



Case Study 03

LSO OpenCS Packet WAN



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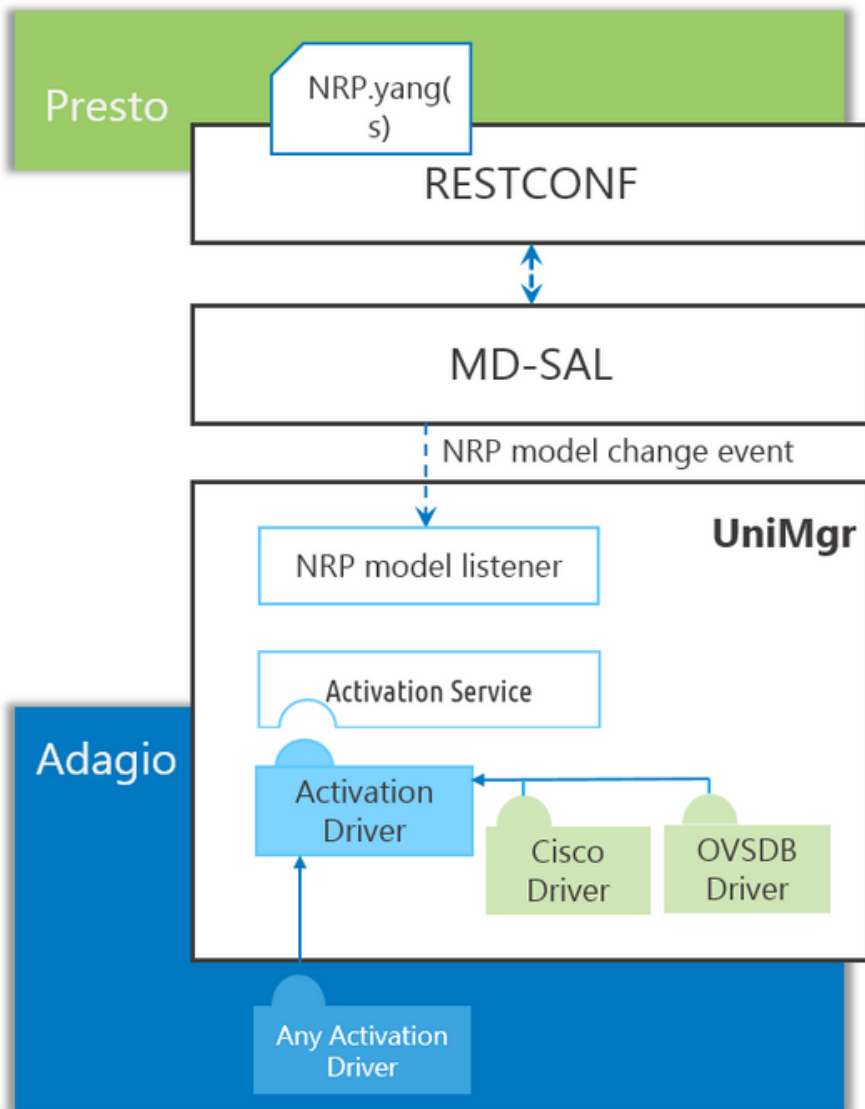


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The OpenCS Packet WAN use case focuses on orchestration of MEF Carrier Ethernet 2.0 services using SDN OpenDaylight controllers in combination with CE 2.0 networking devices.



LSO
PacketWAN



This Case Study kicked off at the GEN15 LSO Hackathon in Dallas, TX, as a result of combined effort of multiple companies. Since then, the team - co-led by one of the Amartus' experts, have continued their work to facilitate the Third Network Vision, and validate the capabilities requested by service providers in order to orchestrate E2E services expressed by MEF specifications.
Read more about [GEN15 LSO Hackathon](#)

The challenge: The goal of this Open Source project was to deliver a reference implementation of the MEF Lifecycle Service Orchestration (LSO) Presto API on top of the WAN Domain Controller controlling a network segment composed of heterogeneous equipment.

The solution: The Open Initiative solution is developed under the UNI Manager project as an OpenDaylight Controller module. The module handles LSO Presto activation requests (used to manage the network infrastructure) via the RESTCONF protocol. It is responsible for realizing the request in a multi-vendor environment. To achieve that, two conceptual components have been defined - the activation service and the activation driver. The activation service is responsible for orchestrating the request over multiple activation drivers. The activation drivers are encapsulating the vendor-specific logic and protocols required to realize the requests. The set of activation drivers realizes the LSO Adagio interface (which is the element management reference point needed to manage the network resources).