

## Fact Sheet

### **What is CloudArray?**

CloudArray is a standalone software product that enables businesses to seamlessly integrate applications to Cloud storage. Cloud storage, both private and public, appears to applications as native storage, similar to the way your local storage works. CloudArray offers many rich features such as data protection and copy services. It also provides features that allow fast access to data for use-cases of data recovery or DR.

### **How is CloudArray delivered?**

CloudArray is available to customers as a turn-key solution where the software is pre-installed on a physical appliance. It is also available as a software only solution that runs as a virtual appliance. The virtual appliance supports VMware ESX/ESXi, Citrix XenServer and Microsoft Hyper-V.

### **How would applications interface with CloudArray?**

CloudArray serves as a secure interface between server-based applications and Cloud storage. On the server end, it presents to applications CloudArray volumes via iSCSI (block storage). On the Cloud storage end, CloudArray interfaces with Cloud storage APIs without any changes to IT infrastructure or programming required. CloudArray provides this functionality without any changes to applications or programming to Cloud storage APIs.

### **Is data secured with CloudArray?**

CloudArray secures all data under its management by leveraging the Advanced Encryption Standard (AES), adopted by the U.S. government and also used to secure top secret information. CloudArray secures the data at the volume level ensuring security for local cached data and remote data stored in private Clouds or at a remote Cloud storage provider's data center.

### **Using Cloud Storage, will applications take a performance hit when accessing data?**

CloudArray minimizes performance impact by caching its data. Data is read directly from local cache, if available, or from the Cloud storage provider. CloudArray leverages any combination of local storage for its cache. This includes direct attached storage (DAS), iSCSI SAN, FC SAN, SSD and NAS. Caching policies can be assigned by application, by user group and by volume. The size of the cache is configurable. For example, data volumes can be configured for 100% of the volume cached. This results in duplicate copies of volumes; one local and one in the Cloud (private or public).

### **How is CloudArray administered?**

CloudArray is administered in several ways; GUI, Web interface and CLI. The GUI operates on either Windows or Mac hosts.

### **How does CloudArray handle data changes? Is the product efficient with Bandwidth?**

CloudArray presents block-based storage to applications. Only changed blocks of data are synchronized to Cloud storage thereby using available bandwidth efficiently.

### **What happens if the Network disconnects our applications from our Cloud storage provider?**

CloudArray will continue to operate recording all modified changes to volumes. Once connected, an update is prepared which encompasses all changes which have occurred since the last successful update.

## How can I evaluate CloudArray?

CloudArray is available for evaluation through the TwinStrata web site. Simply fill out the evaluation form to start the evaluation process.

### CloudArray Specifications

Host interface:	iSCSI
Hosts supported:	Windows, Linux, Mac OS X, HP-UX, VMware ESX/ESXi
Cloud storage interfaces:	EMC Atmos, Amazon S3, NFS, AT&T Synaptic, NFS/CIFS
Cache storage interfaces:	SAN, NAS, DAS (direct attached storage, internal to server)

### CloudArray features:

- Volume provisioning
- Thin provisioned volumes (oversubscribed)
- Cloud volumes: Locally cached
- Cloud replicas: asynchronous local to cloud replication
- Cloud snapshots: space-efficient cloud copies
- Host access control
- Configurable volume caching policies
- Data encryption: AES-256
- Data compression
- Full CLI and UI interfaces

### System requirements:

- VMware ESX or ESXi Server v3.5 or higher, Citrix XenServer v5.5 or higher, Microsoft Hyper-V
- 24 GB free disk space, min.
- Single CPU 1GHz or faster, min. (2 CPUs recommended)
- 1GB RAM, min. (2 GB recommended)
- 1Gb Ethernet network

### CloudArray manager system requirements:

- PC or Mac with 1GHz or faster processor
- Windows or Mac OS X
- 512 MB of RAM or higher
- Adobe AIR 1.0.1 or higher

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