

# IETF 118 CCAMP

draft-doolan-ccamp-saoc-in-actn-poi-00

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CCAMP Working Group  
Internet-Draft  
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Infinera  
23 October 2023

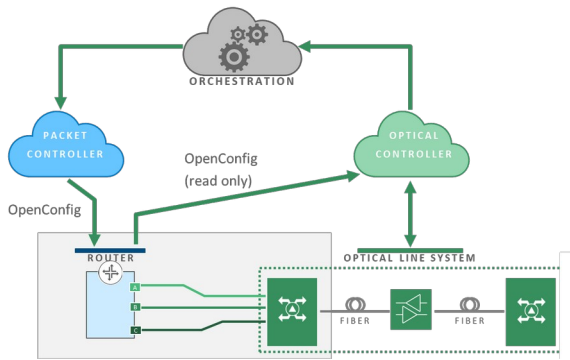
Security and Operational concerns in ACTN POI work  
draft-doolan-ccamp-saoc-in-actn-poi-00

## Abstract

Work in CCAMP on POI in ACTN is at an early stage and does not yet seem to have adequately described some of the operational or security concerns which may impact the real world applicability of any resulting work product

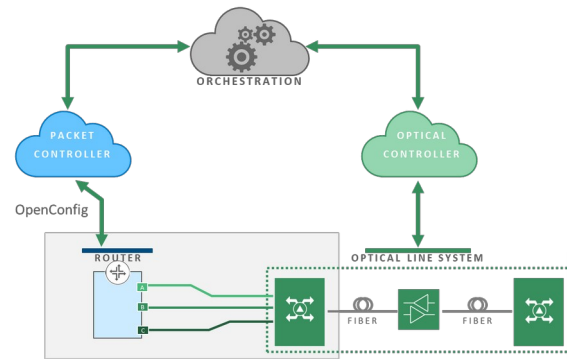
# IPoDWDM: Pluggable Management Options

## ALTERNATIVE CONTROL ARCHITECTURES DISCUSSED IN SEVERAL INDUSTRY INITIATIVES



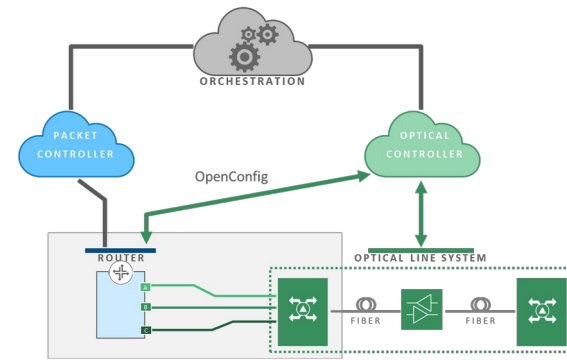
TIP OOPT MANTRA  
SOLUTION 1

Telecom Infra  
Project  
ACTN POI



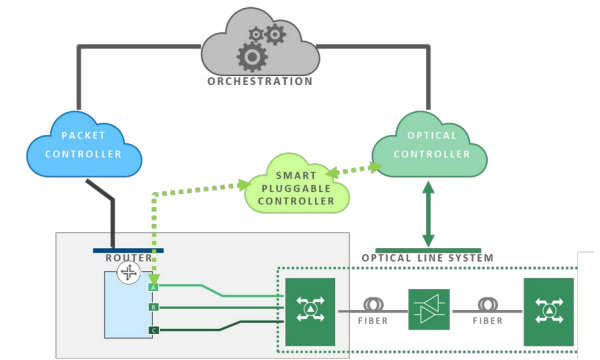
TIP OOPT MANTRA  
SOLUTION 2

OpenROADM  
Telecom  
Infra Project  
ACTN POI



EXTENSION: OPTICAL  
CONTROLLER  
READS & WRITES

N. Davis, et al.  
G. Borraccini et al.  
RFC8341  
OFC 2023 M3Z.13



HOST-INDEPENDENT  
MANAGEMENT

OIF whitepaper:  
Management of smart  
optical modules  
OpenXR  
forum

# Proposals

- Combine [ACTNPOI] and [DavisPPCA]
- Include an Operational Considerations section in the new combined draft that addresses the matters raised herein.
- Include appropriate matters raised herein in the mandatory security section
- Liaise to TIP, ONF and SG15 soliciting comment on the issues raised herein.
- Include management of smart plugs in the scope of this work.  
[We will provide a draft on this topic].
- Liaise to OIF CCAMP's interest in management of smart plugs topic and ask for access to early drafts of that work.

# References

- [DavisPPCA]  
Davis, et al, N., "ID: Control Architecture of Optical Pluggables in Packet Devices Under ACTN POI Framework", 2023.
- [ACTNPOI] <sup>1</sup>  
~~Peruzzini, et al, F., "ID: Applicability of Abstraction and Control of Traffic Engineered Networks (ACTN) to Packet Optical Integration (POI)", 2023.~~ Galimberti, et al, Applicability of Abstraction and Control, draft-poidt-ccamp-actn-poi-pluggable-02
- [TR319]  
Broadband Forum, BBF., "Achieving Packet Network Optimization using DWDM Interfaces - Physically Separated Model", 2016, <<https://www.broadband-forum.org/pdfs/tr-319.2-1-0-0.pdf>>.
- [Borraccini]  
Borraccini, et al, G., "QoT-Driven Optical Control and Data Plane in Multi-Vendor Disaggregated Networks, M4F.5, OFC 2022", 2022.

<https://datatracker.ietf.org/doc/html/rfc8341>

<https://opg.optica.org/abstract.cfm?URI=OFC-2023-M3Z.13>

1. The reference is incorrect in the current draft and will be corrected when/if we rev it. Thanks to Sergio Belloti for pointing this out.