



At a Glance

- Choose between dedicated or flexible Resource Pools to meet the resource requirements for your solution
- Connectivity to Resource Pool workloads through US Signal 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

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.

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 block storage with Service Level Objectives of 8 milliseconds for Gold tier and 14 milliseconds for Silver tier storage. The vCloud Director management portal allows you to fully manage your servers with policy-based user controls from anywhere with Internet connectivity. US Signal manages and offers multiple datacenters, allowing you to build geographically redundant workloads.

10 Gbps converged network connectivity

Dual homed Fiber Channel or iSCSI storage connectivity

Intel Xeon E5-2600 series processors

vSphere DRS enabled

Gold and Silver tier storage options

40 Gbps carrier-grade upstream connectivity

Compliance

The US Signal Resource Pool 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

Dedicated Resource Pools

- 100% dedicated compute, memory, and storage resources
- Configure per 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

Service Level Agreement

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

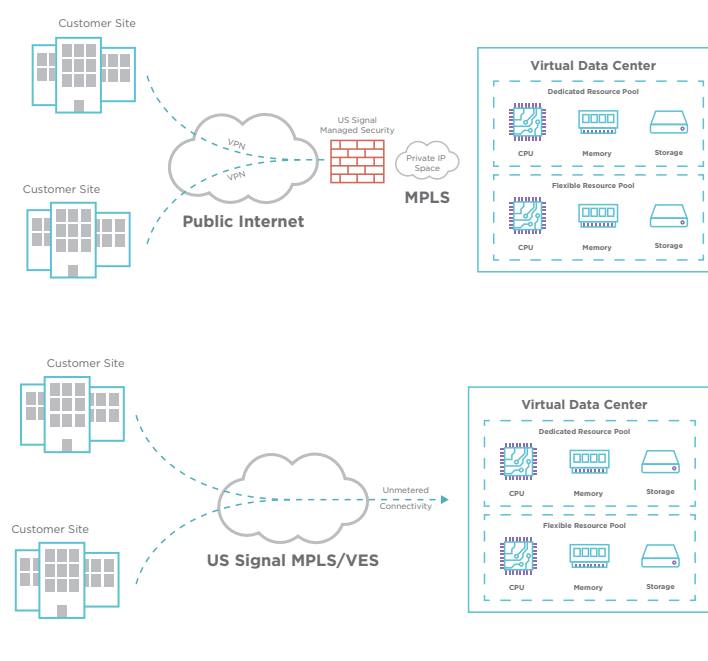
Connectivity Options

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 Resource Pool workloads.



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 2008 R2 Standard & Enterprise
 - Windows Server 2012 Standard
 - Windows Server 2012 R2 Standard
 - Microsoft SQL Server Standard & Enterprise (2014, 2012, 2008)
 - Microsoft Exchange Server Standard & Enterprise (2016, 2013)
 - Windows Server 2012 R2 Remote Desktop Services

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 Throughput, 46,000 Connections Per Second, 8,000 Concurrent Connections