



## Release Notes: DataCore Storage Adapter for Citrix® StorageLink™ Technology 1.0

Release Notes Cumulative Change Summary	Date
Original 1.0 release	July 24, 2009

These Release Notes include the following sections:

<b>Overview</b>	An overview of the product.
<b>System Requirements</b>	Provides system requirements for software and hardware.
<b>Installation</b>	Instructions for installing this release.
<b>Errata</b>	Known issues and possible workarounds.

### Overview

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The DataCore™ Adapter for Citrix® StorageLink™ Technology allows the user to perform storage management tasks directly out of the Citrix StorageLink user interface. It unifies management of virtual machines and DataCore virtual storage into one single console.

### System Requirements

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- **The DataCore Storage Adapter for Citrix StorageLink** is installed on the server running either:
  - Citrix Essentials for Hyper-V Express, Enterprise or Platinum Edition OR
  - Citrix Essentials for XenServer 5.5 Enterprise or Platinum Edition
- One or more DataCore storage servers running SANmelody™ 3.0 Update 1 or SANsymphony™ 7.0 Update 1.
- An IP connection between the DataCore storage server and the Citrix StorageLink server must be available as well as IP name resolution (either per HOSTS file or DNS).
- **Fibre Channel (FC) environments:**

Verify that the Hypervisor hosts (Microsoft Hyper-V or Citrix XenServer™) FC initiators are logged into the DataCore storage server FC targets. Use the DataCore Fibre Channel Manager to verify connectivity.
- **iSCSI environments:**

If using iSCSI to connect to the DataCore storage servers, the hypervisor hosts must explicitly log into the server before requesting storage resources.
- **Multiple initiator paths connected to the DataCore storage server:**
  - Microsoft Hyper-V servers should have DataCore MPIO 3.0 Update 2 installed.
  - Citrix XenServers should have the multipath feature enabled. **See DataCore Technical Bulletin 15** for XenServer MPIO settings.

## Installation

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The DataCore Storage Adapter is installed on a server where the Citrix StorageLink Gateway resides.

### **Before beginning the installation, ensure you have completed the following:**

- Review the Release Notes for System Requirements and other important information about the product. Ensure all necessary software is installed on the Citrix StorageLink server.
- Download the DataCore Storage Adapter package to the Citrix StorageLink server.
- Install DataCore software (SANmelody or SANSymphony) on the storage server. See the specific system requirements and installation instructions for SANmelody or SANSymphony on the DataCore Web site ([http://www.datacore.com/products/prod\\_home.asp](http://www.datacore.com/products/prod_home.asp)).

### **Follow these procedures to install the DataCore Storage Adapter on the Citrix StorageLink Server:**

1. Log on to Windows as **Administrator** locally.
2. Double-click the executable file to begin the installation.
3. The product splash screen will be displayed and then the **InstallShield Wizard** will start. Click **Next** to begin.
4. On the next dialog box, click **Install** to begin the installation.
5. Click **Finish** when the installation is complete. This will close the wizard.
6. The StorageLink Gateway service will be restarted automatically.
7. In Fibre Channel (FC) environments, verify that the Hypervisor hosts (Microsoft Hyper-V or Citrix XenServers) FC initiators are logged into the DataCore storage server FC targets. Use the DataCore Fibre Channel Manager to verify connectivity.
8. If using iSCSI to connect to the DataCore storage servers, the Microsoft Hyper-V hosts must explicitly log into the server before requesting storage resources.
9. Run the following command in the console of each XenServer added as a host in the StorageLink Manager:  
**xe sr-probe sm-config:newxml=1 type=cslg device-config:target=ip\_of\_CSL**  
where "*ip\_of\_CSL*" is the IP address of the StorageLink server.
10. Using the StorageLink Manager, select **Administration** from the menu to see a list of Storage Adapters. Select the **DataCore Storage Adapter** and right-click, then select **Storage Adapter Credentials**. In the dialog box, **enter a name** (a label) and the **exact hostname or IP address** of one of the DataCore storage server. Enter the **login and password** that matches that of the DataCore storage server.

## Operational Guidelines

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- The Storage Volume created or imported using the StorageLink Storage Repository should not be assigned names exceeding 20 characters.
- Unmapped virtual volumes on the DataCore storage server can be imported using the StorageLink Manager.
- To create '**Thinly Provisioned**' Storage Volumes with the Storage Link Manager, Dynamic Storage Pools must be configured on the DataCore storage server. To create '**Thickly Provisioned**' Storage Volumes with the Storage Link Manager, Static Storage Pools must be configured on the DataCore storage server (SANsymphony servers only).
- Do not change the region associated with the DataCore storage server once established.
- A Storage Volume presented by the DataCore storage server identified as type RAID0 has little to no resilience against failure.
- A Storage Volume presented by the DataCore storage server identified as type RAID10 possesses high availability. It is resilient to any single point of failure within the storage server.
- All resources created/imported through the StorageLink Manager are placed into a specially created domain within the storage server. In SANsymphony, this domain is named the **CitrixSL** domain. All storage resources created/imported using StorageLink, can be identified/managed on the storage server by referencing this domain.
- On the DataCore storage servers, close all configuration GUIs to insure that the configuration lock is released.

## Errata

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- If a storage server has multiple storage pools, it is not possible using StorageLink to create a Storage Volume by specifying a preferred storage pool. During the creation of a Storage Volume, the DataCore storage server volumes are selected based on the order of discovery.
- In a storage server region with 2 or more storage server storage subsystems, it is not possible to specify the storage server that will provide the volume that are selected to create the Storage Volumes requested by StorageLink.
- iSCSI CHAP cannot be configured.
- DataCore storage server snapshot relationships are used by StorageLink to create virtual machine clones. These relationships may be removed from the DataCore storage server. There is no negative impact on the use of the clone or the original if the snapshot relationship remains, however, the virtual machine may not subsequently be cloned or snapped.
- A cloned storage resource is initially presented without multi-pathing I/O features. To upgrade the clone storage device to have MPIO features, use the DataCore storage server tools.
- In this release, there is no support for dual-path storage.
- In the StorageLink Manager, the **Used Space** field for Storage Volumes and Storage Pools will always be shown as **0**.