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INTRODUCTION

The Windows File System *i*DataAgent provides unified protection and recovery for the file system data residing on Windows clients. In addition to complete protection of file system data for disaster recovery, the Windows File System *i*DataAgent also provides more granular backup and recovery options that operate seamlessly with your data protection. Added options for deduplication, job management and reporting help ensure all your file system data is easily traceable and retrievable whenever the need arises.

KEY FEATURES

The Windows File System iDataAgent offers the following key features:

SIMPLIFIED DATA MANAGEMENT

The Windows File System *i*DataAgent enables easy management of all the Windows systems in your environment, by providing a singular approach to manage the data using the same unified console and infrastructure.

POINT-IN-TIME RECOVERY

In the event of a serious system failure, such as the breakdown of hardware, software, or operating systems, the Windows File System *i*DataAgent provides point-in-time recovery of files at any given time.

SYSTEM STATE

The Windows File System system state is made up of many components and services that are critical to recovery of the Windows operating system. The system state is backed up and restored as part of Windows File System *i*DataAgent backup and restore.

SNAPPROTECT BACKUP

SnapProtect[™] backup enables you to create a point-in-time snapshot of the data to be used for various data protection operations. SnapProtect backup works in conjunction with software and hardware snapshot engines to provide snapshot functionality for data protection operations.

OFFICE COMMUNICATIONS SERVER

The Office Communications Server is made up of data, settings, and metadata that are critical to data protection operations residing in both the File System and SQL databases. In order to fully protect the Office Communications Server, both the OCS data and settings and the OCS metadata have to be backed up.

BACKUP AND RECOVERY FAILOVERS

In the event that a MediaAgent used for the backup or recovery operation fails, it is automatically resumed on alternate MediaAgents. In such cases, the backup or restore job will not restart from the beginning, but will resume from the point of failure. This is especially useful for backups and restores of large

WHERE TO GO NEXT

Getting Started - Windows File System Walks you through the process of installing and configuring the Windows File System *i*DataAgent.



amount of file system data.

In the event, that a network goes down, the backup and recovery jobs are resumed on alternate data paths. Similarly, in the event of a device failure, the jobs are automatically switched to alternate disk and tape drives.

EFFICIENT JOB MANAGEMENT AND REPORTING

You can view and verify the status of the backup and recovery operations from the Job Controller and Event Viewer windows within the CommCell Console. You can also track the status of the jobs using reports, which can be saved and easily distributed. Reports can be generated for different aspects of data management. You also have the flexibility to customize the reports to display only the required data and save them to any specified location in different formats. For example, you can create a backup job summary report to view at-a-glance the completed backup jobs. In addition, you can also schedule these reports to be generated and send them on email without user intervention.

BLOCK LEVEL DEDUPLICATION

Deduplication provides a smarter way of storing data by identifying and eliminating the duplicate items in a data protection operation.

Deduplication at the data block level compares blocks of data against each other. If an object (file, database, etc.) contains blocks of data that are identical to each other, then block level deduplication eliminates storing the redundant data and reduces the size of the object in storage. This way dramatically reduces the backup data copies on both the disk and tapes.

ADD-ON COMPONENTS

SRM FOR WINDOWS FILE SYSTEM

SRM is integrated with Windows File System iDataAgent to provide several advanced reporting capabilities for your backups. When enabled, backup jobs collect details on the file systems currently being used or not used, the memory and hardware resources consumed, storage usage, and granular file-level analytics.

SRM Reports include detailed information on the state of your file system data, including free space, used space, file count, file sizes, directory structure, and many other useful statistics.

In addition, **SRM Summaries** provide a graphical, real-time representation of usage information such as memory and CPU utilization. Optional file-level analytics provides even more granular details at the file-level for optimizing your storage resources.

SRM integration with Windows File System /DataAgent can be easily enabled with your backups to take advantage of these features.

1-TOUCH

1-Touch recovery helps to recover a crashed system in the least amount of time. By automatically rebuilding the operating system, you can recover systems with defective components such as inaccessible volumes or crashed disks. You don't need to reinstall the individual software packages or operating systems manually.

ONEPASS AGENT

The OnePass Agent is an integrated File System agent which backs up and archives the qualified data. It reclaims backup storage space when files and stubs are deleted on the primary storage.

DESKTOP BROWSE

Desktop Browse enables users to browse and restore data from a Web Browser, which provides the facility to access and restore data from anywhere.

TERMINOLOGY

The Windows File System documentation uses the following terminology:

CLIENT	The computer in which the <i>i</i> DataAgent is installed and contains the data to be secured.
BACKUPSET	A group of subclients which includes all of the data backed up by the <i>i</i> DataAgent.
SUBCLIENT	The Windows file system data to be backed up.

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System Requirements - Microsoft Windows File System iDataAgent

System Requirements Supported Features

The following requirements are for the Microsoft Windows File System iDataAgent:

OPERATING SYSTEM

WINDOWS 8

Microsoft Windows Client 8 Microsoft Windows Client 8.1

See Considerations for Microsoft Windows Server 2012, 2012 R2, and Windows 8 for more information.

WINDOWS SERVER 2012

Microsoft Windows Server 2012 Editions Microsoft Windows Server 2012 R2 Editions

See Considerations for Microsoft Windows Server 2012, 2012 R2, and Windows 8 for more information.

WINDOWS 7

Microsoft Windows 7 32-bit and x64 Editions

WINDOWS SERVER 2008

Microsoft Windows Server 2008 Editions Microsoft Windows Server 2008 R2 Editions

WINDOWS VISTA Microsoft Windows Vista 32-bit and x64 Editions

WINDOWS SERVER 2003

Microsoft Windows Server 2003 32-bit and x64 Editions* with a minimum of Service Pack 1 * Special configuration considerations apply. See Installing 32-bit Components on a Microsoft Windows x64 Platform for more information.

WINDOWS XP

Microsoft Windows XP Home Editions with a minimum of Service Pack 3 Microsoft Windows XP Professional 32-bit and x64 Editions with a minimum of Service Pack 3

CLUSTER - SUPPORT

The software can be installed on a Cluster if clustering is supported by the above-mentioned operating systems.

For information on supported cluster types, see Clustering - Support.

HARD DRIVE

1.3 GB minimum of hard disk space for software/ 1.5 GB recommended

1 GB of additional hard disk space for log file growth

725 MB of temp space required for install or upgrade (where the temp folder resides)

MEMORY

32 MB RAM minimum required beyond the requirements of the operating system and running applications

PROCESSOR

All Windows-compatible processors supported

PERIPHERALS

DVD-ROM drive Network Interface Card

MISCELLANEOUS

NETWORK

 $\ensuremath{\mathsf{TCP}}\xspace$ /IP Services configured on the computer.

MICROSOFT VISUAL C++

Microsoft Visual C++ 2008 Redistributable Package is automatically installed. Note that Visual C++ 2008 Redistributable Package can co-exist with other versions of this software.

.NET FRAMEWORK

.NET Framework 2.0 is automatically installed. Note that .NET Framework 2.0 can co-exist with other versions of this software.

DISCLAIMER

Minor revisions and/or service packs that are released by application and operating system vendors are supported by our software but may not be individually listed in our System Requirements. We will provide information on any known caveat for the revisions and/or service packs. In some cases, these revisions and/or service packs affect the working of our software. Changes to the behavior of our software resulting from an application or operating system revision/service pack may be beyond our control. The older releases of our software may not support the platforms supported in the current release. However, we will make every effort to correct the behavior in the current or future releases when necessary. Please contact your Software Provider for any problem with a specific application or operating system.

Additional considerations regarding minimum requirements and End of Life policies from application and operating system vendors are also applicable

Getting Started - Windows File System Deployment

WHERE TO INSTALL

Install the software on a client computer that you want to protect and satisfies the minimum requirements specified in the System Requirements.

Follow the steps given below to install the Windows File System iDataAgent.

INSTALLATION

The software can be installed using one of the following methods:

METHOD 1: INTERACTIVE INSTALL

Use this procedure to directly install the software from the installation package or a network drive.

METHOD 2: INSTALL SOFTWARE FROM COMMCELL CONSOLE

Use this procedure to install remotely on a client computer.

METHOD 1: INTERACTIVE INSTALL

1. Run Setup.exe from the Software Installation Package.

Select the option to install software on this computer.

Select I accept the terms in the license agreement.

2. Select the required language.

Click Next.

3.

4.

Click Next.

BEFORE YOU BEGIN

Download Software Packages Download the latest software package to perform the install.

System Requirements

Verify that the computer in which you wish to install the software satisfies the System Requirements.

he required language.	
ext.	
	Select the language you will use during installation. (English (United States)
	Next >Cancel
ne option to install software on this computer.	
The options that appear on this screen depend on the computer in which the software is being installed.	
	 View documentation website View Install Quick. Start Guide (Requires Adobe Acrobat Reader) Install Adobe Acrobat Reader
	€ Exit
accept the terms in the license agreement.	
ext.	Instatuer License Agreement Please read the following License Agreement. Press the PAGE DDWN key to view the entire agreement.
	End User License and Limited Warranty Agreement Software Release 9.0.0 (including Microsoft@ SQL Server TM 2008 Enterprise Edition, SQL Server TM 2008 Express Edition and Windows Pre-Installation Environment)
	C I accept the terms in the license agreement. I do not accept the terms in the license agreement. Installer



- 5. Expand Client Modules | Backup & Recovery | File System and select Windows File System *i*DataAgent Click Next.
- staller Select Platforms Select the platforms you want to configure Common Technology Engine CommServe Modules CommCell Console CommCell Console CommCell Console CommCell Modules Comm Modules Comm Modules Comm Modules Common Modules ContinuousDataReplicator SM SM Tools ove the pointer over a atform name to see a escription of the platfo asons why it may be descripti reasons disabled Disk Space (Reg/Recommended) Installation Folder: 0 MB/ 0 MB Temporary on C: drive: 0 MB/ 0 MB Special Registry Keys In Use Installer Install Agents for Restore Only < Back Cancel Installer Setup will now install Microsoft .NET Framework for the selected platforms. ?) Click 'Yes' to continue. Choosing 'No' will exit the Setup. In such a case, you may resume Setup later at any time <u>Y</u>es <u>N</u>o Firewall Configuration Configure firewa If there is a firewall between this machine and the CommServe, configure firewall services below. Configure firewall services C This machine can open connection to CommServe on tunnel po Installer Next> Cancel CommServe Name Specify the CommServe computer name and host name CommServe Client Name CommServe Host Name (Enter a valid, fully-qualified, IP host name; for example: mycomputer.mycompany.com) mycomputer.mycompany.com Installer < Back Next > Cancel nstaller Communication Interface Name Setup will configure the communication paths Select a client name audi cn -Select an interface name that this computer will use to communicate with the CommServe audi mycompany com -IP Address(es) for the selected host Installer < Back Next > Cancel

- 6. Click **YES** to install Microsoft .NET Framework package.
 - This prompt is displayed only when Microsoft .NET Framework is not installed.
 - Once the Microsoft .NET Framework is installed, the software automatically installs the Microsoft Visual J# 2.0 and Visual C++ redistributable packages.
- 7. If this computer and the CommServe is separated by a firewall, select the **Configure firewall services** option and then click **Next**.

For firewall options and configuration instructions, see Firewall Configuration and continue with the installation.

If firewall configuration is not required, click **Next**.

8.	Enter the fully qualified domain name of the CommServe Host Name.
	Click Next.

Do not use space and the following characters when specifying a new name for the CommServe Host Name:

\|`~!@#\$%^&*()+=<>/?,[]{}:;'"

9. Click Next.

10. Select Add programs to the Windows Firewall Exclusion List, to add CommCell programs and services to the Windows Firewall Exclusion List.

Click Next.

This option enables CommCell operations across Windows firewall by adding CommCell programs and services to Windows firewall exclusion list.

It is recommended to select this option even if Windows firewall is disabled. This will allow the CommCell programs and services to function if the Windows firewall is enabled at a later time.

11. Verify the default location for software installation.

 $\label{eq:click} Click \ \textbf{Browse} \ to \ change \ the \ default \ location.$

Click Next.

- Do not install the software to a mapped network drive.
- Do not use the following characters when specifying the destination path:
 - /:*?"<>|#

It is recommended that you use alphanumeric characters only.

12. Select a Client Group from the list.

Click Next.

This screen will be displayed if Client Groups are configured in the CommCell Console.

13. Click Next.

14.	Click	Next.
14.	Click	Next

Installer	
Windows Firewall Exclu Allow programs to communica Firewall	ision List te through Windows
Windows Firewall is ON	
Add programs to the \	Windows Firewall Exclusion List
If you plan on using Wind exclusion list.	lows Firewall, it is recommended to add the software programs to the
Installer ——	< Back Next > Cancel
Installer	
Destination Folder Select the destination folder to	p install the program files.
Click Next to accept the del Destination Folder	ault location, or click Browse to choose an alternate location.
Drive List C: 928 MB	Space Required / Recommended 1394 MB / 1670 MB
Installer ——	<back next=""> Cancel</back>
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Quick Start - Windows File System iDataAgent

Select a **Storage Policy** from the drop-down list. Click **Next**.

Select the **Configure for Laptop or Desktop Backup** option to install **Backup Monitor** utility. This utility allows you to view the backup job summary from the client computer without opening the CommCell Console. See Monitor - Laptop User for more information.

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If you do not have Storage Policy created, this message will be displayed	Installer
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Click Next.	Storage Fone
You can create the Storage Policy later in step 19.	Select a storage backed up.
	T Conligur
	Installer

16. Click Next.

15.

17. Click Next.

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18. Click Finish.

19.



If you already have a storage policy selected in step 15, Click Next > button available at the bottom of the page to continue.

If you do not have Storage Policy created, continue with the following step.

- To create a storage policy, you must have configured a library in the CommCell.
- If you do not already have a library configured, go to Disk Library Creation.
- If you have a library configured, go to Storage Policy Creation.

DISK LIBRARY CREATION:

- 1. From the CommCell Console, click the **Backup Target** button on **EZ Operations Wizard**.
- 2. Click Disc Library (For backup to disc) and click Next.
- 3. Click Use Local Disk.

Type the name of the folder in which the disc library must be located in the **Enter backup destination folder** box or click the **Browse** button to select the folder.

Click Next.

If you click the **Use Network Share** option you will be prompted for the credentials (user name and password) to access the share.

- 4. Click Next.
- 5. Click Finish.

This will create a library and Storage Policy. Click the Next > button available at the bottom of the page to continue.

STORAGE POLICY CREATION:

- 1. From the CommCell Browser, navigate to Policies.
- 2. Right-click the Storage Policies and then click New Storage Policy.
- 3. Follow the prompts displayed in the Storage Policy Wizard. The required options are mentioned below:
 - Select the Storage Policy type as Data Protection and Archiving and click Next.
 - Enter the name in the Storage Policy Name box and click Next.
 - From the Library list, click the name of a disk library to which the primary copy should be associated and then click Next.

Ensure that you select a library attached to a MediaAgent operating in the



current release.

- From the **MediaAgent** list, click the name of a MediaAgent that will be used to create the primary copy and then click **Next**.
- $\circ\;$ For the device streams and the retention criteria information, click Next to accept default values.
- $\circ~$ Select Yes to enable deduplication for the primary copy.
- From the **MediaAgent** list, click the name of the MediaAgent that will be used to store the Deduplication store.

Type the name of the folder in which the deduplication database must be located in the Deduplication Store Location or click the Browse button to select the folder and then click **Next**.

 $\circ~$ Review the details and click Finish to create the Storage Policy.

This will create a storage policy. Click the Next \blacktriangleright button available at the bottom of the page to continue.

METHOD 2: INSTALL SOFTWARE FROM COMMCELL CONSOLE

1. From the CommCell Browser, select Tools | Add/Remove Software | Install Software.

2. Click Next.

Select Windows.
 Click Next.





5. Enter the fully qualified domain name of the client computer.
For example: apple.domain.company.com
Click Next.

6. Click Next.

 Specify UserName and Password that must be used to access the client computer. Click Next.

Installer
Select how to discover the computers for installing the software
Manually select computers
Software will be installed only on the selected list of computers.
 Automatically discover computers Computers will be discovered when the job runs.
< Back Next > Save As Script Finish Cancel Help
Installer
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Enter the nost names of the computers
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8. Select Windows File System *i*DataAgent. Click Next.

- 9.
- Select Client Group from Available and click Add.
 - Select a **Storage Policy** from the drop-down list. Click **Next**.

Select the **Configure for Laptop or Desktop Backup** option to install **Backup Monitor** utility. This utility allows you to view the backup job summary from the client computer without opening the CommCell Console. See Monitor - Laptop User for more information.

10. Click Next.

11. Select Immediate. Click Next.

12. Click Finish.

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- 13. You can track the progress of the job from the **Job Controller** or **Event Viewer** window.
- Once the job is complete, right-click the **CommServe** computer, click **View** and then 14. click Admin Job History.

Select Install/Upgrade/Remove Software. 15. Click OK.

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- You can view the following details about the job by right-clicking the job: 16.
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Getting Started - Windows File System *i*DataAgent Deployment on a Cluster

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SKIP THIS PAGE IF YOU ARE NOT INSTALLING THIS AGENT ON A CLUSTER.

Click Next > to continue with the deployment.

WHERE TO INSTALL

Install the software from the active node in the cluster group. Make sure the cluster group satisfies the minimum requirements specified in the System Requirements.

Follow the steps given below to install the Windows File System *i*DataAgent in a Clustered Environment.

BEFORE YOU BEGIN

Download Software Packages Download the latest software package to perform the install.

System Requirements

Verify the cluster group which you wish to install the software satisfies the System Requirements.

- 1. Run Setup.exe from the Software Installation Package.
- 2. Select the required language.

Click Next.

Select t	ne option t	o install	software	on this	computer.

The options that appear on this screen depend on the computer in which the software is being installed.

4.	Select I accept the terms in the license agreement.
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5. Select Configure a Virtual Server. Click Next. Select the disk group in which the cluster group resides. Click Next.

7. Expand Client Modules | Backup & Recovery | File System and select Windows File System *i*DataAgent Click Next.

 If this cluster group and the CommServe is separated by a firewall, select the Configure firewall services option and then click Next.

For firewall options and configuration instructions, see Firewall Configuration and continue with the installation.

If firewall configuration is not required, click **Next**.

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9. Enter the fully qualified domain name of the **CommServe Host Name**.

Click Next.

Do not use space and the following characters when specifying a new name for the CommServe Host Name:

\|`~!@#\$%^&*()+=<>/?,[]{}:;'"

The virtual machine is the name of the resource hosting the cluster

Verify the Virtual Machine name and click Next.

group.

11. Select the name of the Physical Machine from drop-down list. Click Next.

12. Select Add programs to the Windows Firewall Exclusion List, to add CommCell programs and services to the Windows Firewall Exclusion List.

Click Next.

10.

This option enables CommCell operations across Windows firewall by adding CommCell programs and services to Windows firewall exclusion list.

It is recommended to select this option even if Windows firewall is disabled. This will allow the CommCell programs and services to function if the Windows firewall is enabled at a later time.

- 13. Type or **Browse** to specify the software installation path which must be located on local disk of your physical machine and then click **Next**.
 - Do not install the software to a mapped network drive.
 - Do not use the following characters when specifying the destination path:

/:*?"<>|#

It is recommended that you use alphanumeric characters only.

Installer	
CommServe Nam Specify the CommSe name	e rve computer name and host
CommServe	s Client Name
CommServe (Enter a vai mycompute	e Host Name id, fully-qualified, IP host name; for example: r.mycompany.com)
mycomput	er. mycompany. com
Installer	
	<pre></pre>
Installer	
Communication I Setup will configure t	nterface Name he communication paths.
	Celent a client name
	audi on
	Select an interface name that this computer will use to communicate with the CommServe
	auf monormu con
	IP Address(es) for the selected host.
Installer	< Back Next > Cancel
Installer	
installer Communication I Setup will configure t	nterface Name he communication paths.
Installer Communication I Setup will configure t	nterface Name he communication paths.
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14. Verify the default location for Job Results Path. Click **Browse** to change the default location. Click **Next**.

15. Select a Client Group from the list.

Click Next.

This screen will be displayed if Client Groups are configured in the CommCell Console.

16. Click Next.

17	Click	Next.

Installer	X
Destination Folder	
Select the destination folder	to install the program files.
Click Next to accept the d	efault location, or click Browse to choose an alternate location.
Destination Folder	
C:\Program Files\	Browse
Drive List	Space Required / Recommended
C: 928 MB	▼ 1394 MB / 1670 MB
Installer	(Deels News) Convert
	Cancer
Installer	×
Job Results Path	red drive to store Jab
Results files for this client co	mputer.
Click Next to accept the	default location, or click Browse to choose an alternate location.
- Job Regults Path	
JOD HESUKS Fakh	
ogram Files\na3\iData	AgentWobResults Browse
Drive List	Space Required / Recommended
M: 15061 MB	50 MB / 50 MB
Installer	<back next=""> Cancel</back>
Installer	▲
Select a client group for the o	slient
The Ofensio	the located and the following of the
which have	the same associations at various levels like
Schedule Pr	sicy, Activity Control, Security and Reports.
Client	group:
None	Selected
	2) or th
Installer	
	< Back Next > Cancel
Installer	
Schedule Install of Aut	omatic Updates
Choose when you want to se	chedule an install of the
uownioaged updates.	
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Quick Start - Windows File System iDataAgent

18.

19.

20.

	Select Global Filter Options Select the Global Filter Options for the Agent.
	Global Fitters provides the ability to set exclusions within a CommCell to litter out data from dat protection operations on all agents of a certain type.
	 ✓ Use Cell level policy ✓ Always use Global Filters ✓ Do not use Global Filters
	Installer < Back Cance
Select a Storage Policy from the drop-down list and click Next.	Installer
Select the Configure for Laptop or Desktop Backup option to install Backup Monitor utility. This utility allows you to view the backup job summary from the client computer without opening the CommCell	Storage Policy Selection Select a storage policy for the default subclient to be backed up.
Console. See Monitor - Laptop User for more information.	Configure for Laptop or Desktop Backup
	Select a storage policy from the pull-down list.
	Installer < Back Cance
If you do not have Storage Policy created, this message will be displayed.	Installer Storage Policy Selection
Click OK .	Select a storage policy for the default subclient to be backed up.
You can create the Storage Policy later in step 27.	
	Installer < Back Newt > Cance
Click Next.	Installer Summary Summary of install selections
	Setup has enough information to start copying the program files. If you are satisfied with th install settings, click Next to begin copying files.
	Destination Path = C:\Program Files\ CommServe Host = mycomputer.mycompany.com Interface Name = audi.mycompany.com Client = audi = 20.\Program Files\UddResults Global Filers = Use Cell level policy Installer Association = 2000 Installer Cancel
To install the software on the remaining nodes of the cluster, click Yes .	Installer
To complete the install for this node only, click ${f No}.$	Would you like to install the software on remaining nodes on the cluster?
	Yes No

Installer

Select cluster nodes from the $\ensuremath{\textbf{Preferred}}\xspace$ Nodes list and click the arrow button to 21. move them to the Selected Nodes list.

Once you complete your selections, click Next.

- The list of **Preferred Nodes** displays all the nodes found in the cluster; from this list you should only select cluster nodes configured to host this cluster group server.
- Do not select nodes that already have multiple instances installed.



Click Next.

23. The progress of the remote install for the cluster nodes is displayed; the install can be interrupted if necessary.

Click **Stop** to prevent installation to any nodes after the current ones complete.

Click Advanced Settings to specify any of the following:

- Maximum number of nodes on which Setup can run simultaneously.
- Time allocated for Setup to begin executing on each node, after which the install attempt will fail.
- Time allocated for Setup to complete on each node, after which the install attempt will fail.

If, during the remote install of a cluster node, setup fails to complete or is interrupted, you must perform a local install on that node. When you do, the install begins from where it left off, or from the beginning if necessary. For procedures, see Manually Installing the Software on a Passive Node.

24. Read the summary for remote installation to verify that all selected nodes were installed successfully.

Click Next.

- If any node installation fails, you must manually install the software on that node once the current installation is complete. See Manually Installing the Software on a Passive Node for step-by-step instructions.
- The message displayed on your screen will reflect the status of the selected nodes, and may look different from the example.

Install	er Node Selection
Selec	t duster nodes to configure
- Prefem	ed Nodes stee2
	<u>N</u> ext > Cancel
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Doma	ain administrator account information
Plea	se provide domain administrator account
_	Domain Account Information
	Account Password:
	A Back Next Cancel
Install	
You prog	can stop remote install at any time. Installed clients will not be uninstalled. Clients in ress will continue installation, but their results will not show correctly.
Clie rea	ent Name Client Status Stat Time End Time Result Description 2 alled successfully 0 Left to install 1
Clik rea Insta	ent Name Client Status Start Time End Time Result Description 2 alled successfully: 0 Left to instalt 1 Max 1 1
Clie rea Insta Faile	ent Name Client Status Start Time End Time Result Description 2 alled successfully: 0 Left to instalt 1 Max 1 1 sed time: 0 sec Estimated time left: 10 min 0 sec
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Clie rea Insta Elap Ac	ent Name Client Status Start Time End Time Result Description 2 alled successfully: 0 Left to install: 1 model of uncessfully: 0 Left to install: 1 model time left: 10 min 0 sec Installer isvanced Settings r
Clie rea Installe	ent Name Client Status Start Time End Time Result Description 2 alled successfully: 0 Left to instalt 1 model on stalt 0 Left to instalt 1 Max 1 1 sed time: 0 sec Estimated time left: 10 min 0 sec Installer tr Number of simultaneous remote machines to run Setup: 10 model machines 1 model machine
Chi rea Installe	ent Name Client Status Start Time End Time Result Description 2
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Installe Resu Sun The Resu	ent Name Client Status Statt Time End Time Result Description 2 alled successfully: 0 Left to install: 1 alled successfully: 0 Left to install: 1 Max 1 alled successfully: 0 Left to install: 1 Max 1

26. Click Finish.

27.



If you already have a storage policy selected in step 18, Click Next > button available at the bottom of the page to proceed to the **Configuration** section.

If you do not have Storage Policy created, continue with the following step.

- To create a storage policy, you must have configured a library in the CommCell.
 - If you do not already have a library configured, go to Disk Library Creation.
 - If you have a library configured, go to Storage Policy Creation.

DISK LIBRARY CREATION:

- 1. From the CommCell Console, click the **Backup Target** button on **EZ Operations Wizard**.
- 2. Click Disc Library (For backup to disc) and click Next.
- 3. Click Use Local Disk.

Type the name of the folder in which the disc library must be located in the **Enter backup destination folder** box or click the **Browse** button to select the folder.

Click Next.

If you click the **Use Network Share** option you will be prompted for the credentials (user name and password) to access the share.

- 4. Click Next.
- 5. Click Finish.

This will create a library and Storage Policy. Click the Next > button available at the bottom of the page to continue.

STORAGE POLICY CREATION:

- 1. From the CommCell Browser, navigate to Policies.
- 2. Right-click the Storage Policies and then click New Storage Policy.
- 3. Follow the prompts displayed in the Storage Policy Wizard. The required options are mentioned below:
 - Select the Storage Policy type as Data Protection and Archiving and click Next.
 - Enter the name in the Storage Policy Name box and click Next.
 - From the Library list, click the name of a disk library to which the primary copy should be associated and then click Next.

Ensure that you select a library attached to a MediaAgent operating in the



current release.

- From the MediaAgent list, click the name of a MediaAgent that will be used to create the primary copy and then click Next.
- $\circ\;$ For the device streams and the retention criteria information, click Next to accept default values.
- $\circ~$ Select Yes to enable deduplication for the primary copy.
- From the **MediaAgent** list, click the name of the MediaAgent that will be used to store the Deduplication store.

Type the name of the folder in which the deduplication database must be located in the Deduplication Store Location or click the Browse button to select the folder and then click ${\bf Next}.$

 $\circ\;$ Review the details and click Finish to create the Storage Policy.



Getting Started - Windows File System iDataAgent Deployment On A Non-Microsoft Cluster

Previous Next >

SKIP THIS PAGE IF YOU ARE NOT INSTALLING THIS AGENT ON A NON-MICROSOFT CLUSTER.

Click Next > to begin Configuration.

INSTALLATION

The software can be installed in one of the following Non-Microsoft Clustered environments:

INSTALL WINDOWS FILE SYSTEM IDATAAGENT IN VERITAS CLUSTER ENVIRONMENT

Use this procedure to install the software from the installation package or a network Firewall drive on a VERITAS Cluster environment.

INSTALL WINDOWS FILE SYSTEM IDATAAGENT IN HP SCALABLE NAS/POLYSERVE CLUSTER ENVIRONMENT

Use this procedure to install the software from the installation package or a network drive on a NAS/Polyserve Clustered environment.

INSTALL WINDOWS FILE SYSTEM IDATAAGENT IN VERITAS CLUSTER ENVIRONMENT

WHERE TO INSTALL

Install the software in a VERITAS Clustered Environment, by locating the active node that is hosting the cluster resources and perform the installation from this node to the virtual node.

Follow the steps given below to install the Windows File System iDataAgent in a VERITAS Clustered environment

1. Create bIgnoreClusterVMCheck registry key to detect that the agent is being installed on a virtual node in a non-Microsoft cluster.

RELATED TOPICS

Download Software Packages Download the latest software package to perform the install.

System Requirements Verify that the computer in which you wish to install the software satisfies the System Requirements.

Provides comprehensive information on firewall.

To create the registry key, see the following steps:

- 1. Start the Registry Editor (Regedit.exe or Redegt32.exe)
- Locate the directory under which you want to create a 2. key, e.g., HKEY LOCAL MACHINE\SOFTWARE\
- 3. Right click the **SOFTWARE** and click **New** -> **Key**.
- Name the key as GalaxyInstallerFlags.
- 5. Right click the GalaxyInstallerFlags and select New -> DWORD value, name it as bIgnoreClusterVMCheck and by double clicking the ${\tt bIgnoreClusterVMCheck}\ key$ modify the Value data to 1.

- 2. Run Setup.exe from the Software Installation Package.
- 3. Select the required language. Click Next.

Select the language you will use during installation.		
	<u>N</u> ext >	Cancel

Select the option to install software on this computer. 4.

> The options that appear on this screen depend on the computer in which the software is being installed.

5. Select I accept the terms in the license agreement. Click Next.

6. Select Configure a Virtual Server. Click Next.

- 7. In the **disk groups** box, specify the host name of the Virtual Host created for backup, e.g., VirtualVeritasServe.
 - In the **Communication Interface Name** box, specify the fully qualified domain name of the Virtual Host, e.g., VirtualVeritasServe.acme.com.
 - Click Next.

≓ Install Software on this computer ≓ Advanced options
 View documentation website View Install Quick Start Guide (Requires Adobe Acrobat Reader) Install Adobe Acrobat Reader Ext.
Installer License Agreement Please read the following License Agreement. Press the PAGE DOWN key to view the entire agreement.
End User License and Limited Warranty Agreement
Software Release 9.0.0
(including Microsoft® SQL Server [™] 2008 Enterprise Edition, SQL Server [™] 2008 Express Edition and Windows Pre-Installation Environment)
I accept the terms in the license agreement.
C I do not accept the terms in the license agreement.
Installer
< Back Next > Cancel
Cluster Type Selection Configure the Physical Node or a Virtual Server
Configuration Options C Configure the <u>Physical node</u> C Configure a ⊻ritual server
Cancel
Virtual Server Selection Select the virtual server for which you would like to run setup
Choose from the following list of disk groups configured on this cluster.
(Back Next) Cannel
Caricon Caricon

8. Specify the hosts node in the **Preferred Nodes** and click **Add** to add in the Nodes on which **Virtual Group is configured to run**.

Specify the name of active node in **Current Owner Node** box.

Click Next.

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	Is node vrscluster1 current owner of virtual machine SQLDisk.
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	Select Platforms
	Select the platforms you want to configure.
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	Cient Modules Disk Space
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9. Click **Yes** if it is the Active node.

NOTES

- If you click **No** the program will perform the passive install. Follow the steps described in Manually Installing the Software on a Passive Node.
- This screen may look different from the example shown.

10. Expand Client Modules | Backup & Recovery | File System and select Windows File System *i*DataAgent

Click Next.

11. If this computer and the CommServe is separated by a firewall, select the **Configure** firewall services option and then click **Next**.

For firewall options and configuration instructions, see Firewall Configuration and continue with the installation.

If firewall configuration is not required, click Next.

12. Enter the fully qualified domain name of the CommServe Host Name. Click Next.

Do not use space and the following characters when specifying a new name for the CommServe Host Name:

\|`~!@#\$%^&*()+=<>/?,[]{}:;'"

Click Next.

13.

		Installer
		Communication Interface Name Setup will configure the communication paths.
		Select a client name
		Select an interface name that this computer will use to communicate with the CommServe
		audi mycompany.com
		Installer <back next=""> Cancel</back>
14.	Select Add programs to the Windows Firewall Exclusion List, to add CommCell programs and services to the Windows Firewall Exclusion List.	Installer Windows Firewall Exclusion List
	Click Next.	Allow programs to communicate through Windows Firewall
	This option enables CommCell operations across Windows firewall by adding CommCell programs and services to Windows firewall exclusion list.	Windows Firewall is ON
	It is recommended to select this option even if Windows firewall is disabled. This will allow the CommCell programs and services to function if the Windows firewall is enabled at a later time.	If you plan on using Windows Firewall, it is recommended to add the software programs to the exclusion list.
		Installer <back next=""> Cancel</back>
16	Varify the default location for coffware installation	
15.		Installer Destination Folder
		Select the destination folder to install the program files.
	Click Next.	
	 Do not install the software to a mapped network drive. Do not use the following characters when specifying the destination path: 	Click Next to accept the default location, or click Browse to choose an alternate location.
	/:*?"<> #	Browse
	It is recommended that you use alphanumeric characters only.	Drive List C: 328 MB Space Required / Recommended 1394 MB / 1670 MB
		Installer Cancel
16.	Select a Client Group from the list.	Installer
	Click Next .	Client Group Selection
	This screen will be displayed if Client Groups are configured in the CommCell Console.	Select a Laterix group for the Lateric. The Client Group is a logical grouping of client machines which have the same associations at various levels like
		Schedule Policy, Activity Control, Security and Reports.
		Client group: None Selected client_group
		Installer Cancel
17.	Click Next.	

X

X

18. Click Next.

19. Select a Storage Policy from the drop-down list. Click Next.

20. Click Next.

21. Click **OK** and manually configure the cluster resources.

See Configuring the VERITAS Cluster Resources for more information on configuring the cluster resources.

Schedule Ins	tall of Automatic Updates
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	Use Cell level policy
	C Always use Global Filters
	C Do not use Global Filters
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22. Click Next.

23. Click Finish.

25.

26.

Schedule Reminder lob schedule creation reminde Please note: You still need to create a Job Schedule for each iDataAgent that has been installed on this client computer Job Schedules are required to allow the iDataAgents to perform automated backup and restore operations Job Schedule creation can be accomplished through the CommCell Console administration interface Installer <u>N</u>ext> Completion Report Software installation completed successfully . Visit the website below to download latest Updates and Service Packs Click Finish to complete Setup. Installer Technical Support Website Finish

CONFIGURING VERITAS CLUSTER RESOURCES

In case of VERITAS Cluster you must manually install the software on all the available Nodes. For installs on the VERITAS Cluster, complete the following procedures for the agent. These procedures can be completed using the VERITAS Cluster Administrator.

CREATE THE CLUSTER RESOURCES FOR SERVICES

Create Service Dependencies

Associate Services with the Current Active Node

24. Once the physical nodes and the virtual machine are installed, services should be added as generic services.

Also, you may want to designate the services as "critical" if you want to cause the virtual machine to fail over if the associated service stops.

 In Windows Services, locate the services for each installed cluster (e.g., Bull Calypso Cluster Plugin (penodevn1_netwo) (instance001)) right-click and select Properties, and locate the service name in the General tab (e.g., GxClusPlugin (penodevn1_netwo) (Instance001))

> The service name is case- and spacesensitive, so record it exactly as it appears.

- In Cluster Administrator, navigate to the appropriate Cluster group. Create a generic service resource for the cluster plugin service.
- If you want an automatic failover to occur, mark the resource as **Critical** and **Enabled**.
- Repeat this procedure for each client installed on the cluster.
- In Cluster Administrator, click Resources.
- Click **Link** and make the Cluster plugin resource dependent upon the Mount resource and the **Lanman** service.
- In Cluster Administrator, navigate to the appropriate **GenericService** group.
- Right-click the cluster plugin resource.
- From the short-cut menu, click **Online** and the name of the current active node.

INSTALL WINDOWS FILE SYSTEM IDATAAGENT IN HP SCALABLE NAS/POLYSERVE CLUSTER ENVIRONMENT

Page 29 of 44

WHERE TO INSTALL

Install the software in HP Scalable NAS/Polyserve Cluster environment from the active host to virtual server.

The software must be installed on each passive node available to the virtual host. During install, you will be asked to provide the name of the active host for each passive host installation. See Manually Installing the Software on a Passive Node for step-by-step instructions.

Follow the steps given below to install the Windows File System iDataAgent in a HP Scalalable NAS/Polyserve Clustered environment:

1. Create bIgnoreClusterVMCheck registry key to detect that the agent is being installed on a virtual node in a non-Microsoft cluster.

To create the registry key, see the following steps:

- 1. Start the Registry Editor (Regedit.exe or Redegt32.exe)
- Locate the directory under which you want to create a key, e.g., HKEY_LOCAL_MACHINE\SOFTWARE\.
- 3. Right click the **SOFTWARE** and click **New** -> **Key**.
- 4. Name the key as GalaxyInstallerFlags.
- Right click the GalaxyInstallerFlags and select New -> DWORD value, name it as bIgnoreClusterVMCheck and by double clicking the bIgnoreClusterVMCheck key modify the Value data to 1.
- In the PolyServe Matrix Server, create a virtual host resource name that has an assigned TCP/IP address in the network.
 - Provide a virtual host name (e.g., VirtualPolyServe.acme.com) and an Application name (e.g., VirtualPolyServe).
 - Select all network Interfaces that will be available as hosts for the backup software services and click **OK**.
- **3.** From the Virtual Hosts tab in the PolyServe Matrix Server dialog box, locate the primary node for the virtual server you are installing, and perform the installation from the active (primary) host to the virtual server.
- 4. Run Setup.exe from the Software Installation Package.
- 5. Select the required language.

Click Next.

Select the language you will use during installation.	
<u>N</u> ext >	Cancel
 Install Software on this computer Advanced options 	
 View documentation website View Install Quick Start Guide (Requires Adobe Acrobet Reader) Install Adobe Acrobet Reader 	
	⊜ Exit

6. Select the option to install software on this computer.

The options that appear on this screen depend on the computer in which the software is being installed.

7. Select I accept the terms in the license agreement. Click Next. 8. Select Configure a Virtual Server. Click Next.

- 9. In the **disk groups** box, specify the host name of the Virtual Host created for backup, e.g., VirtualVeritasServe.
 - In the **Communication Interface Name** box, specify the fully qualified domain name of the Virtual Host, e.g., VirtualVeritasServe.acme.com.
 - Click Next.

10. Specify the hosts node in the **Preferred Nodes** and click **Add** to add in the Nodes on which **Virtual Group is configured to run**.

Specify the name of active node in **Current Owner Node** box. Click **Next**.

11. Click **Yes** if it is the Active node.

- If you click **No** the program will perform the passive install. Follow the steps described in Manually Installing the Software on a Passive Node.
- This screen may look different from the example shown.
- 12. Expand Client Modules | Backup & Recovery | File System and select Windows File System *i*DataAgent

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	3
End Us	er License and Limited Warranty Agreement
	Software Release 9.0.0
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2008 Exp	ress Edition and Windows Pre-Installation Environment)
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	Chaose from the following list of disk groups
	configured on this cluster.
	Communication Interface Name:
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<u>Y</u>es

<u>N</u>o

Quick Start - Windows File System iDataAgent

Click Next.

13. If this computer and the CommServe is separated by a firewall, select the **Configure** firewall services option and then click **Next**.

For firewall options and configuration instructions, see Firewall Configuration and continue with the installation.

If firewall configuration is not required, click **Next**.

14.	Enter the fully qualified domain name of the $\ensuremath{\textbf{CommServe Host Name}}.$
	Click Next.

Do not use space and the following characters when specifying a new name for the CommServe Host Name:

\|`~!@#\$%^&*()+=<>/?,[]{}:;'"

15. Click Next.

NOTES

• The client name should be equivalent to the vhost name and the interface name equals the vhosts fully qualified domain name.

Select I	Platforms					
Select t	he platforms yo	u want to configu	re.			
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16. Select Add programs to the Windows Firewall Exclusion List, to add CommCell programs and services to the Windows Firewall Exclusion List.

Click Next.

This option enables CommCell operations across Windows firewall by adding CommCell programs and services to Windows firewall exclusion list.

It is recommended to select this option even if Windows firewall is disabled. This will allow the CommCell programs and services to function if the Windows firewall is enabled at a later time.

	Installer
	Windows Firewall Exclusion List Allow programs to communicate through Windows Firewall
	Windows Firewall is ON
	Add programs to the Windows Firewall Exclusion List
	If you plan on using Windows Firewall, it is recommended to add the software programs to the exclusion list.
	Installer Cancel
Verify the default location for software installation.	Installer
Click Browse to change the default location. Click Next .	Destination Folder Select the destination folder to install the program files.
 Do not install the software to a mapped network drive. Do not use the following characters when specifying the destination path: : * ? " < > # It is recommended that you use alphanumeric characters only. 	Click Next to accept the default location, or click Browse to choose an alternate location. Destination Folder Image: Space Required / Recommended Image: Space Required / Recommended Image: Space Required / Next > Installer Reak Next >
Select a Client Group from the list.	Installer
Click Next.	Clinate foroup Selection
This screen will be displayed if Client Groups are configured in the CommCell Console.	Select a client group for the client. The Client Group is a logical grouping of client machines
	which have the same associations at various levels like Schedule Policy, Activity Control, Security and Reports.
	Client group:
	None Selected client_group
	Installer Cancel
Click Next.	Installer
	Schedule Install of Automatic Updates Choose when you want to schedule an install of the downloaded updates.
	✓ Schedule Install of Automatic Updates Once ✓ Weekly ✓ Weekly ✓ Monday ✓ Tuesday ✓ Vednesday ✓ Friday ✓ Saturday ✓ Installer

Click Next. 20.

17.

18.

19.

Cancel

< Back Next >

X

21. Select a Storage Policy from the drop-down list. Click Next.

22. Click Next.

23. Click **OK** and manually configure the cluster resources.

See Configuring the HP Scalable NAS/Polyserve Cluster Resources for more information on configuring the cluster resources.

24. Click Next.

Installer
Select Global Filter Options
Seleci ule ciludal filler uplions foi me Agent.
Global Filters provides the ability to set exclusions within a CommCell to filter out data from data protection operations on all agents of a certain type.
 Lise Call level policy.
 Always use Global Filters
C Do not use Global Filters
Installer
Installer 🔀
Storage Policy Selection
Select a storage policy for the default subclient to be backed up.
Configure for Laptop or Desktop Backup
Select a storage policy from the pull-forum list
Subor a surage pulloy noni trie pullouwi liist.
Unassigned 🔽
Installer
Installer 🛛 🔀
Summary Summary of install selections
Setup has enough information to start copying the program files. If you are satisfied with the install activities which Mart to begin acquire files.
instali soturigs, cilck reak to begin copying nes.
Destination Path = C:\Program Files\
CommServe Host = mycomputer.mycompany.com Interface Name = audi.mycompany.com
Client =audi Job Results Path = C:\Program Files\JobResults
Global Filters = Use Cell level policy
< ► ►
instailer < Back Cancel
Testelles
To complete the install configure software cluster resources manually. Please follow the ouidefines in the
documentation.
04
UK
Installer 🔀
Schedule Reminder Job schedule creation reminder
Please note:
You still need to create a Job Schedule for each iDataAgent that has been installed on
uns cient computer.
Job Schedules are required to allow the iDataAgents to perform automated backup and restore operations.
Job Schedule creation can be accommished through the CommCell Console
administration interface.
Installer

nstaller	
Completion Report	
Seruh complete	
Software installation completed successfully.	<u> </u>
Visit the website below to download latest Updates and Service Packs.	
Click Finish to complete Setup.	
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Installer	
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CONFIGURING HP SCALABLE NAS/POLYSERVE CLUSTER RESOURCES

For installs on the HP Scalable NAS/PolyServe Cluster, complete the following procedures for the agent.

26. Create and Use Scripts to Administer Virtual Machine Services.

You should create and use three scripts to administer virtual machine services:

- Probe script is used to reveal the state of the specified services. This is done using the GxSCMCmd.exe utility.
- Start script is used to start services.
- Stop script is used to stop services.

Create a probe script to have the status of both the Bull Calypso Communications Service (GxCVD) and the Bull Calypso Event Manager Service (GxEvMgrC) checked. In the probe script, include the GxSCMCmd.exe utility by name in the appropriate command. (This utility is available from the Resource Pack. See Tools and Utilities for more information.) Create a folder (e.g., m:\GxSCMCmd) on a shared disk that the virtual host you created has access to. Copy the GxSCMCmd.exe utility and the script files you created (probe.bat, start.bat, stop.bat) to this folder. The utility will return the state of the specified services: '0' if the services are running or '1' if services are stopped. For an error condition, '-1' is returned. Note that the service name includes the name of the client and the name of the instance. To avoid error in providing the vhost name and instance name in the path of scripts, copy the key name from here:

HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\GXClusPlugIn
(vhostname) (Instance00x)

These examples provide sample script names, locations and virtual host name as suggested names not requirements.

The command syntax is:

GxSCMCmd.exe -IsRunning <list of service name>

For example, your probe script (e.g., m:\GxSCMCmd\gxprobe.bat) may appear as follows:

@echo off

if'%MX_ACTIVE_STATE%'='INACTIVE' exit 0

m:\GxSCMCmd\GxSCMCmd.exe -IsRunning "GxClusPlugIn (virtualpolyserve)
(Instance001)"

if ERRORLEVEL 0 exit 0

exit 1

Be sure to copy the GxSCMCmd.exe utility to the shared disk resource. Also, be sure to include the probe script on the shared disk.

The stop and start scripts must also contain the registry entry for the virtual machine service names. Your start script (e.g., <code>m:\GxSCMCmd\gxstart.bat</code>) may appear as follows:

@echo off

C:\WINDOWS\system32\net.exe start "GxClusPlugIn (virtualpolyserve) (Instance001)"

exit 0

Your stop script (e.g., m:\GxSCMCmd\gxstart.bat) may appear as follows:

@echo off

C:\WINDOWS\system32\net.exe stop GxClusPlugIn (virtualpolyserve)

27. Add the Customer Service Monitor

(Instance001)

exit 0

Add the custom service monitor to the virtual host configuration in the PolyServe Matrix Server console.

- 1. Ensure that the virtual host name <virtualpolyserve> is online.
- From the Services MMC snap-in, verify or manually start the cluster plugin service, "Bull Calypso Cluster Plugin (virtualpolyserve) (Instance00x)", on the active primary node for the Vhost virtualpolyserve
- 3. From the PolyServe Matrix Server, click the Virtual Hosts tab.
- Right click Virtual Host <virtualpolyserve> and then Add Service Monitor.
- 5. For the **Monitor Type** field in the Add Service Monitor dialog box, click **CUSTOM**.
- 6. Assign a name to the service monitor by typing the name in the **Name** field.
- 7. In the **User probe script** field, type the path to the probe script that calls the GxSCMCmd.exe command (on the share disk)
- 8. Click Advanced.
- From the Advanced Service Configuration dialog box, click the Scripts tab.
- In the Script pathname: Start field, type the path to the start script (shared disk). In the corresponding Timeout (seconds) field, type a timeout value greater than 60 seconds.
- In the Script pathname: Stop field, type the path to the stop script (shared disk). In the corresponding Timeout (seconds) field, type a timeout value greater than 60 seconds.
- 12. Click **OK** once, then again.

The monitor should now start, and the primary node should now be active. Failover will occur if services are disabled on the primary node, and services in such a case will move to a secondary node.

Previous (Next >)

Getting Started - Windows File System Configuration

< Previous Next >

CONFIGURATION

1.

з.

Once installed, follow the steps given below to assign a storage policy with the default subclient:

- From the CommCell Browser, navigate to Client Computers | <Client> | File System | defaultBackupSet.
 - Right-click the default subclient and then click Properties.
- Click the **Storage Device** tab.
 - In the **Storage Policy** box, select a Storage Policy name.
 - Click OK.

Click Next > to continue.

If you do not have Storage Policy created, follow the step given below to create a storage policy.

CommCel Browser
A cerrenty Construction of the system of the syst
Subclient Properties of default
Activity Control Encryption Open Files Failure Actions General Content Filters Pre/Post Process Security Storage Device Data Storage Policy Data Transfer Option Deduplication Storage Policy: Diski Lorary (superway)_(1) Data Paths Incremental Storage Policy: N/A Data Paths Create Storage Policy
OK Cancel Help
Solution Drayerline at Advail Monto Control Technology Book Solution Drayerline Solution Drayerline

OK Cancel

1. Click Create Storage Policy.

- 2. Follow the prompts displayed in the Storage Policy Wizard. The required options are mentioned below:
 - Select the Storage Policy type as Data Protection and Archiving and click Next.
 - Enter the name in the Storage Policy Name box and click Next.
 - From the **Library** list, click the name of a disk library to which the primary copy should be associated and then click **Next**.

Ensure that you select a library attached to a MediaAgent operating in the current release.

- From the MediaAgent list, click the name of a MediaAgent that will be used to create the primary copy and then click Next.
- $\circ\;$ For the device streams and the retention criteria information, click Next to accept default values.
- $\circ~$ Select Yes to enable deduplication for the primary copy.
- From the **MediaAgent** list, click the name of the MediaAgent that will be used to store the Deduplication store.

Type the name of the folder in which the deduplication database must be located in the Deduplication Store Location or click the Browse button to select the folder and then click **Next**.

 $\circ~$ Review the details and click Finish to create the Storage Policy.



Getting Started - Windows File System Backup

< Previous) Next >

PERFORM A BACKUP

Once the storage policy is configured, you are ready to perform your first backup.

WHAT GETS BACKED UP COMPONENT WHAT GETS BACKED UP File System File Allocation Table (FAT) file systems New Technology File Systems (NTFS) Transactional File Systems Distributed File System (DFS) data File System Elements Universal Naming Convention (UNC) Paths Mount Points Encrypted files Compressed Data Shared Volumes Share with Macintosh data Single Instance Storage Remote Storage Service System State System File Protection catalog and files Performance monitor configuration files Active Directory Registry Quotas SYSVOL (if this is a domain controller) Certificate Services database (if this is a certificate server) Cluster database (if this server is part of a cluster) COM+ database Terminal Server Licensing database RSM database WMI database DHCP WINS IIS UDDI (only with Windows Server 2003 using VSS) Disk quota information Event logs Content Indexing catalogs Network Policy Server (NPS) 1-Touch Component Office Communication Server (OCS) OCS Data OCS Settings

WHAT DOES NOT GET BACKED UP

COMPONENT	WHAT DOES NOT GET BACKED UP
File System	Locked Files - Files that are locked by applications or system programs while they are in use.
Office Communication Server (OCS)	OCS Metadata - Use SQL Server iDataAgent to backup the OCS Metadata.
Resilient File System (ReFS) on Windows Server 2012	Change Journal and Data Classification scan methods are not supported on Resilient File System (ReFS) volumes - Use the classic scan to backup the data.
System State	Offline files will not get backed up if the client computer has UEFI.

Web Server on Windows Server 2012

Data from the Web Server will not get backed up.

The following section provides step-by-step instructions for performing your first backup:

- 1. From the CommCell Browser, navigate to Client Computers | <*Client*> | File System | defaultBackupSet.
 - Right-click the default subclient and click Backup.
 - Click Full as backup type and then click Immediate.
 - Click OK.

2.

- **3.** You can track the progress of the job from the **Job Controller** window of the CommCell console.
- 4. Once the job is complete, view the job details from the **Backup History**. Right-click the **Subclient** and select **Backup History**.

5. Click OK.

- 6. You can view the following details about the job by right-clicking the job:
 - Items that failed during the job
 - Items that succeeded during the job
 - Details of the job
 - Events of the job
 - Log files of the job
 - Media associated with the job





Getting Started - Windows File System Restore

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PERFORM A RESTORE

It is recommended that you perform a restore operation immediately after your first full backup to understand the process. The following section explains how restore the **Temp** folder to a new location.

- 1. From the CommCell Browser, navigate to Client Computers | <Client> | File System | defaultBackupSet
 - Right-click the default subclient and then click **Browse Backup Data**.
- 2. Click OK.

Expand the defaultBackupSet and navigate to Windows folder.
Select the Temp folder.

For the first restore job, select any folder with smaller data size.

- Click Recover All Selected.
- 4.
- Clear the Overwrite Files and Restore to same folder options.
 - Specify the destination path by clicking **Browse** button.

This will ensure that the existing files are not overwritten.

• Click OK.

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- Click the Job Initiation tab.
- Select Immediate to run the job immediately.
- Click OK.

- 6. You can monitor the progress of the restore job in the Job Controller window of the CommCell Console.
- Once the restore job has completed, right-click the $\ensuremath{\textbf{defaultBackupSet}}$, point to 7. View and then click Restore History.

8. Click OK.

- 9. You can view the following details about the job by right-clicking the job:
 - View Restore Items
 - You can view them as Successful, Failed, Skipped or All.
 - View Job Details
 - View Events of the restore job.
 - View Log files of the restore job
- 10. Once the File System is restored, verify that the restored files/folders are available in the restore destination provided during step 4.

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CONGRATULATIONS - YOU HAVE SUCCESSFULLY COMPLETED YOUR FIRST BACKUP AND RESTORE.

If you want to further explore this Agent's features read the **Advanced** sections of this documentation.

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Quick Start - Windows File System iDataAgent