

Abstraction and Control of Transport Networks (ACTN) BoF

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Agenda

- Introduction and Administrivia - Chairs – (15 mins)
- Problem Statement - Diego Lopez – (15 mins)
- ACTN architecture
 - Option 1 - Sergio Belotti – (15 mins)
 - Option 2 - Igor Bryskin – (15 mins)
 - ACTN architecture Open Discussion – (10 mins)
- Protocols work - Dhruv Dhody – (15 mins)
- Charter Discussion – Chairs – (30 mins)
- Conclusion and Actions – Chairs (5 mins)

Purpose and Summary from Toronto

- This is a WG forming BOF.
- In Toronto IETF, we had use-case discussions, all from operators (Microsoft, Telefonica, CM, KT, SKT, KDDI).
 - Multi-domain network control/operations
 - Virtual Network (VN) operation infrastructure to support new services, consolidate existing services
 - Hierarchical control architecture

Relevant Drafts

- [draft-ceccarelli-actn-framework-04](#) Framework for Abstraction and Control of Transport Networks 2014-10-20
- [draft-leeking-actn-problem-statement-03](#) Problem Statement for Abstraction and Control of Transport Networks 2014-09-29
- [draft-cheng-actn-ptn-requirements-00](#) ACTN Use-cases for Packet Transport Networks in Mobile Backhaul Networks 2014-07-21
- [draft-dhody-actn-poi-use-case-03](#) Packet Optical Integration (POI) Use Cases for Abstraction and Control of Transport Networks (ACTN) 2014-10-14
- [draft-fang-actn-multidomain-dci-01](#) ACTN Use Case for Multi-domain Data Center Interconnect 2014-09-29
- [draft-klee-actn-connectivity-multi-vendor-domains-01](#) ACTN Use-case for On-demand E2E Connectivity Services in Multiple Vendor Domain Transport Networks 2014-06-24
- [draft-kumaki-actn-multitenant-vno-00](#) ACTN : Use case for Multi Tenant VNO 2014-05-29
- [draft-lopez-actn-vno-multidomains-01](#) ACTN Use-case for Virtual Network Operation for Multiple Domains in a Single Operator Network 2014-10-27
- [draft-shin-actn-mvno-multi-domain-00](#) ACTN Use-case for Mobile Virtual Network Operation for Multiple Domains in a Single Operator Network 2014-06-30
- [draft-xu-actn-perf-dynamic-service-control-02](#) Use Cases and Requirements of Dynamic Service Control based on Performance Monitoring in ACTN Architecture

Questions

- What problem are we going to solve?
 - Hopefully well covered by presentations
- What is the solution architecture?
 - We don't need to give an answer right now
- Is there protocol work to be done? Scope/Size
 - To be evaluated. Dedicated presentation and discussion