

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

draft-poidt-teas-actn-poi-assurance-03

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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

CCAMP WG

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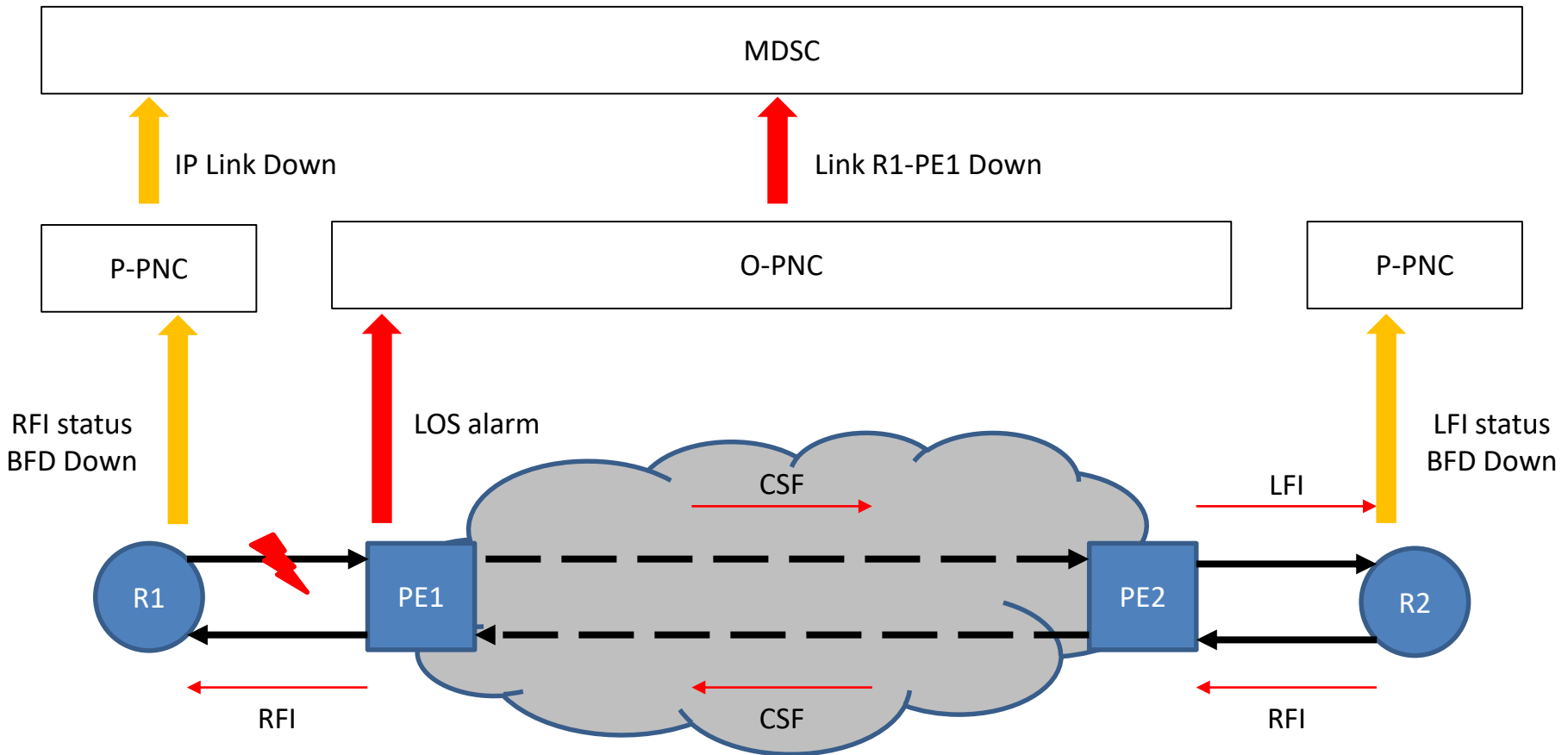
Version -02

Version -03

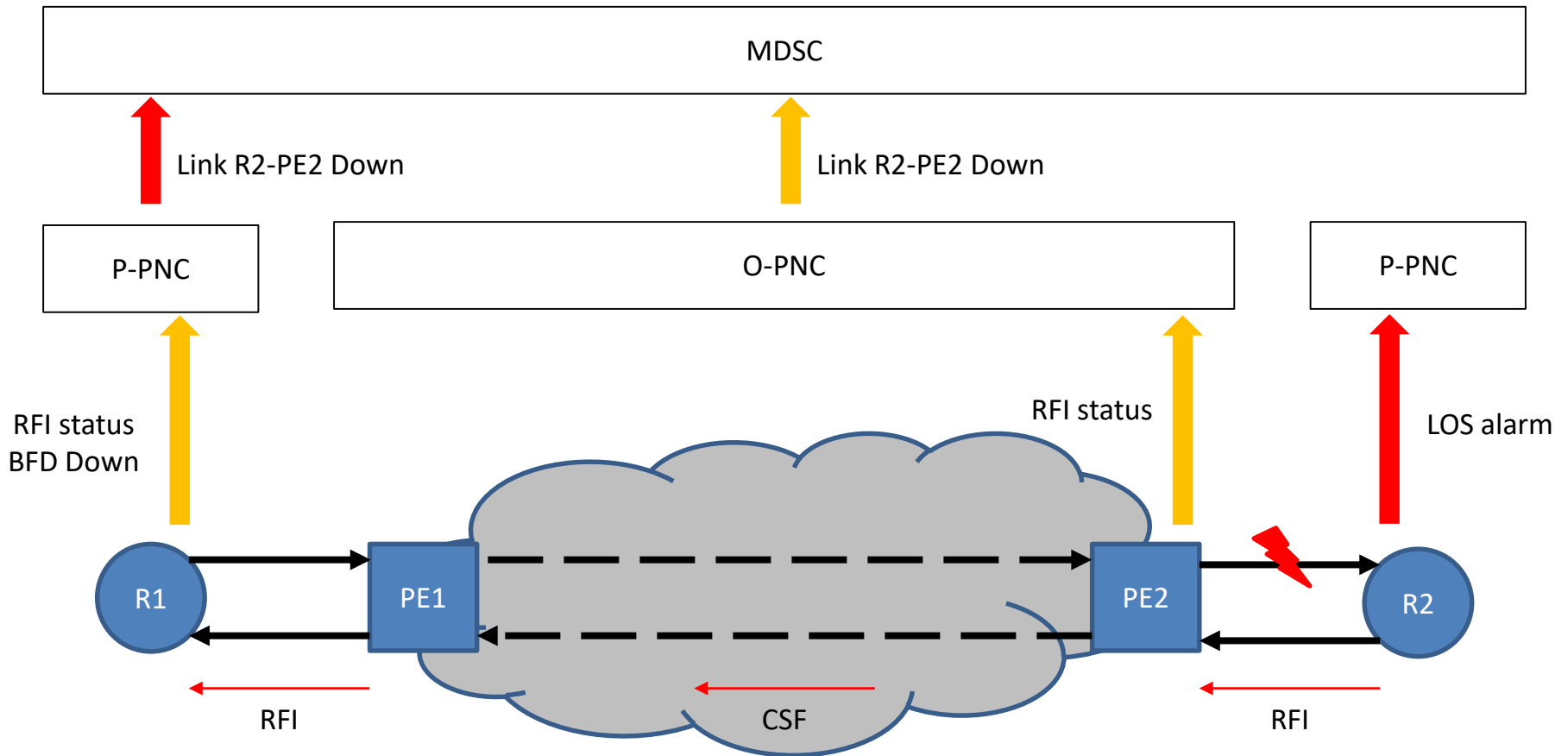
Still to be done

Cross-Layer Link Failure – Ingress case (*)

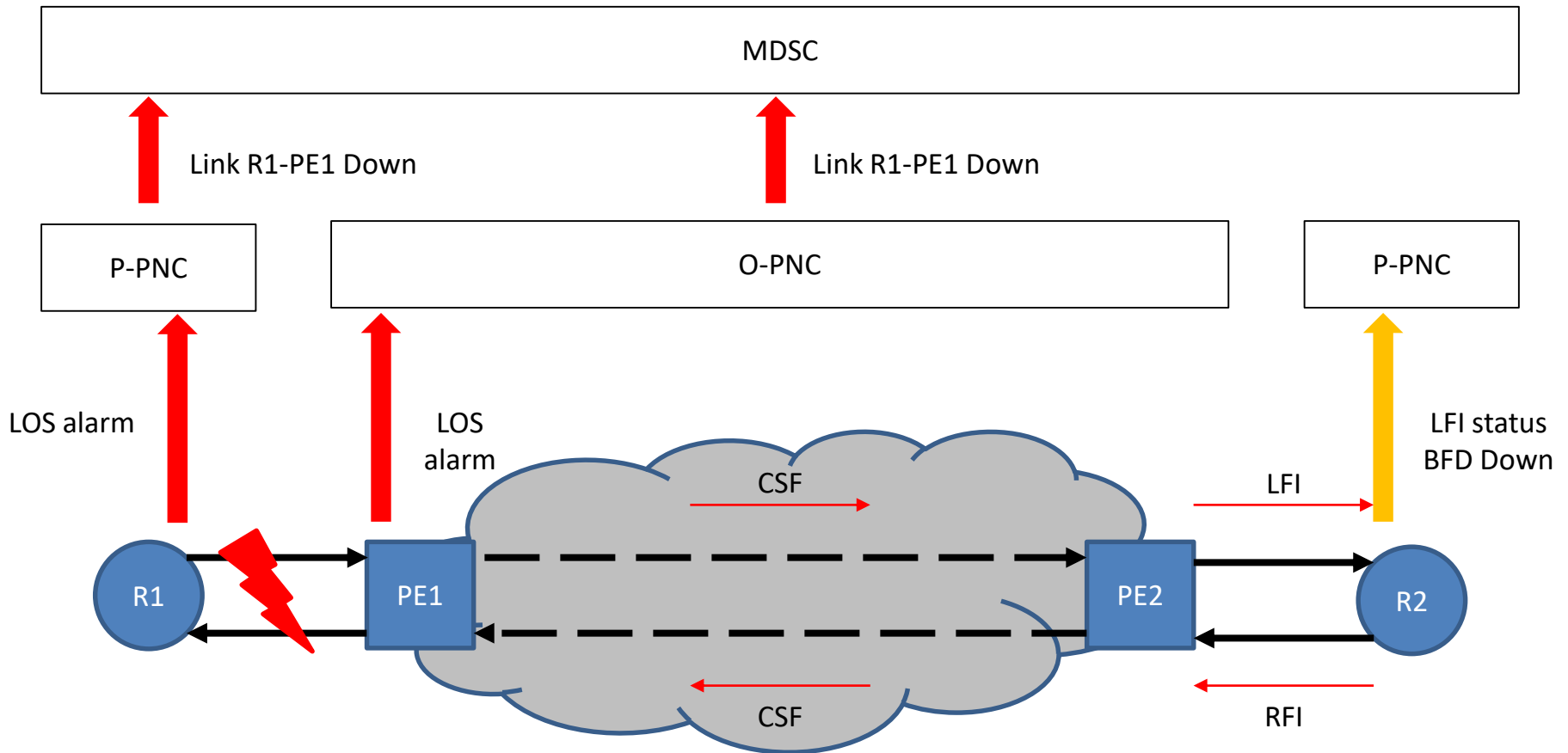
(*) From the optical network standpoint



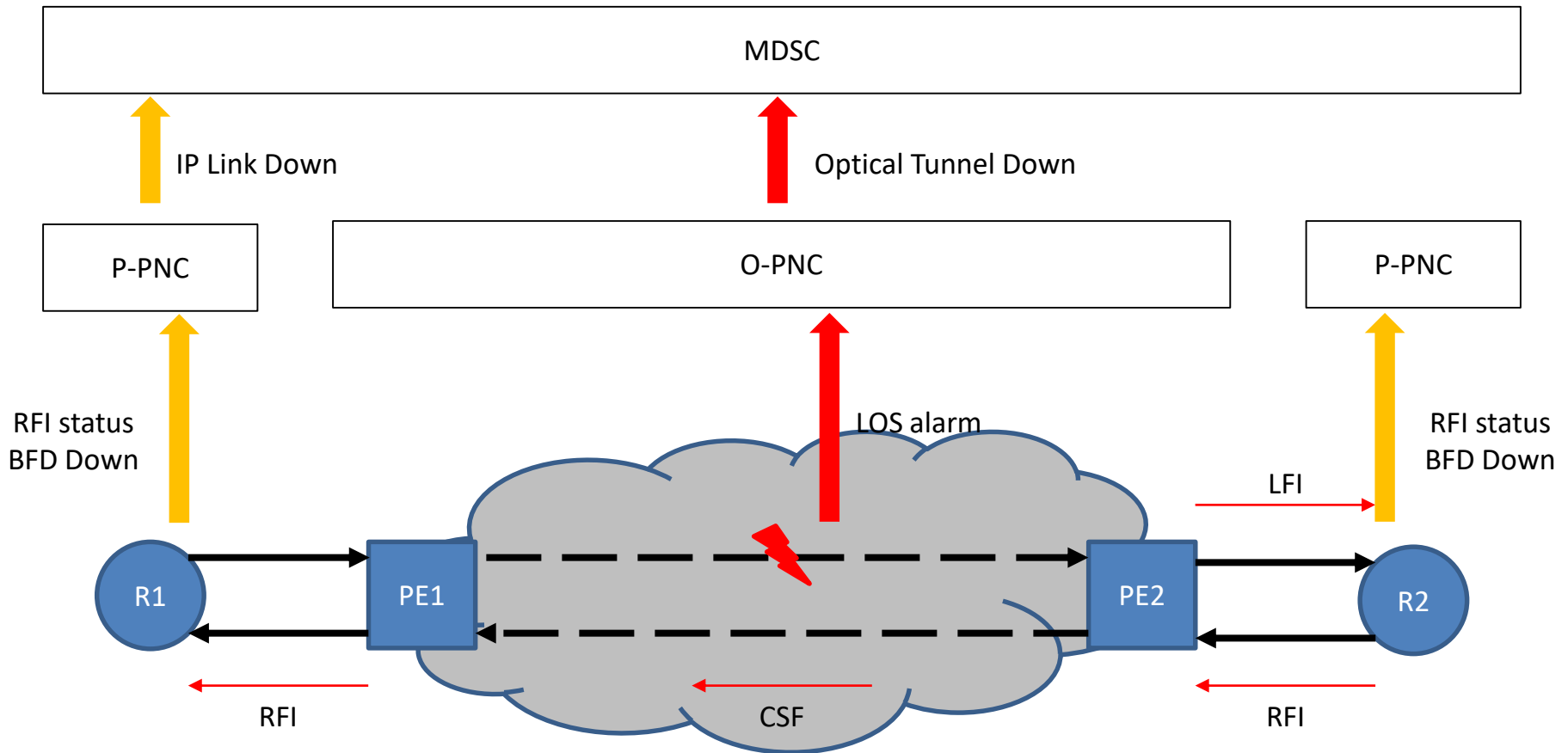
Cross-Layer Link Failure – Egress case



Cross-Layer Link Failure – Access Link Failure



Optical Network Failure (Possible Example)



Next Steps

- Version -04 expected to:
 - Complete the discussion on multi-layer fault management, and
 - Start the analysis on the relevant YANG data models at the MPI
- The authors think this latter part to be quite extensive
- Feel free to join the discussion and to contribute:
 - Bi-weekly ACTN POI calls (ask Italo Busi or Prasenjit Manna to be added to the group)
 - Issue tracking and latest version available on Git:
<https://github.com/italobusi/draft-poidt-teas-actn-poi-assurance>

THANK YOU

Reference Architecture

