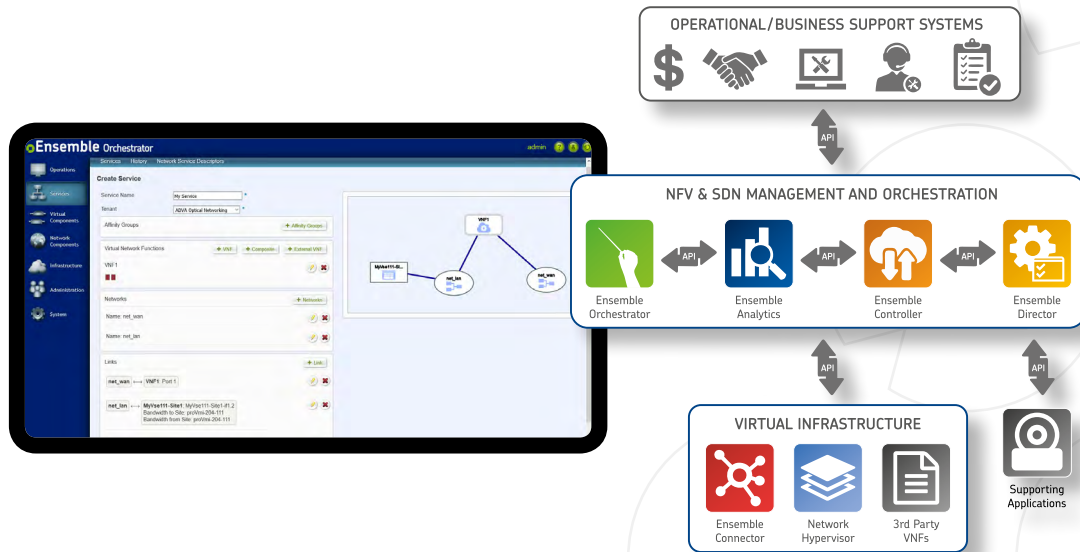


Ensemble suite

Network virtualization simplified

Communication service providers (CSPs) are looking for ways to be more competitive and agile, while also reducing CapEx and OpEx. Network functions virtualization (NFV) enables CSPs to deliver new revenue opportunities by accelerating the innovation cycle and reducing the time and cost of deploying new services in a multi-vendor environment.






NFV is transforming how communications services are developed and managed. While the benefits of NFV are clear, NFV also introduces operational complexity. To address this complexity, the Ensemble portfolio delivers a truly open network virtualization suite providing powerful orchestration, virtual hosting, management and automation tools. Ensemble provides a flexible, multi-vendor solution and an industry leading ecosystem of partners that delivers a wide variety of popular network virtualization use cases. With Ensemble, CSPs are now able to deliver a new generation of on-demand, application-aware services.



Your benefits

- ✔ **Real-world deployments**
 Ensemble is a virtualization suite with numerous awards and successful, live customer deployments
- ✔ **Truly open architecture**
 Embraces the open principles of SDN and NFV to deploy functions at the metro service edge, in the data center and in the cloud
- ✔ **Ultimate flexibility**
 Allows CSPs to replace closed appliances with software hosted anywhere in the network on any open hardware
- ✔ **High performance virtualization**
 Delivers multi-Gbit/s performance while maintaining low latency and jitter
- ✔ **Simple service assurance**
 Reduces cost and complexity of service assurance through intuitive, intelligent and automated tools
- ✔ **On-demand service delivery**
 CSPs can increase capacity or add new capabilities in real time without investing in infrastructure or dispatching technicians.

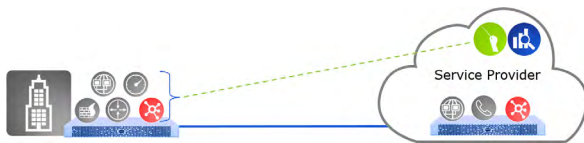
Ensemble overview

 <p>Ensemble Connector</p>	<ul style="list-style-type: none"> • High-performance virtual hosting and virtual networking platform • Enables support for hosting multi-vendor virtual network functions (VNF)
 <p>Ensemble Orchestrator</p>	<ul style="list-style-type: none"> • Powerful ETSI MANO-compliant NFV orchestration solution • Provides a single-point of entry for end-to-end VNF and network service lifecycle management
 <p>Ensemble Director</p>	<ul style="list-style-type: none"> • Delivers a Web 2.0 platform for telecom management (FCAPS) • Facilitates end-to-end management of large networks (native ADVA Optical Networking and third-party elements)
 <p>Ensemble Controller</p>	<ul style="list-style-type: none"> • Service-aware network controller and management system providing SDN applications and interfaces, to deliver advanced networking use cases based on ODL • Implements the necessary WAN-SDN capabilities for delivering overlay networking
 <p>Ensemble Analytics</p>	<ul style="list-style-type: none"> • Big data correlation, provides network and service systems with actionable intelligence • Open, standard API layer to integrate with Ensemble and third-party analytics apps

Applications in your network

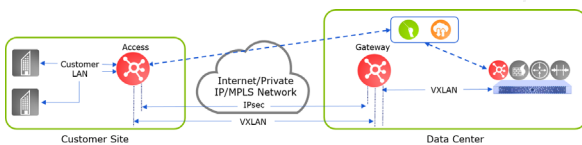
Enterprise vE-CPE

- Rapidly launch new services and drive new revenues
- Subscriber self-provisioning capability for service configuration and new services



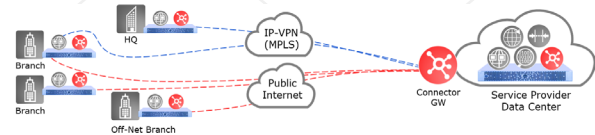
Layer 2 cloud extension

- Enables seamless, Layer 2 network connectivity between customer premise and virtual functions implemented in data center
- Integration with orchestrated data center services



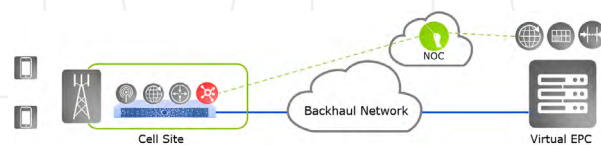
Software-defined WAN

- Upsell value-added services on top of SD-WAN
- Optimize traffic across multiple WANs
- Extend CSP reach to off-net customers



NFV in mobile backhaul networks

- Rapid service innovation, lowest latency and highest performance
- Single edge device for NFV/MEC, connectivity, synchronization and security



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Product specifications are subject to change without notice or obligation.