

Framework for Abstraction and Control of Transport Networks

draft-ceccarelli-teas-actn-framework-
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IETF 94 – Yokohama

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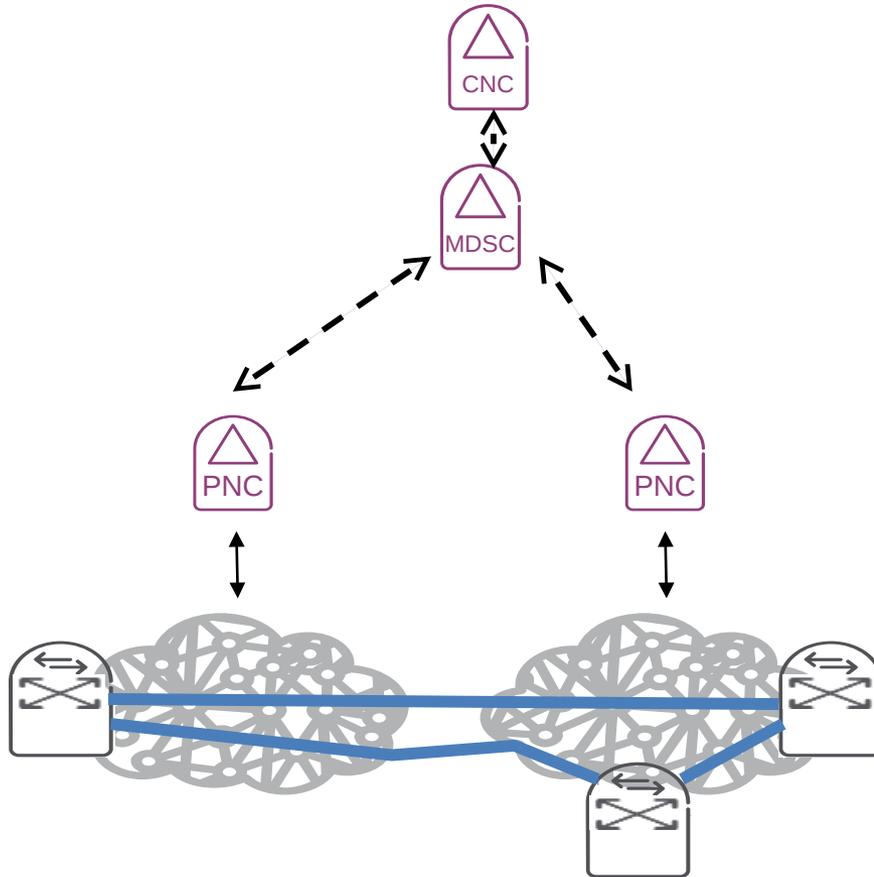
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Draft-status

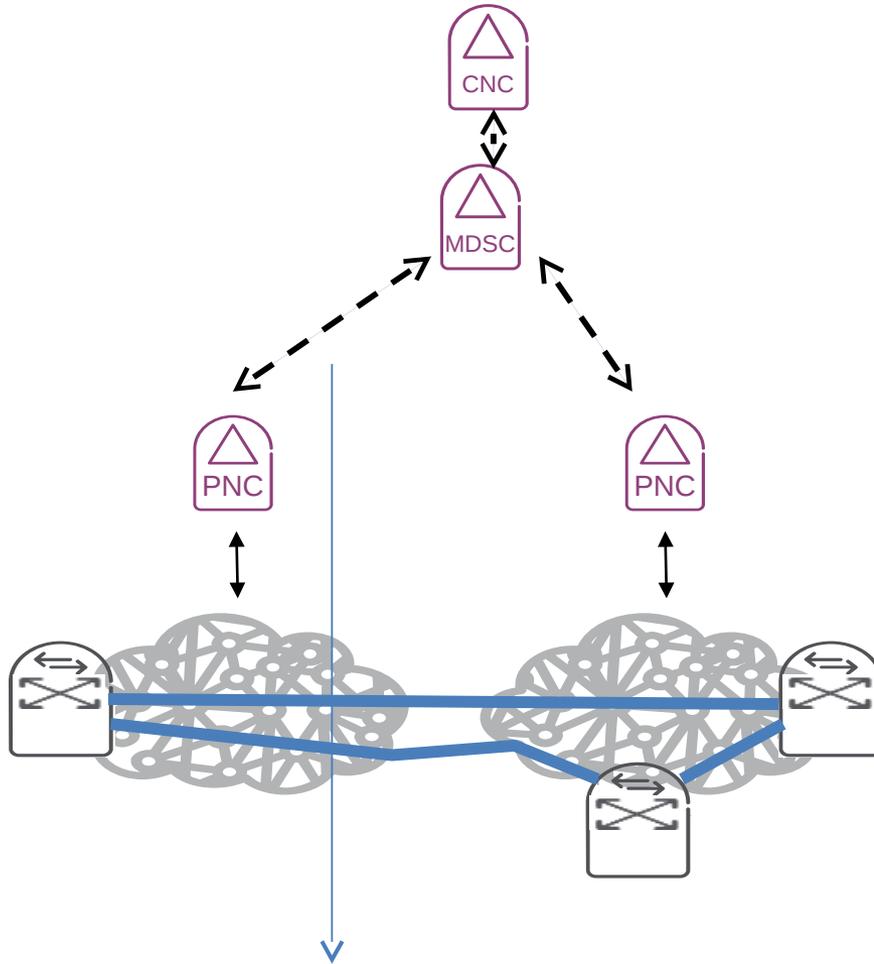
- Respin of draft-ceccarelli-actn-framework-07
 - v00 published on Jan 2014
- Requirements moved
 - To: draft-ietf-teas-actn-requirements-01
- Use cases moved
 - To: draft-ietf-teas-actn-requirements-01

What should ACTN be about?



- Infrastructure:
 - LSPs, Tunnels and Virtual Networks
 - Includes TE constraints

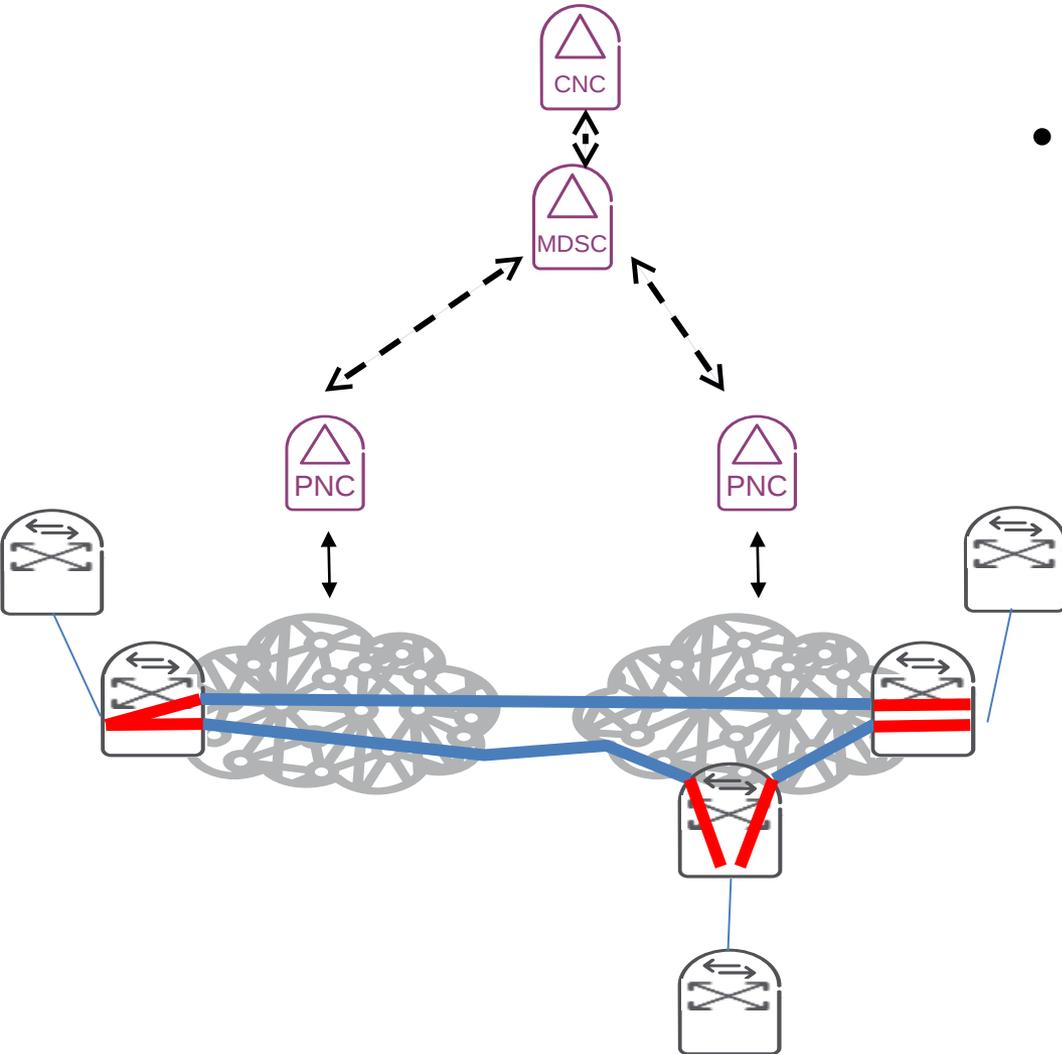
What should ACTN be about?



- Infrastructure:
 - LSPs, Tunnels and Virtual Networks
 - Includes TE constraints
 - Includes policies
 - Policies encoded as identifiers

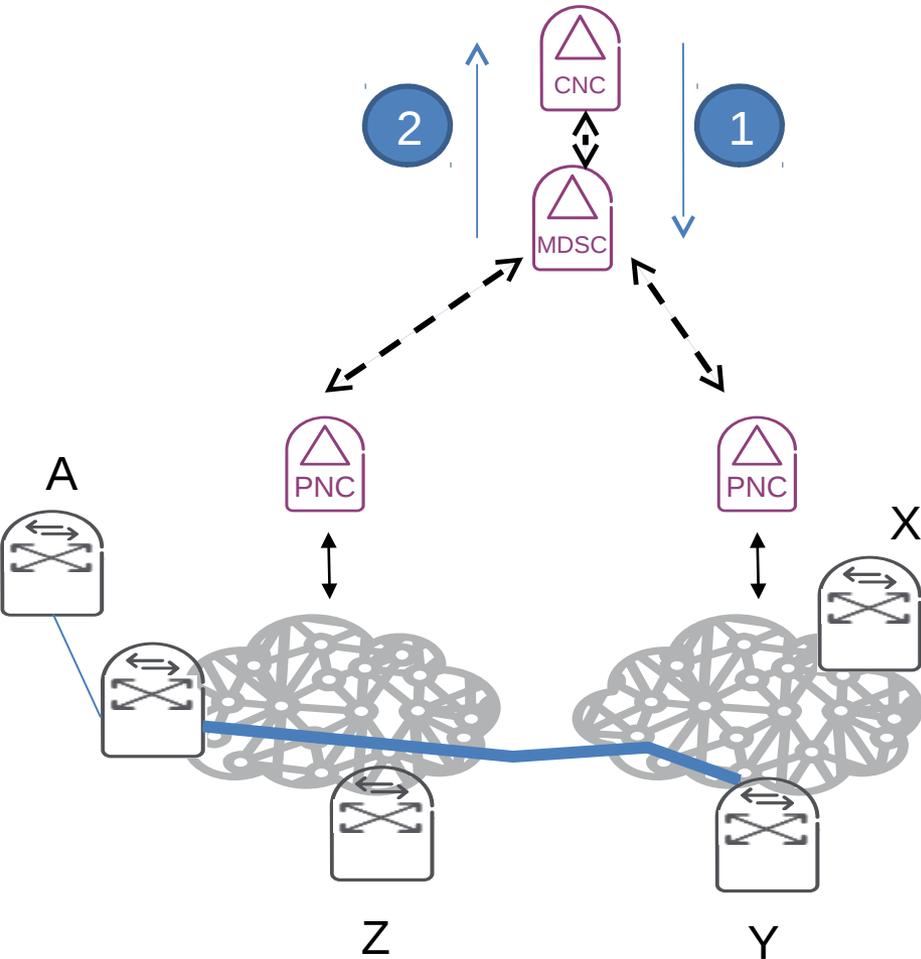
If A happens on VN1, do B on your own and report result. E.g. modify FEC mapping if buffer goes more than 95% for 5 minutes

What should ACTN be about?



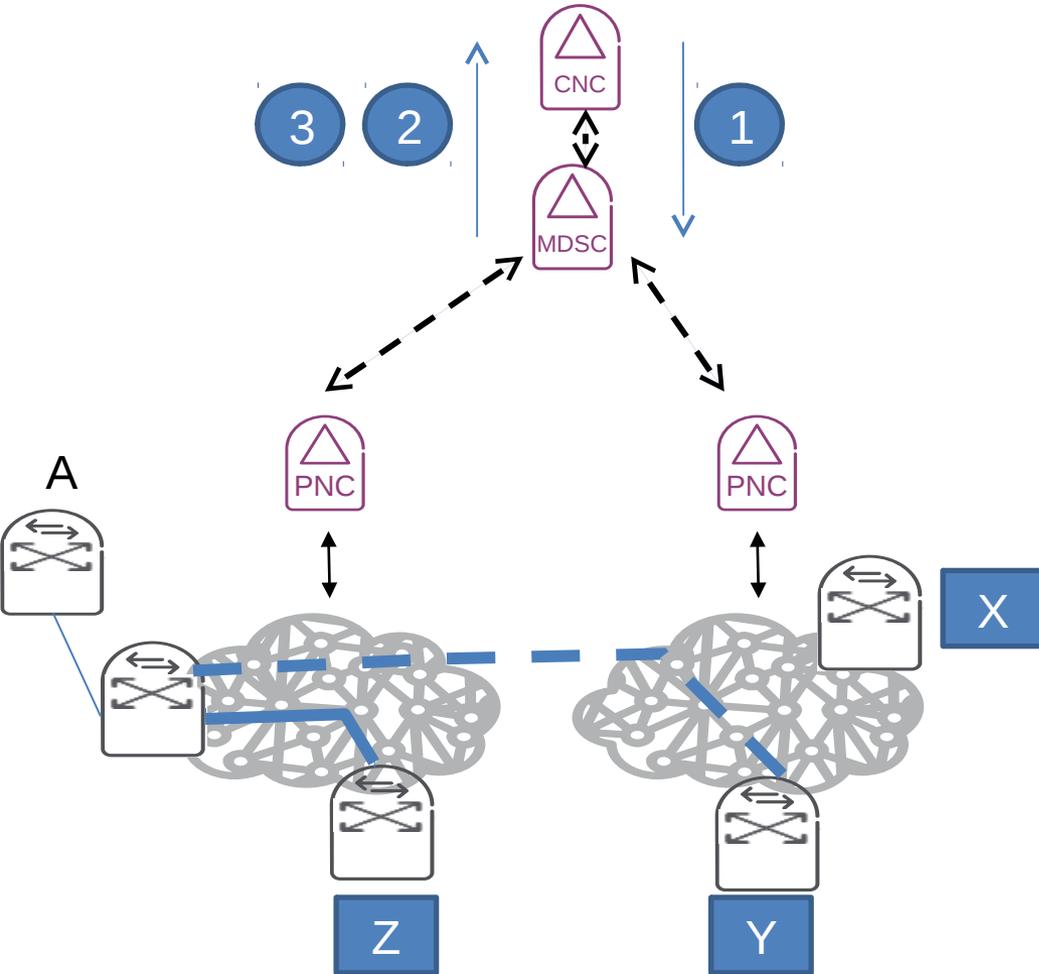
- Connectivity Services:
 - How traffic is mapped to VNs. E.g. VPNs, FEC mapping, how to map client traffic to VN/LSP.
 - End-point awareness

What should ACTN be about?



- **End point mobility**
 - 1 I need connectivity between site A and a function that can be deployed in X, Y, Z. Please tell me which to use accordingly to my constraints, policies and network status.
 - 2 The best is A-Y (setup and notification to CNC)

What should ACTN be about?



- End point mobility on the fly

1 I need connectivity between site A and a function that can be deployed in X, Y, Z. Please tell me which to use accordingly to my constraints, policies and network status.

2 The best is A-Y (setup and notification to CNC)

3 A-Y failed, I move connectivity to A-Z, please consider moving "your stuff" to Z

Other open issues

- Need for communication between peers?
 - Inter-administrative domain MDSC-MDSC (East-West) ? Maybe
 - PNC-PNC ? Mostly NO
- MDSC to PNC relationship
 - 1:N (Default)
 - M:1
 - M:N (Work Load Partitioning)
- ...

Next Steps

- Still a lot of work to be done
- Starting point for WG discussion
- Need to move on to info model
- Decide what to address among previous topics
 - No need for charter update
 - All of them are Traffic engineering (+ policies)