

# RESOURCE POOLS

US Signal Resource Pools are powered by VMware vCloud Director to provide you with pools of dedicated or flexible virtual compute resources backed by a carrier grade, highly available, compute and network infrastructure.

## AT-A-GLANCE

- + Choose between dedicated or flexible Resource Pools to meet the resource requirements for your solution
- + Connectivity to Resource Pools workloads through US Signal's private MPLS/VES, VPN tunnels, or MPLS NNI
- + Securely manage workloads in your resource pools from a publicly accessible vCloud Director management portal
- + Maintain security and control over your environment with policy-based user controls
- + Take advantage of US Signal's Microsoft SPLA agreement for licensing Windows operating systems and applications in your Resource Pools

## TECHNICAL OVERVIEW

US Signal's Resource Pools are customer-managed virtual data centers where you can create and manage virtual machines residing in US Signal's carrier grade, multi-tenant cloud infrastructure. All virtual machines reside on high-performance storage arrays and have a Service Level Objective of less than 8ms of latency. The vCloud Director management portal allows you to manage your servers with policy-based user controls from anywhere with Internet connectivity. US Signal manages and offers multiple data centers, allowing you to build geographically redundant workloads.

- + 10 Gbps converged network connectivity
- + Dual homed Fiber Channel or iSCSI storage connectivity
- + vSphere DRS enabled
- + 40 Gbps carrier-grade upstream connectivity

### Dedicated Resource Pools

- + 100% dedicated compute, memory, and storage resources
- + Configure virtual machine reservations, limits and shares
- + Manage your own over-subscription

### Flexible Resource Pools

- + Dynamic availability of compute and memory resources based on available resources
- + 100% dedicated storage resources



# RESOURCE POOLS TECH SHEET

## SERVICE LEVEL AGREEMENT

The US Signal multi-tenant Resource Pools environment has been built using a highly available reference architecture with multiple ingress/egress network points, redundant storage paths, and compute resource redundancy. Backed by carrier grade network and compute infrastructure, US Signal provides an industry leading 100% available SLA covering both dedicated and flexible resource pools.

## COMPLIANCE

The US Signal Resource Pools solution is built using HIPAA and PCI security standards helping you achieve your compliance requirements.

- + Execute a Business Associate Agreement with US Signal
- + Annual audits with available reports
- + Secure logging of hosted virtual infrastructure

## ENHANCEMENTS

### US Signal Third-Party Licensing

Microsoft Authorized Mobility Partner for transferring your existing Microsoft licenses with Software Assurance License Mobility rights.

Utilize US Signal's SPLA license agreement to cover Microsoft server operating systems and applications.

- + Windows Server 2012 Standard
- + Windows Server 2012 R2 Standard
- + Microsoft SQL Server Standard & Enterprise (2014, 2012 and newer)
- + Microsoft Exchange Server Standard & Enterprise (2016, 2013)
- + Windows Server Remote Desktop Services (RDS)

### Cloud Load Balancer

- + vCloud Director controlled and deployed vShield Edge Gateway
- + Protocol and port health checks
- + Layer 4 (TCP) and Layer 7 HTTP/S balancing
- + Ingress/Egress rate limiting
- + Active/Passive deployment of appliance
- + Persistent Session support
- + 2.2 Gbps Throughout, 46,000 Connections Per Second, 8,000 Concurrent Connections

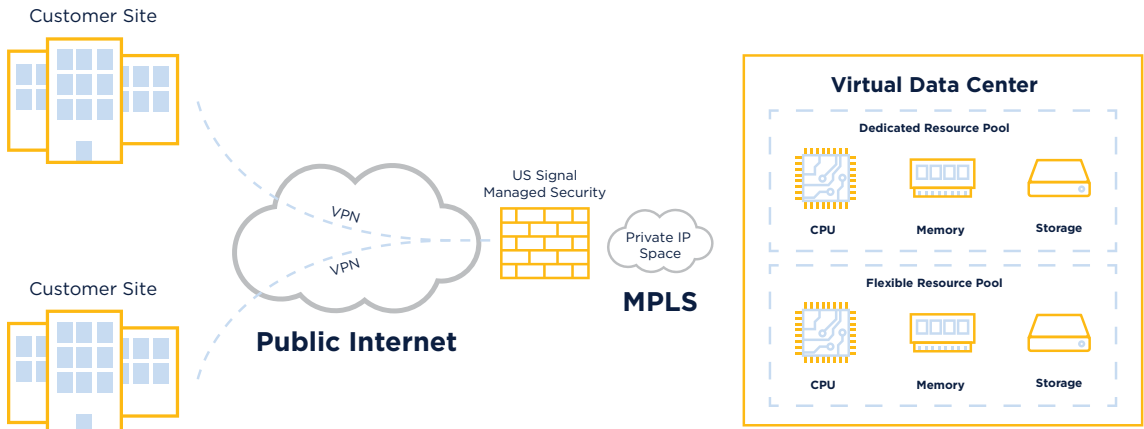
### Managed Security

- + Website & Application Security and Performance
- + 20+ Tbps DDoS Mitigation
- + Managed Firewall

## CONNECTIVITY OPTIONS

### Private VPN Connectivity

Pair Resource Pools with US Signal's Direct Internet Access and Managed Security solutions to terminate private VPN tunnels to a dedicated US Signal provided firewall.



### US Signal MPLS/VES Connectivity

Utilize your US Signal MPLS or VES network solutions to provide private connectivity to US Signal's Resource Pools workloads.

