

Nominated Company: Ecode Networks

Nomination Title: SDN Orchestration by Network Virtualisation

Evolve™ takes the new architectural approach to network and security design, deployment and management by providing Service Providers and Enterprise IT departments with an easy-to-use solution that controls all aspects of Software Defined Networking [SDN] Orchestration. Decoupled from the controller, Evolve is a northbound Application Programming Interface (API), residing in the application plane it communicates with the Representational State Transfer (REST) based southbound API of the control plane.

Evolve™ gives an interactive interface to the user, delivering a full SDN experience.

Evolve™ through the control flexibility of SDN, eliminates the need for traditional routing, switching and other features from the network to create a simple, flatter and centralised flow-based structure. With a real-time health monitoring of the controller, switches and the links, Evolve provides a faster fault-resolution mechanism and adapts to the changes as the network scales.

Evolve™ provides a platform to create business API on top of the centralised control plane overlaying the cost reduced networking infrastructure. Using Evolve, Networking and Application staff can work together to improve IT efficiency, reduce overhead, and lower Total Cost of Ownership (TCO), with rapid innovation in the Network systems.

Benefits of Evolve™

- Displays and manages the abstracted network topology.
- Create customised network topologies and simulate in a virtual environment, pre-staging the production environment.
- Simulate a requested change in snapshot of the LIVE production environment, minimising risk by notifying the premonition of failure.
- Centrally controlled firewall and load balancer rule base, eliminating the need of purchasing distributed hardware and features across the estate.
- Simplified infrastructure provisioning in the live production environments.
- Automation of the day-to-day Business As Usual (BAU) tasks.
- Enhanced troubleshooting experience with the centralised control plane.
- Platform to develop, install and manage bespoke technical and business apps, overlaying the networking infrastructure.

Why nominee should win

- 1) Evolve virtualise the network functions i.e. Firewalling, Loadbalancing, reducing the dependency on the hardware.
- 2) It lowers the CAPex/OPex.
- 3) Simplified management and centralised control.
- 4) It reduces the carbon foot-prints of the datacenter.
- 5) Facilitates cloud services like NaaS.