

Title: Making the Switch: Coast to Coast Production P4 White Box Trial

Abstract:

At the Open Networking Summit 2017 AT&T announced a coast to coast production white box network trial interoperating multiple merchant silicon providers, using a common, uniform open source network OS, and In-band Network Telemetry (INT) fed into open source ONAP. In this talk we describe the details of how we used P4 as an instrumental part of this trail and our associated learnings. We describe how white box networks at the intersection of programmable pipeline Merchant Silicon, P4 pipeline programming abstractions, and open Network OS'es can create a powerful combination to accelerate and open networking platforms to provide new network performance and insights, and new operational efficiencies.

Speaker: Ken Duell, AT&T

Bio of the Speaker:

Ken Duell is AVP of Packet Optical Network Design & Engineering at AT&T. His organization is responsible for the design and development of AT&T's Layer 2 / Ethernet and Layer 3 / IP Edge Router Platforms. His organization's current focus is on the design and development of AT&T's Network 3.0 Indigo packet platforms including evolution of packet platforms to be white boxes based on merchant silicon and virtual network function software. Ken has a Ph.D. in Electrical Engineering from the University of Colorado at Boulder.