RSVP-TE Extensions for LSP Inquiry

draft-ali-ccamp-lsp-inquiry-00.txt

Author list:

Zafar Ali (zali@cisco.com) - Presenter

George Swallow (swallow@cisco.com)

Clarence Filsfils (cfilsfil@cisco.com)

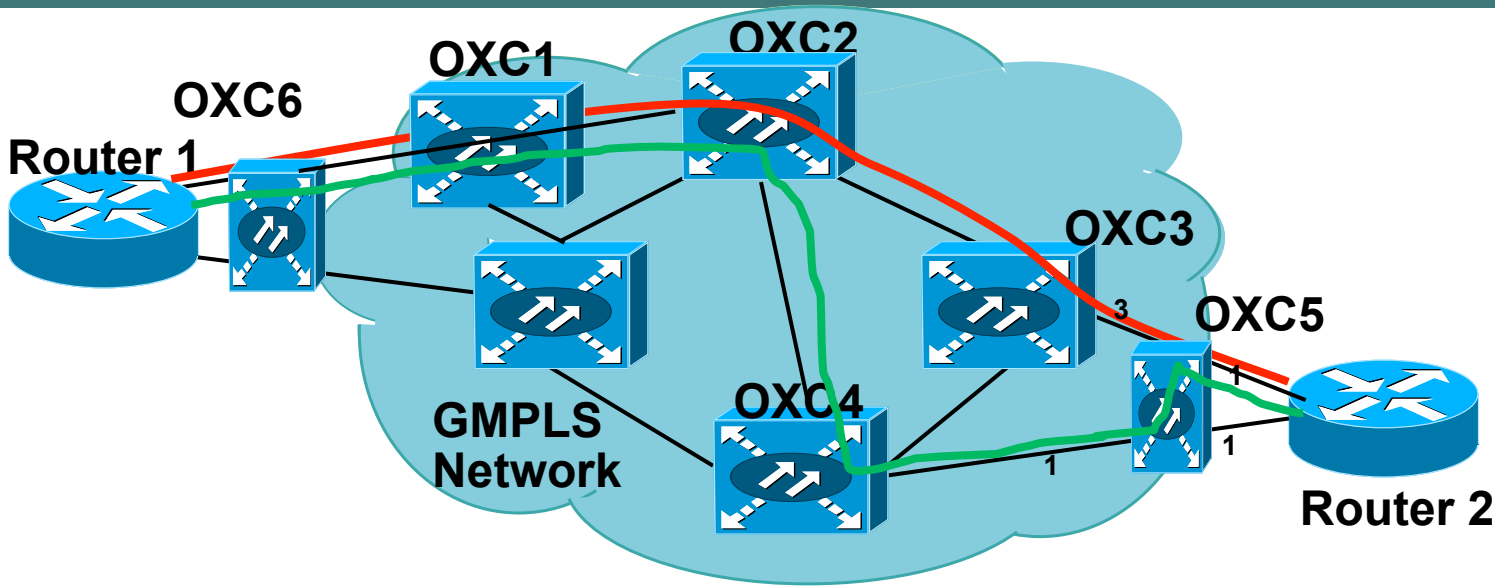
Matt Hartley (mhartley@cisco.com)

Ori Gerstel (ogerstel@cisco.com)

Outline

- Requirements and Scope
- Problem Statement
- Solution
- Next Steps

Requirements and Scope

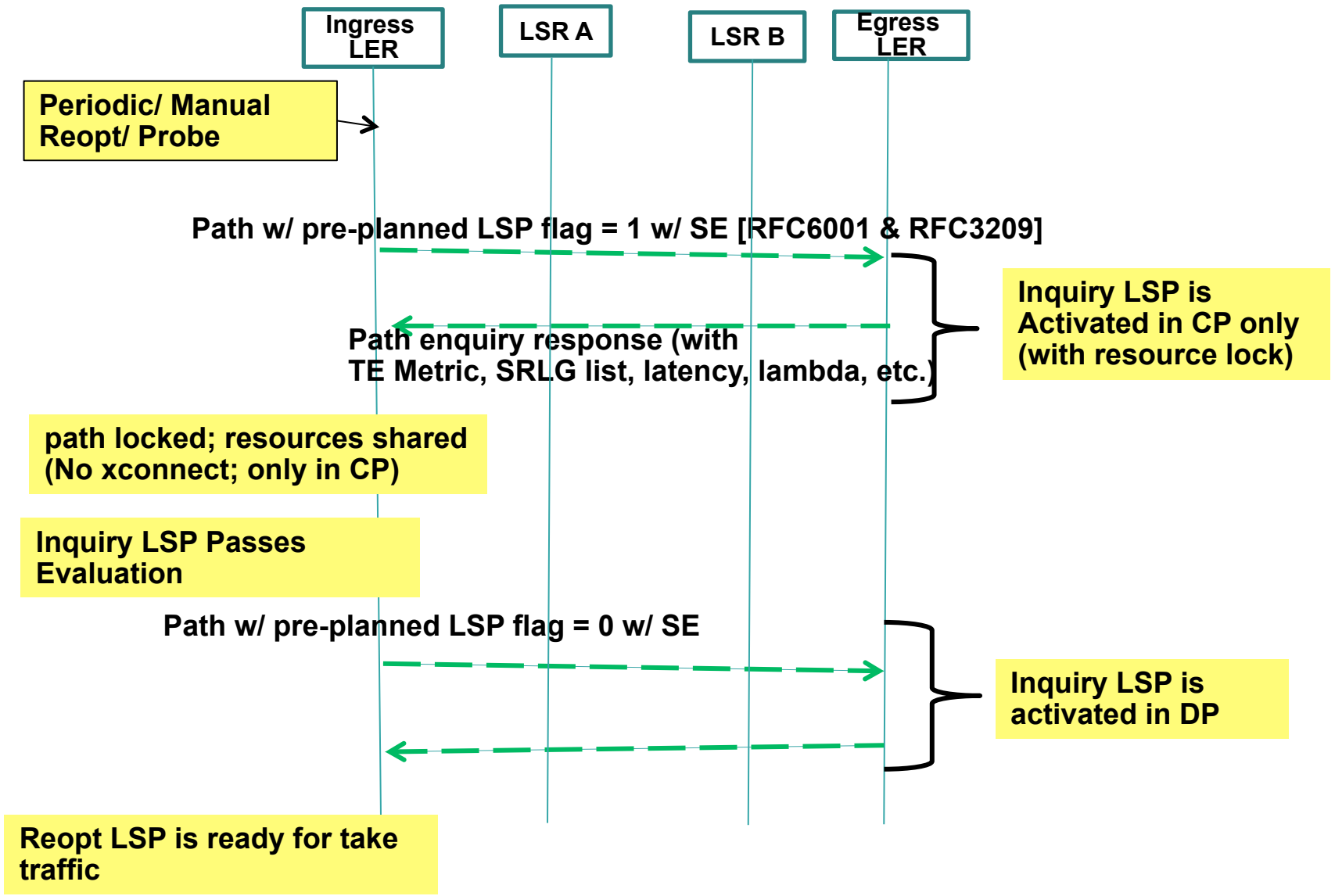


- In packet networks LSRs can easily double book resources (bandwidth, labels, etc.) for current and reopt LSPs and can share physical resource and install cross-connect for both LSPs at the same time.
- Optical network has limitation w.r.t. resource and cross-connect sharing between existing and reopt LSPs.
- Applicable to inter-domain, overlay, as well as for peer models.
- The inquiry procedure can also be used as a probing mechanism (outside the context of re-optimization).

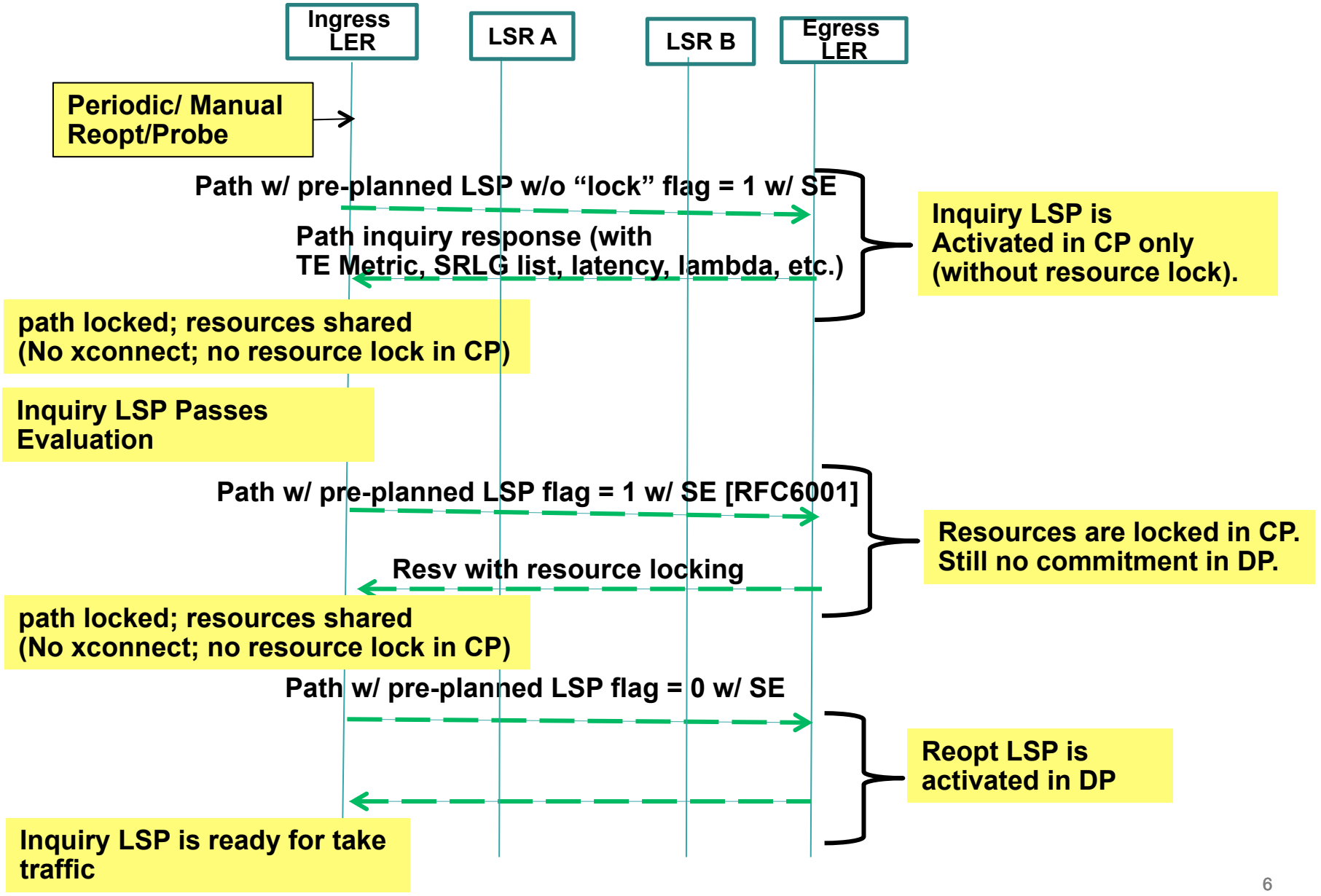
What is Inquiry?

- Inquiry refers to a way to “flag” optical network to allow sharing of resources (link, wavelengths) between current and inquiry LSPs – without installing cross-connect for inquiry LSP (i.e., without affecting traffic on the existing lsp).
- There is a need for installing cross-connect when reopt (inquiry) LSP is considered as “good enough” to move tunnel from current LSP to Reopt (inquiry) LSP.

Inquiry Procedure – Inquiry with Resource Lock



Inquiry Procedure – inquiry without Resource Lock



Next Steps

- **We would like to make this draft a WG Document.**

Thank You.