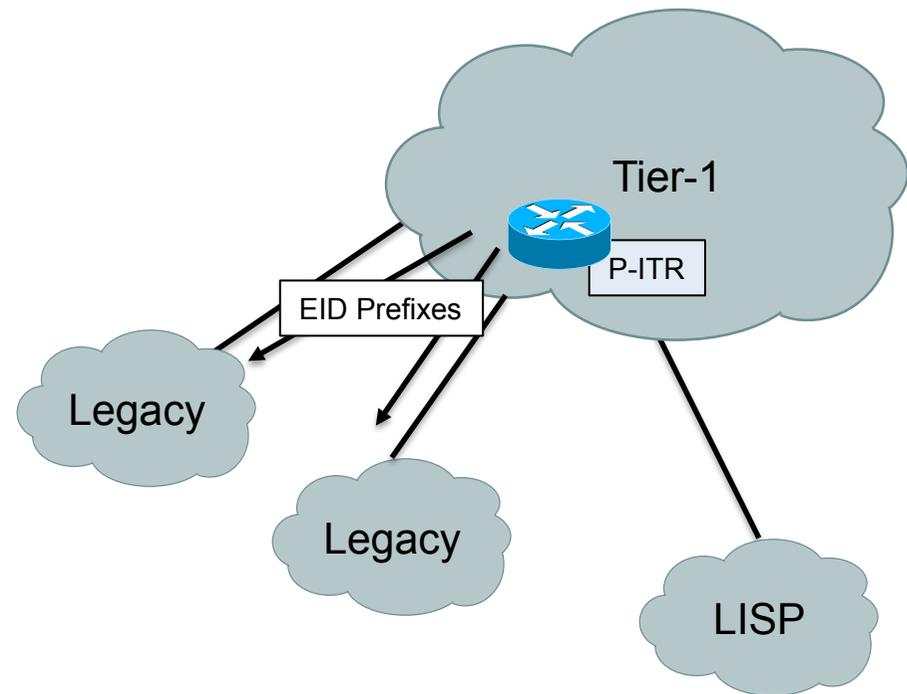
Scenario II: MSP P-ITR Service

- Useful for new PI (EID) allocations
- No BGP infrastructure at the new LISP site (besides ALT)
- Mitigates prefix deaggregation for TE purposes
- Path stretch ≥ 1



Scenario III: Tier-1 P-ITR Service

- Path stretch ≈ 1
- Issue with non-global coverage of announced prefixes
 - Most likely to operate in conjunction with previous scenarios
- At some stage, incentives to deploy P-ITRs
 - Attract traffic



Mapping section

- Clarified the conditions to become a Mapping Service Provider (MSP)
 - EID registrars
 - Third parties: BGP session with an existing ALT participant
- Redundant Map-Server deployments are desirable
 - ETRs are configured to send Map-Register messages to all Map-Servers
 - Current known BGP practices can be used on the LISP+ALT BGP to achieve fail-over

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Comments/Questions?

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WG adoption?