TUNGSTEN FABRIC – FUTURES AND VISION

Goals	Initiatives	Capabilities
Improve NFVi Deployments	• Improve Dataplane Performance • Improve vRouter Portability • Offer Extended Orchestration Options • Update Infrastructure Service Support	• vRouter L3 Multihoming • Operator Framework • Intel, Mellanox, SmartNICs, DPDK pps/ flow setup rate increase • Increased cluster next-hop scaling, dataplane fast convergence • vRouter eBPF dataplane • Improved upgradability • Octavia Support
Position Tungsten Fabric for 5G	• Provide high performance, flexible Kubernetes SDN • Improve vRouter Encrypted Dataplane Performance	• Multicluster OpenShift/Kubernetes Support • High Performance vRouter for Containers (DPDK, …) • Dual Stack networking features for containers • Service Mesh support • IPSec Offloading/Hardware Acceleration
Optimize Tungsten Fabric for Edge Compute	• Support massively distributed vRouter compute endpoints • Support real-time hypervisors, improve vRouter deployment on small servers	• Remote Compute – improved troubleshooting, scalability • Expand Remote Compute to containers, Bare Metal • Improved Multi-Cluster SDN • vRouter low footprint, Real-Time Linux/KVM