Quick Start Guide - SQL Server *i*DataAgent

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Overview - SQL Server iDataAgent

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Introduction

Key Features

Full Range of Backup Options Advanced SQL Server Restore Capabilities Efficient Job Management and Reporting Backup and Recovery Failovers Block Level Deduplication SnapProtect Backup

Terminology

INTRODUCTION

The Microsoft SQL Server iDataAgent provides a simplified end-to-end backup and recovery solution for SQL data in your enterprise. The product can be used to perform both full system rebuilds and granular recovery of the data.

KEY FEATURES

FULL RANGE OF BACKUP OPTIONS

The SQL *i*DataAgent provides the flexibility to backup the SQL database from different environments. You can perform a full or incremental backup of the entire instance, individual databases or files and file groups, and the transaction logs at any point of time as described below:

DATABASE BACKUPS

You can backup both the system and user-defined databases. You can comprehensively backup all the databases in an instance or schedule backups for the individual databases. You can also auto-discover new databases to comprehensively manage the backup of all databases in your environment.

TRANSACTION LOG BACKUPS

Transaction log backups captures the transaction log whether the transaction was committed or not. The use of transaction log backups make point in time recovery possible. You can restore to any point in time within the transaction log.

FILE AND FILE GROUPS BACKUPS

Files or file group backups allows you to backup individual files or file groups. This functionality can be critically important, especially for

large databases. Whereas a full database backup captures all files of a given database, file and file group backups allow you to back up selected portions of a database individually. As with database backups, the system provides the option of performing full, differential, and transaction log backups of file and file groups. Note that when running a transaction log backup for a File/File Group subclient, the database log is automatically backed up.

ADVANCED SQL SERVER RESTORE CAPABILITIES

The SQL *i*DataAgent provides the ability to recover databases or entire SQL instance. There is no mounting, no recovery wizards, no extra steps needed – the software takes care of it all. This includes the following abilities:

- Full or Partial Restore databases
- Restore and replay transaction logs
- Set Database state during restore (Recovery, Standby, No Recovery)
- Point-in-time recovery

EFFICIENT JOB MANAGEMENT AND REPORTING

You can view and verify the status of SQL backup and recovery operations from the Job Controller and Event Viewer windows within the CommCell Console.

WHERE TO GO NEXT

Install the SQL *i***DataAgent** Walks you through the process of installing the SQL *i*DataAgent.



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.

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 on large SQL databases.

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.

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.

SNAPPROTECT BACKUP

SnapProtect Backup enables you to create a point-in-time snapshot by temporarily quiescing the data, taking a snapshot, and then resuming live operations. SnapProtect backups work in conjunction with hardware snapshot engines.

TERMINOLOGY

The SQL documentation uses the following terminology:

CLIENT	The computer in which the <i>i</i> DataAgent is installed and contains the data to be secured.	
INSTANCE	The SQL instance used for backup and restore operations.	
SUBCLIENT	The SQL databases within the instance used for backup and restore operations.	

New Features - SQL Server iDataAgent

NEW FEATURES FOR MICROSOFT SQL SERVER IDATAAGENT

DATA PROTECTION OPERATIONS

- For SQL backups, several new SQL settings are now available. Adjusting these parameters may improve performance and you can enable or disable log
 consistency checking. You can accept either the defaults or change the values for parameters such as Block Size, Buffer Count, Maximum Transfer Size, and
 Log Consistency Checking. For more information, see Enhancing Performance During Backups.
- Backups for SQL Server 2008 Enterprise or later can now be compressed by SQL Server before being backed up using Calypso. Backups will be smaller, which should significantly increase the backup speed. However, VSS-enabled and Snap backup types are not supported with this feature. For more information, see Compressing Backups with Native SQL Compression
- The SQL Server iDataAgent now can restore backups of replicated databases. With this feature, a published database can be restored to a server other than
 the server where the database was created. This is relevant only to Calypso full backups and if the database was part of a replication implementation. For
 more information, see Preserving Replication Settings
- A new backup conversion rule for SQL Server *i*DataAgent is now available that when configured, will not convert the log backup to a Full backup if the log backup was performed using software other than Calypso. For more information, see Setting Up Backup Conversion Rules
- You can configure the size of the application data fetched for data transfer during backup operations. Tuning the application read size in alignment with the source application's buffer allocation increases the rate of data transfer during backup. See Advanced - Microsoft SQL Server Configuration on configuring the application read size for more information.
- When SQL databases were automatically discovered but later deleted from an application (e.g., SQL Server), they will be automatically deleted from the
 content of the default subclient when the next backup is run. This alleviates having to delete the databases manually. Databases that are manually added
 and later deleted from an application are not automatically removed from the subclient when the next backup runs and the backup job will complete with
 errors. See Managing Databases Deleted from SQL Server for more information.
- By default, SQL databases are automatically discovered and assigned to the default subclient. You can disable this auto-discovery with a new subclient
 properties option if you need more control of the SQL databases data protection strategy and wish to manually assign them to subclients instead. For more
 information, see Enabling/Disabling Automatic Database Discovery.

DATA RECOVERY OPERATIONS

SQL databases can now be restored if they were backed up with the Change Data Capture property enabled. This is a useful SQL Server 2008 feature in that all change activity (insert, update, and delete) is captured and applied to SQL tables. The details of the changes are available in an easily consumed relational format. See Restoring the Captured Changes for more information.

NEW COMMCELL FEATURES SUPPORTED FOR MICROSOFT SQL SERVER IDATAAGENT

DEPLOYMENT

CUSTOM PACKAGE

The Custom Package feature is now extended to almost all products in the Calypso suite. Using Custom Packages, you no longer have to push the entire software DVD through a network, which is especially useful for reducing WAN/LAN payload while installing remote clients.

It is also possible to create Custom Packages using a customized .xml file.

When used in conjunction with the Install Software from the CommCell Console and Automatic Updates features, WAN bandwidth can be drastically reduced during remote site installations. Learn more...

INSTALL FROM THE COMMCELL CONSOLE

The software installation for this component can be initiated and managed from the CommCell Console, which facilitates the building of your CommCell and eliminates the need to manually install the software. Additionally, the installation of this component can be scheduled to occur at a time suitable for your environment. For more information, see Install Software from the CommCell Console.

UNINSTALL FROM THE COMMCELL CONSOLE

This component can be uninstalled using the CommCell Console. The Uninstall Software utility allows you to quickly see a list of the software packages installed on the selected computer, from which you can then select the components to uninstall. With this, you can easily manage removing software components from client computers and MediaAgents in your CommCell without having to directly access each computer. For more information, see Uninstall Components using the CommCell Console.

ADDITIONAL SNAP ENGINE SUPPORT FOR SNAPPROTECT

The following Snapshot Engines are now supported for SnapProtect:

2

- Data Replicator
- Dell EqualLogic
- HP StorageWorks EVA
- IBM XIV
- EMC Celerra

SNAP TEST TOOL

Snap Test tool is now available to test basic snap engine operations. See SnapProtect - Snaptest Tool, for more information.

MULTI-STREAMING FOR SNAPPROTECT

Multi-stream backups are now supported for SnapProtect. You can now use multi-stream when moving data to media.

VOLUME MANAGER SUPPORT

SnapProtect Volume Manager support has been extended to support more configurations for e.g., Multiple Physical Volumes containing one Logical Volume. See Supported Volume Managers, for a complete list of volume managers supported for SnapProtect.

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System Requirements - Microsoft SQL Server iDataAgent

System Requirements Supported Features

The following requirements are for the Microsoft SQL Server *i*DataAgent:

APPLICATION

Microsoft SQL Server 2005 Editions up to the latest Service Pack Microsoft SQL Server 2008 Editions up to the latest Service Pack Microsoft SQL Server 2008 R2 Editions up to the latest Service Pack Microsoft SQL Server 2012 Editions* *See Considerations for SQL Server 2012.

OPERATING SYSTEM

WINDOWS SERVER 2012 Microsoft Windows Server 2012 Editions

WINDOWS 7 Microsoft Windows 7 Editions

WINDOWS SERVER 2008 Microsoft Windows Server 2008 Editions with a minimum of Service Pack 1* * Core Editions not supported.

WINDOWS VISTA Microsoft Windows Vista Editions

WINDOWS SERVER 2003 Microsoft Windows Server 2003 Editions with a minimum of Service Pack 1

WINDOWS XP Microsoft Windows XP 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

265 MB of minimum disk space is required for installing the software.50 MB of additional hard disk space for log file growth.724 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

TCP/IP Services configured on the computer.

NOTES ON MICROSOFT SQL SERVER /DATAAGENT INSTALLATION

- The File System *i*DataAgent will be automatically installed during installation of this software, if it is not already installed. For System Requirements specific to the File System *i*DataAgent, refer to System Requirements Microsoft Windows File System *i*DataAgent.
- If the option to install SQL Server is disabled make sure there is at least one network protocol enabled. For SQL 2005 go to SQL Server Configuration Manager and enable protocols for each instance.
- Microsoft SQL Server Management Objects (SMO) is required on the client machine. By default, SMO is automatically installed with SQL Server 2005 or later versions.

NOTES ON ALWAYSON PROVIDED BY SQL 2012

SQL Server 2012 comes with a new implementation on clusters named AlwaysOn. If you want to protect the AlwaysOn configuration, consider the following:

- Install the SQL *i*DataAgent on all physical nodes of the cluster to protect the SQL instances separately. Note that if the active node, which is part of the Availability Group, performs a successful backup then target databases synchronizing with the active node may have errors during backup.
- If you want to restore any databases that are part of the Availability Group, you must remove the database from the Availability Group. Once the restore completes, you can add the database back.

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

Supported Features - Microsoft SQL Server iDataAgent

System Requirements Supported Features

The following table lists the features that are supported by this Agent.

FEATURE	SUB-FEATURE	SUPPORT	COMMENTS
ADVANCED BACKUP/ARCHIVE OPTIONS	Data tab - Catalog	~	
	Data tab - Create New Index		
	Data tab - Verify Synthetic Full		
	Job Retry tab	~	
	Media tab - Allow other Schedule to use Media Set	~	
	Media tab - Mark Media Full on Success	~	
	Media tab - Reserve Resources Before Scan		
	Media tab - Start New Media	~	
	Startup tab	~	
	VaultTracking tab	~	
	Comments	~	 Additional options in the Data tab: Start a Transaction Log Backup After Successful Backup Perform a Partial Backup to Exclude Read-only File Groups Back up the Tail of a transaction Log Data tab - Catalog options are supported for SnapProtect Backup for this agent.
ADVANCED FILE SYSTEM IDATAAGENT OPTIONS	Automatic File System Multi- Streaming		
	On Demand Data Protection Operation		
	Restore by Jobs Restore Data Using a Map File		
	Comments		
ALERTS AND MONITORING	Global Alerts	~	
	Job-Based Alerts*	~	
	Comments		
AUTOMATIC UPDATES	Automatic Updates	~	
	Comments		
BACKUP/ARCHIVE OPTIONS	Differential Backup	~	
	Full Backup	~	
	Incremental Backup		
	Other Backup Types		
	Comments	~	Transaction Log Backups Do Not Truncate Log
	Version 7	~	SnapProtect Backup
BACKWARD COMPATIBILITY	Varsian 8	~	
	Version 9	-	
	Comments		
BROWSE	Browse from Copy Precedence	~	
	Browse the Latest Data	~	
	Exclude Data Before	~	
	Find		
	Full Backup Transparent		

	Browse		
	Image Browse		
	No Image Browse		
	Page Size		
	Specify Browse Path		
	Specify Browse Time	\checkmark	
	Subclient Browse		
	Use MediaAgent		
	View All Versions		
	Comments		
	Netware cluster		
CLUSTERING			
	Unix Cluster		
	Windows - Microsoft Cluster	\checkmark	
	(MSCS) Windows - Non-Microsoft	~	
	Cluster		
	Comments	\checkmark	Microsoft Cluster supports Geo-Dispersed Cluster
			Non-Microsoft Cluster supports VERITAS Cluster and HP Scalable NAS/PolyServe Cluster
COMMAND LINE INTERFACE	Command Line Interface	~	
	Comments	~	Ocreate backupset and Odelete backupset are not supported.
			An out of place posters is supported using Course Course 7
			An out-or-place restore is supported using Save as Script. For more information, refer to Command Line Interface
COMMAND LINE INTERFACE - SPECIFIC COMMANDS	Qcreate - Backup set/SubClient	~	
	Ocreate - Instance	 Image: A start of the start of	
	Qdelete - Backup	 Image: A set of the set of the	
	set/Subclient		
	Qdelete - Client/Agent	✓	
	Qlist globalfilter		
	Qmodify - instance		
	Qoperation - Backup	✓	
	Qoperation - move		
	Qoperation - Restore	~	
	Comments	~	Qcreate backupset and Qdelete backupset are not supported. For Qoperation-Restore, an out-of-place restore is supported using Save as Script or Argument File. For more information, refer to Command Line Interface
	CommCell Migration	~	
	Comments	~	CommCell Migration is not supported with SnapProtect backup whe
	Offline Content Indexing		
CONTENT INDEXING			
	Comments		
DATA AGING	Basic Retention Rules	•	
	Extended Retention Rules	~	
	Unique Data Aging Rules	~	
	Comments	~	For the Microsoft SQL Server iDataAgents, data backed up through file/file group subclients cannot be pruned through extended retention rules.
DATA CLASSIFICATION ENABLED	Data Classification Enabler		
DATA CLASSIFICATION ENABLEK	Comments		
	Client Compression	✓	
DATA COMPRESSION			
	Hardware Compression		
	MediaAgent Compression	✓	
	Comments		
	Data Encryption Support	~	
DATA ENCRYPTION			
DATA ENCRYPTION	Third-party Command Line		
DATA ENCRYPTION	Third-party Command Line Encryption Support		
DATA ENCRYPTION	Third-party Command Line Encryption Support Comments		
	Third-party Command Line Encryption Support Comments Multiplexing	~	

			multiplexing of streams "with each other" on to the same media when a data protection operation is performed using the CommCell Console. However, the streams will be multiplexed when the operation is performed using the Command Line Interface.
DEDUPLICATION	MediaAgent Deduplication	~	
	Source Deduplication	~	
	Comments		
	Erase Data by Browsing		
ERASE BACKUP/ARCHIVED DATA			
	Erase Stubs		
	Comments		
GLOBAL FILTERS	Global Filters		
	Comments		
INSTALLATION	Custom Package	~	
	Decoupled Install	✓	
	Remote Install	✓	
	Restore Only Agents	✓	
	Silent Install	~	
	Comments	~	To install this agent as restore only see Installing Microsoft SOL
			Server as Restore Only
INSTALLING 32-BIT COMPONENTS ON A MICROSOFT WINDOWS X64 PLATFORM	Install 32-bit On x64	*	
	Comments		
100 DECTADT DATA DOCTOTION	Not Restartable		
JOB RESTART - DATA PROTECTION	Destaute frame the Designing		
	Restarts from the Beginning		
	Restarts from the Beginning		
	Destarts from the Daint of		
	Failure	•	
	Comments		
	Not Rostartable	~	
JOB RESTART - DATA RECOVERY		•	
	Restarts from the Beginning		
	Restarts from the Beginning		
	Restarts from the Point-of-		
	Failure Comments		
LIST MEDIA	List Media Associated with a Specific Backup Set or Instance	~	
	List Media Associated with Index		
	List Media Associated with		
	Specific Files and/or Folders		
	List Media Associated with Specific Jobs		
	Comments		
	Multi Instance		
MULTI INSTANCING			
	Comments		
PRE/POST PROCESSES	Pre/Post Process with Data Protection and Recovery	~	
	Comments		
	Cross-Application Restores	✓	
RESTORE/RECOVER/RETRIEVE DESTINATIONS	(Different Application version)		
	Cross-Platform Restores -		
	Cross-Platform Postoros	~	
	Same Operating System -		
	Different Version		
	In-place Restore - Same	~	
	path/ destination - Same Client		
	Out-of-place Restore -	~	
	Different path/ destination		
	Out-of-place Restore - Same	, v	

	path/ destination - Different		
	Client Restore Data Using a Man		
	File		
	Restore to Network		
	System		
	Comments	✓	See Advanced - Microsoft SQL Server Restore.
RESTORE/RECOVER/RETRIEVE OPTIONS	Automatic Detection of Regular Expressions		
	Filter Data From Recover		
	Rename/ Redirect Files on	✓	
	Restore Data Using Wildcard		
	Restore Data with Pre/Post	~	
	Processes Pestore from Conies	~	
	Skip Errors and Continue		
	Use Exact Index		
	Use MediaAgent	✓	
	Comments		
RESTORE/RECOVER/RETRIEVE OVE <u>RWRITE</u> OPTIONS	Overwrite Files		
	Overwrite if file on media is newer		
	Restore only if target exists		
	Unconditional Overwrite	 Image: A start of the start of	
	Unconditionally overwrite only if target is a DataArchiver stub		
	Comments	✓	Unconditional Overwrite for existing messages.
SCHEDULE POLICY	Agent Specific Data Protection Schedule Policy	~	
	All Agent Types Schedule Policy	~	
	Comments		
STORAGE POLICIES	Incremental Storage Policy*	~	
	Standard Storage Policies	× .	
	Comments	v	Incremental Storage Policy does not support Transaction Log backups for this agent. One storage policy can be created for full backups, while another is created for differential backups (using incremental storage policy), and another for transaction log backups.
	Data Verification	v	
STORAGE FOLICT COFILS	Job Based Pruning	~	
	Manual Retention	✓	
	Mark Job Disabled	~	
	Selective Copy	✓	
SUBCLIENT POLICIES	Comments SubClient Policy		
	Comments		
UPGRADE	Netware - Local		
	Unix - Remote (Push)		
	Unix/Linux/Macintosh - Local		
	Upgrade from CommCell	~	
	Console		
	Windows - Local	 Image: A start of the start of	
	Windows - Remote (Push)		
	Windows - Silent	<u>`</u>	Upgrade the Agent - Nen Microsoft Clustered Environment on
	Comments	•	Windows
USER ADMINISTRATION AND SECURITY	Backup Set/Archive Set		
1			

Subclient	1	
Comments		

Additional features are listed below:

Activity Control	Auxiliary Copy	
CommCell Console	Deconfiguring Agents	
GridStor	Languages	
Log Files	MediaAgent	
Operation window	QR Volume Creation Options	
Robust Network Layer	Scheduling	
SnapProtect Backup	Snapshot Engines	
VaultTracker Enterprise	VaultTracker	
Report Output Options	Restore/Recover/Retrieve - Other Options	
Cloud Storage	Job Restart - Data Collection	

Getting Started Deployment - SQL Server iDataAgent

WHERE TO INSTALL

Install the software on a computer on which SQL Server resides, and satisfies the minimum requirements specified in the System Requirements.

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. Log on to the client computer as Administrator or as a member of the Administrator group on that computer.

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

If you are installing on Windows Server Core editions, navigate to Software Installation Package through command line, and then run **Setup.exe**.

3. Select the required language.

Click Next.

4.	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.

BEFORE YOU BEGIN

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

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

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 Statt Guide (Requires Adobe Acrobat Reader) Install Adobe Acrobat Reader 	
	🗢 Exit

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



6. Expand Client Modules | Backup & Recovery | Database and then click SQL Server iDataAgent box. Click Next.

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 $\ensuremath{\textbf{CommServe Host Name}}.$
	Click Next.

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

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

Common Technology Engine CommCel Console CommCel Console CommCel Console Context Indexides Context Indexing and Search Context Indexing and Search Context Indexing and Search Context Indexignement ContrinuousDataReplicator Supporting Modules Context Indexides Context Indexides	Move the pointer over a platform name to see a description of the platform and reasons why it may be disable. Disk Space (Reg/Recommended) Installation Fidder: 0 MB / 0 MB Special Registry Keys In Use
Install Agents for Restore Only < Back	Next> Cancel
Installer Firewall Configuration Configure frewall services	
If there is a firewall between this machine and the Lommo- Configure firewall services Please specify how Windows Firewall is finiting network to correction from here to a Commiserve is turnel post, when commiserve are blocked, and setup should nated scope machine, or whether there is a Proxy in between. This machine can open connection to Commiserve on Commiserve can open connection toward this machine Commiserve is reachable only through a proxy	eve, congue trevel services below. Inflic: Whether it is possible to open ther al connections torvied et Commiserve to connect back to this tunnel port.
Installer	Next > Cancel
Installer CommServe Name Specify the CommServe computer name and host name	
CommServe Client Name	

License Agreement

Installer

nstaller

Select Platforms

Please read the following License Agreement. Press the PAGE DOWN key to view the entire agreement.

• I accept the terms in the license agreement. C I do not accept the terms in the license agreement.

Select the platforms you want to configure.

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)

Fud Hoav I issues Agreement

< Back

^

~

Next > Cancel

CommServ (Enter a va	e Host Name lid, fully-qualified, IP	host name; for	example:	
mycompute	r.mycompany.com)			
mycomput	er. mycompany. com			

9. Click Next.

		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 Cancel
10.	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 DN
	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
11.	Verify the default location for software installation.	Installer
	Click Browse to change the default location.	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. Destination Folder Image: Strategy and the
	It is recommended that you use alphanumeric characters only.	Drive List C: 928 MB Space Required / Recommended 1394 MB / 1670 MB
		Installer Cancel
12.	Select a Client Group from the list.	Installer
	Click Next .	Client Group Selection Select a client group for the client.
	This screen will be displayed if Client Groups are configured in the CommCell Console.	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 < Back Cancel
13.	Click Next .	

X

X

14. Click Next.

15. Select a storage policy from the **Storage Policy** list. Click **Next**.

If you do not have Storage Policy created, this message will be displayed. Click ${\bf OK}.$

You can create the Storage Policy later in step 20.

motutien						
Schedule Install of Auto	matic Updates					
Choose when you want to schedule an install of the downloaded updates.						
Schedule Install of Aut	omatic Updates					
C Once						
C	Time: 08:31:12 PM					
(* Weekly	Monday C Tuesday					
	C Wednesday C Thursday					
	C Eridau C Sabadau					
	C Sanday					
	C Sunday					
Installer	(Bank Next) Cannel					
Installer	×					
Select Global Filter Opt Select the Global Filter Option	ions s for the Agent					
Global Filters provides the ab protection operations on all a	ility to set exclusions within a CommCell to filter out data from data gents of a certain type.					
(U	se Cell level policy					
C AI	ways use Global Filters					
C D	o not use Global Filters					
Installer						
	<back next=""> Cancel</back>					
Installer	X					
Installer Storage Policy Selectio	in					
Installer Storage Policy Selection	n n default substant to be					
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16. Click Next.

When **Auto Discover Instances** is enabled, new instances are automatically discovered every 24 hours.

17. Click Next.

18. Click Next.

19. Click Finish.

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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.

20 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.
 - $\circ~$ From the Library list, click the name of a disk library to which the primary copy should be associated and then click ${\bf Next}.$

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**.
- For the device streams and the retention criteria information, click Next to accept default values.
- 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**.

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.



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3. Select Windows. Click Next.

4. Select Manually Select Computers. Click Next.

5. Enter the fully qualified domain name of the computer on which SQL Server resides. For example: apple.domain.company.com Click Next.

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Install Wizard	
This wizard guides you through the steps required to install software on computers.	
Click Next to continue.	
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6. Click Next.

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

The user must be an Administrator or a member of the Administrator group on that computer.

8. Select SQL Server *i*DataAgent. Click Next.

9.

- Select Client Group from Available and click Add.
 - From **Storage Policy to use** list, click storage policy.
 - Click Next.

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Select Software Cache
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Enter Account Information
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multiple clients, the user should have access to all clients.
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10. Click Next.

When **Auto Discover Instances** is enabled, new instances are automatically discovered every 24 hours.

11. Click Reboot (if required) and then click Next.

When **Reboot (if required)** is selected, the install program will automatically reboot the client computer if a reboot is required during installation.

12. Click Immediate. Click Next.

13. Click Finish.

Enter the instail Options for the selected Software
Agent Specific Settings
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14. You can track the progress of the job from the **Job Controller** or **Event Viewer** window.



ADDITIONAL INSTALLATION METHODS

Custom Package

Create a compact software package for quick deployment to multiple clients.

Decoupled Install

Install the software first and later register the client in the CommCell.

Remote Install

Deploy the software from CommCell Console on multiple clients.

Installing Restore only Agents

Setup a client in the CommCell for restore purposes.

Silent Install

Deploy the software silently on multiple clients.

Getting Started Deployment on a Cluster - SQL Server *i*DataAgent



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.

BEFORE YOU BEGIN

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

Verify System Requirements

Select the language you will use during installation English (United States)

-

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

- 1. Log on to the active node as the Domain User with administrative privileges to all nodes on the cluster.
- Run Setup.exe from the Software Installation Package. 2.
- з. Select the required language.

Click Next.

5.

Click Next.

4	C - I + +		:			+l- : -	
4.	Select the	option to	Install	sontware	on	this	computer

Select I accept the terms in the license agreement.

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

	Next > Can	el
	Advanced options	
	View documentation website	
	View Install Quick Star. Guide (Nequiles Adobe Actobat Neader)	
	⇔ Exit	
nst	taller	
Lic P th	cense Agreement Please read the following License Agreement. Press he PAGE DOWN key to view the entire agreement.	- 15
		~
		3
	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)	
	Fud How I issues Assessment	~

< Back

Next > Cancel

I accept the terms in the license agreement. C I do not accept the terms in the license agree

Installer

6. Select Configure a Virtual Server. Click Next.

 Select the disk group in which the cluster group resides. Click Next.

 Expand Client Modules | Backup & Recovery | Database and select SQL Server iDataAgent
 Click Next.

9. 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**.

Cluster Type Selection Configure the Physical Node or a Virtual Server - Configuration Options C Configure the Physical node ○ Configure a <u>V</u>irtual server < Back (<u>Next></u> Cancel Virtual Server Selection Select the virtual server you would like to configure Choose from the following list of disk groups configured on this cluster. 2003ClusterVMS -<<u>B</u>ack <u>N</u>ext> <u>C</u>ancel nstaller Select Platforms Select the platforms you want to configure. Common Technology Engine
Common Technology Engine
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CommCell Console
CommCell Console
CommCell Console
CommCell Modules
CommCell Console
CommCell Modules
CommCell Console
CommCe Move the pointer over a platform name to see a description of the platform reasons why it may be disabled. Disk Space (Req/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 X nstaller Firewall Configuration Configure firewall services If there is a firewall between this machine and the CommServe, configure firewall services below. Configure firewall services This machine can open connection to CommServe on tunnel portion. C CommServe can open connection toward this mach C CommServe is reachable only through a prox Installer Cancel Next >

10. 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:

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

11.	Specify the name of the Virtual Machine . Click Next .	Installer Installer Communication In Setup will configure th	< Back Next >	Cancel
			Select a client name 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
12.	Select the name of the Physical Machine from drop-down list. Click Next.	Installer Communication I Setup will configure t	Interface Name the communication paths.	
			Select a client name for physical machine	
		Installer	< <u>B</u> ack <u>N</u> ext >	<u>C</u> ancel
13.	Select Add programs to the Windows Firewall Exclusion List , to add CommCell programs and services to the Windows Firewall Exclusion List. Click Next .	Installer Windows Firewal Allow programs to con Firewall	II Exclusion List mmunicate through Windows	
	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.	Windows Firewal	II is ON is to the Windows Firewall Exclusion List ing Windows Firewall, it is recommended to add the software	programs to the
		Installer	< Back Next >	Cancel

CommServe Name Specify the CommServe computer name and host name

CommServe Client Name

mycomputer.mycompany.com

CommServe Host Name (Enter a valid, fully-qualified, IP host name; for example: mycomputer.mycompany.com)

Cancel

X

X

- 14. 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.

15. Verify the default location for Job Results Path. Click **Browse** to change the default location. Click **Next**.

16. Select a Client Group from the list. Click **Next**.

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

17. Click Next.

18.	Click	Next.

In stalles.	
Select the destination	n folder to install the program files.
Click Next to acce	pt the default location, or click Browse to choose an alternate location.
Destination Fald	
Destination Folde	sı ,
C:\Program Files	Browse
- Drive List	Space Beguired / Becommended
C: 928 MB	▼ 1394 MB / 1670 MB
10. 000110	
Installer	
	<back next=""> Cancel</back>
Installer	A
Job Results Path Select the location of	n a shared drive to store Joh
Results files for this o	lient computer.
Click Next to acc	ept the default location, or click Browse to choose an alternate location.
Job Results Pat	h
logram Eiles\na	3\iDataAgent\JobBesults Browse
1	
Drive List	Space Required / Recommended
M: 15061 ME	50 MB / 50 MB
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19. Select a Storage Policy from the drop-down list. Click Next.

If you do not have Storage Policy created, this message will be displayed. Click ${\bf OK}.$

You can create the Storage Policy later in step 29.

20. Click Next.

For cluster, you need to discover instances manually. See Manually Discovering New Instances to discover the new instances.

Installer	
Select Global Filter Options	
Select the Global Filter Options for the A	gent.
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.
 Use Cell levi 	el policy
C Always use	Global Filters
C Do not use (âlobal Filters
Installer	
	<back next=""> Cancel</back>
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22. Click Yes.

23. Select cluster nodes from the **Preferred Nodes** list and click the arrow button to 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.
- Preferred Nodes Selected Nodes Configured Nodes VMCLUSTER1 ncluster2 -> < >> << Ľ -• 4 1 Cancel <u>N</u>ext > 1 Installe

Setup has enough information to start copying the program files. If you are satisfied with the install settings, click Next to begin copying files.

< Back Next >

Would you like to install the software on remaining nodes on the cluster?

No

Yes

~

Cancel

Summary Summary of install selections

Installer

nstaller

2

Cluster Node Selection Select cluster nodes to configure

Destination Path = C:\Program Files\ CommServe Host = mycomputer.mycompany.con Interface Name = audi.mycompany.com Client = audi Job Results Path = C:\Program Files\JobResults Global Filters = Use Cell level policy

- Domain administrator account information
 Please provide domain administrator account

 Domain Account Information
 User Name (<00MAIN\USER>):
 LAB\Vadministrator
 Account Password:
- 24. Specify User Name and Password for the Domain Administrator account Information to perform the remote install on the cluster nodes you selected in the previous step.

Click Next.

25. 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.

26. 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.

27. Click Next.

28. Click Finish.

nstaller 🛛 🔀
You can stop remote install at any time. Installed clients will not be uninstalled. Clients in progress will continue installation, but their results will not show correctly.
Lient Name Lient Status Start Ime End Ime Hesult Description real2
Installed successfully: 0 Left to install: 1 Failed to install: 0 In progress: 0 Max 1 Elapsed time: 0 sec Estimated time left: 10 min 0 sec
Installer Advanced Settings Stop
nstaller
Number of simultaneous remote machines to run Setup; 10 $\frac{1}{2}$ machines Time to wait for Setup to start on each remote machine: 2 $\frac{1}{2}$ minutes Time to wait for Setup to complete on each remote machine: 15 $\frac{1}{2}$ minutes
nstaller 🛛 🔀
Results Remote install results
Summary of remote install The following software (Version) were selected to be installed: + CommCell REAL2: Install succeeded.
۲ Enish
setsller 🛛
Schedule Reminder Job schedule creation reminder
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
nstaller 🔀
Completion Report Setup complete
Software installation completed successfully.
기



If you already have a storage policy selected in step 19, 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.

29 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:

- 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.
 - $\circ~$ 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.
- 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**.

Review the details and click **Finish** to create the Storage Policy.

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





Previous Next >

Getting Started Deployment On A Non-Microsoft Cluster - SQL Server *i*DataAgent

< 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 for the following Non-Microsoft Clustered environment:

INSTALL SQL SERVER IDATAAGENT IN VERITAS CLUSTER ENVIRONMENT

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

INSTALL SQL SERVER 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 SQL SERVER 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 SQL 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.

To create the registry key, see the following steps:

BEFORE YOU BEGIN

Download Software Packages

Verify System Requirements

1. Start the Registry Editor (Regedit.exe or Redegt32.exe)

Download the latest software package to perform the install.

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

- 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.

Select the language you will use during installation.		
English (United States)		
	<u>N</u> ext >	Cancel

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

Select the required language.
 Click Next.

4.

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.

5. Click Next.

- 6. Click OK.
- 7. Select I accept the terms in the license agreement. Click Next.

8. Select Configure a Virtual Server. 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
⊜ Exit
Installer
Weleener
The Installer will guide you through the
setup process for Software
This program will install Software on your computer.
It is strongly recommended that you exit all Windows programs before running this
Setup program.
Click Cancel to quit Setup and then close any programs you have running. Click Next to continue with Setup
WARNING: This program is protected by copyright law and international treaties.
Unauthorized reproduction or distribution of this program, or any portion of it, may result in severe civil and criminal negatives, and will be process ted to the maximum
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- 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.

Quick Start Guide - SQL Server iDataAgent

• 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**.

setup	ver for which you w	ould like to run		
	Choose from the contigued on thi Communication I	following list of disk s cluster. nterface Name:	: groups	
		< <u>B</u> ack	<u>N</u> ext>	Cancel
Preferred Nodes Provide list of prefere Group.	ed nodes for selecte	d Virtual		
Preferred Nodes:		Add	Nodes on which Virt configured to run. VRSCLUSTER1 VRSCLUSTER2	ual Group is
I				

Is node vrscluster1 current owner of virtual machine SQLDisk

Yes

Installer

Select Platforms

Select the platforms you want to configure.

Common Technology Engine
Common Technology Engine
CommCel Commology
CommCel Console
CommCel C

Installer

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 Clerk Modules

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 Rackup A Recovery

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 Content Indexing and Search

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 Supporting Modules

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 Tools

<u>N</u>o

e the pointer over orm name to see a ription of the platfi ons why it may be

Disk Space (Req/Recommended) Installation Folder: 0 MB/ 0 MB Temporary on C: drive: 0 MB/ 0 MB Special Registry Keys In Use

Virtual Server Selection

- **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 | Database and then click SQL Server *i*DataAgent box.

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**.

Install Agents for Restore Unly	< Back	Next >	Cancel
nstaller			l l l l l l l l l l l l l l l l l l l
Firewall Configuration Configure firewall services			×
If there is a firewall between this machin	ne and the CommServ	ve, configure firewall	services below.
Configure firewall services			
Please specify how Windows Firewall connection from here to a CommServ CommServe are blocked, and setup s machine, or whether there is a Proxy i	is limiting network tra e's tunnel port, wheth hould instead expect n between.	ffic. Whether it is po er all connections to CommServe to conr	ssible to open ward nect back to this
C This machine can open connection	n to CommServe on tu	innel port	
C CommServe can open connection	toward this machine		
C CommServe is reachable only throu	igh a proxy		
Installar			
in availor	Г	Next>	Cancel

14. 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:

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

15. Click Next.

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.

17. Verify the default location for software installation.

Click **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.

18. Specify the **Job Results Path**. Make sure that the Job Results folder you specify resides on a shared disk.

Click **Browse** to change the default location.

Click Next.

Installer	× * *
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mycomput	ter, mycompany, com
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Installer	
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	audi_cn
	Select an interface name that this computer will use to communicate with the CommServe
	audi mucompanu com
	IP Address(es) for the selected host.
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	Installer Select Global Filter Options Select the Global Filter Options for the A

nstaller

19. Select a Client Group from th

Click Next.

This screen will be dis CommCell Console.

20. Click Next.

21. Click Next.

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

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X



This process will not automatically discover the Virtual nodes. It is recommended to configure the Virtual node post installation from CommCell Console. For details, see Virtual Nodes Are Not Being Automatically Discovered in a Veritas Cluster Environment

24. Click Next.

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

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

26. Click Next.

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-down list.
Unassigned 💌
Installer
< Back Next> Cancel
Installer 🛛 🔀
SQL Auto Discovery Option Select auto discovery option for SQL
Auto discover instances
Installer
< Back Next > Cancel
Installer X
Summary of install selections
Setup has enough information to start copying the program files. If you are satisfied with the
install settings, click Next to begin copying files.
Destination Path = C:VProgram Files\ CommServe Host = mycomputer.mycompany.com Interface Name = audi.mycompany.com
Client =audi Job Results Path = C:\Program Files\JobResults
Chobal Finers = Use Cell level policy
Installer
Installer
Installer To complete the install configure software cluster resources manually. Please follow the guidelines in the documentation.
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27. Click Finish.

Column instal			
Visit the websit	ation completed successfully. e below to download latest Updates	and Service Packs.	-
Click Finish to	complete Setup.		
1			

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

28. 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 space-sensitive, 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 MountV 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 SQL SERVER IDATAAGENT IN HP SCALABLE NAS/POLYSERVE CLUSTER ENVIRONMENT

WHERE TO INSTALL

29.

30.

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)
- 2. 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.
- 5. 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.
- Select the required language.
 Click Next.

2.

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	This program wi	ill install Softwar	re on your comp	outer.				
1	It is strongly rec	ommended that	you exit all Win	dows pro	ograms before i	running	this	
	Click Cancel to	quit Setup and	then close any p	programs	s you have runr	ning. Cli	ck	
	Next to continue	e with Setup.						
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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. Click Next.

8. Click OK.

9. Select I accept the terms in the license agreement. Click Next. 10. Select Configure a Virtual Server. Click Next.

- **11.** 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.

12. 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**.

13. 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.
- 14. Expand Client Modules | Database and then click SQL Server *i*DataAgent box. Click Next.

	Select Platforms Select the platforms you want to configure.
	D D
	Common Technology Engine
	CommServe Modules CommCell Console Da CommCell Console Data
	MediaAgent Modules
	Client Modules Disk Space
	Content Indexing and Search (Req/Recommended)
	Web Based Search & Browse Installation Folder: D Archive Management O MB/ 0 MB
	ContinuousDataReplicator Temporary on C: drive:
	C Supporting Modules
	Tools
	Installer Special Registry Keys In Use
	Install Agents for Restore Only Cancel Cancel
If this computer and the CommServe is separated by a firewall, select the Configure	Installer
firewall services option and then click Next.	Firewall Configuration
For firewall options and configuration instructions, see Firewall Configuration and	Configure firewall services
continue with the installation	
	If there is a firewall between this machine and the CommServe, configure firewall services below.
If firewall configuration is not required, click Next .	E Conferent formalism
	Configure firewail services
	Please specify how Windows Firewall is limiting network traffic. Whether it is possible to open
	Connection from here to a Commonly's Clinne port, whether all connections toward CommServe are blocked, and setup should instead expect CommServe to connect back to this
	machine, of whether there is a Proxy in between.
	I his machine can open connection to CommServe on tunnel port
	C CommServe can open connection toward this machine
	C CommServe is reachable only through a proxy
	Installer
	Next > Cancel
Enter the fully gualified domain name of the CommServe Host Name .	Installer
	CommServe Name
Click Next.	Specify the CommServe computer name and host
Do not use space and the following characters when specifying a new	name
not use space and the following characters when specifying a new	Comp Comp Clinet Mana
	LommServe Lient Name
\ `~!@#\$%^&*()+=<>/?,[]{}:;'"	
	CommServe Host Name (Enter a valid, fully-qualified, IP host name; for example:
	mycomputer.mycompany.com)
	mycomputer.mycompany.com
	la della
	(Back Nevt> Cancel
Click Noxt	
The client name should be equivalent to the vhost name and the interface name equals the vhosts fully qualified domain name.	Communication Interface Name Setup will configure the communication paths.
	Salant a rijent name
	Select an interface name that this computer will use to
	communicate with the LommServe
	audi.mycompany.com
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	IP Address(es) for the selected host.
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	IP Address(es) for the selected host. Installer Cancel Cancel
Select Add programs to the Windows Firewall Exclusion List, to add CommCell	IP Address(es) for the selected host. Installer Cancel Cancel
Select Add programs to the Windows Firewall Exclusion List , to add CommCell programs and services to the Windows Firewall Exclusion List.	IP Address(es) for the selected host. Installer Cancel

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

17. Click Next.

15.

Select Add programs to the Windows Firewall Exclusion List, to ad 18. 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.

19.

20.

21.

	Installer
	Windows Firewall Exclusion List Allow programs to communicate through Windows Firewall
	Windows Firewall is DN
	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 < Back Cancel
	Installer Destination Folder
Click Browse to change the default location. Click Next.	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 NRingram Files Drive List C 928 MB Space Required / Recommended Installer < Back Next> Cancel
Specify the Job Results Path Make sure that the Job Results folder you specify	Testalles
resides on a shared disk.	Job Results Path
Click Browse to change the default location.	Select the location on a shared drive to store Job Results files for this client computer.
Click Next.	Click Next to accept the default location, or click Browse to choose an alternate location. Job Results Path
Select a Client Group from the list.	Installer
Click Next.	Client Group Selection Select a client group for the client.
This screen will be displayed if Client Groups are configured in the CommCell Console.	The Client Group is a logical grouping of client machines which have the same association at various levels like Schedule Policy, Activity Control, Security and Reports. Client group: None Selected client_group
	< Back Next> Cancel

22. Click Next. X

×

×

23. Click Next.

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

25. Click Next.

 $\ensuremath{\textbf{Auto Discover Instances}}$ are automatically discovered for every 24 hours.

Installer	×			
Schedule Install of Auto	matic Updates			
Choose when you want to schedule an install of the downloaded updates.				
Schedule Install of Auto	omatic Updates			
C Once				
C 1 1 1	Time: 08:31:12 PM			
(• Weekly	 Monday C Tuesday 			
	C Wednesday C Thursday			
	C Side C Setelar			
	C Pricay C Saturday			
	Sunday			
Installer	(Back North Cancel			
Installer	×			
Select Global Filter Opti Select the Global Filter Option	ons s for the Agent			
	a for the Agent.			
Global Filters provides the ab protection operations on all a	lity to set exclusions within a CommCell to filter out data from data gents of a certain type.			
U	e Cell level policy			
C Al	ways use Global Filters			
C Do	not use Global Filters			
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26. Click Next.

		Installer
		Summary Summary of install selections
		Setup has enough information to start copying the program files. If you are satisfied with the install settings, click Next to begin copying files.
		Destination Path = C-\Program Files\ CommServe Host = mycomputer.mycompany.com Interface Name = audi.reycompany.com Client = audi Job Results Path = C-\Program Files\JobResults Global Filters = Use Cell level policy
27.	Click OK and manually configure the cluster resources.	Installer
	See Configuring the HP Scalable NAS/Polyserve Cluster Resources for more information on configuring the cluster resources.	To complete the install configure software cluster resources manually. Please follow the guidelines in the documentation.
		OK
28.	Click Next.	Installer
		Schedule Reminder Job schedule creation reminder
		Please note: You still need to create a Job Scheidule for each DataAgent that has been installed on this client computer. Job Scheidules are required to allow the DataAgents to perform automated backup and restore operations. Job Scheidule creation can be accomplished through the CommCell Console administration interface.
		Installer
29.	Click Finish .	Installer
		Campletion Report Setup complete
		Software installation completed successfully. Visit the website below to download latest Updates and Service Packs. Click Finish to complete Setup.
		Instaler Technical Support Website

CONFIGURING HP SCALABLE NAS/POLYSERVE CLUSTER RESOURCES

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

30. 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., ${\tt m:\GxSCMCmd})$ on a shared disk that the virtual host you created has access to.

Copy the $\tt GxSCMCmd.exe$ 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., $\texttt{m:\GxSCMCmd\gxprobe.bat})$ 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., m:\GxSCMCmd\gxstart.bat) may appear as follows:

@echo off

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

exit O

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

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

exit 0

To 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.

- 9. From the Advanced Service Configuration dialog box, click the **Scripts** tab.
- 10. 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.

31. Add the Customer Service Monitor

- 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.

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Getting Started Configuration - SQL Server iDataAgent

Once installed, configure a subclient and associate a storage policy as follows:

- From the CommCell Browser, navigate to Client Computers | <Client> | SQL Server | <Instance>.
 - Right-click the default subclient and then click **Properties**.
- Click the **Content** tab.

1.

• Click Configure.

3. Click **Discover**.



OK Cancel Discover

Help

Change all selected databases to:

t01 > 🚺 Client

Backup List Media

Job ID

Backup History Schedules Operation Wing < Previous

> DA SQL Server > 🕅

Client Co... Agent Type Subclient Job Type

Next >

4. • Hold down CTRL and click each database listed in the **Database Name** list.

Ensure you have at least one user-created database selected as depicted in the image on the right.

- In the Change all selected databases to list, click default.
- Click OK.

- Click the **Storage Device** tab.
 - In the **Storage Policy** box, select a Storage Policy name.

If you do not have Storage Policy created, follow the step given in step 7 below to create a storage policy.

- 6
 - Click the Log Storage Policy tab.
 - In the **Storage Policy** box, select a Storage Policy name.

• Click OK.

Click Next > to continue.

Database Configuration	—X —
Database Name 🔺	1 Subclient Name x
Payroll	payrol
Resources	default
Resources_1	default
Staff_Master User-created	default
Student_Master database	default
Noctest	default
model	default
model_test	default
msdb	default
msdb_test	default 👻
Chappe all selected databases to:	
def	ault
D	Not Backup
OK pay	roll
Subalizat Decent	
Subclient Properties of default	
General Content I	Backup Rules Pre/Post Process
Activity Control	
Data Storage Policy Log Storage Policy	Data Transfer Option Deduplication
2 Storage Policy:	
Storage Policy:	- Data Paths
SP	
Incremental Storage Policy:	N/R
Create Storage Policy	
Number of streams for data backup:	2
	OK Cancel Help
	OK Cancel Hep
Subclient Properties of default	OK Cancel Hep
Subclient Properties of default	OK Cancel Help
Subclient Properties of default General Content I Storage Device Activity Control	OK Cancel Hep OK Eaclup Rules Pro/Post Process Encryption Security SQL Settings
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Subclient Properties of default General Content Activity Control Data Storage Policy: Storage Policy:	OK Cancel Help
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Subclient Properties of default General Content Storage Policy Data Storage Policy Storage Policy: [cg_declupe]	OK Cancel Hep
Subclient Properties of default General Content Storage Device Activity Control Data Storage Policy: Storage Policy: cg_dedupe • Number of streams for data backup:	OK Cancel Help
Subclient Properties of default General Content Storage Device Activity Control Data Storage Policy: Gg_dedupe Number of streams for data backup:	OK Cancel Help
Subclient Properties of default General General Content Internal Data Storage Policy: Cg_dedupe Number of streams for data backup:	OK Cancel Help
Subclient Properties of default General Storage Device Activity Control Data Storage Policy Storage Policy: (cg_dedupe) Number of streams for data backup:	OK Cancel Help
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Subclient Properties of default General Content Storage Device Activity Control Data Storage Policy Log Storage Policy Storage Policy: (cg_declupe) Number of streams for data backup:	OK Cancel Hep
Subclient Properties of default General Content Storage Policy Data Storage Policy Cog Storage Policy Storage Policy: cg_dedupe • Number of streams for data backup:	OK Cancel Help
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Subclient Properties of default General Content Storage Device Activity Control Data Storage Policy: Cog_dedupe Storage Policy: Image device Cog_dedupe Image Non- Number of streams for data backup: Image Non-	OK Cancel Help
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Subclient Properties of default General Content Storage Device Activity Control Data Storage Policy: [cg_dedupe] Number of streams for data backup:	OK Cancel Help Cox Encryption Security SQL Settings Data Transfer Option Deduplication 2 2
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7. Create a Storage Policy:

- 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.
- $\circ~$ 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.



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Getting Started Backup - SQL Server iDataAgent

WHAT GETS BACKED UP	WHAT DOES NOT GET BACKED UP
SQL Server system databases, which includes	tempdb - as SQL Server re-creates tempdb every time the server is started, it is not included in the backup
master, msdb, allu model	SQL analysis server database
SQL Server user databases	Databases on removable media
SQL Server Filestream Databases using regular and IntelliSnap Backups	Databases in single-user mode, suspect, loading, standby, and offline.
	SQL Server Filestream Databases using VSS
	The following cannot be backed up using the SQL Server <i>i</i> DataAgent:
	Full text indexes
	 SQL Server application files residing on a local hard drive
	 File system data that resides on a SQL Server computer
	Use the Windows File System <i>i</i> DataAgent to back up the above mentioned components.

 From the CommCell Browser, navigate to Client Computers | <Client> | SQL Server | <Instance>.

- Right-click the default subclient and click **Backup**.
- 2. Click Full as backup type and then click Immediate.
 - Click OK.

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- 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.



(Previous) Next >

🗙 What's new? 🗙 😵 Backup Job History of default 🗴 😵 Ba

Storage Policy

훯 docint01 > 📦 Client Computers > 🎘 happy01 > 🔤 SQL Server > 🐯 HAPPY01

Type

Backup List Media 5 Backup History Schedules Operation Window Properties

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Job Initiatio

ect Backup Type

- 6. Right-click the job to:
 - Browse the databases that were backed up.
 - View items that failed, if any, during the job.
 - Resubmit the job.
 - View job details.
 - View media associated with the job.
 - View events associated with the job.
 - View backup items (you can view the database files that were backed up e.g., .mdf, .ldf).
 - View or send the log file that is associated with the job.



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Getting Started Restore - SQL Server iDataAgent

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As restoring your backup data is very crucial, it is recommended that you perform a restore operation immediately after your first full backup to understand the process. The following sections explain the steps for restoring a user-created database to a different location on the same destination server.

- From the CommCell Browser, navigate to Client Computers | <Client> | SQL Server.
 - Right-click the instance and then click **All Tasks | Browse Backup Data**.
- 2. Click OK.

- In the right pane of the Browse window, select the database you want to restore.
 - Click Recover All Selected.
- 4. Click Advanced.

3.

🛕 CommCell Browser 🛛 🖗	B HAPPY01 × What's new? ×
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to decint01	derault Latabase 54
DO File System 2	
3 S HAPPYO1	
Security Security Storage Resources View	Backup All Subclients
HI Policies Reports New Subclie	nt Delete
Content Director Properties	Operation Window
	Fi Job ID Operation Client Co Agent Type Subclient Job Type Phase There are no tobs currently running.
	Running: 0 Pending: 0 Waiting: 0 Queued: 0 Suspended: 0 Total
Browse Options	×
Browse the Latest D.	ata
Specify Browse Time	
Browse Data Before:	
Fri 02/18/2011	• 04 : 58 AM
	(UTC-US:UU) Eastern Time (US & Canada)
Client Computer: ida39[avender 🗸 🗸
	Database O File/File Group
	0
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Current Selected: SQL Server/HAPPY01/Resources	ar Mana a
door of the second	10.0.2531
master	10.0.2531
245	laster 10.0.2531
Payroll	10.0.2531
Board_	Naster 10.0.2531
Recov	ar All Selected
SQL Restore Options	×
General Job Initiation	
General	
Destination Server: HAPPY01	
Source Server: HAPPY01	
Database Name: Resources	
Database State: Normal	
Restore Types	
Researce Types	O Barryan Orbi
 Database Restore 	Step Restore
Point-in-time	Transaction Log Marks
Latert Parkup Data	Skip Full Backup
	apply cog backups only
Restore Time and Time zone	
Restore Time: Tuesday, Ap	126, 2011 1:26:30 PM FULL
Time Zone: (GMT-05:00)	Eastern Time (US & Canada)
Recovery Types and UndoPath	
Recovery Norecover	v O Stand by
Under Che Dentes	
GIUD FIE Paul:	Browse
Restore Options	
Unconditionally overwrite ex	isting database or files
Leave Database in DBO use	only state
Preserve Replication Setting	5
Keep Change Data Capture	
	Cancel Advanced Advanced Heln

- Click the **Options** tab.
 - Rename the database name under the **Database** column.
 - Change the path of the database and log files under the **Physical Path** column.
 - Click OK.

6. Click **OK**.

- 7. You can monitor the progress of the restore job in the **Job Controller**.
- 8. Once the restore job has completed, right-click the agent and click View | Restore History.

Advanced Restore Options			
Advanced General Startup Pre/Post Copy Pre	cedence Data Path	Encryption Alert Options	
Database File Name Physic	al Path		Size ¥
Resources_1 resources_log C:\rest	ore_test\DATA\resour	ces_log.ldf	1 MB
			<u>~</u>
			Find & Replace
		OK	Caprel Help
COL Destana Online			
soj, restore options			
Seneral Job Initiation			
General			
Destination Servery HAPPY01			~
Source Server: HAPPY01			
Database Name Resources_1			
Database State: NOTEXIST			
Rescore Types		-	
Database Restore Step F	testore	Recover Only	
Point-in-time Transa		Partial Restore	
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Latest Backup Data Apply	Log backups only	sopraroutop	
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Time Zone: (GMT-05:00) Easte	rn Time (US & Cana	ta)	×
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Restore Ontions			
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Leave Database in DBO use only s	tate		
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C R OK	Cancel	Advanced 🔂 Sar	ve As Script Help
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Client Computer Groups	Name		Version
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🖶 📆 docint01			
B-DA File System			
1 C DA SQL Server	4		
Security All Tasks	Dealers 17.1		
Properties	Backup Histo		
Reports	Schedules		
Higg Content Director			
	E Content	Summary	
	Job Con	roler ×	
	Job Controlle	roler ×	A

9. Click OK.

10.

11.

• View Restore Items

• View Events of the restore job.

• View Log files of the restore job

• View Job Details

View Job Path Send Logs Resubmit Job

•

Restore History Filter for: S	6QL Server 🛛 🛛				
Destination Client Computer:					
All Clients	✓				
a Specify Time Dance					
Time Zone: (GMT-05:00)) Eastern Time (US & Canada) 🛛 💽				
Start Time	End Time				
Je 04/26/2011	• /ed 04/27/2011				
11 : 36 AM					
Job Type					
🗸 Recovery/Retrieve 🗸 Stul	o Recall				
Job Status					
 All Completed 	🔿 Failed 💦 Killed				
OK Can	el Advanced Help				
Nestore Job History of SQ ×	4 10 間				
Recover Jobs Stub Recal Jobs	+00'				
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View Job Details Paths	Paled Skoted				
View Events View Loos	A				
C Send Logs Resubmit Job					
Total records found: 10					

Once the database is restored, verify that the restored database and log files are available in the restore destination provided during step 5.



You can view the following details about the job by right-clicking the job:

You can view them as Successful, Failed, Skipped or All.

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.

