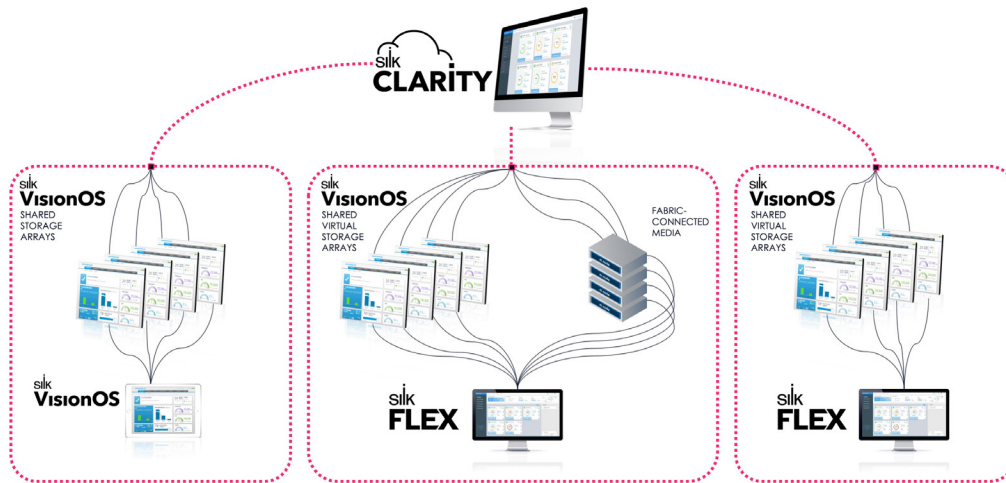# silk
Data Sheet

The Silk Platform

Silk for the Hybrid Cloud

The Silk Platform helps organizations accelerate the move to the public cloud and reduce the risk of running business-critical applications in cloud-agnostic environments, while delivering advanced agility, cost-efficiency, and performance SLAs regardless of where the workloads run. With the boundaries between private and public cloud blurring, Silk offers the capability to implement on-premise or any major public cloud platform, including AWS, Google Cloud Platform, and Microsoft Azure.

Silk Architecture

Silk's mesh architecture enables users to introduce new compute and capacity resources as needed and on the fly. Private cloud resources are automatically introduced into Flex after being installed. In the public cloud, Silk spins up cloud resources which are then utilized as different components. Individual VMs act as controllers for performance, while a group of 24 virtual SSDs can be presented as capacity resources.

Silk VisionOS

Silk VisionOS turns the underlying public cloud infrastructure into the world's most capable scale-out data virtualization and mobility platform.

DataShrink

Industry-leading data reduction including advanced compression and de-duplication.

DataProtect

Native clones and replication to return to any point in time. Data-at-rest AES256 encryption ensures data privacy.

DataManage

Intuitive web GUI, fully scriptable CLI, and a set of programmable RESTful APIs. SNMP and Syslog enable system data access for monitoring and reporting.
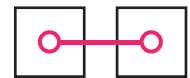
DataConnect

RESTful API for integration with external applications and frameworks (ie VMware vSphere and LogInsight, Microsoft VSS, OpenStack, and Kubernetes)

Silk Clarity

Silk Clarity delivers predictive analytics through a comprehensive set of management and monitoring functionalities including application-level intelligence, machine learning, and big data predictive analytics.

Multi-System Management

A centralized cloud-based portal enables single pane monitoring of the hybrid cloud.

AIOPs-Driven IT

Predictive analytics, proactive resource monitoring, and self-healing capabilities.

Automated Case Management

Automatically initiate maintenance cases and ensures a seamless support experience.

Silk Flex

Silk Flex delivers an on-demand ability to compose, optimize, manage, and decommission resources as needed to support SLAs.

Orchestrate Hybrid Platforms

Dynamically compose and orchestrate resources across the hybrid cloud.

Orchestrated Containers

Leverage the Silk RESTful API to dynamically request and provision resources.

Orchestrated Automation

Incorporating analytics from Clarity to automate resource management tasks based on a rules engine.

Performance and capacity details:

Performance		
Max Performance	Private Cloud	Public Cloud
IOPs	450K x N*	110K x N*
Throughput	5GB/s x N*	1.75GB/s x N*
Latency	150µs	250µs
Host connectivity	FC, iSCSI, NVMeOF	iSCSI
*N – number of compute nodes		

Capacity		
	Private Cloud	Public Cloud
Capacity (1:1)	Up to 240TB	Up to 80TB (Per Instance)
Media connectivity	100 Gb/s ROCE v2	iSCSI

Ready to get started? Visit www.silk.us to learn more about the Silk Platform.