Integrated uCPE Expedites Deployment for MSPs Connectivity Services

With the integrated NFV uCPE solution from Telco Systems and Clavister, every MSP can benefit from NFV automation, simplified logistics and cost-effective whitebox devices. With no integration and minimal setup, this is a powerful yet simple to use solution that is fully operational out of the box.

Network Function Virtualization (NFV) can transform operations for Managed Service Providers (MSPs) with flexible service automation and the deployment of cost-effective whitebox devices. However, many NFV strategies require complex business transformations and multiple system integrations. In light of these complexities, MSPs with limited resources or without a dedicated CTO function, may be deferring adoption of NFV based solutions. How can these MSPs modernize their operations and deploy NFV-based service automation without the related complexities?

**Integrated NFV edge solution**

To bring the benefits of NFV to every MSP, Telco Systems and Clavister have created an integrated and automated managed services uCPE solution based on network function virtualization (NFV). Running on high performance, cost efficient Arm architecture powered devices, the solution enables MSPs to design, deploy and monitor services for multiple customers operating across distributed locations from one centralized management platform. The solution features Clavister’s connectivity and cybersecurity VNFs and Telco Systems’ NFVTime solution, an service-ready plug & play uCPE suite that delivers on-demand NFV services with zero touch provisioning. The joint solution is offered in a flexible, pay-as-you-grow subscription model allows MSPs and their customers to expand gradually as demand increases, without prohibitive Capex investment.

**Solution benefits for MSPs:**
- **Lower operational cost**
- **Expedite time-to-market**
- **Accelerate introduction of new services**
- **Benefit from service flexibility**
- **Scale with ease**
- **Secure business connectivity**

**Ready to Roll**

**NFVTime uCPE solution**

**Service-ready**
Powerful yet simple to use management & orchestration

**Plug & play**
Zero-touch-provisioning (ZTP) & fully automated lifecycle support

**High performance, low footprint**
Optimized architecture that runs on low-cost devices
How it works: Solution components

Telco Systems and Clavister provide virtualized-edge technology, offering MSPs maximum business agility and high performance. NFVTime uCPE solution offers flexible delivery of virtualized network security and connectivity services including SD-WAN, vRouter, and vFirewall. With automated, on-demand deployment of any service as a VNF at any time, new services for IoT, edge computing, dev-ops and more can be easily added. The Arm architecture powered hardware provides a wide selection of cost-effective, high-performance whitebox devices. Arm is driving innovation at the core of the uCPE solution to improve energy efficiency, lower cost and to increase performance of cloud native application stack from Telco Systems.

“With the joint Telco Systems and Clavister solution, we gain a significant competitive advantage and can quickly deploy cost efficient SD-WAN and security services in a low risk framework and expand to new virtualized services without replacing the existing hardware.”

Tobias Seda
Managing Director, AdcareIT
NFVTime OS

NFVTime OS is a thin and robust NFVi-OS that transforms any white box into a fully operational uCPE platform. With a very low system footprint, it’s the perfect solution for operators seeking to rapidly deploy end-to-end, carrier-class networking solution for business security and connectivity. With NFVTime, MSPs can use any whitebox to run any VNF, future-proofing their business with agility and continuous innovation.

With a disaggregated architecture that separates hardware, OS software and VNFs users can optimize flexibility, reduce costs and quickly adopt new hardware and services. NFVTime allows for deployment of NFV services in matter of weeks from decision to service launch. The solution has been tested and certified with a broad variety hardware devices and VNFs.

NFVTime Ecosystem
NFVTime uCPE Manager

The NFVTime uCPE Manager provides centralized management, orchestration and provisioning. With support for Zero Touch Provisioning (ZTP), service providers can drop ship a COTS whitebox directly to the end customer and provision it automatically upon first plug into power and network. The centralized solution monitors all uCPE devices and VNF services, providing a complete visibility across the entire deployment.

Features include:
- Complete lifecycle management
- BYOD (bring your own device) installer
- Modern web interface based on catalogs and templates
- Easy integration
- Disaster recovery features: Backup and Restore

uCPE and VNF Service Fulfilment Process
Clavister VNF

The Clavister Security VNF has the capacity to replace, and even outperform, legacy Big-Iron appliances. It provides carrier-grade performance much like traditional appliances but with the added flexibility of dynamic scale-up and scale-down. Thanks to a unique multi-core architecture with configurable utilization of data-plane and user-plane processes, the Clavister Security VNF scales intelligently and almost linearly based on the number of vCPUs available per software instance. The Clavister Security VNF can reach extremely high capacity due to its unique data plane design that allows for code-blocks within the software to be internally chained in an efficient way according to traffic needs.

Clavister Virtual Stream Series is a carrier-grade virtualized firewall powered by Clavister cOS Stream with support for both VMware vSphere and KVM hypervisors. Thanks to its multi-core architecture and capability to utilize the latest technologies from Arm, Clavister Virtual Stream Series delivers extreme performance, making it the fastest virtual security gateway on the market today.

Powerful features include:
- Fully virtualized - Ready for SDN/NFV
- Flexible orchestration and management supporting multiple SDN/NFV platforms
- Powerful telecom features including CG-NAT, BGP, SCTP, SIP and more
- 100% carrier-grade robustness
- Designed for COTS hardware
- Swedish technology - No backdoors

uCPE and VNF Service Fulfilment Process
Summary

As managed service providers strive to improve user experience while, at the same time, improving operational efficiency, the integrated NFV edge solution from Telco Systems and Clavister offers a powerful value proposition. This solution simplifies logistics and automates operations of managed business services. With a selection of cost-effective white-boxes and our “pay as you go” model, MSPs around the globe can minimize risks and scale efficiently in response to increasing demand.

Interested in learning more about this offering?

Let’s talk!

Email: sales@telco.com
www.telco.com