Data Appliance 6.0 for ArcGIS®

ArcGIS 10.1 and 10.2 for Server | Windows®

Quick Start Guide

Powered by ArcGIS



137075 ESRI 10/13kq

Overview

The purpose of the Quick Start Guide is to step you quickly and easily through the setup of a Data Appliance 6.0 collection. This Quick Start Guide is for use with ArcGIS[®] 10.1 and 10.2 for Server. The setup consists of the following steps:

- Step 1Unpack the Components
- Step 2 Install Appliance into an Equipment Rack
- Step 3 Cable the Data Appliance
- **Step 4** Power On Data Appliance
- **Step 5** System Licensing and Activation
- Step 6 Apply Windows Updates
- Step 7 Verify the Data Collection
- Step 8 Create ArcGIS Users on Data Appliance
- **Step 9** Create Shares
- Step 10 Configure ArcGIS Server to Use Cache Directory
- Step 11 Publish Services
- Step 12 Use Services

Before Starting

ArcGIS Server 10 SP5 or higher is required for all Data Appliance 6.0 for ArcGIS data collections. If you purchased Data Appliance for ArcGIS 10.1 or 10.2 for Server, refer to the instructions provided in your Data Appliance for ArcGIS server box before performing the steps in this Quick Start Guide.

Important: It is imperative that care and precautions be taken when handling the data collection hard drives. The hard drives are sensitive to shock as well as electrostatic discharge. Make sure that precautions are taken to eliminate any built-up static. The use of a grounding strap is highly recommended while you handle the hard drives.

Unpack the Components

Data Appliance for ArcGIS is delivered in two boxes: one contains Data Appliance for ArcGIS; one contains the data collection hard disk drives. Data Appliance for ArcGIS has adjustable sliding rails to mount the Data Appliance for ArcGIS server into a standard computer equipment rack. The mounting kit and necessary hardware, two power cords, and an external USB optical drive are included. Data Appliance includes a removable front bezel to cover and lock the hard drives, as well as keys. The server weight is approximately 90 pounds.

- Install Appliance into an Equipment Rack -

Data Appliance for ArcGIS ships with side rails that slide into the adjustable rails installed in the computer equipment rack. Depending on the depth of your rack cabinet, adjustments to the sliding rails may be required. Use the mounting screws provided to attach the sliding rails to your cabinet. Install Data Appliance for ArcGIS into the computer equipment rack without the data collection hard disk drives installed. Additional details can be found in the Data Appliance 6.0 for ArcGIS Windows® Hardware Quick Reference that is included in the box. Next, insert the data collection hard disk drives into the corresponding hard disk drive bays. Each hard disk drive is labeled to match the label for the hard disk drive bay it should be installed into.



System Licensing and Activation

The system will boot into the final section of Windows Setup. Follow the on-screen instructions.

- A. Type the product key found on the Microsoft® COA label located on the front left corner of the system and click **Next**.
- B. Accept the Microsoft Software License Terms and click **Accept**.
- C. Select the appropriate country/region, time and currency, and keyboard layout. Click **Next**.
- D. Follow the instructions to set the administrative password for the system.

Note: Refer to the Data Appliance for ArcGIS User Guide for Windows on the Cutting Edge Networked Storage website for information on activating Windows without Internet access or for additional details on system setup.

— Apply Windows Updates -

Read the following before continuing: Data Appliance for ArcGIS ships with the Windows 2012 Storage Server operating system. Microsoft routinely releases updates and patches to improve stability and security. Any updates released after Data Appliance for ArcGIS has shipped need to be applied.

$(\mathbf{7})$

– Verify the Data Collection –

Before utilizing the data collection, the health of the RAID arrays must be verified. Data Appliance for ArcGIS ships with the LSI/3ware 3DM2 utility preinstalled. This utility will be used to verify the status of the datasets.

- A. Log in to Data Appliance for ArcGIS as Administrator.
- B. From the desktop, locate the **Connect to 3DM2** shortcut.
- C. Double-click Connect to 3DM2 to start the 3DM2 utility.
- D. Disregard the security warning and click **Continue to website (not recommended)**.
- E. On the Login drop-down menu, select Administrator.

Please Login	
Login	Administrator 💌
Password	
	Login

- F. Enter the password "3ware" and click Login.
- G. The 3DM2 summary screen is displayed. Note the Status column.



- H. If the status for all collections is OK and green, the arrays are healthy and ready to use. If something other than OK is displayed, click Information and click Unit Information. This displays the status of each RAID array (unit).
 - 1. If the status is **Verifying**, the datasets are ready to use. (Verify procedures are run on schedules to preemptively correct any errors.)
 - If the status is Degraded or Offline, immediately stop and contact Cutting Edge Networked Storage technical support.
- I. Click **Logout** to log out of the 3DM2 utility. Once you have logged out, exit the web browser.

— Create ArcGIS Users on Data Appliance

The ArcGIS user on ArcGIS 10.1 or 10.2 for Server must be created on Data Appliance for ArcGIS.

- A. Log in to Data Appliance for ArcGIS as Administrator.
- B. Start Server Manager > Select the Local Server > Tasks > Computer Management.
- C. In the Computer Management application, on the left pane, click Local Users and Groups to expand the tree, and click the Users folder. On the main pane, right-click and select New User. The New User wizard is displayed.
- D. Use the New User wizard to create the following user. The password must

3

Cable the Data Appliance

Data Appliance for ArcGIS hardware requires two AC power sources. Two power cords are included in the smaller box that contains the mounting kit for the rails. Connect both power cords. Connect a monitor to the video port as well as a keyboard and mouse to their respective USB ports. Network connectivity is required during the operation of Data Appliance for ArcGIS. Plug an Ethernet cable into the Ethernet port of the Data Appliance. Additional details can be found in Data Appliance 6.0 for ArcGIS Windows Hardware Quick Reference that is included in the box.



Power On Data Appliance

To turn on Data Appliance for ArcGIS, press the power button located on the front of Data Appliance. Windows 2012 Storage Server operating system performs a number of system checks to verify the integrity of the file system. During this time, the hard drive activity LEDs on Data Appliance will blink. Allow Data Appliance to boot into the operating system. be configured to match the password for the respective account on ArcGIS for Server, and the password must be set to never expire:

User Name	Full Name	Description
arcgis		Account to perform a variety of functions in support of the GIS server

E. Click Create to create each new user on Data Appliance for ArcGIS.

- Create Shares

Data Appliance for ArcGIS must be configured to share the data collections.

- A. Log in to Data Appliance for ArcGIS as Administrator.
- B. Start Server Manager > Select the Local Server > Tasks > Computer Management.
- C. In the Computer Management application, click **Shared Folders** to expand the tree, and right-click the **Shares** folder. Select **New Share**.
- D. In the Create A Shared Folder Wizard, click **Next** to begin.
- E. For Folder path, click **Browse** and navigate to the hard drive with the data collection (usually drive E). Select the **cache** folder (or the **source_documents** folder) and click **OK**.



Create Shares (continued)

- F. Click Next.
- G. In the Name, Description, and Settings dialog box, enter the **Share name** and **Description** for your data collection as indicated in the following table. For **Offline setting**, accept the default.

Folder	Share Name	Description
\cache	cache	Data Appliance Cache
\source_documents	source_documents	Data Appliance Source Documents

	ion, and Settings exploses and use this share over the network. 28
Type information a offine, dick Chang	shout the share for users. To modify how people use the content while at.
Share name:	Cache
Share path:	((WIN-RO/IPHL2A005)(Cedhe
Description:	
Offine setting:	Selected files and programs available offine Change

- H. Click Next.
- I. Select the Customize permissions option and click Custom.
- J. In the Customize Permissions dialog box, click Add.
- K. In the Select Users or Groups dialog box, click **Advanced**. The Select Users or Groups dialog box expands.
- L. Click **Find Now** to display a list of all local users. Press the Ctrl key and click the Administrator user and the arcgis user to highlight them. Then, with both users highlighted, click **OK** above the Search results area. The dialog box reverts to a smaller size.

sers, Groups, or Built in se	curty principals		Object Types
om this location :			
/IN-R07PHL2A08S			Locations
ter the object names to se	lect (<u>examples</u>):		
/IN-R07PHL2A08S\Admit	vistrator; WIN-RO7PHL	2A08S\arcqle	Check Names
IN-R07PHL2A08S\Admit	vistrator; WIN-R07PHL	2A08S\arcqk	Check

- M. The two users you just selected should be listed under Enter the object names to select. Click **OK**.
- N. Make sure the permissions for the users and groups are set to Full Control.
- O. Repeat steps 9C through 9N for the source documents folder.

(10)

\cdot Configure ArcGIS Server to Use Cache Directory —

ArcGIS 10.1 or 10.2 for Server maintains a list of directories in which it can find map and globe cache tiles. You need to explicitly add the Data Appliance cache directory to this list.

- A. Log in to ArcGIS Server using the Data Appliance for ArcGIS data account with administrative privileges.
- B. Start ArcGIS Server Manager and log in using your ArcGIS for Server account.
- C. Click the Site tab.
- D. On the View menu on the left, click Directories.
- E. Click Add Directory on the right below the Directories description.
- F. Enter a **Name**, for example, Cache. From the **Type** drop-down list,
- choose **Cache**. G. For **Location**, enter the **path** to the cache folder on the ArcGIS Data
- Appliance data collection you made when you created shares, for example, \\ARCGISDATAAPP\cache.
- H. You do not need to specify a Description, Cleaning Mode, or Maximum File Age.
- I. Click **Add** to add the directory.

Publish Services

The following instructions apply to map services. Information about globe services can be found in the help file on the *Data Appliance 6.0 for ArcGIS Help Documentation* DVD by opening arcgis_data_appliance.pdf.

Using ArcGIS Server Manager, you can publish a service definition file (.sd) as a service. To publish a service definition using Manager, follow these steps for each map service that you want to create:

- A. Open ArcGIS Server Manager and log in.
- B. Click Services > Manage Services > Publish Service.



Publish Services (continued)

The publish process uses the first directory in the server's list of cache directories. You need to change it to the data appliance cache directory created previously.

- J. Click the **Stop** button to the right of the service name to stop the service.
- K. Click the **Edit** button to edit the service properties.
- L. Click **Caching** and change the **cache directory** setting to reference the data appliance collection.

General	This service is sume	ntly stopped. Only the Cache Directory property can be edited.
Parameters	•	
Capabilities	Draw this map service:	 Dynamically from the data
Peoling		Using tiles from a cache
Processes	Cadhe Directory:	(/rad-dsk-ago-dll 1/Warld_Premiere_Collection/sache
Cathing	Cache Settings	
Item Description	Tiling Scheme:	Arc316 Online / Bing Maps / Gopgle Maps

- M. Click **Save** to save your changes and click the **Start** button to restart the service.
- N. Repeat this process for any other map services you want to publish.



Use Services

For specific instructions on how to connect to and use the services, see the appropriate user guide for the ArcGIS application you are using.

Additional information can be found in the help file on the *Data Appliance 6.0 for ArcGIS Help Documentation* DVD by opening arcgis_data_appliance.pdf.

Services Reference Guide for 6.0

Map Services	Globe Services	Geocode Services ¹
DeLorme_World_Base_Map NatGeo_World_Map Ocean_Basemap USA_Topo_Maps World_Boundaries_and_Places World_Boundaries_and_Places_Alternate World_Imagery World_Light_Gray_Base World_Light_Gray_Reference World_Light_Gray_Reference World_Physical_Map World_Shaded_Relief World_Street_Map World_Topo_Map World_Transportation	ESRI_Elevation_World USGS_Elevation_US	ESRI_Places_World'

¹Available on a separate DVD included with Data Appliance 6.0 for ArcGIS

Resources

Cutting Edge Networked Storage provides several reference documents. These are available at **cuttedge.com/contact/DAWindows.html**.

The Data Appliance 6.0 for ArcGIS Help Documentation DVD is included in the box with your data collection drives. Refer to the help for additional details.

For an up-to-date online help system, system requirements, information on licensing, and more, visit **links.esri.com/data-appliance/6.0/tech-docs**.

Support

Esri Support

For information regarding the configuration and setup of ArcGIS services and usage, visit **support.esri.com/en/phoneSupport**.

For the most current information for all ArcGIS products, visit the ArcGIS Resources website at **resources.arcgis.com**.

Cutting Edge Networked Storage Support

For information and support regarding the Data Appliance for ArcGIS hardware, contact Cutting Edge Networked Storage using the following options:

- Phone:800-257-1666E-mail:support@cuttedge.comWebsite:cuttedge.com/contact/technical_support.html
- Hours: Monday-Friday, 8:00 a.m.-5:00 p.m. (Pacific time)

....

- C. Click the **Browse** button to navigate to the source_documents > service __definitions folder on the Data Appliance data collection, for example, __\ARCGISDATAAPP\source_documents\service_definitions.
- D. Select the **service definition** you want to publish, for example, Ocean _Basemap.sd. See the Services Reference Guide for 6.0 at the end of this document for a list of the Data Appliance map services.

Organize 💌 New Folder		90	- 🖪 \varTheta
	A Name -	Date modified	77594
Documents	DeLorne_World_Base_Rap.sd	8/27/2012 2 HS PN	ArcSIS Servi
A Music	ESRJ_Elevation_World_Template.jech	6/27/2012 11:35 PM	250N Pile
Rictures	Ratieo_World_Map.sd	8/3/2962 3:03 PM	ArcSIS Seni
Hores Weeks	Cosan_Basemap. rd	0/0/2012 3:12 PM	Areas Serve
Computer	2 USA_Topo_Maps.sd	0/0/2012 0: 15 PM	ArcSIS Seni
	USGS_Elevator_US_Template.pem	6/27/2012 11:17 PM	2508 Pile
	2 World_Boundaries_and_Races.sd	0/0/2012 0: 19 PM	ArcGIS Seni
ConMASONIE	World_Boundaries_and_Flaces_Alternate.ed	0/07/2012 11:55 AM	ArcGIS Serve
DenMASONIE	World_Twagery.sd	0/13(2012 3:13 PM	ArcSIS Senie
2 on MASONIZ	World Light_Gray_Base.ad	0/3/2012 3:23 PM	ArcGIS Serve
🗣 Factouric	World_Light_Gray_Reference.sd	8/3(2012 3:25 PM	ArcSIS Seni
	World_Physical_Map.ad	0/3/2012 3: 30 PM	Arogis Serve
			1
E11	name Ocean_Basemap.od	All Files (C.D.	-

E. Click Next.

- F. By default, the service definition is published to the server folder specified in the service definition configuration. You must publish the service definition to this root folder.
- G. Optionally, choose the **GIS server cluster** that will host the published service definition. Click **Next**.
- H. Optionally, choose to **enable** or **disable capabilities** for your service definition.
- I. Click **Publish** to publish the service definition as a service. The new map service appears in the list of available services.





Copyright © 2013 Esri. All rights reserved. Esri, the Esri globe logo, ArcGIS, arcgis.com, and esri.com are trademarks, service marks, or registered marks of Esri in the United States, the European Community, or certain other jurisdictions. Other companies and products or services mentioned herein may be trademarks, service marks, or registered marks of their respective mark owners.