Features - Microsoft Data Protection Manager

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Overview - Microsoft Data Protection Manager

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Introduction

Key Features Point-In-Time Recovery System State Database Backup and Restore Options Backup and Recovery Failovers Efficient Job Management and Reporting Block Level Deduplication

Terminology

INTRODUCTION

DPM server creates and maintains replicas or full copies of a selected data sources and then synchronizes the replica with the changes that occur on the protected servers on a recurring schedule. The replica is created only once, and thereafter it is updated with the changes from the protected server. During the data replication, DPM uses Volume Shadow Copy Services (VSS) to produce snapshots of the data on the protected servers, enabling multiple point-in-time recovery points to be stored on the DPM server.

The Microsoft Data Protection Manager iDataAgent enables you to selectively back up and/or restore data that resides on the DPM Server. To provide flexible data management, the DPM iDataAgent allows backup and/or restoration of data in-place or out-of-place.

As a replica is created by DPM Server for every unique volume being protected, you need to create a subclient for each replica created. For example, if the DPM Server has 25 clients and one volume protected per client, then you need 25 separate subclients to protect them.

KEY FEATURES

The Microsoft Data Protection Manager iDataAgent offers the following key features:

POINT-IN-TIME RECOVERY

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

SYSTEM STATE

The Windows File System system *i*DataAgent gets installed along with Microsoft Data Protection Manager *i*DataAgent. The 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.

DATABASE BACKUP AND RESTORE OPTIONS

The SQL Server *i*DataAgent gets installed along with Microsoft Data Protection Manager *i*DataAgent. It 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.

Both the system and user-defined databases can be backed up. 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.

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

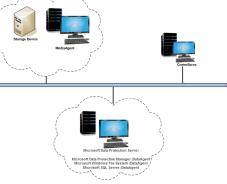
- Restore full or partial databases
- Restore and replay transaction logs
- Perform offline and other recovery states
- Point-in-time recovery options simplified with automated log playback

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 amount of file system data.

WHERE TO GO NEXT

Install the Microsoft Data Protection Manager *i***DataAgent** Walks you through the process of installing the Data Protection Manager *i*DataAgent.



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.

TERMINOLOGY

The Microsoft Data Protection *i*DataAgent 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 DPM Server data to be backed up.
METADATA	The DPM server metadata to be backed up.

New Features - Microsoft Data Protection Manager

NEW COMMCELL FEATURES SUPPORTED FOR MICROSOFT DATA PROTECTION MANAGER

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.

2

System Requirements - Microsoft Data Protection Manager

System Requirements Supported Features

The following requirements are for the Microsoft Data Protection Manager iDataAgent:

APPLICATION

Microsoft Data Protection Manager Server 2006 Editions up to the latest Service Pack Microsoft Data Protection Manager Server 2007 Editions up to the latest Service Pack Microsoft Data Protection Manager Server 2010 Editions up to the latest Service Pack

OPERATING SYSTEM

WINDOWS SERVER 2008

Microsoft Windows Server 2008 32-bit and x64 Editions* *Core Editions not supported

WINDOWS SERVER 2003

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

HARD DRIVE

111 MB minimum of hard disk space for software/ 498 MB recommended

100 MB of additional hard disk space for log file growth

727 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

When you select the Microsoft Data Protection Manager *i*DataAgent for installation, the appropriate Windows File System *i*DataAgent and the SQL Server *i*DataAgent are automatically selected. The Windows File System *i*DataAgent is mandatory, however, the SQL Server *i*DataAgent is optional. It is recommended that you install the SQL Server *i*DataAgent to fully protect the Data Protection Manager database for disaster recovery purposes.

For System Requirements and install information specific to these agents, refer to:

- System Requirements Microsoft Windows File System iDataAgent
- System Requirements Microsoft SQL Server iDataAgent

NETWORK

TCP/IP Services configured on the computer.

.NET FRAMEWORK

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

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.

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 Data Protection Manager

System Requirements Supported Features

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

DVANCED 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	✓ ✓ ✓	
	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	✓ ✓	
DVANCED FILE SYSTEM IDATAAGENT OPTIONS	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	✓	
DVANCED FILE SYSTEM IDATAAGENT OPTIONS	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		
DVANCED FILE SYSTEM IDATAAGENT OPTIONS	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		
DVANCED FILE SYSTEM IDATAAGENT OPTIONS	Set Media tab - Mark Media Full on Success Media tab - Reserve Resources Before Scan Media tab - Start New Media Startup tab	~	
DVANCED FILE SYSTEM IDATAAGENT OPTIONS	Media tab - Reserve Resources Before Scan Media tab - Start New Media Startup tab	~	
DVANCED FILE SYSTEM IDATAAGENT OPTIONS	Media tab - Start New Media Startup tab		
DVANCED FILE SYSTEM IDATAAGENT OPTIONS	Startup tab	~	
DVANCED FILE SYSTEM IDATAAGENT OPTIONS		~	
DVANCED FILE SYSTEM IDATAAGENT OPTIONS		~	
DVANCED FILE SYSTEM IDATAAGENT OPTIONS	Comments	-	
DVANCED FILE SYSTEM IDATAAGENT OPTIONS	Automatic File System Multi-Streaming		
	On Demand Data Protection Operation		
	Restore by Jobs	✓	
	Restore Data Using a Map File		
	Comments		
LERTS AND MONITORING	Global Alerts	~	
	Job-Based Alerts*	~	
	Comments		
UTOMATIC UPDATES	Automatic Updates	~	
	Comments		
ACKUP/ARCHIVE OPTIONS	Differential Backup	×	
	Full Backup	~	
	Incremental Backup	~	
	Other Backup Types	~	
	Synthetic Full Backup Comments	•	
	Version 7	✓	
ACKWARD COMPATIBILITY	Version 8	~	
	Version 9	-	
	Comments		
	Browse from Copy Precedence	✓	
ROWSE			
	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	✓	
	Subclient Browse	✓	
	Use MediaAgent	~	
	View All Versions	~	
	Comments		
LUSTERING	Netware cluster		
	Unix Cluster		
	Windows - Microsoft Cluster (MSCS) Windows - Non-Microsoft Cluster		L

	Comments	1	
	Command Line Interface	~	
COMMAND LINE INTERFACE	Commente		
	Comments Qcreate - Backup set/SubClient		
COMMAND LINE INTERFACE - SPECIFIC COMMANDS	Queate - Dackup set/Subclient		
	Qcreate - Instance		
	Qdelete - Backup set/Subclient		
	Qdelete - Client/Agent Qlist globalfilter		
	Qmodify - instance		
	Qoperation - Backup	~	
	Qoperation - move		
	Qoperation - Restore		
	Comments		
COMMCELL MIGRATION	CommCell Migration	~	
	Comments		
	Offline Content Indexing		
CONTENT INDEXING			
	Comments Resis Retention Pulse	~	
DATA AGING	Basic Retention Rules	•	
	Extended Retention Rules	 ✓ 	
	Unique Data Aging Rules		
	Comments		
DATA CLASSIFICATION ENABLER	Data Classification Enabler		
	Comments		
	Client Compression	~	
DATA COMPRESSION		~	
	Hardware Compression MediaAgent Compression		
	Comments		
	Data Encryption Support	~	
DATA ENCRYPTION			
	Third-party Command Line Encryption Support		
	Comments		
	Multiplexing	~	
DATA MULTIPLEXING			
	Comments Media Agent Deduplication	~	
DEDUPLICATION	MediaAgent Deduplication	•	
	Source Deduplication	 Image: A set of the set of the	
	Comments		
ERASE BACKUP/ARCHIVED DATA	Erase Data by Browsing		
	Erase Stubs		
	Comments		
	Global Filters		
GLOBAL FILTERS	Commonto		
	Comments Custom Package	~	
INSTALLATION	_		
	Decoupled Install		
	Remote Install	~	
	Restore Only Agents Silent Install	~	
	Comments	*	
	Install 32-bit On x64		
INSTALLING 32-BIT COMPONENTS ON A MICROSOFT			
WINDOWS X64 PLATFORM	Comments		
	Not Restartable		
JOB RESTART - DATA PROTECTION			
	Restarts from the Beginning		
	Restarts from the Beginning of the Database		
	Restarts from the Point-of-Failure	~	
	Comments Not Restartable		
JOB RESTART - DATA RECOVERY			

	Restarts from the Beginning of the Database		
	Restarts from the Point-of-Failure	✓	
	Comments		
IST MEDIA	List Media Associated with a Specific Backup Set or Instance	~	
	List Media Associated with Index	\checkmark	
	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		
RESTORE/RECOVER/RETRIEVE DESTINATIONS	Cross-Application Restores (Different Application version)		
	Cross-Platform Restores - Different Operating System	~	
	Cross-Platform Restores - 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 path/ destination		
	- Different Client		
	Restore Data Using a Map File Restore to Network Drive /NFS-Mounted File		
	System		
	Comments	~	See Restore Destinations for this iDataAgent.
RESTORE/RECOVER/RETRIEVE OPTIONS	Automatic Detection of Regular Expressions	~	
	Filter Data From Recover Operations	 Image: A start of the start of	
	Rename/ Redirect Files on Restore		
	Restore Data Using Wildcard Expressions	 Image: A second s	
	Restore Data with Pre/Post Processes		
	Restore from Copies		
	Skip Errors and Continue Use Exact Index	`	
	Use MediaAgent		
	Comments	-	
RESTORE/RECOVER/RETRIEVE OVERWRITE OPTIONS	Overwrite Files	~	
· · ·	Overwrite if file on media is newer	✓	
	Restore only if target exists	✓	
	Unconditional Overwrite	✓	
	Unconditionally overwrite only if target is a DataArchiver stub		
	Comments	-	
SCHEDULE POLICY	Agent Specific Data Protection Schedule Policy	~	
	All Agent Types Schedule Policy Comments	~	
	Incremental Storage Policy*	~	
STORAGE POLICIES		✓	1
STORAGE POLICIES	Standard Storage Policies	-	
STORAGE POLICIES	Comments		
STORAGE POLICIES	Comments Data Verification	 ✓ 	
	Comments Data Verification Job Based Pruning	<i>v</i>	
	Comments Data Verification Job Based Pruning Manual Retention	✓ ✓ ✓	
	Comments Data Verification Job Based Pruning Manual Retention Mark Job Disabled	✓ ✓ ✓ ✓	
	Comments Data Verification Job Based Pruning Manual Retention Mark Job Disabled Selective Copy	✓ ✓ ✓	
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	Comments Data Verification Job Based Pruning Manual Retention Mark Job Disabled Selective Copy	✓ ✓ ✓ ✓	
STORAGE POLICY COPIES	Comments Data Verification Job Based Pruning Manual Retention Mark Job Disabled Selective Copy Comments	✓ ✓ ✓ ✓	

	Unix - Remote (Push)		
	Unix/Linux/Macintosh - Local		
	Unix/Linux/Macintosh - Silent		
	Upgrade from CommCell Console	>	
	Windows - Local	>	
	Windows - Remote (Push)		
	Windows - Silent		
	Comments		
USER ADMINISTRATION AND SECURITY	Backup Set/Archive Set	>	
	Subclient	>	
	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 - Data Protection Manager Deployment



<u>C</u>ancel

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 Data Protection Manager.

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

	Select the language you will use during installation.	
	<u>N</u> ext >	
which		
	Install Software on this computer Advanced options	

View documentation website

Install Adobe Acrobat Reader

RELATED TOPICS

System Requirements

Firewall

Download Software Packages

Download the latest software package to perform the install.

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

Provides comprehensive information on firewall.

3. 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.

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

			⊜ Exit
Installer			
License Agreement Please read the following License Agree the PAGE DOWN key to view the entire			
End User License and	d Limited War	ranty Agreemer	nt
	e Release 9.0.0	•	
(including Microsoft® SQL Ser 2008 Express Edition and V			
I accept the terms in the license a	areement.	~~**	
I do not accept the terms in the lic Installer	-		
Installer	< Back	Next>	Cancel

View Install Quick Start Guide (Requires Adobe Acrobat Reader)

5. Expand Client Modules | Backup & Recovery and select Data Protection Manager.

When you select the Microsoft Data Protection Manager *i*DataAgent for installation, the Windows File System *i*DataAgent and the SQL Server *i*DataAgent are automatically installed.

The Windows File System *i*DataAgent is mandatory, however the SQL Server *i*DataAgent is not mandatory, but it is recommended that you install it or create a new instance (if it is already installed) to protect the Data Protection Manager database for disaster recovery purposes.

Click Next.

 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**.

7.	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:

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

8. Click Next.

nstaller					
Select Platforms					
Select the platforms you	want to configur	e.			
Common Tech Common Tech Common Commo	ve Modules Console nt Modules s Recovery idexing and Sea ed Search & Broy anagement isD ataReplicator g Modules	wse		platform nar description reasons wh disabled. — Disk Spac (Req/Recc Installatio 01 Temporar 01	of the platform and y it may be ce mmended)
Installer Firewall Configurati Configure firewall service					
If there is a firewall betw	een this machine	e and the CommSe	rve, conf	igure firewall	services below.
Configure firewall ser					
Please specify how Wi connection from here t Commerce are block machine, or whether th This machine can op CommServe can op CommServe is reach	indows Firewall i o a CommServe' ed, and setup sh lere is a Proxy in pen connection to en connection to	s tunnel port, whe ould instead exper between. to CommServe on ward this machine	her all co x CommS tunnel po	nnections to erve to conn	sible to open ward ect back to this
Installer			N	ext >	Cancel
Installer					×
Installer CommServe Name Specify the CommServe name	computer name	and host			X
CommServe Name Specify the CommServe		and host			
CommServe Name Specify the CommServe name		and host			X
CommServe Name Specify the CommServe name CommServe Cli CommServe Ht [Enter a vaid, f	ient Name ost Name	and host	mple:		
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CommServe Name Specify the CommServe name CommServe Cli CommServe Ht (Enter a valid, f mycomputer my	ient Name ost Name fully-qualified, IP vcompany.com)		mple:		×
CommServe Name Specify the CommServe name CommServe Cli CommServe Ht (Enter a valid, f mycomputer my	ient Name ost Name fully-qualified, IP vcompany.com)	host name; for exa			
CommServe Name Specily the CommServe In CommServe Cli CommServe Hi Enter a valid, mycomputer.m	ient Name ost Name fully-qualified, IP vcompany.com)			ext >	Cancel
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CommServe Name Specily the CommServe In CommServe Cli CommServe Cli Ficher a valid, mycomputer.m Installer	ient Name set Name ullp-qualified, IP company.com ycompany.com	host name; for exe		ext>	Cancel
CommServe Name Specify the CommServe II CommServe II Enter a vali, mycomputer.m Installer Installer Communication Inte Setup will configure the co	ient Name set Name ullp-qualified, IP company.com ycompany.com	host name; for exa		ext>	Cancel
CommServe Name Specify the CommServe Cit CommServe Cit CommServe Cit Firler a valid, mycomputer.m Installer Installer Communication Inte Setup will configure the cit	ent Name ost Name ully-qualified, IP ully-qualified, IP vecompary.com ycompary.com ycompary.com rface Name communication p	host name; for exa		***	Cancel
CommServe Name Specify the CommServe Cli CommServe Cli CommServe Cli Ficher a valid, mycomputer.m Installer Installer Communication Inte Setup will configure the c	ent Name bit Name wid-publied. (P vcompany.com) ycompany.com ycompany.com inface Name formunication p Select a client no soci_col Select an interface	host name; for exa	No	T	Cancel
CommServe Name Specify the CommServe Cil CommServe Cil CommServe Cil CommServe Cil Installer Installer Communication Inte Setup will configure the cil Cil Communication Inte Cil	ent Name sst Name ulip-qualified, IP vycompany.com vycompany.com rface Name scommunication p Select a client na sud _ cr) Select an interfa- communicate with	host name; for exa kost name; for exa kost and kost and back anne back ce name that this has back compServe	No	▼ will use to	Cancel
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CommServe Name Specify the CommServe Cli CommServe Cli CommServe Cli Enter a vald, mycomputer.m Installer Installer Communication Inte Setup will configure the c	ent Name ost Name ost Name vije-qualified, IP vije-	host name; for exa kost name; for exa kost and kost and back anne back ce name that this h the CommServe	N	▼ will use to	Cancel
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 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 Kext > Cancel
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.	Select the devolution node to invariance programmes.
 Do not install the software to a mapped network drive. 	Click Next to accept the default location, or click Browse to choose an alternate location.
 Do not use the following characters when specifying the destination 	Destination Folder
path:	C:\Program Files\Browse
/:*?"<> #	
It is recommended that you use alphanumeric characters only.	Drive List Space Required / Recommended C: 928 MB 1394 MB / 1670 MB
	Installer Kext Cancel
Select a Client Group from the list	
Select a Client Group from the list.	Installer Client Group Selection
Click Next.	Installer Client Group Selection Select a client group for the client.
	Client Group Selection
Click Next . This screen will be displayed if Client Groups are configured in the	Client Group Selection 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.
Click Next . This screen will be displayed if Client Groups are configured in the	Client Group Selection 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:
Click Next . This screen will be displayed if Client Groups are configured in the	Client Group Selection 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.
Click Next . This screen will be displayed if Client Groups are configured in the	Client Group Selection 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
Click Next . This screen will be displayed if Client Groups are configured in the	Client Group Selection 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
Click Next . This screen will be displayed if Client Groups are configured in the	Client Group Selection 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: Nore Selected client_group Installer < Back Next> Cancel
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13. Click Next.

10.

11.

12.

X

14. 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 19.

15. Click Next.

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

16. Click Next.

17. Click Next.

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Select Global Filter Options	
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Select auto discovery option for SQL	

18. Click Finish.



If you already have a storage policy selected in step 14, 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.

- 19. 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.

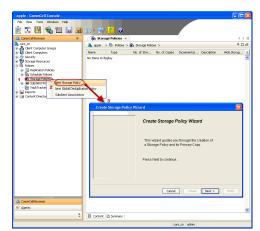
- From the **MediaAgent** list, click the name of a MediaAgent that will be used to create the primary copy and then click **Next**.
- $\circ\;$ For the device streams and the retention criteria information, click Next to accept default values.
- $\circ~$ Select Yes to enable deduplication for the primary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

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

METHOD 2: INSTALL SOFTWARE FROM COMMCELL CONSOLE

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



2. Click Next.

3. Select Windows. Click Next.

4. Select Manually Select Computers. Click Next.

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5. Enter the fully qualified domain name of the computer on which SQL Server resides.

For example: apple.domain.company.com
Click Next.

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 Data Protection Manager.

When you select the Microsoft Data Protection Manager *i*DataAgent for installation, the Windows File System *i*DataAgent and the SQL Server *i*DataAgent are automatically installed.

The Windows File System *i*DataAgent is mandatory, however the SQL Server *i*DataAgent is not mandatory, but it is recommended that you install it or create a new instance (if it is already installed) to protect the Data Protection Manager database for disaster recovery purposes.

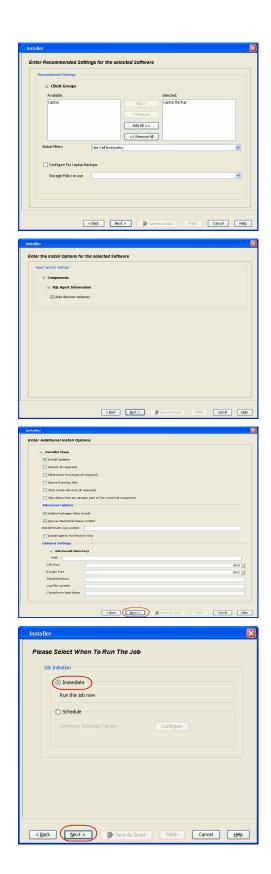
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- Select Client Group from Available and click Add.
 - From Storage Policy to use list, click storage policy.
 - Click Next.

9.



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.

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14. You can track the progress of the job from the **Job Controller** or **Event Viewer** window.

Getting Started - Data Protection Manager Configuration

Previous Next >

CONFIGURATION

1.

Once installed, follow the steps given below to create a new subclient and assign a storage policy with the newly created subclient:

- From the CommCell Browser, navigate to Client Computers | <Client> | DPM.
 - Right-click the defaultBackupSet | All Tasks and click New Subclient.

- Enter the Subclient Name.
 - Click the **Content** tab.

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3. Click Add Path and enter content path, then click OK.

Subclient Properties of user_defined
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Data Storage Policy Data Transfer Option Deduplication
Storage Policy: dpm Data Paths
Incremental Storage Policy: N/A

- 4. 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.

General		Filters	Pre/Post		Securit
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5.

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.
 - $\circ~$ 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**.

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



As the Data Protection Manager *i*DataAgent works in conjunction with the Microsoft Windows File system *i*DataAgent and Microsoft SQL Server *i*DataAgent, you need to configure the Microsoft Windows File system *i*DataAgent and Microsoft SQL Server *i*DataAgent as well in order to perform concurrent backup and restores that can be used for Disaster Recovery in future.

Use the following steps to configure the Microsoft Windows File system *i*DataAgent:

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.

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• 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.

3. 1. Click Create Storage Policy.

- 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.



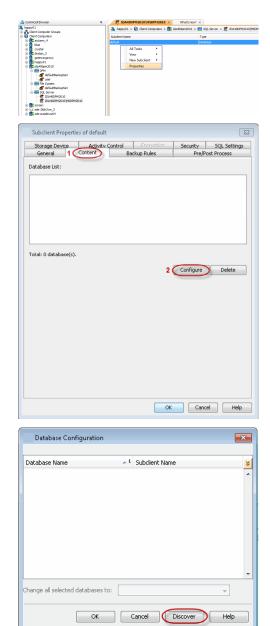
Type the name of the folder in which the deduplication database must be located in the Deduplication Store Location or click the Browse button to select the folder and then click ${\bf Next}.$

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

Use the following steps to configure the Microsoft SQL Server iDataAgent:

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

3. Click Discover.



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.

- 5.
- 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.

▼¹ Subclient Name Database Name default nsdb mode default default aste ReportServer\$MSDPM2010TempDB default ReportServer\$MSDPM2010 default Change all selected databases to: Cancel Discover OK Subclient Properties of default Backup Rules Pre/Post Process irity SQL Set Storage Device Activity Control Data Storage Policy Log Storage Policy Data Transfer Option Deduplication orage Policy Create Storage Policy Number of streams for data backup: 2 -

Database Configuration

ge policy be used for < Cancel < Back Next >

- Create a Storage Policy: 6.
 - 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:
 - o 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.
 - o 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.

- o 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.
- $\circ~$ 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.



x

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Help

Data Paths

OK Cancel Help

X

Getting Started - Data Protection Manager Backup

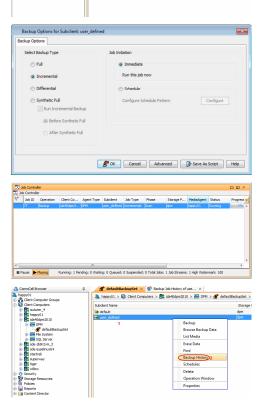
Previous Next >

WHAT GETS BACKED UP	WHAT DOES NOT GET BACKED UP
 Replicas of selected data source created by DPM server. Individual files and folders protected by the Data Protection Manager. 	 Data Protection Manager protection groups are not backed up. The following data backed up on the Data Protection Manager Server does not get backed up using the Data Protection Manager <i>i</i>DataAgent File System data System State data Use the Microsoft Windows File System <i>i</i>DataAgent to back up the database that contains the DPM metadata. Data Protection Manager Server Metadata is not backed up by the Data Protection Manager <i>i</i>DataAgent. Use the SQL Server <i>i</i>DataAgent to back up the database that contains the DPM metadata.

- From the CommCell Browser, navigate to Client Computers | <Client> | DPM | <BackupSet>.
 - Right-click the subclient you created while configuring the agent and click **Backup**.

2. Click OK.

- 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**.



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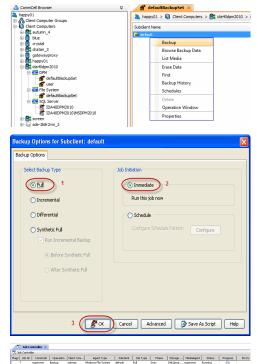
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- 6. Right-click the job to:
 - Browse the data that was backed up.
 - Find a Files or Directories that were backed up.
 - View items that failed, if any, during the job.
 - Resubmit the job.
 - View job details.
 - View media associated with the job.
 - View events associated with the job.
 - View backup items.
 - View or send the log file that is associated with the job.

You must also backup the File System Data and System State of the data backed up by DPM Server using the Microsoft Windows File System *i*DataAgent. Use the following steps to backups the file system data and system state data of DPM Server using the Microsoft Windows File System *i*DataAgent:

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



- 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

1.

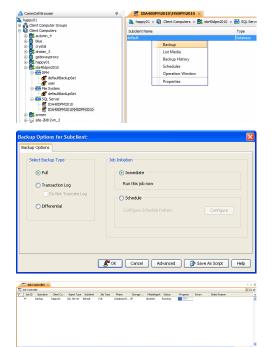
2.

• Click OK.

• Media associated with the job

Also, the SQL Server metadata of DPM Server needs to be backed using the Microsoft SQL Server iDataAgent.

- From the CommCell Browser, navigate to Client Computers | <Client> | SQL Server | <Instance>.
 - Right-click the default subclient and click Backup.



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• Click Full as backup type and then click Immediate.

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.
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5. Click OK.

- 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 - Data Protection Manager Restore

< Previous Next >

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 DPM Server data to a new location.

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

3.

- 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.

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

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

Click OK. 8.

- You can view the following details about the job by right-clicking the job: 9.
 - 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 DPM Server data is restored, verify that the restored files/folders are available in the restore destination provided during step 4.

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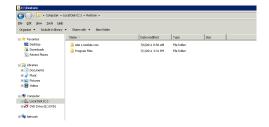
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Storage Policy



You must also restore the File System Data and System State data of the DPM Server backed up by the Microsoft Windows File System iDataAgent and the SQL Server metadata of DPM backed up by Microsoft SQL Server iDataAgent

Use the following steps to restore the file system data backed up by the Microsoft Windows File System iDataAgent:

- 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.

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

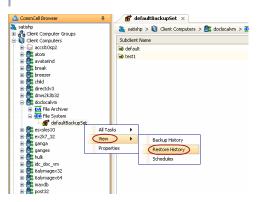
For the first restore job, select any folder with smaller data size.

- Click Recover All Selected.
- 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.

Restore Options for All Selected Items		
General Jub Initiation	Browsing for destination folder on	<u> </u>
Construction Construction Construct File Construct Fi		e Size T Mod X
Recreate Mount Points	5 OK Close New Fold	ier
Restore Destination	K	
Destination client submay Pestore to same folder Specify destination path		
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Preserve Source Paths		3
	🚰 OK Cancel Advanced 🕑 Sav	e As Script Help
Restore Options for All Selected Items		×

Seneral Job Initiation
Job Initiation
 ⊙ Immediate
Run this job now
O Schedule
Configure Schedule Pattern Configure
Cancel Advanced 🕼 Save As Script Help
5. Job Costroller ×
No Controller
s Job ID CommCell Operation Client Com Agent Type Subdient Job Type Phase Storage P Hediologent Status Progress R agenney Pastore Juliency Windows File System Bestore Burning Strip



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

- You can monitor the progress of the restore job in the Job Controller window of the CommCell Console.
- 7. Once the restore job has completed, right-click the **defaultBackupSet** , point to **View** and then click **Restore History**.

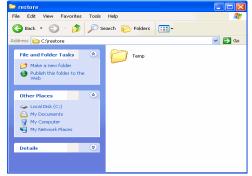
Restore History Filter for: defaultBackupSet	×
Destination Client Computer:	
All Clients 💙	
Specify Time Range	
Time Zone: (GMT+05:30) Chennai, Kolkata, Mumbai, 💌	
Start Time End Time	
Je 02/01/2011 ed 02/02/2011	
11:02 PM 11:02 PM	
Job Type	
✓ Recovery/Retrieve ✓ Stub Recall	
Job Status	
All Ocompleted Failed Killed	
OK Cancel Advanced Help	

f defaultBackupSet × 😵 🖡 Recover Jobs Stub Recall Jobs

- 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.

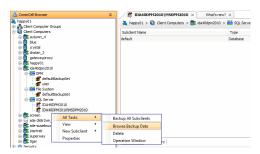
- View Job Details
- View Events of the restore job.
- View Log files of the restore job
- **10.** Once the File System is restored, verify that the restored files/folders are available in the restore destination provided during step 4.



Failed

Use the following steps to restore the SQL Server Metadata backed up by the Microsoft SQL Server iDataAgent:

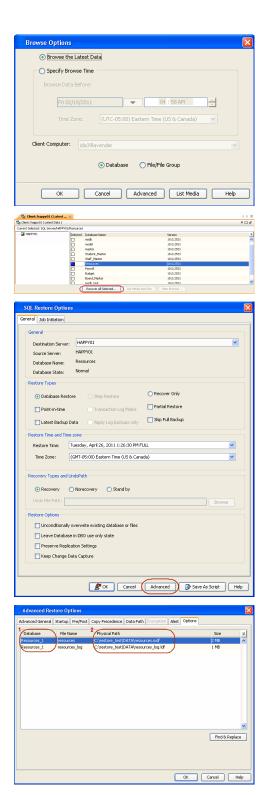
- 1. From the CommCell Browser, navigate to Client Computers | <Client> | SQL Server.
 - Right-click the instance and then click **All Tasks | Browse Backup Data**.



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

3	2

- 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.



- 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**.

9. Click OK.

- **10.** 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.

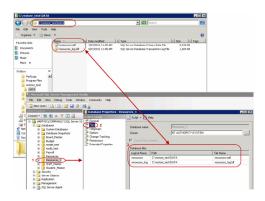
- View Job Details
- View Events of the restore job.
- View Log files of the restore job
- View Job Path

Destination Server:	HAPPY01
Source Server: Database Name:	HAPPY01 Resources_1
Database State:	NOTEXIST
Restore Types	
 Database Resto 	e Step Restore ORecover Only
Point-in-time	Transaction Log Marks
Latest Backup D	ata Apply Log backups only Skip Full Backup
Restore Time and Time	2019
Restore Time:	uesday, April 26, 2011 1:26:30 PM FULL
Time Zone:	GMT-05:00) Eastern Time (US & Canada)
Recovery Types and U	ndoPath
) Norecovery 🔘 Stand by
Undo File Path:	Browse
Restore Options	
	verwrite existing database or files
	in DBO use only state
Preserve Replica	
C keep change ba	
	Cancel Advanced Save As Script Help
Job Controller ×	4 b == 0
30b ID Operation Client Co., 65 Backup happy01 75 Restore happy01	Agent Type Subdent Job Type Phase Storage NeckaAgent Subter Progress Errors C V SQL Server Files and PfL Transaction
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suse Flaying Running: L P	nding: 1 Waiting: 0 Queued: 0 Suspended: 0 Total Jobs: 2 Job Streams: 1 High Watermark: 100
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1 CA File System	
Security	All Tasks View Backup History
Policies	Properties 3 Restore History
🖬 Reports 〕 Content Director	Schedules
	Content 👔 Summary
	Job Controller ×
	Fl Job ID Operation Client Co Agent Type Subclient 3
Restore Histo	ory Filter for: SQL Server 🛛 🔀
Destination Client	Computer:
All Clients	✓
Specify Tim	e Range
Time Zener	(CMT_0E_00) Eachern Time (US_9, Canada)
Time Zone;	(GMT-05:00) Eastern Time (US & Canada)
Start Time	End Time
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OK	Cancel Advanced Help
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	View Job Details mailed

View Events View Logs Send Logs

eral Job Initiation

- Send Logs
- Resubmit Job
- **11.** Once the database is restored, verify that the restored database and log files are available in the restore destination provided during step 5.



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.

