

# Atlantis ILIO USX

## Technical Questions

**Q. What type of application workloads does Atlantis ILIO USX support?**

- A. Atlantis ILIO USX was designed from the ground up to support any server workload and has a range of storage volume types that provide optimal capacity reduction, performance and availability for the target application. It is suitable for a wide variety of application workloads from MS-SQL to Exchange and big data workloads such as Hadoop.

**Q. Do I need to make any application changes?**

- A. No. There are no changes required to the application layer. Atlantis ILIO USX does not alter the application or VM in any way.

**Q. Which VM operating systems are supported?**

- A. Any operating system is supported as long as it can run on the underlying hypervisor. Atlantis ILIO USX is agnostic to VM type and application.

**Q. Does my application need to be virtualized?**

- A. You need a virtualization platform to run Atlantis ILIO USX. However, applications that are installed on a physical server can make use of Atlantis ILIO USX storage volumes through NFS or iSCSI.

**Q. What percentage of storage consolidation can be achieved with Atlantis ILIO USX?**

- A. Every environment and application workload will have different levels of optimization. It is important to test with a realistic workload from your environment. Atlantis ILIO USX will reduce capacity by up to 90% depending on workload; we expect to see the average between 70% and 80%.

**Q. Do I need specialized knowledge to deploy Atlantis ILIO USX?**

- A. No, as long as you have knowledge of the hypervisor and storage in your environment, anyone can quickly deploy and manage an Atlantis ILIO USX storage volume. Deployment is fully automated through a simple configuration tool.

**Q. What type of storage can be used?**

- A. Any storage that can be presented to the hypervisor can be pooled and optimized by Atlantis ILIO USX. This includes SAN, NAS, flash arrays and local DAS including SATA, SAS, flash, SSD and RAM.

**Q. Can both block and file based shared storage be combined by Atlantis ILIO USX?**

- A. Yes, one of the unique features of Atlantis ILIO USX is its ability to provide consistent level of performance across a wide variety of storage.

**Q. Do you provide High Availability (HA)?**

- A. Yes. Atlantis ILIO USX provides integrated HA and data protection for the Atlantis ILIO USX storage volume. There is no single point of failure. Atlantis ILIO USX HA has no reliance on external HA functionality provided by the hypervisor layer. Customers can still use the hypervisor's HA and DRS functionality to provide VM level protection.

**Q. Can Atlantis ILIO USX create a hyperconverged infrastructure (storage and compute combined)?**

- A. Yes. Atlantis ILIO USX can pool local server resources such as SAS, Flash, SSD and RAM to create a hyperconverged infrastructure.

**Q. Can Atlantis ILIO USX create a hybrid array?**

- A. Yes. Atlantis ILIO USX can combine Shared storage (SAN/NAS) with local SSD or RAM.

**Q. Can Atlantis ILIO USX create an all-flash array?**

- A. Yes. Multiple local flash drives or Flash arrays can be pooled to create an all-flash scale out architecture.

**Q. Does Atlantis ILIO USX support VMware vSAN?**

- A. Yes, Atlantis ILIO USX can pool VMware vSAN along with any other types of storage and provide optimization that improves performance and reduces capacity utilization for vSAN.

**Q. Can I pool storage between public and private clouds?**

A. Yes, this has been tested with Amazon Storage Gateway, EC2 and S3. For solution details, please contact Atlantis Computing.

**Q. Are all writes committed to physical storage?**

A. Atlantis ILIO USX has the option to configure a storage volume to provide different levels of protection. All storage volume types have the capability of guaranteeing that writes are committed down to physical storage before being acknowledged back to the application layer.

**Q. What are the minimum requirements to run Atlantis ILIO USX?**

A. A minimum of three hypervisor hosts are required. The hosts need to have available local or shared storage and RAM resources to build an Atlantis ILIO USX storage volume.

**Q. What are the memory and CPU requirements for Atlantis ILIO USX?**

A. This will vary based on the application and storage volume type. The amount of resource required to pool a single server's local storage is 1vCPU and 4GB of RAM.

**Q. Do I need specific hardware to run Atlantis ILIO USX?**

A. This will vary based on the application and storage volume type. The amount of resource required to pool a single servers local storage is 1vCPU and 4GB of RAM

**Q. What hypervisors are supported?**

A. Atlantis ILIO USX has been designed to be hypervisor agnostic. The initial release will support VMware vSphere 5.x or later. Additional hypervisor platform support will be delivered in a future release. Atlantis ILIO Desktop Virtualization products are already available on VMware vSphere, Microsoft Hyper-V and Citrix XenServer.

**Q. Is there a limit on the number of storage resources that can be used to create an Atlantis ILIO USX storage volume?**

A. There is no technically enforced limit. Atlantis Computing has tested pooling over 200 separate storage resources.

**Q. Is there a minimum network requirement?**

A. 10GBe is the minimum requirement. Atlantis ILIO USX is network infrastructure independent and will work with any 10GBe networking infrastructure.

**Q. Is the performance of in-memory based storage volumes constrained by the network?**

A. The network architecture will need to be considered to maximize the available throughput and minimize latency to achieve the optimum performance.

**Q. Does Atlantis ILIO USX integrate with 3rd party management and orchestration platforms?**

A. Yes. Atlantis ILIO USX has a set of fully supported REST APIs that allow you to deploy and manage storage. See Atlantis ILIO USX REST API documentation for more information.

For more information on Atlantis ILIO USX configuration, requirements, sizing, and REST APIs please see the Atlantis ILIO USX product documentation set.