

Applicability of Abstraction and Control of Traffic Engineered Networks (ACTN) to Packet Optical Integration (POI) Service Assurance

draft-poidt-teas-actn-poi-assurance-04

Fabio Peruzzini – fabio.peruzzini@telecomitalia.it

Italo Busi – Italo.busi@huawei.com

Jean-Francois Bouquier – jeff.bouquier@vodafone.com

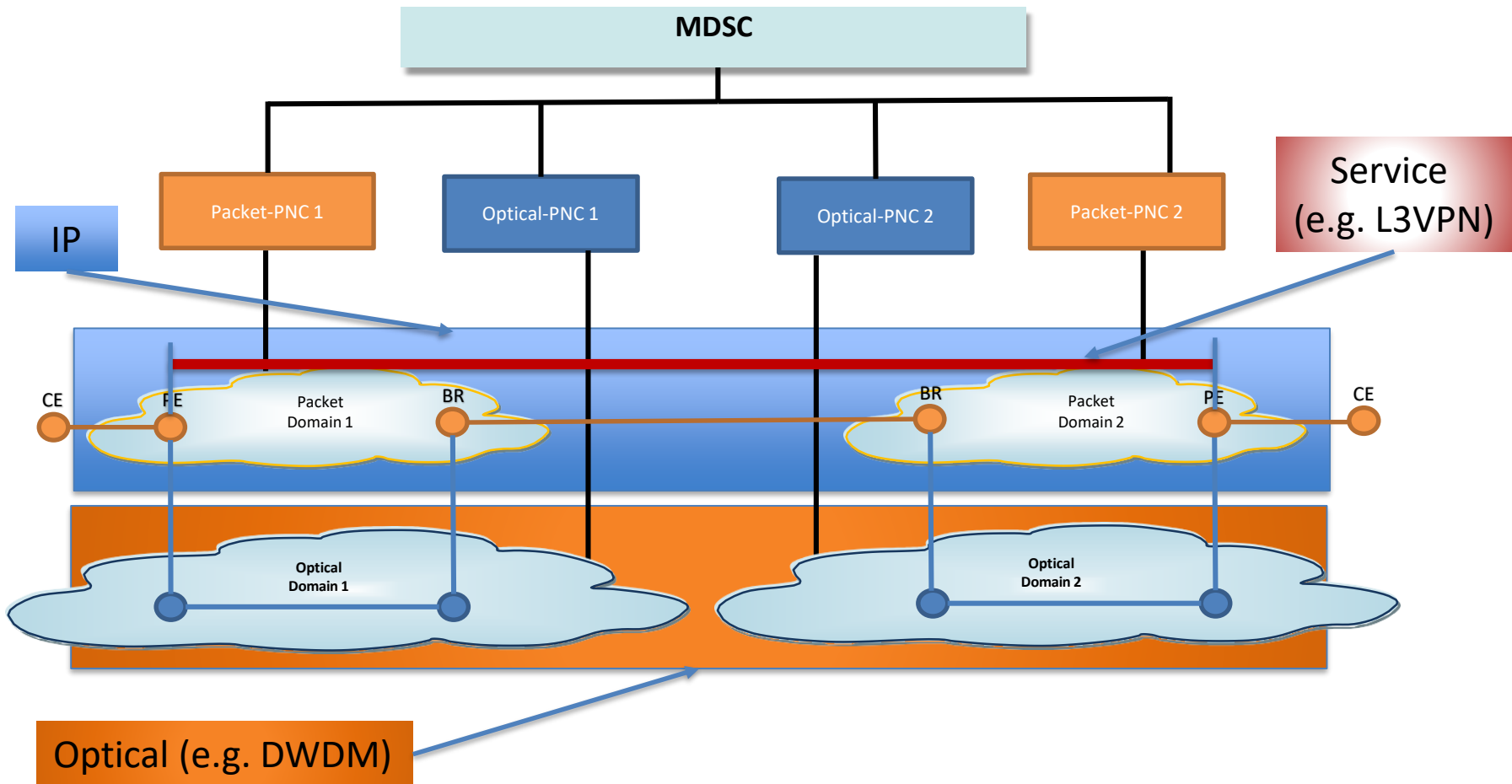
Paolo Volpato – paolo.volpato@huawei.com

Prasenjit Manna – prmanna@cisco.com

Scope of the draft

- Service assurance is a critical aspect of network operations to guarantee a certain SLA to the customer of a telecommunication service
 - Fault management - for fixing the service anomalies and network faults.
 - Performance management - for monitoring of network parameters and early warning of service-related issues.
- Resiliency is also important to ensure SLA in case of failures
- In the draft, service assurance is discussed in the context of a multi-layer, multi-domain network (IP+Optical).
 - It leverages on the ACTN framework [RFC8453].
 - Expands the analysis of POI applicability adding considerations specific to:
 - Multi-layer fault scenarios
 - Multi-layer performance management
 - Multi-layer recovery scenarios

Reference Architecture



-04 - Work done so far

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Previous versions

Version -04

Still to be done

Remaining points and way forward

- Version -04 has almost completed the first editing of the text
- The co-authors and the team contributing to the draft had extensive discussions on the content of sections 4, 5 and 7, in particular.
- We would like to get comments from the WG:
 - The assurance scenarios are looked at with attention by the network operators, we'd like to have comments from the list if anything is missing or incorrect.
 - Is performance “only” about early warning of a possible fault?
 - YANG data models at the MPI. What is missing?
- Document ready for TEAS WG adoption
- Feel free to join the discussion and to contribute:
 - Bi-weekly ACTN POI calls announced on the TEAS WG list
 - Issue tracking and latest version available on Git:
<https://github.com/italobusi/draft-poidt-teas-actn-poi-assurance>

THANK YOU

Dependance of This Draft from ACTN POI – Quick Recap

ACTN POI (step 1)

- Inventory, Service and Topology Discovery
- Establishment of L2VPN/L3VPN with TE requirements

ACTN POI (step 2a) – Service Assurance

- Traditional Optical/IP split
- Multi-layer fault management
- Multi-layer resilience and integration

TEAS WG

ACTN POI (step 2b) – Pluggable

- Pluggable WDM interfaces on routers
- Same scenarios as in step 1

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