Interworking of GMPLS Control and Centralized Controller System

CCAMP WG, IETF100, Singapore

draft-zheng-ccamp-gmpls-controller-inter-work-00

Authors:

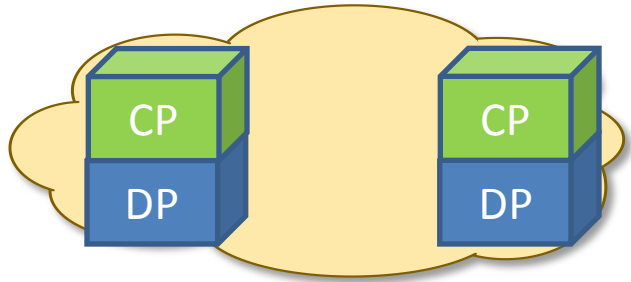Haomian Zheng (zhenghaomian@huawei.com)

Xianlong Luo (luoxianlong@huawei.com)

Zheyu Fan (fanzheyu2@huawei.com)

Yi Lin (yi.lin@huawei.com)

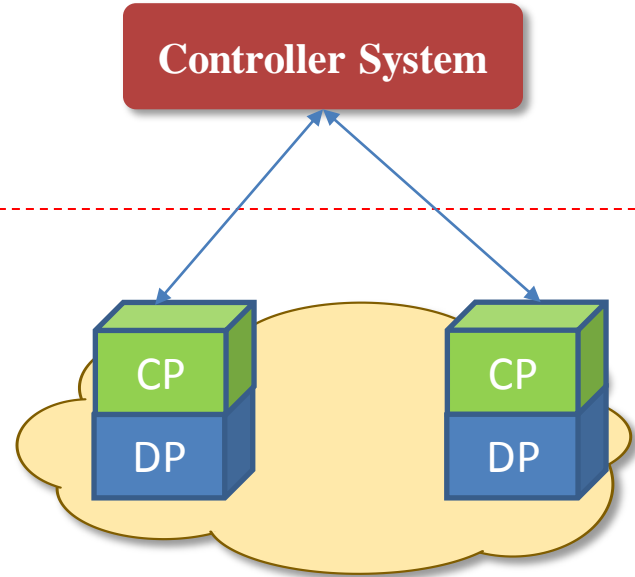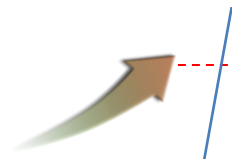# Motivation of this work

DP = Data Plane;
CP = Control Plane (with GMPLS)

Controller System

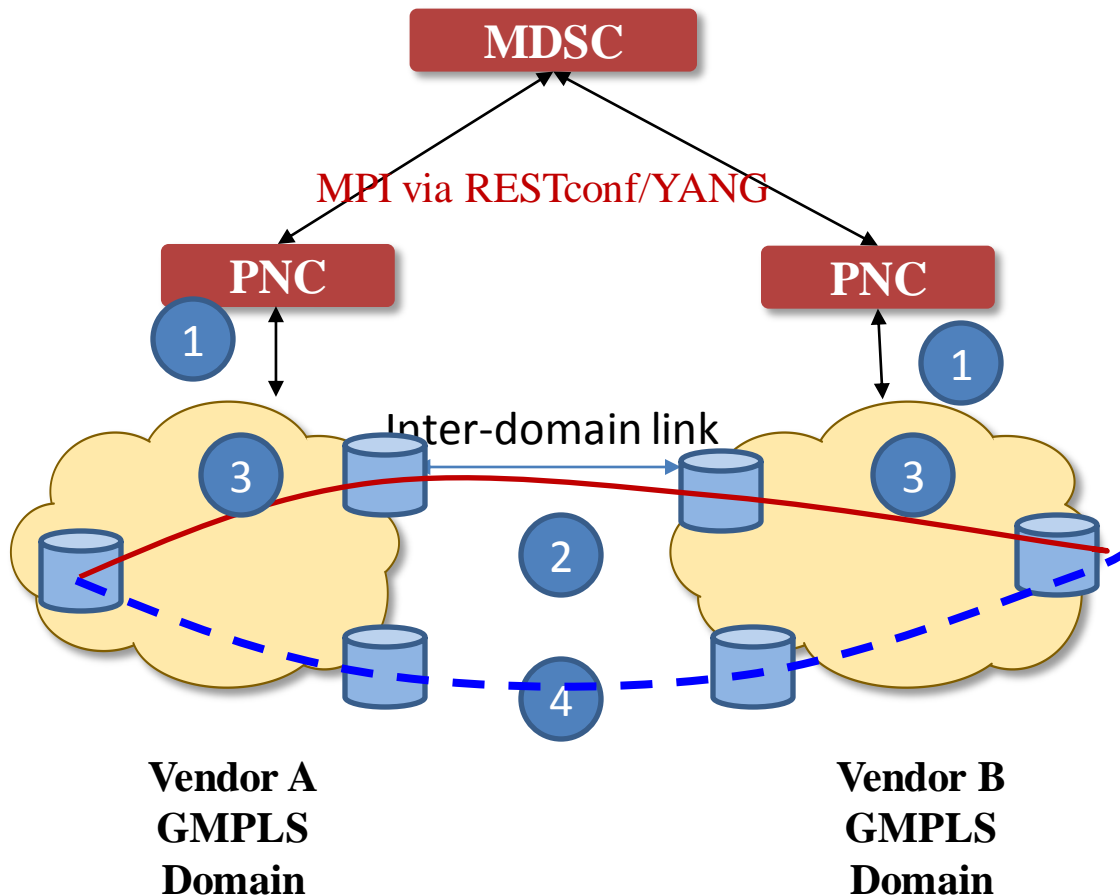| GMPLS Control Plane |
| --- |
| RSVP-TE |
| OSPF-TE |

Inter-work?

Centralized Controllers
RESTconf/YANG
PCE Protocol

Objectives

- Checking Architecture from functionality
- Applicability Analysis
- Potential Gap Analysis, for example:

Example: GMPLS + ACTN

MDSC

MPI via RESTconf/YANG

PNC   **PNC**

Inter-domain link

Vendor A
GMPLS
Domain

Vendor B
GMPLS
Domain

1. How GMPLS help report topology to Controllers?

2. How the MDSC get the info of inter-domain link?

3. What interaction required in RSVP for setting up inter-domain LSP?

4. What interaction required for in protection/Recovery?

Issue & Next Step

- Bring more details
  - Describe some typical interworking scenarios
  - Gap Analysis

- Invite Expert to review and comment
  - Confirm in WG this work is useful;