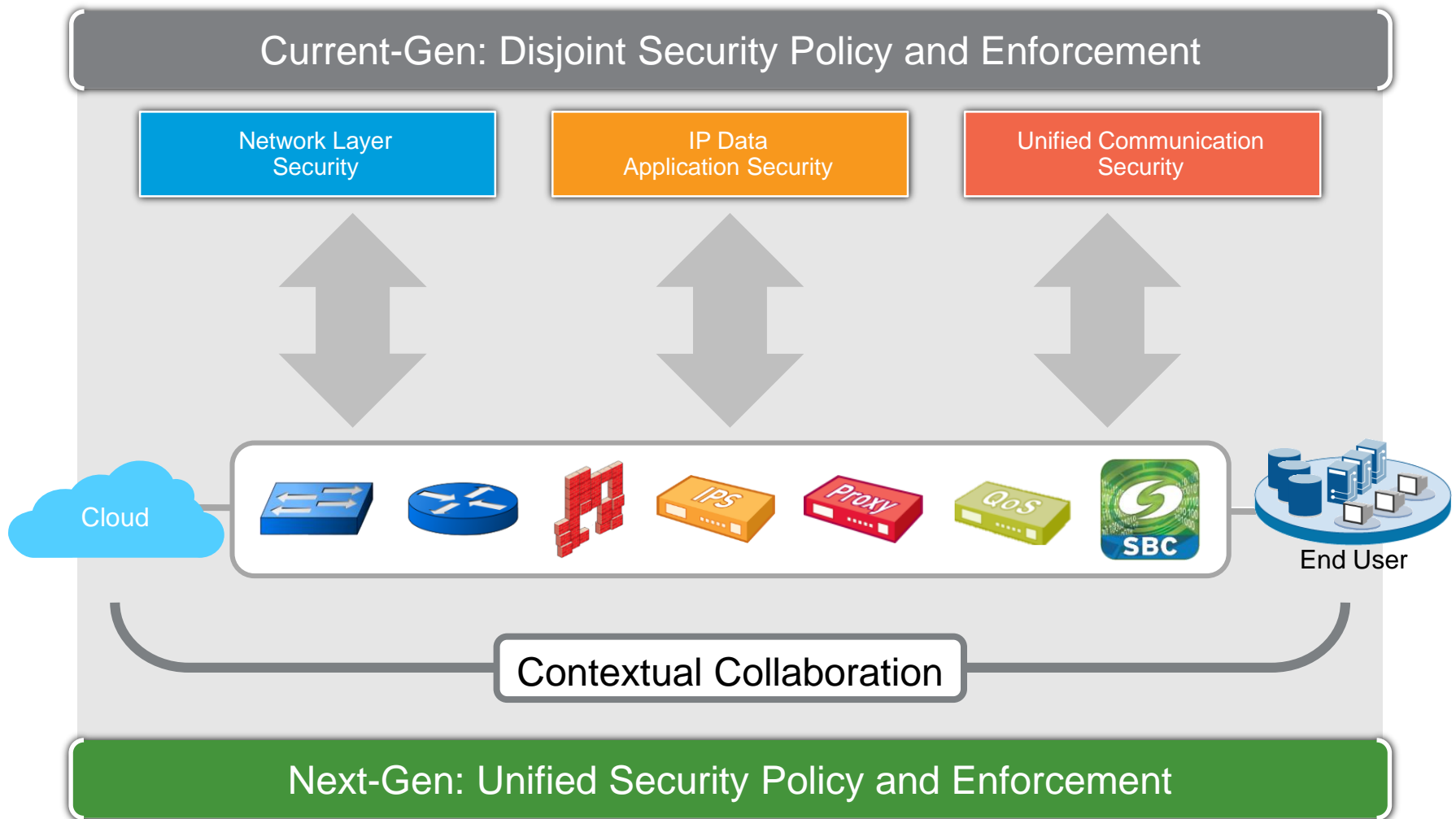


Using SDN and NFV to Realize a Scalable and Resilient Omni-Present Firewall"

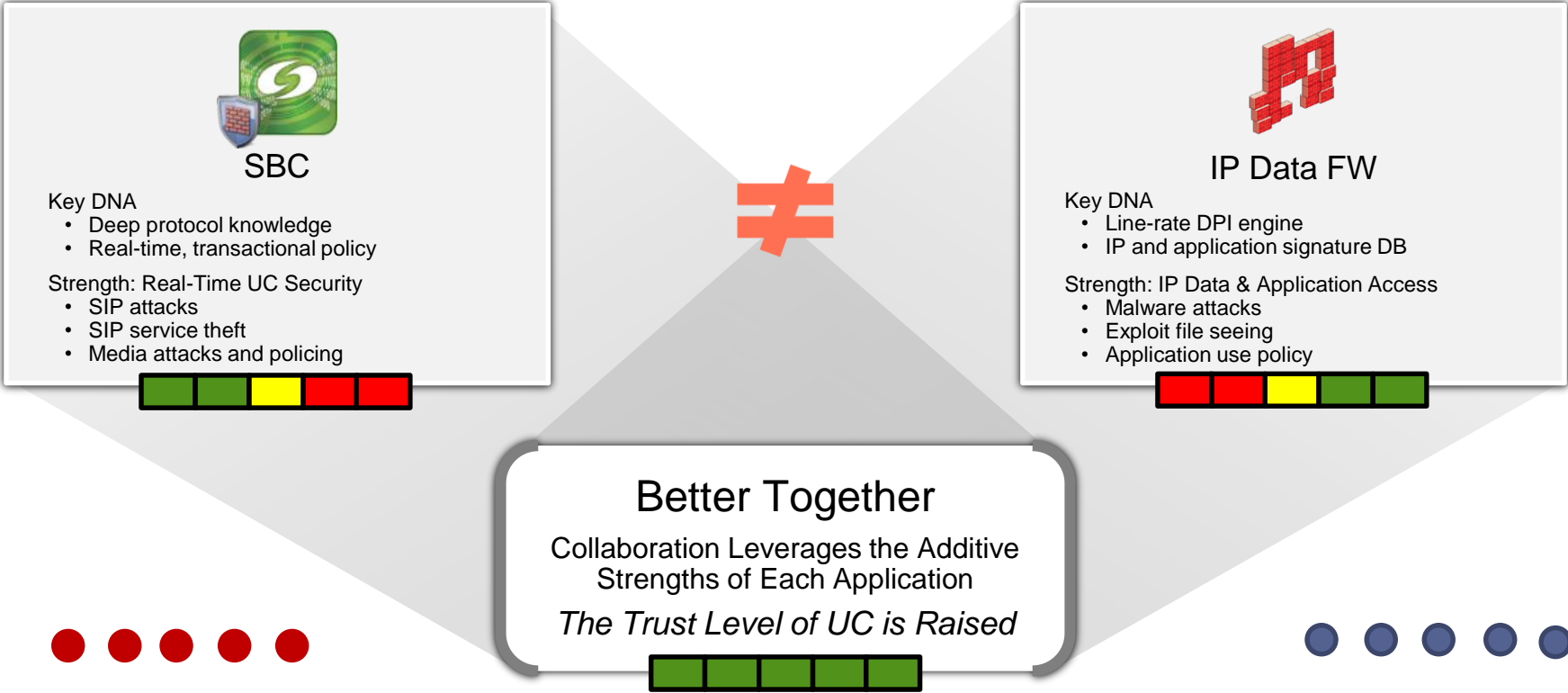
Christopher Cook, CISSP
Senior Product Manager, Security



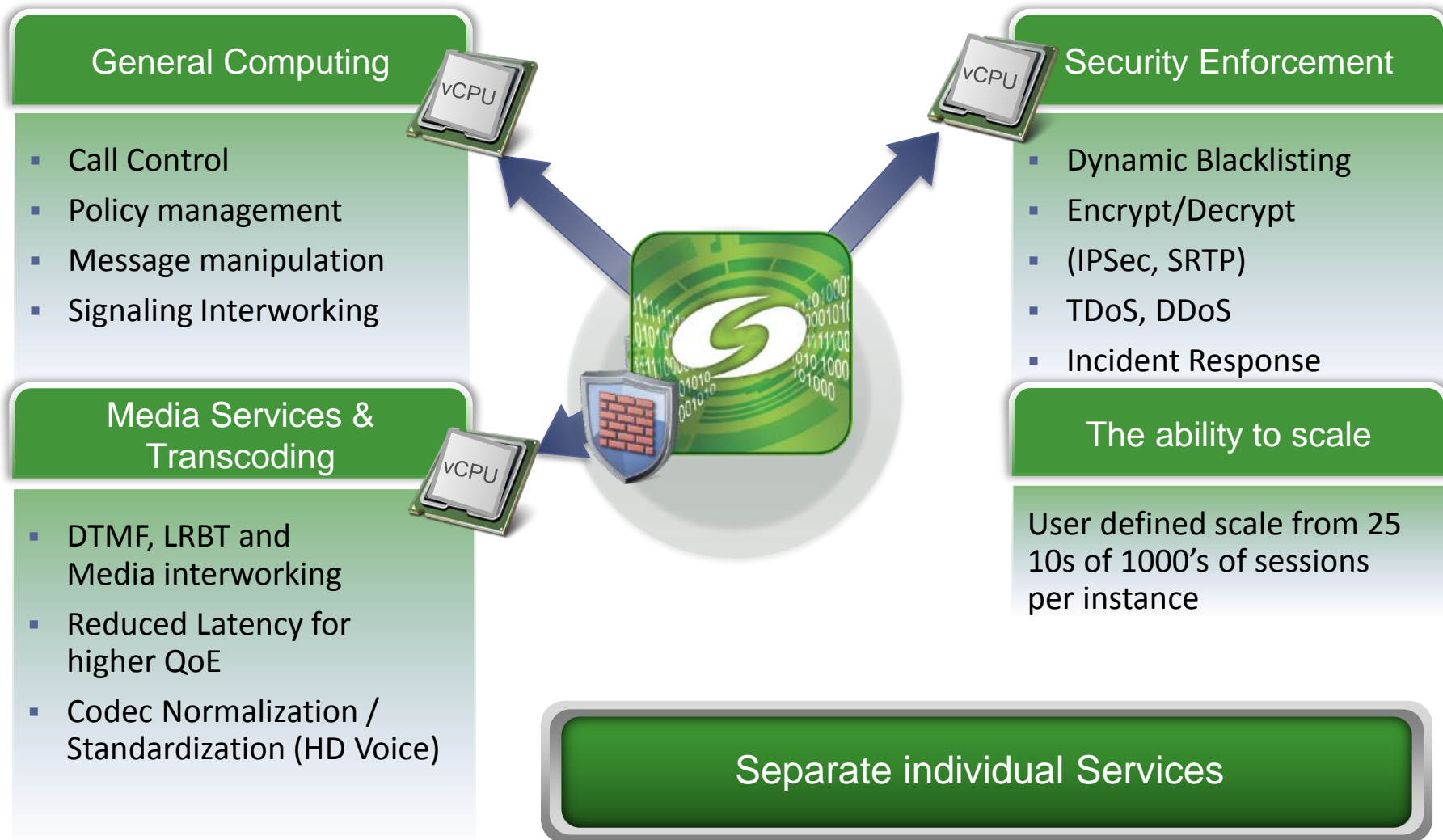
Unifying the Security Stack



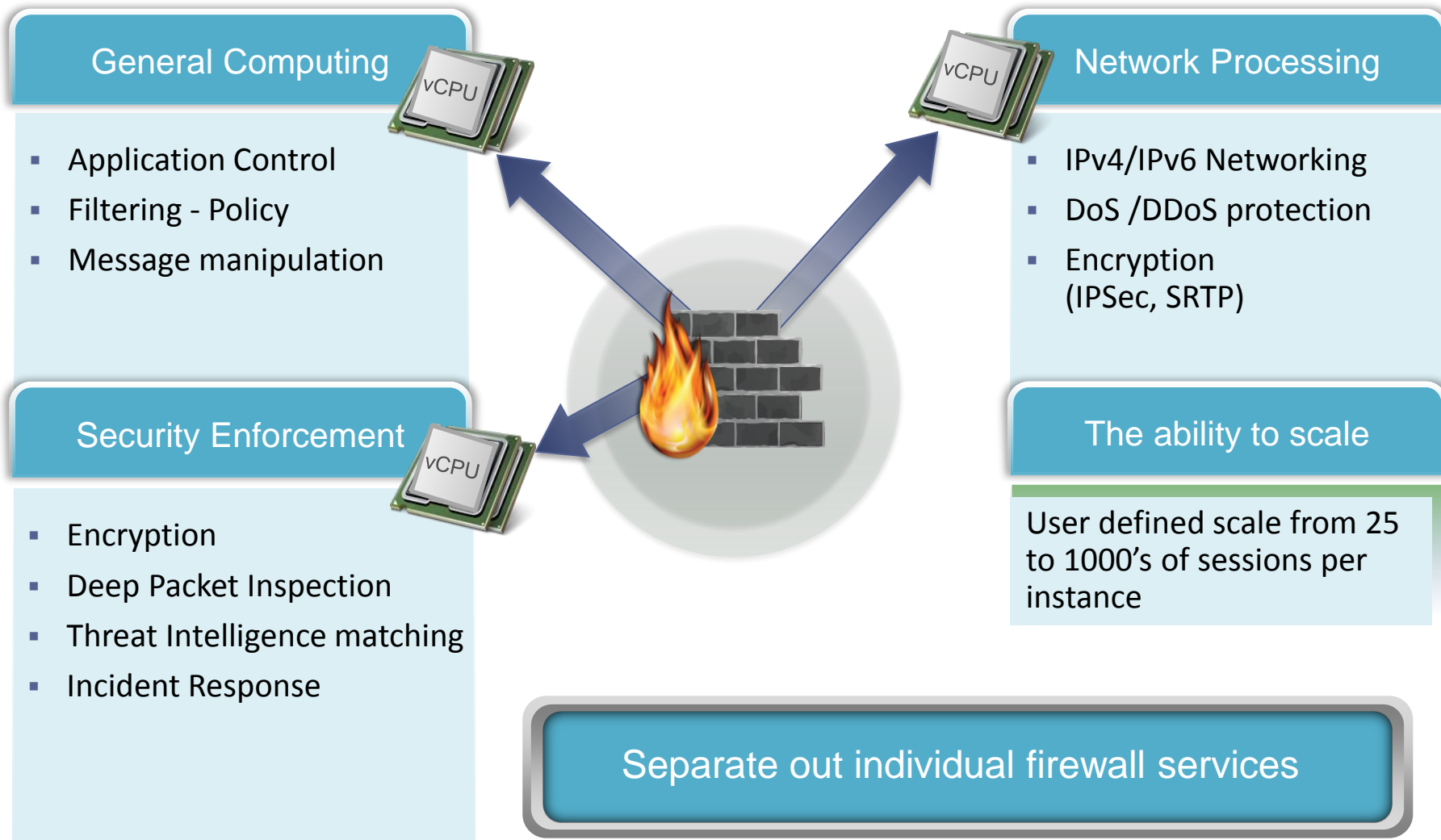
Collaboration – Threat Intelligence Sharing



Sonus SBC - Functionality



Next Gen Firewall - Functionality



Virtualization ≠ Cloud Native

Virtualized

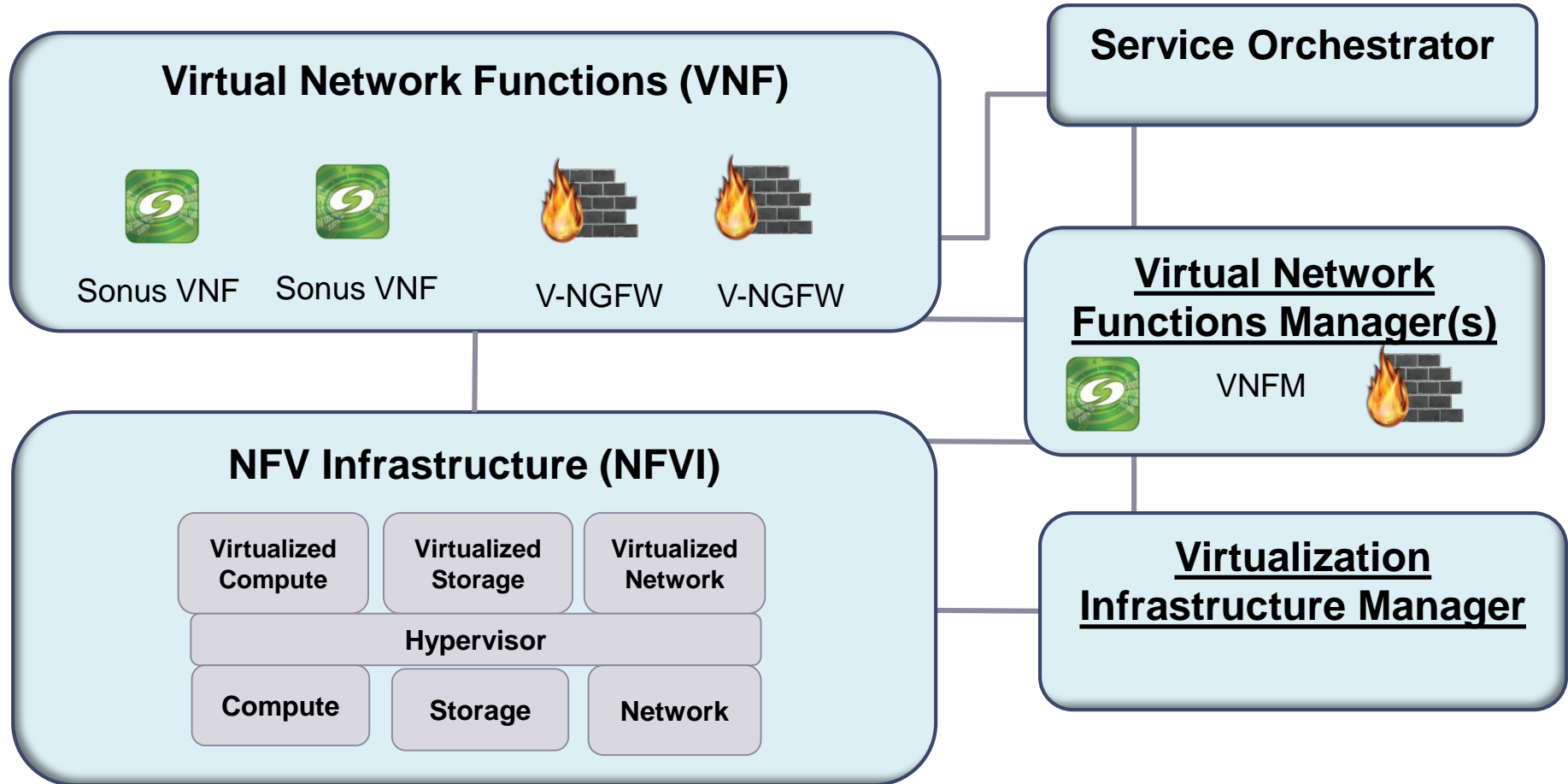
- Runs on bare metal
- Manually created in a software-only configuration
- Horizontally scales by adding another entire application

Runs in a virtual machine (e.g. VM, KVM) environment

- Designed and defined as a Virtual Network Function
- Runs in an OpenStack or public cloud (e.g. AWS) environment
- Auto-instantiated based on orchestration rules
- Horizontally scalable by adding VNFs to a cluster (a managed group of VNFs)

Cloud-Native

Orchestration Ecosystem



The DNA of the Re-Architected Security Stack



NFV/Cloud Benefits

Elasticity for on-demand scaling to match dynamic traffic profiles

Cost-effective deployment models of on-demand Services

Much faster time to market and geographic expansion

Reduced management costs leveraging orchestration to automate turn-up (and down) of virtual resources

Summary

NVF architectures allows you to achieve economies of scale on demand for all types of communications

Software based delivery allows you to re-invent how services are delivered, achieving faster time to market

Flexibly begin the Service migration to a virtualized Cloud environment at multiple starting points

Reduce the delivery costs of real-time communications through automated Service turn-up automation and simplified management

Independently scale and manage Services to optimize network investment

Thank you

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