Accelerate rollouts and revenues for real-time communications services

Hewett Packard Enterprise and GENBAND

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Key benefits

- Improve service agility and accelerate the rollout of new services
- Reduce the complexity of deploying and managing real-time communications services through automation and orchestration
- Lower costs with network virtualization solutions running on commercial off-the-shelf hardware, instead of specialized appliances
- Scale resources elastically with demand
- Expand into new markets faster, at a lower cost, with less risk

Enterprises and consumers worldwide are using more voice, video, and messaging services than ever before. It's a huge market opportunity for **communications service providers** (CSPs)—but only if they can deliver those services on a high-performance, carrier-grade cloud-based network, and do it faster than the competition. With **network functions virtualization** (NFV) solutions from **Hewlett Packard Enterprise** and GENBAND, CSPs can test, deploy, and scale real-time communications services faster and at a much lower cost.

- **GENBAND** virtual network functions like distributed session border controllers (SBCs), advanced media software, call session controllers, and intelligent messaging let CSPs provision real-time communications services in a fraction of the time, in an automated and self-service manner and interconnect to other carriers easily.
- **HPE OpenNFV Program** delivers GENBAND NFV innovations as pretested and validated offerings that are ready-to-deploy in operators' existing networks.

The challenge

CSPs want to deploy voice, video, messaging, and other innovative real-time communications services quickly and efficiently. **NFV** solutions such as GENBAND SBCs play a central role in a CSP's ability to deliver those services, providing essential security, control, and interworking functions to enable seamless real-time communications from their network and across disparate networks. However, many CSPs still rely on dedicated appliances for those functions. Having to manually deploy and wire hardware adds layers of complexity when provisioning new services. That translates to delays in needed services for customers and longer time-to-revenue for **CSPs**.

GENBAND is making real-time communications simpler by virtualizing its industry-leading network functions. With a full-featured SBC and other capabilities delivered as virtualized network functions (VNFs) in the Telco Cloud, operators can design, provision, and scale communications services much faster and more easily. But integrating new VNFs into real-world operator environments, and aligning operational processes to support them, can get complicated. Assuring that new NFV technologies can be provisioned and managed as carrier-grade solutions is even harder.

The solution

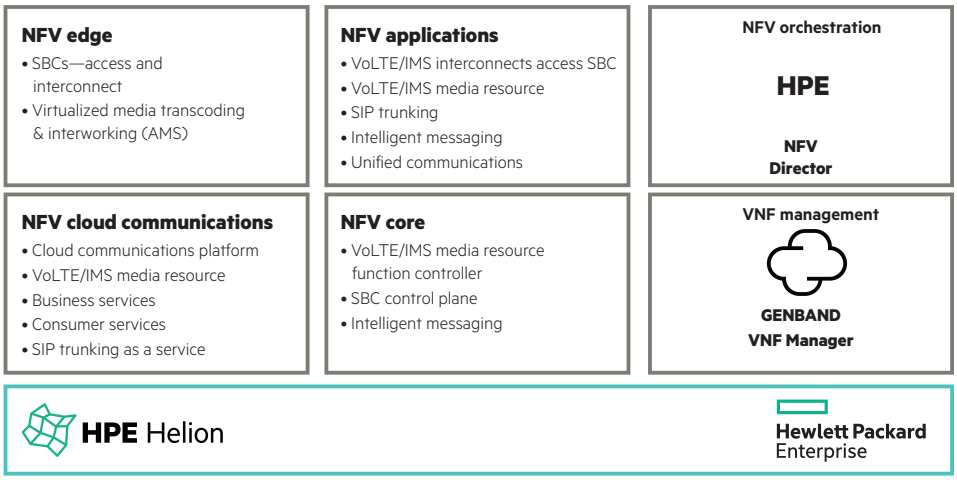
Hewlett Packard Enterprise and GENBAND are working together to help CSPs bring the speed, scale, and flexibility of NFV solutions to real-time communications services. Through the **HPE OpenNFV Program**, they can use GENBAND VNFs that are pretested and validated for rapid deployment in CSP's existing networks. Moreover, they can deliver highly reliable, carrier-class business communications solutions through a flexible, scalable **Telco Cloud** enabling CSPs to:

- Create a programmable **data center network** that acts as a virtualized foundation for a wide range of customer-facing services
- Use common orchestration, policy, analytics, and control to make provisioning and management simpler and less expensive
- Build a flexible services platform that lets operators quickly develop and onboard new services to optimize the network and solve their customers' pressing business problems

Accelerate real-time communications with GENBAND

GENBAND has long provided SBC and other real-time communications network technologies to operators worldwide. Now, those industry-leading network elements and applications can be delivered as VNFs—orchestrated end-to-end in an **NFV cloud platform**.

HPE and GENBAND OpenNFV and VNF solutions



GENBAND SBC VNFs, for example, allow CSPs to independently scale control or signaling and media planes for customer-facing services. Along with the standards-based GENBAND VNF Manager, operators can scale services up or down—on demand or automatically—entirely through software. They can integrate the speed and scale of **NFV** into their existing hybrid networks, orchestrating both virtual and physical resources to create customized service offerings.

As part of an integrated network virtualization platform, CSPs can provision new GENBAND-powered network services with a single click. They can launch a fully installed and running VNF application in minutes, with automated, software-based orchestration. As a result, CSPs can:

- **Improve service agility and operational simplicity** with the ability to roll out new services and enter new markets faster
- **Lower costs** by replacing dedicated appliances with general-purpose data center platforms
- **Optimize resources utilization** with elastic scaling of network resources
- **Enter new markets at a lower cost, with less risk** by deploying virtual SBCs in local, public, or private cloud data centers to gauge uptake, and then scaling up with demand
- **Unlock new revenue opportunities** by delivering SBC as a service to enterprise customers through virtual customer premises equipment (vCPE)

Faster time to market, more efficient network operations with HPE OpenNFV

GENBAND NFV innovations can help operators unlock amazing speed and business agility—but only if they can deliver them as carrier-grade solutions. Now, through the **HPE OpenNFV Program**, **CSPs** can deploy GENBAND virtualized solutions as part of the HPE high-performance, carrier-grade **NFV** infrastructure and end-to-end service orchestration solutions.

Hewlett Packard Enterprise provides an open, comprehensive NFV reference architecture and global lab facilities to pretest and validate NFV capabilities. Operators can bring all the benefits of GENBAND NFV innovations to their customers faster, while enabling carrier-grade performance, reliability, and manageability. And they can do it in a way that fully integrates with and enhances their existing infrastructure and operations.

- **Accelerate service agility:** Operators can use GENBAND VNFs that are pretested and validated for their existing networks—so they can implement them faster, with less risk.
- **Unlock NFV innovation:** With the close collaboration of **Hewlett Packard Enterprise** and GENBAND, CSPs can onboard and deploy networking virtualization solutions in their existing environments much faster and more easily. In addition, with HPE's global network of labs, they can validate these solutions will deliver the carrier-grade performance, availability, and manageability that their customers expect.
- **Operate new and existing services more efficiently:** CSPs can add GENBAND virtualized solutions through an evolutionary approach that bridges their current infrastructure with new deployments. With solutions that are fully validated for existing infrastructure and operations, operators can capitalize on NFV and SDN transformation while ensuring the continuity of existing services.

Accelerate the transformation to a Telco Cloud

Hewlett Packard Enterprise and GENBAND have partnered to help bring together to help bring together the worlds of telecom and **NFV**. Together, we deliver NFV as a carrier-grade solution, so CSPs can accelerate innovation, drive operational efficiency, and improve agility.

Hewlett Packard Enterprise has unparalleled experience in large-scale IT transformation projects, and is the perfect partner for service providers embarking on their own IT-fication journey. Now, operators can combine HPE's industry-leading telecom expertise with GENBAND NFV solutions that are validated for HPE infrastructure and optimized for service provider requirements.

Let's accelerate the new business of the network, together.

Learn more at
hpe.com/csp/nfv

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