Quick Start Guide - Exchange Mailbox iDataAgent

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INTRODUCTION

The Exchange Server iDataAgents provide a unified protection and recovery vehicle for all Exchange data in your enterprise. In addition to complete protection of entire Exchange databases for disaster recovery, more granular backup and recovery options are available for mailboxes and public folders. Added options for Outlook integration, deduplication, content indexing, and advanced reporting help ensure all your Exchange data is easily traceable and retrievable whenever the need arises.

KEY FEATURES

The Exchange Server iDataAgents offer the following key features:

DATABASE PROTECTION FOR DISASTER RECOVERY

The Exchange Database iDataAgent backs up each Exchange database, which includes the following key components:

- Information Stores containing individual user mailboxes
- Public Folder Stores containing data shared among multiple users
- Transaction Logs

In the event of a serious system failure, such as the breakdown of hardware, software, or operating systems, the Exchange Database iDataAgent provides point-in-time recovery of a given database, ensuring that the state of the Exchange Database as it existed at any given time is ready for use whenever necessary.

GRANULAR PROTECTION OF MESSAGES AND MAILBOX ITEMS

The Exchange Mailbox iDataAgent backs up individual mailboxes for quick retrieval of individual mailbox data, such as messages and attachments, that may have been lost from a user's Outlook mailbox. Regular backups of mailboxes also provide the facility to quickly restore entire mailboxes without requiring restores of the Exchange database.

GRANULAR PUBLIC FOLDER PROTECTION FOR SHARED INFORMATION

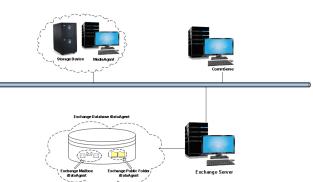
The Exchange Public Folder iDataAgent backs up public folders for quick retrieval of shared data between Exchange users, such as group documents, messages, attachments, and calendars. As with the Exchange Mailbox iDataAgent, regular backups of mailboxes also provide the facility to quickly restore any number of public folders without requiring restores of the Exchange database.

ADD-ON COMPONENTS

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.

OUTLOOK ADD-IN



WHERE TO GO NEXT

Install the Exchange iDataAgents

Walks you through the process of installing the Exchange Agents.

Outlook Add-In fully integrates with Microsoft Outlook to provide users with a convenient way to browse, search and restore mailbox items directly from Outlook. All mailbox entities, including messages, attachments, calendar items, and notes, are retrievable from either the locally installed Outlook application or the Outlook Web Access web browser application.



OFFLINE DATABASE RESTORE

Offline Database Restore using the Exchange Offline Mining Tool provides Exchange users with the ability to restore mail messages, attachments, and other mailbox entities from an offline copy of the Exchange database. This capability is especially useful in environments where the Exchange Server experiences significant day-to-day overhead. By providing users with an offline copy of the Exchange database to retrieve their data, the Exchange Server does not experience the reduction in performance it otherwise would if users retrieved their data from it directly.



DESKTOP BROWSE

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

CONTENT INDEXING AND SEARCH

Content Indexing and Search enables users to content index their data and later search the data from a user-friendly web interface. The users can also perform restore operations or other advanced actions on the searched data.

TERMINOLOGY

The Microsoft Exchange Server iDataAgent documentation uses the following terminology:

DATABACE	Includes all operational elements of the Exchange Server, such as Stores, Transaction Logs, Patch Files, and Exchange Organizational Data.
	A computer other than the Exchange Server on which the Mailbox and Public Folder iDataAgents may be installed. Using a non- Exchange Server often results in less overhead on the Exchange Server during backup and restore operations.
	An association between two entities used in Automatic Discovery scenarios. For example, automatic discovery of mailboxes by database affinity implies the mailbox is included in the selected database.

CUSTOMIZED FEATURES FOR YOUR EXCHANGE VERSION

The **Advanced** pages of this documentation outline the features applicable for your version of Exchange in a tabular format for quick access to the documentation you need as shown below:

EXCHANGE 2010	EXCHANGE 2007	EXCHANGE 2003

Sections not listed for a particular version of Exchange are not applicable or supported for that Exchange version.

System Requirements - Exchange Mailbox iDataAgent

System Requirements Supported Features

The following requirements are for the Microsoft Exchange Mailbox iDataAgent:

APPLICATION

Microsoft Exchange 2003 32-bit Server up to the latest service pack

Microsoft Exchange 2007 64-bit Server up to the latest service pack

Microsoft Exchange 2010 64-bit Server up to the latest service pack

OPERATING SYSTEM

WINDOWS SERVER 2008

Microsoft Windows Server 2008 x64 Editions*

*Core Editions not supported

WINDOWS SERVER 2003

Microsoft Windows Server 2003 32-bit and x64 Editions with a minimum of Service Pack 1

CLUSTER - SUPPORT

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

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

HARD DRIVE

1 GB of minimum disk space is required for installing the software.

256 MB of free disk space is required for job result directory.

256 MB of free disk space is required for log directory.

MEMORY

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

PROCESSOR

All Windows-compatible processors supported

SUPPORTED COMPONENTS

OWA PROXY ENABLER

The OWA Proxy Enabler is supported on any platform supported by the Microsoft Exchange Server.

OUTLOOK ADD-IN CLIENT

The Outlook Add-In Client is supported with Microsoft Outlook 2003 or higher.

PERIPHERALS

DVD-ROM drive

Network Interface Card

MISCELLANEOUS

The File System iDataAgent will be automatically installed during installation of this software, if it is not already installed. For System Requirements specific to the File System iDataAgent, refer to System Requirements - Microsoft Windows File System iDataAgent.

NETWORK

TCP/IP Services configured on the computer.

MICROSOFT VISUAL C++

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

.NET FRAMEWORK

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

NOTES ON MICROSOFT EXCHANGE SERVER /DATAAGENT INSTALLATION

Microsoft Exchange 2007 64-bit Server Agents are 32-bit MAPI-based Agents installed on a Microsoft Windows x64 platform. See Installing 32-bit Components on a Microsoft Windows x64 Platform for information on installation and configuration requirements for these Agents.

- The Microsoft Exchange 2003 and 2007 Mailbox and Public Folder-based Agents can be installed in two ways:
 - o directly on the Microsoft Exchange Server computer
 - o as Proxy Agents on a separate computer running a supported 32-bit operating system

NOTES ON OUTLOOK OWA PROXY ENABLER INSTALLATION

Prior to configuring Web Access for Exchange 2007 Mailbox/Public Folder Archiver, Exchange WebProxy Archiver Agent, or OWA Proxy Enabler, ensure that the Client Access Role has been configured on the Exchange Server.

NOTES ON OUTLOOK ADD-IN CLIENT INSTALLATION

For Windows clients, JRE 1.7.0_17 is installed automatically with the Outlook Add-In software if it is not already installed.

.NET Framework is needed to support RPC over HTTP connection mode, as well as support for the Exchange Offline Mining Tool. It is not automatically installed by the MSI package and must be manually installed.

Update 331320 must be installed on the client in order to use RPC over HTTP. Contact Microsoft Product Support Services and refer to KB 331320 to obtain this patch.

The Microsoft Visual C++ 2008 Redistributable Package is not automatically installed for MSI installs. However, the required subset of files from Microsoft Visual C++ 2008 Redistributable Package are provided as part of the software and therefore, manual installation is not required.

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

Deployment - Exchange Server Agents

PLANNING YOUR INSTALLATION

The Microsoft Exchange Server Agents can be installed individually or in any combination. However, your installation options will differ depending on your environment and the combination of Agents you intend to install.

To ensure you select the appropriate installation option for your environment, first compile the following information:

EXCHANGE AGENTS TO BE INSTALLED	
For complete protection, it is recommended all Agents be installed in your environment.	
EXCHANGE SERVER VERSION	
The Exchange Server Version can be 2010, 2007, or 2003.	
WILL THE AGENTS BE INSTALLED ON THE EXCHANGE SERVER?	
You can install Agents on the Exchange Server or another computer (Non-Exchange Server). The Database iDataAgent, however, must be installed on the Exchange Server.	
IS THE COMPUTER 32-BIT OR 64-BIT?	
Whether installing on the Exchange Server or a Non-Exchange Server, the bit-rate can be 32-bit or 64-bit.	
WHAT VERSION OF OUTLOOK IS INSTALLED ON THE COMPUTER?	
Outlook must be installed on the computer for all Agents except the Database iDataAgent and can be version 2010 or 2007.	
IS THE OUTLOOK VERSION 32-BIT OR 64-BIT?	
The Outlook bit-rate can be 32-bit or 64-bit.	
WILL YOU BE INSTALLING THE AGENTS IN A CLUSTERED ENVIRONMENT?	

INSTALLATION OPTIONS

Once you have compiled the above information, choose the appropriate installation procedure as described in the tables below.

EXCHANGE SERVER 2013

	OUTLOOK VERSION	INSTALLATION PROCEDURE	SUPPORTED AGENTS
INSTALLING ON THE	EXCHANGE SERVER		
64-bit Exchange Server	N/A	1	Database Agent for Database Availability Group (DAG) Configuration

EXCHANGE SERVER 2010

OUTLOOK	INSTALLATION PROCEDURE	SUPPORTED AGENTS	
VERSION			
INSTALLING ON THE EXCHANGE SERVER			
		Database, Mailbox, and Public Folder iDataAgents	
		Compliance, Mailbox, and Public Folder Archivers	
•		Database, Mailbox, and Public Folder iDataAgents	
		Compliance, Mailbox, and Public Folder Archivers	
	VERSION EXCHANGE SERVER Outlook 2010 64-bit Outlook 2010/2007	VERSION EXCHANGE SERVER Outlook 2010 64-bit	

64-bit Exchange Server	N/A	Install the 64-bit Exchange Agents for Exchange Server 2010 or 2007	Database Agent for Database Availability Group (DAG) Configuration
INSTALLING ON A N	ON-EXCHANGE SERVE	R	
32-bit Non-Exchange Server	Outlook 2010/2007 32-bit	Install the 32-bit Exchange Agents on a Non-Exchange Server	Mailbox and Public Folder iDataAgents Compliance, Mailbox, and Public Folder Archivers
64-bit Non-Exchange Server	Outlook 2010/2007 32-bit	Install the 32-bit Exchange Agents for Exchange Server 2010 or 2007	Mailbox and Public Folder iDataAgents Compliance, Mailbox, and Public Folder Archivers
64-bit Non-Exchange Server	Outlook 2010 64-bit	Install the 64-bit Exchange Agents for Exchange Server 2010 or 2007	Mailbox and Public Folder iDataAgents Compliance, Mailbox, and Public Folder Archivers

EXCHANGE SERVER 2007

SERVER SETUP	OUTLOOK	INSTALLATION PROCEDURE	SUPPORTED AGENTS
	VERSION		
INSTALLING ON TH	E EXCHANGE SERVER		
64-bit Exchange Server	Outlook 2010 64-bit	Install the 64-bit Exchange Agents for Exchange Server 2010 or 2007	Database, Mailbox, and Public Folder iDataAgents
			Compliance, Mailbox, and Public Folder Archivers
64-bit Exchange Server - Cluster	Outlook 2010 64-bit	Install the 64-bit Exchange Agents for Exchange Server 2010 or 2007 - Clustered Environment	Database, Mailbox, and Public Folder iDataAgents
			Compliance, Mailbox, and Public Folder Archivers
64-bit Exchange Server	Outlook 2010/2007 32- bit	Install the 32-bit Exchange Agents for Exchange Server 2010 or 2007	Database, Mailbox, and Public Folder iDataAgents
			Compliance, Mailbox, and Public Folder Archivers
64-bit Exchange Server - Cluster	Outlook 2010/2007 32- bit	Install the 32-bit Exchange Agents for Exchange Server 2010 or 2007 - Clustered Environment	Database, Mailbox, and Public Folder iDataAgents
			Compliance, Mailbox, and Public Folder Archivers
INSTALLING ON A N	ION-EXCHANGE SERVEI		
32-bit Non-Exchange	Outlook 2010/2007 32-bit	Install the 32-bit Exchange Agents on a Non-Exchange Server	Mailbox and Public Folder iDataAgents
Server			Compliance, Mailbox, and Public Folder Archivers
64-bit Non-Exchange		Install the 64-bit Exchange Agents for Exchange Server 2010	Mailbox and Public Folder iDataAgents
Server	64-bit	or 2007	Compliance, Mailbox, and Public Folder Archivers

EXCHANGE SERVER 2003

SERVER SETUP	OUTLOOK VERSION	INSTALLATION PROCEDURE	SUPPORTED AGENTS		
INSTALLING ON THE	INSTALLING ON THE EXCHANGE SERVER				
Exchange Server	Not Required	Install the Exchange Agents on Exchange Server 2003	Database, Mailbox, and Public Folder iDataAgents		
			Compliance, Mailbox, and Public Folder Archivers		
Exchange Server - Cluster	Not Required	Install the Exchange Agents on Exchange Server 2003 - Clustered Environment	Database, Mailbox, and Public Folder iDataAgents		
			Compliance, Mailbox, and Public Folder Archivers		
INSTALLING ON A NON-EXCHANGE SERVER					
Non-Exchange Server	Outlook 2010/2007 32-	Install the Exchange Agents for Exchange Server 2003 on a	Mailbox and Public Folder iDataAgents		
	bit	Non-Exchange Server	Compliance, Mailbox, and Public Folder Archivers		

Install the 64-bit Exchange Agents for Exchange Server 2010 or 2007

✓ Previous Next >

Follow the steps given below to install Exchange Agents on one of the following:

- 64-bit Exchange Server 2010
- 64-bit Exchange Server 2007
- 64-bit Non-Exchange Server

WHERE TO INSTALL

The Exchange Agents can be installed in one of two ways:

- Directly onto the Exchange Server. This method is referred to as an on-host installation and is useful if you want to preserve hardware resources.
- On a separate computer with connectivity to the Exchange Server. This method is referred to as an Non-Exchange Server installation and is useful if you want to offload the memory and processing resources required for backups and restores from the Exchange Server.

Install the Exchange Agents on all the nodes on which backups have to be run in a DAG configuration.

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 System Requirements network drive.

METHOD 2: INSTALL SOFTWARE FROM COMMCELL CONSOLE

Use this procedure to remotely install the software on a client computer.

RELATED TOPICS

Download Software Packages

Provides step-by-step procedure to download the latest packages for software install.

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

Firewall

Provides comprehensive information on firewall.

PREREQUISITES

If you are installing the Exchange Agents on a 64-bit off-host proxy computer, perform the following pre-requisite task before installing these agents:

- Ensure that the proxy computer has been added to the same Domain in which the Exchange Server 2007 resides.
- Install Microsoft Outlook 2007 or higher on the off-host proxy computer in order to supply the software drivers necessary for Exchange-based agents to function in an off-host proxy configuration.

FOR EXCHANGE SERVER 2010

- Ensure that the service account is a member of Organization Management group.
- Ensure that the mail-enabled user is a member of the Local Administrator Group and have rights to all mailboxes on the server.

To assign full access follow the steps given below:

- Using ADSIEDIT navigate to Configuration | Services | Microsoft Exchange.
- Right-click your organization name, click Properties | Securities and click the Advanced tab.
- Click Edit to modify the permissions set for Organization Management group.
- Click to select Full Control, Receive As and Send As permissions and wait for replication.
- Click the Effective Permission tab and Select the name of the backup account.
- The backup account should display the following as selected:

Full Control

All Extended Rights

Send As

Receive As

• Start the PowerShell and type the following to add the backup account so it has full control over all the databases:

Get-MailboxDatabase -server (server name) | Add-ADPermission -user "backup account" -ExtendedRights Receive-As

Run the above PowerShell every time a new database is added.

Navigate to the Exchange Management Console, right-click the <mailbox> and click Manage Full Access Permissions to view the mailbox listed under Full Access Permissions.

FOR EXCHANGE SERVER 2007

- Service account should be a member of Exchange Organization Administrators group.
- Ensure that the mail-enabled user is a member of the Local Administrator Group and have rights to all mailboxes on the server.

METHOD 1: INTERACTIVE INSTALL

- 1. Log on to the computer using an account with the following privileges:
 - Administrator of the local computer
 - Administrator of the Exchange Server
- 2. Run **Setup.exe** from the Software Installation Package.
- 3. Select the required language.

Click Next.



4. Select the option to Install Calypso on this 64-bit computer.

Your screen may look different from the example shown.

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



Select the language you will use during installation.



- 6. To install the Exchange iDataAgents expand Client Modules | Backup & Recovery | Exchange, and select one or more of the following:
 - Exchange Database iDataAgent
 - Exchange Mailbox iDataAgent
 - Exchange Public Folder iDataAgent

To install the **Exchange Archiver Agents**, expand **Client Modules | Archive Management**, and select one or more of the following:

- Exchange Compliance Archiver
- Exchange Mailbox Archiver Agent
- Exchange Public Folder Archiver Agent

Click Next.

For Non-Exchange Server, Exchange Database iDataAgent will not be applicable.

Installer

Select Platforms

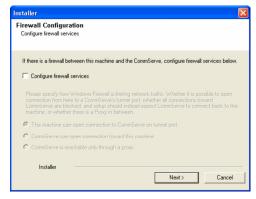
Select the platforms you want to configure.

| Common Technology Engine |

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

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

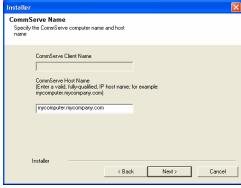
If firewall configuration is not required, click **Next**.



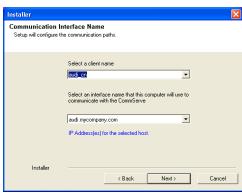
8. Enter the fully qualified domain name of the **CommServe Host Name**.

Click Next.

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



Click Next.



 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 liet

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

11. Verify the default location for software installation.

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.

12. Select a Client Group from the list.

Click Next.

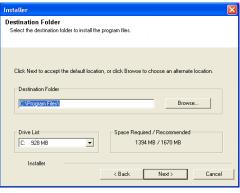
This screen will be displayed if Client Groups are configured in the CommCell Console.

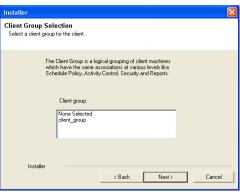
13. Click Next.

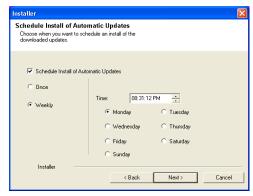
14. Select a Storage Policy.

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

Storage Policy Selection

Gelect a storage policy for the default subclient to be backed up.

Nest >

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

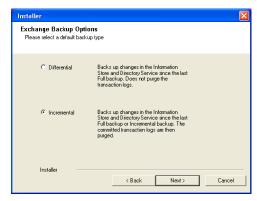
You can create the Storage Policy later in step 24.

- If you are installing the Exchange Database ;DataAgent on the Exchange Server, click Configure Exchange Database Specific Information.
- If you are installing the Exchange Agents on the Non-Exchange Server, skip to Configure Exchange Agents Specific Information.

CONFIGURE EXCHANGE DATABASE SPECIFIC INFORMATION

- Select the backup type for Exchange Database backups. Choose either of the following options, then click Next.
 - Differential Specifies that each non-full Exchange Database backup secures all data that has changed since the last full backup. Transaction lobs are not purged.
 - Incremental Specifies that each non-full Exchange Database backup secures only that data that has changed since the last backup of any type. Committed transaction logs are purged.

- **16.** Enter the user credentials to access the Exchange Server to perform the backup operation.
 - The User Account must have Exchange Administrator privileges.
 - The installation detects the domain name. If necessary, you can modify the domain name by specifying Windows domain that the Exchange Server resides in.





17. Click Next.



0K

- **18.** The install program displays a reminder to verify that Circular Logging is disabled before performing any database backup operations. To verify that Circular Logging is disabled:
 - From Exchange System Manager, navigate to and expand the server that the Database *i*DataAgent is being installed on.
 - Verify that the Circular Logging check box has not been selected for each Storage Group. If Circular Logging has been enabled for a Storage Group, disable it at this time.

Click OK.

- If you are installing the Exchange Agents, then click Configure Exchange Agents Specific Information.
- If you are installing the Exchange Database iDataAgent, skip to Verify Summary of Install Options.

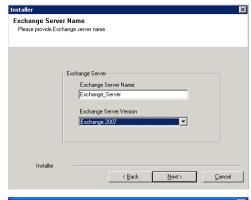
CONFIGURE EXCHANGE AGENTS SPECIFIC INFORMATION

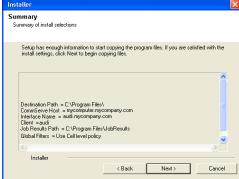
19. Select **Exchange Server Name** and **Exchange Server Version** from drop-down list.

Click Next.

This screen will appear when you are installing Exchange Agents on Non-Exchange Server.

20. Click Next.





- 21. Enter the following Exchange Administrator information then click **Next**.
 - **Account Name** Domain user account created with the exchange server administrator permissions. Do not include the domain name here.
 - Account Password The password assigned to the domain user.
 - Mailbox Name for this Account Mailbox associated with the user above.
 - **Profile Name** Specify profile name to be created during agent install. This profile is associated with the domain user's mailbox.

• Exchange Server Name - Name of the Exchange Server that the agent will communicate with for data protection and recovery operations.

Enter the Mailbox Role Server name (NetBIOS). After installation configure the roles as described in Configure Mailboxes in Database Availability Group (DAG) Servers.

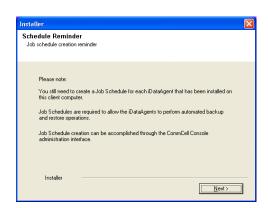
Domain - The installation detects and enters a domain name. If necessary, modify
the domain name by specifying Windows domain that the Exchange Server resides
in

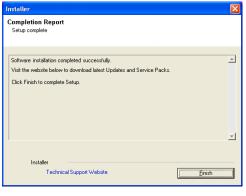


VERIFY SUMMARY OF INSTALL OPTIONS

22. Click Next.

23. Click Finish.



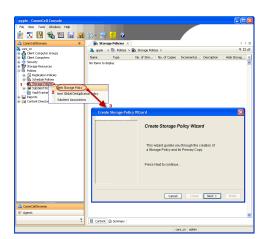




If you already have a storage policy selected in step 14, Click Next > button available at the bottom of the page to proceed to the **Configuration** section.

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

- 24. Create a Storage Policy:
 - $1. \ \ \, \text{From the CommCell Browser, navigate to } \textbf{Policies}.$
 - 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:
 - $\circ\;$ 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.
 - 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 ${\bf MediaAgent}$ 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.

25.

Enable the following registry key to create job specific profiles:

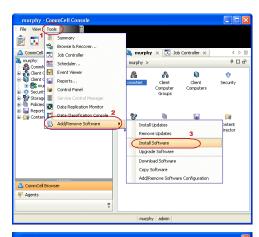
- From the CommCell Browser, navigate to Client Computers.
- Right-click the <Client> in which you want to add the registry key, and then click Properties.
- Click the Registry Key Settings tab.
- · Click Add.
- Enter CreateProcessSpecificProfile in the Name field.
- Enter MSExchangeMBAgent in the Location field. (For Exchange Mailbox iDataAgent).

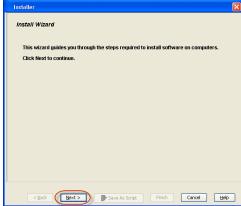
Enter MSExchangeDMAgent in the Location field. (For Exchange Mailbox iDataAgent).

- Enter REG_DWORD in the Type filed.
- Enter 1 to enable and 0 to disable the key in the Value field.
- · Click OK.

METHOD 2: INSTALL SOFTWARE FROM COMMCELL CONSOLE

 From the CommCell Browser, select Tools, point to Add/Remove Software, and then click Install Software.

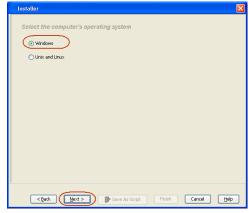




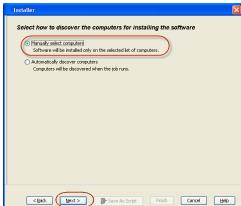
2. Click Next.

Select Windows.

Click Next.



Select **Manually Select Computers**.
Click **Next**.

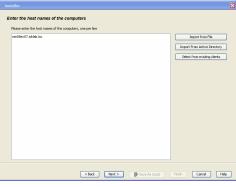


5. Enter the fully qualified domain name of the computer on which you have Exchange Server.

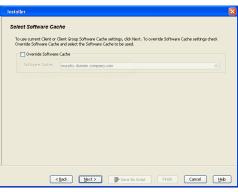
For example: win08ex07.idclab.loc

Click Next.

4.

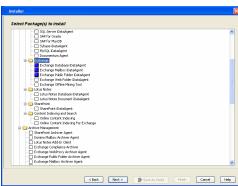


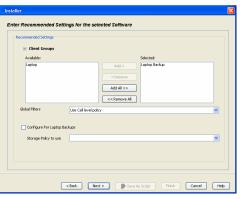
6. Click Next.

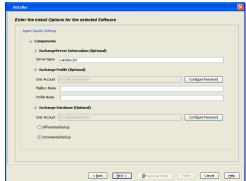


Specify User Name and Password that must be used to access the computer.Click Next.









- 8. To install the Exchange iDataAgents expand Client Modules | Backup & Recovery | Exchange, and select one or more of the following:
 - Exchange Database iDataAgent
 - Exchange Mailbox iDataAgent
 - Exchange Public Folder iDataAgent

Click Next.

For Non-Exchange Server, Exchange Database $i\mathsf{DataAgent}$ will not be applicable.

• Select Client Group from Available and click Add.

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

NOTES:

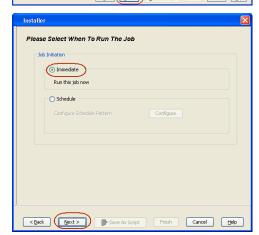
 Select the Configure for Laptop or Desktop Backup option to install Backup Monitor utility. This utility allows you to view the backup job summary from the client computer without opening the CommCell Console. See Monitor - Laptop User for more information.

10. Type the Agent Specific Settings information.

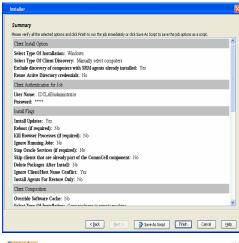
Click Next.

11. Click Next.

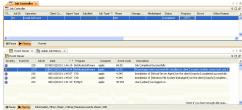
12. Select Immediate.
Click Next.



13. Click Finish.



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



15. Once the job is complete, right-click the **CommServe** computer, click **View** and then click **Admin Job History**.

16. Select Install/Upgrade/Remove Software.

Click OK.

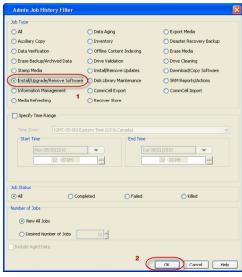


- Items that succeeded during the job
- Items that failed during the job
- Details of the job
- Events of the job
- Log files of the job
- **18.** Enable the following registry key to create job specific profiles:
 - From the CommCell Browser, navigate to Client Computers.
 - Right-click the <Client> in which you want to add the registry key, and then click Properties.
 - Click the Registry Key Settings tab.
 - Click Add.
 - Enter CreateProcessSpecificProfile in the Name field.
 - Enter MSExchangeMBAgent in the Location field. (For Exchange Mailbox iDataAgent).

Enter MSExchangeDMAgent in the Location field. (For Exchange Mailbox iDataAgent).

- Enter REG_DWORD in the Type filed.
- Enter 1 to enable and 0 to disable the key in the Value field.
- Click OK.









Install the 64-bit Exchange Agents for Exchange Server 2007 - Clustered Environment

✓ Previous Next ➤

Follow the steps given below to install the 64-bit Exchange Agents on Exchange Server 2007 or on Non-Exchange Server in a clustered environment.

WHERE TO INSTALL

The Exchange Agents can be installed in one of two ways:

- Directly onto the Exchange Server. This method is referred to as an on-host installation and is useful if you want to preserve hardware resources.
- On a separate computer with connectivity to the Exchange Server. This method is referred
 to as an Non-Exchange Server installation and is useful if you want to offload the memory
 and processing resources required for backups and restores from the Exchange Server.

RELATED TOPICS

Download Software Packages

Provides step-by-step procedure to download the latest packages for software install.

System Requirements

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

Firewall

Provides comprehensive information on firewall.

PREREQUISITES

If you are installing the Exchange Agents on a 64-bit off-host proxy computer, perform the following pre-requisite task before installing these agents:

- Ensure that the proxy computer has been added to the same Domain in which the Exchange Server 2007 resides.
- Install Microsoft Outlook 2007 or higher on the off-host proxy computer in order to supply the software drivers necessary for Exchange-based agents to function in an off-host proxy configuration.

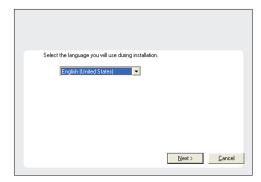
The below mentioned prerequisites are for Mailbox Agents only. Ensure that you have the following:

- Service account is a member of Exchange Organization Administrators group.
- The mail-enabled user is a member of the Local Administrator Group and have rights to all mailboxes on the server.
- Ensure that you assign full access to all mailboxes on the server. For details, see How do I Assign Full Access to All Mailboxes on a Server.

INSTALL PROCEDURE

- 1. Log on to the computer using an account with the following privileges:
 - Administrator of the local computer
 - Administrator of the Exchange Server
- 2. Run **Setup.exe** from the Software Installation Package.
- 3. Select the required language.

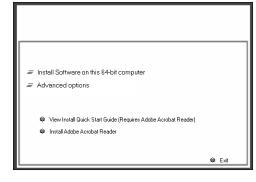
Click Next.



4. Select the option to Install Calypso on this 64-bit computer.

NOTES:

• Your screen may look different from the example shown.



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

Click Next.

6. Select Configure a Virtual Server.

Click Next.

7. Select the disk group in which the virtual server resides.

Click Next.

- 8. To install the Exchange iDataAgents expand Client Modules | Backup & Recovery | Exchange, and select one or more of the following:
 - Exchange Database iDataAgent
 - Exchange Mailbox iDataAgent
 - Exchange Public Folder iDataAgent

To install the **Exchange Archiver Agents**, expand **Client Modules | Archive Management**, and select one or more of the following:

- Exchange Compliance Archiver
- Exchange Mailbox Archiver Agent
- Exchange Public Folder Archiver Agent

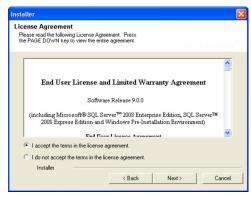
Click Next.

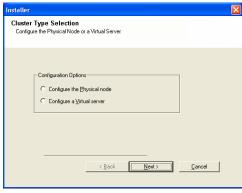
For Non-Exchange Server, Exchange Database $i\mathsf{DataAgent}$ will not be applicable.

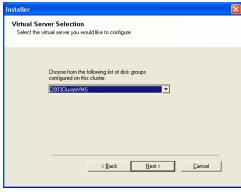
 If this computer and the CommServe is separated by a firewall, select the Configure firewall services option and then click Next.

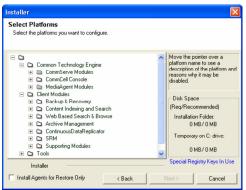
For firewall options and configuration instructions, see Firewall Configuration and continue with the installation.

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









Firewall Configuration
Configure frewall services

If there is a frewall between this machine and the CommServe, configure frewall services below.

Configure frewall services

Please specify how Windows Frewall is limiting network traffic. Whether it is possible to open connection from here to a CommServe's turnel port, whether all connections toward CommServe are blocked, and setup should stread expect CommServe to connect back to this machine, or whether there is a Proy in between

This machine can open connection to CommServe on turnel port.

CommServe can open connection toward this machine.

CommServe can open connection toward this machine.

CommServe is reachable only through a prowy

Installer

Next > Cancel

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. Click Next.



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.

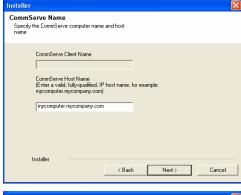
13. Verify the default location for software installation.

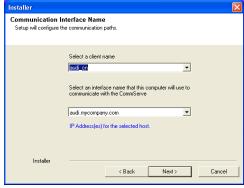
Click **Browse** to change the default location.

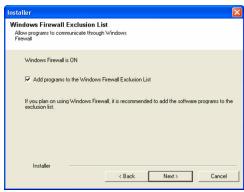
Click Next.

- 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.

14. Select a Client Group from the list.

Click Next.

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

15. Click Next.

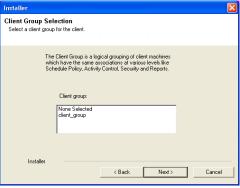
16. Select a Storage Policy.

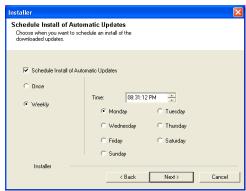
Click Next.

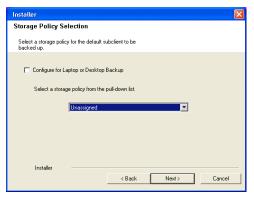
If you do not have Storage Policy created, this message will be displayed. Click \mathbf{OK} .

You can create the Storage Policy later in step 31.











• If you are installing the Exchange Database iDataAgent on the Exchange Server, click Configure Exchange Database Specific Information.

• If you are installing the Exchange Agents on the Non-Exchange Server, skip to Configure Exchange Agents Specific Information.

CONFIGURE EXCHANGE DATABASE SPECIFIC INFORMATION

- Select the backup type for Exchange Database backups. Choose either of the following options, then click Next.
 - **Differential** Specifies that each non-full Exchange Database backup secures all data that has changed since the last full backup. Transaction lobs are not purged.
 - Incremental Specifies that each non-full Exchange Database backup secures
 only that data that has changed since the last backup of any type. Committed
 transaction logs are purged.
- **18.** Enter the user credentials to access the Exchange Server to perform the backup operation.
 - The User Account must have Exchange Administrator privileges.
 - The installation detects the domain name. If necessary, you can modify the domain name by specifying Windows domain that the Exchange Server resides in.



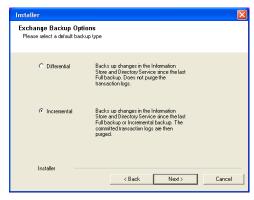
- **20.** The install program displays a reminder to verify that Circular Logging is disabled before performing any database backup operations. To verify that Circular Logging is disabled:
 - From Exchange System Manager, navigate to and expand the server that the Database *i*DataAgent is being installed on.
 - Verify that the Circular Logging check box has not been selected for each Storage Group. If Circular Logging has been enabled for a Storage Group, disable it at this time.

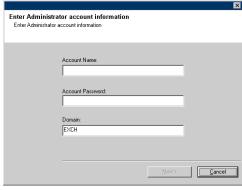
Click OK.

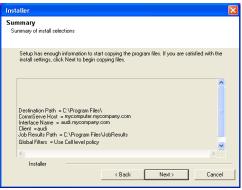
- If you are installing the Exchange Agents, then click Configure Exchange Agents Specific Information.
- If you are installing the Exchange Database *i*DataAgent, skip to Install Remaining Cluster Nodes.

CONFIGURE EXCHANGE AGENTS SPECIFIC INFORMATION

21. Select Exchange Server Name and Exchange Server Version from drop-down list.









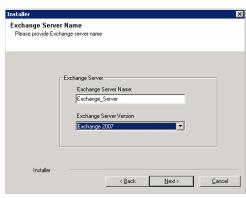
Click Next.

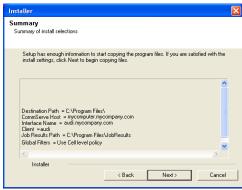
This screen will appear when you are installing Exchange Agents on Non-Exchange Server.

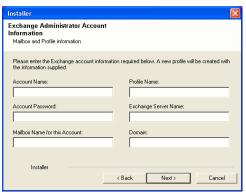
22. Click Next.



- **Account Name** Domain user account created with the exchange server administrator permissions. Do not include the domain name here.
- Account Password The password assigned to the domain user.
- Mailbox Name for this Account Mailbox associated with the user above.
- **Profile Name** Specify profile name to be created during agent install. This profile is associated with the domain user's mailbox.
- Exchange Server Name Name of the Exchange Server that the agent will communicate with for data protection and recovery operations.
- Domain The installation detects and enters a domain name. If necessary, modify the domain name by specifying Windows domain that the Exchange Server resides in.







INSTALL REMAINING CLUSTER NODES

24. To install the software on the remaining nodes of the cluster, click **Yes**.

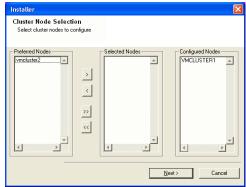
To complete the install for this node only, click No.

25. 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.





26. 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.



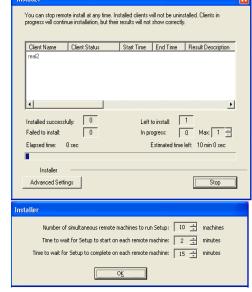
27. The progress of the remote install for the cluster nodes is displayed; the install can be interrupted if necessary.

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.

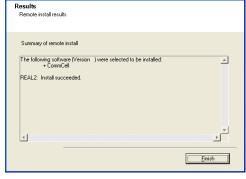
If, during the remote install of a cluster node, setup fails to complete or is interrupted, you must perform a local install on that node. When you do, the install begins from where it left off, or from the beginning if necessary. For procedures, see Manually Installing the Software on a Passive Node.



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

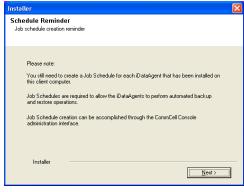
Click Next.

- 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.

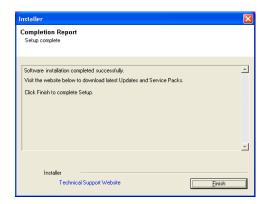


nstaller

29. Click Next.



30. Click Finish.





If you already have a storage policy selected in step 16, 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.

- 31. 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**.
 - o 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.
- 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**.

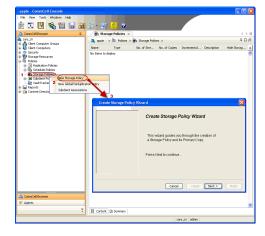
o Review the details and click **Finish** to create the Storage Policy.

32. Enable the following registry key to create job specific profiles:

- From the CommCell Browser, navigate to Client Computers.
- Right-click the <Client> in which you want to add the registry key, and then click Properties.
- Click the Registry Key Settings tab.
- · Click Add.
- Enter CreateProcessSpecificProfile in the Name field.
- Enter MSExchangeMBAgent in the Location field. (For Exchange Mailbox iDataAgent).

Enter MSExchangeDMAgent in the Location field. (For Exchange Mailbox iDataAgent).

- Enter REG_DWORD in the Type filed.
- Enter 1 to enable and 0 to disable the key in the Value field.
- Click OK.





Install the 32-bit Exchange Agents for Exchange Server 2010 or 2007

✓ Previous Next >

Follow the steps given below to install Exchange Agents on one of the following:

- 64-bit Exchange Server 2010
- 64-bit Exchange Server 2007
- 64-bit Non-Exchange Server

WHERE TO INSTALL

The Exchange Agents can be installed in one of two ways:

- Directly onto the Exchange Server. This method is referred to as an on-host installation and is useful if you want to preserve hardware resources.
- On a separate computer with connectivity to the Exchange Server. This method is referred to as an Non-Exchange Server installation and is useful if you want to offload the memory and processing resources required for backups and restores from the Exchange Server.

Install the Exchange Agents on all the nodes on which backups have to be run in a DAG configuration.

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 System Requirements network drive.

METHOD 2: INSTALL SOFTWARE FROM COMMCELL CONSOLE

Use this procedure to remotely install the software on a client computer.

RELATED TOPICS

Download Software Packages

Provides step-by-step procedure to download the latest packages for software install.

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

Provides comprehensive information on firewall.

PREREOUISITES

If you are installing the Exchange Agents on a 64-bit off-host proxy computer, perform the following pre-requisite task before installing these agents:

- Ensure that the proxy computer has been added to the same Domain in which the Exchange Server 2007 resides.
- Install Microsoft Outlook 2007 or higher on the off-host proxy computer in order to supply the software drivers necessary for Exchange-based agents to function in an off-host proxy configuration.

The below mentioned prerequisites are for Mailbox Agents only. Ensure that you have the following:

FOR EXCHANGE SERVER 2010

- Ensure that the service account is a member of Organization Management group.
- Ensure that the mail-enabled user is a member of the Local Administrator Group and have rights to all mailboxes on the server.

To assign full access follow the steps given below:

- Using ADSIEDIT navigate to Configuration | Services | Microsoft Exchange.
- Right-click your organization name, click Properties | Securities and click the Advanced tab.
- Click Edit to modify the permissions set for Organization Management group.
- Click to select Full Control, Receive As and Send As permissions and wait for replication.
- Click the Effective Permission tab and Select the name of the backup account.
- The backup account should display the following as selected:

Full Control

All Extended Rights

Send As

Receive As

• Start the PowerShell and type the following to add the backup account so it has full control over all the databases:

Get-MailboxDatabase -server (server name) | Add-ADPermission -user "backup account" -ExtendedRights Receive-As

Run the above PowerShell every time a new database is added.

• Navigate to the Exchange Management Console, right-click the <mailbox> and click Manage Full Access Permissions to view the mailbox listed under Full Access Permissions.

FOR EXCHANGE SERVER 2007

- Service account should be a member of Exchange Organization Administrators group.
- Ensure that the mail-enabled user is a member of the Local Administrator Group and have rights to all mailboxes on the server.

METHOD 1: INTERACTIVE INSTALL

INSTALL THE EXCHANGE DATABASE /DATAAGENT

The Exchange Database iDataAgent must be installed first. Follow the steps described below to install Exchange Database iDataAgent.

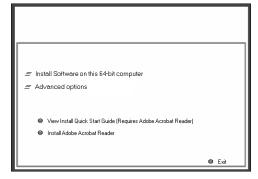
- 1. Log on to the computer using an account with the following privileges:
 - Administrator of the local computer
 - Administrator of the Exchange Server
- 2. Run Setup.exe from Software Installation Package.
- 3. Select the required language.

Click Next.



4. Select the option to Install Calypso on this 64-bit computer.

Your screen may look different from the example shown.

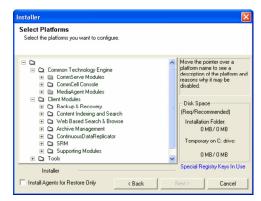


5. Select I accept the terms in the license agreement.

Click Next.



6. Expand **Client Modules | Backup & Recovery | Exchange | File System** and select **Exchange Database** *i***DataAgent**.



 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.

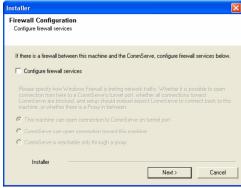
If firewall configuration is not required, click **Next**.

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

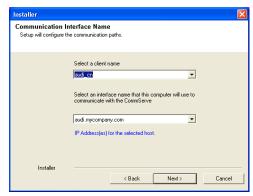
Do not use space and the following characters when specifying a new name for the CommServe Host Name:

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

Click Next.







 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 liet

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

11. Verify the default location for software installation.

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.

12. Select a Client Group from the list.

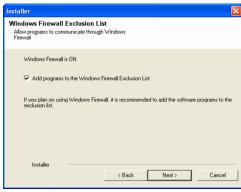
Click Next.

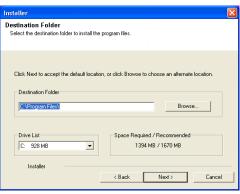
This screen will be displayed if Client Groups are configured in the CommCell Console.

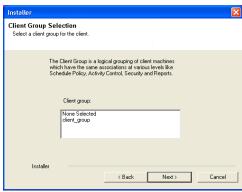
13. Click Next.

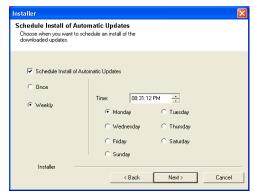
14. Select a Storage Policy.

Click Next.









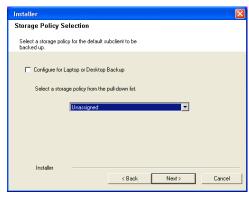
If you do not have Storage Policy created, this message will be displayed. Click \mathbf{OK} .

You can create the Storage Policy later in step 21.

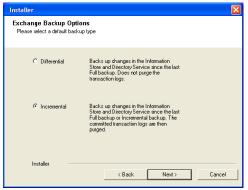
- **15.** Select the backup type for Exchange Database backups. Choose either of the following options, then click **Next**.
 - **Differential** Specifies that each non-full Exchange Database backup secures all data that has changed since the last full backup. Transaction lobs are not purged.
 - Incremental Specifies that each non-full Exchange Database backup secures only that data that has changed since the last backup of any type. Committed transaction logs are purged.

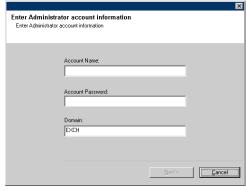
- **16.** Enter the user credentials to access the Exchange Server to perform the backup operation.
 - The User Account must have Exchange Administrator privileges.
 - The installation detects the domain name. If necessary, you can modify the domain name by specifying Windows domain that the Exchange Server resides in.

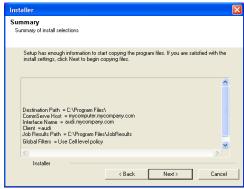
17. Click Next.











18. The install program displays a reminder to verify that Circular Logging is disabled before performing any database backup operations. To verify that Circular Logging is

disabled:

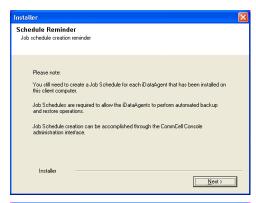
- From Exchange System Manager, navigate to and expand the server that the Database *i*DataAgent is being installed on.
- Verify that the Circular Logging check box has not been selected for each Storage Group. If Circular Logging has been enabled for a Storage Group, disable it at this time.

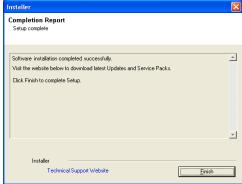
Click OK.

Click Next.











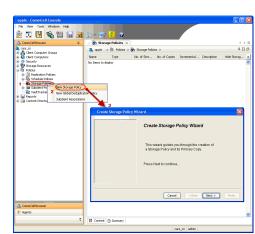
If you already have a storage policy selected in step 14, Click Next > button available at the bottom of the page to proceed to the **Configuration** section.

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

- **21.** Create a Storage Policy:
 - 1. From the CommCell Browser, navigate to Policies.
 - 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.
 - For the device streams and the retention criteria information, click Next to accept default values.
 - O 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.
- If you want to install Exchange Agents (such as Exchange Mailbox iDataAgent, Exchange Public Folder iDataAgent, Exchange Mailbox Archiver



and/or Exchange Public Folder Archiver), click Create the Registry Keys.

 If you are installing the Exchange Database iDataAgent, click Next ➤ button available at the bottom of the page to proceed to the Configuration section.

CREATE THE REGISTRY KEYS

 $\textbf{Create the} \; \texttt{bAllowMultiInstances} \; \textbf{and} \; \texttt{bAllow32BitInstallOn64Bit} \; \textbf{registry keys.}$

22. Create the bAllowMultiInstances registry key.

23. Create the bAllow32BitInstallOn64Bit registry key.

- 24. Run **Setup.exe** from Software Installation Package.
- **25.** Select the required language.

Click Next.

26. Select the Calypso 32-bit Software install options to install software.

NOTES

• This screen will only appear when the bAllow32BitInstallOn64Bit registry key has been created and enabled on this computer.

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

To create the registry key, see the following steps:

- 1. Start the Registry Editor (Regedit.exe or Redegt32.exe)
- Locate the directory under which you want to create a key, e.g., HKEY_LOCAL_MACHINE\SOFTWARE\.
- 3. Right click the SOFTWARE and click New -> Key.
- 4. Name the key as GalaxyInstallerFlags.
- 5. Right click the GalaxyInstallerFlags and select New > DWORD value, name it as bAllowMultiInstances and by double clicking the bAllowMultiInstances key modify the Value data to 1.

To create the registry key, see the following steps:

- 1. Start the Registry Editor (Regedit.exe or Regedit32.exe)
- Locate the directory under which you want to create a key, e.g., HKEY_LOCAL_MACHINE\SOFTWARE\Wow6432Node.
- 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 bAllow32BitInstallon64Bit and by double clicking the bAllow32BitInstallon64Bit key modify the Value data to 1.







28. Select **Create a new instance** option to install the Exchange Agents on separate instance.

NOTES

- This screen will appear when the bAllowMultiInstances registry key has enabled on this computer.
- This screen will not appear if no other software components are installed on the computer.



- Exchange Mailbox iDataAgent
- Exchange Public Folder iDataAgent

To install the **Exchange Archiver Agents**, expand **Client Modules | Archive Management**, and select one or more of the following:

- Exchange Compliance Archiver
- Exchange Mailbox Archiver Agent
- Exchange Public Folder Archiver Agent

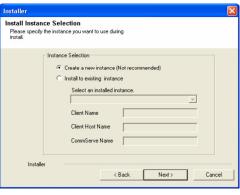
Click Next.

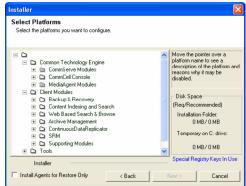
Note that the Exchange Database iDataAgents must be installed on the Exchange Server, see Install the Exchange Database iDataAgent for step-by-step procedure.

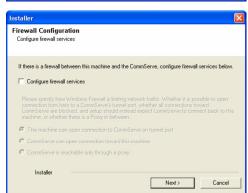
 If this computer and the CommServe is separated by a firewall, select the Configure firewall services option and then click Next.

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

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







31. 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:

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

Installer

CommServe Name
Specily the CommServe computer name and host name

CommServe Client Name

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

mycomputer mycompany.com

Installer

< Back Next > Cancel

32. Click Next.

If there is any other instance installed on the computer, make sure that the host name does not match the client name entered in the **Select a client name** field in the previous instance.

33. 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.

34 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:

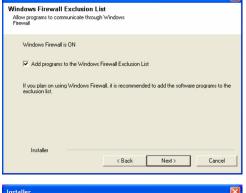
It is recommended that you use alphanumeric characters only.

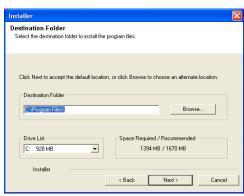
35. Select a Client Group from the list.

Click **Next**.

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







Installer

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.

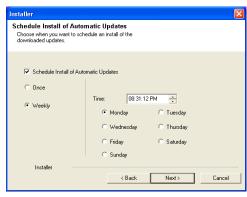
Client group:

None Selected client_group

Installer

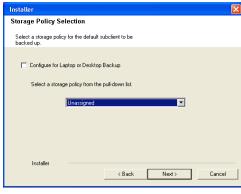
< Back. Next > Cancel

36. Click Next.



37. Select a **Storage Policy**.

Click Next.



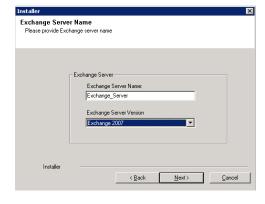
If you do not have Storage Policy created, this message will be displayed. Click \mathbf{OK} .

You can create the Storage Policy later in step 43.

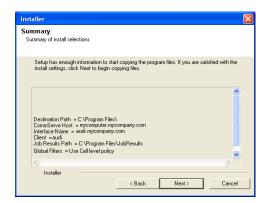


38. Select Exchange Server Name and Exchange Server Version from drop-down list.

Click Next.



39. Click Next.



Please enter the Exchange account information required below. A new profile will be created with the information supplied

< Back

Next>

Cancel

Exchange Administrator Account

Mailbox and Profile information

Mailbox Name for this Account

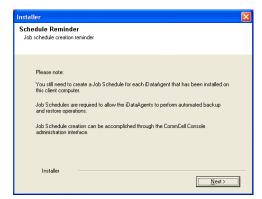
Installer

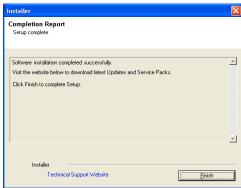
ccount Name:

- **40.** Enter the following Exchange Administrator information then click **Next**.
 - Account Name Domain user account created with the exchange server administrator permissions. Do not include the domain name here.
 - Account Password The password assigned to the domain user.
 - Mailbox Name for this Account Mailbox associated with the user above.
 - **Profile Name** Specify profile name to be created during agent install. This profile is associated with the domain user's mailbox.
 - Exchange Server Name Name of the Exchange Server that the agent will communicate with for data protection and recovery operations.

Enter the Mailbox Role Server name (NetBIOS). After installation configure the roles as described in Configure Mailboxes in Database Availability Group (DAG) Servers.

- Domain The installation detects and enters a domain name. If necessary, modify
 the domain name by specifying Windows domain that the Exchange Server resides
 in.
- 41. Click Next.





Click Finish.

42.



If you already have a storage policy selected in step 37, 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.

- 43. 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.
- o 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.
- O 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.

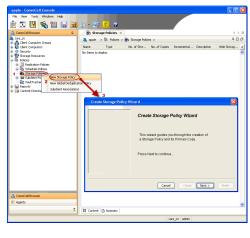
- **44.** Enable the following registry key to create job specific profiles:
 - From the CommCell Browser, navigate to Client Computers.
 - Right-click the <Client> in which you want to add the registry key, and then click Properties.
 - Click the Registry Key Settings tab.
 - · Click Add.
 - Enter CreateProcessSpecificProfile in the Name field.
 - Enter MSExchangeMBAgent in the Location field. (For Exchange Mailbox iDataAgent).

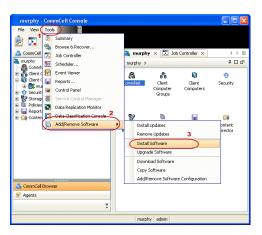
Enter MSExchangeDMAgent in the Location field. (For Exchange Mailbox iDataAgent).

- Enter REG_DWORD in the Type filed.
- Enter 1 to enable and 0 to disable the key in the Value field.
- Click OK.

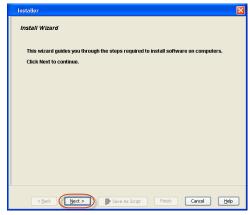
METHOD 2: INSTALL SOFTWARE FROM COMMCELL CONSOLE

 From the CommCell Browser, select Tools, point to Add/Remove Software, and then click Install Software.





Click Next.



Installer

Select the computer's operating system

(i) Windows

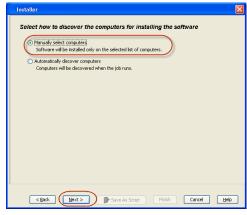
(i) Unix and Linux

Cancel Back

(ii) Back

(iii) Save As Script

(iii) Cancel Ballo





3. Select Windows.

Click Next.

4. Select Manually Select Computers.

Click Next.

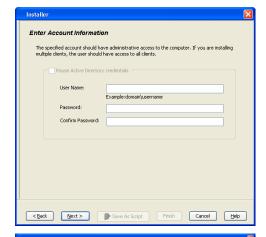
5. Enter the fully qualified domain name of the computer on which you have Exchange Server.

For example: win08ex07.idclab.loc

Click Next.

6. Click Next.

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



<<u>Back</u> <u>Next</u>> Save As Script Finish Cancel <u>Help</u>

To use current Client or Client Group Software Cache settings, click Next. To override Software Cache settings checl Override Software Cache and select the Software Cache to be used.

Override Software Cache

- 8. To install the Exchange iDataAgents expand Client Modules | Backup & Recovery | Exchange, and select one or more of the following:
 - Exchange Database iDataAgent
 - Exchange Mailbox iDataAgent
 - Exchange Public Folder iDataAgent

Click Next.

For Non-Exchange Server, Exchange Database $i\mathsf{DataAgent}$ will not be applicable.

Select Client Group from Available and click Add.

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

NOTES:

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

| Recommended Settings | Selected | Selected

10. Type the Agent Specific Settings information.

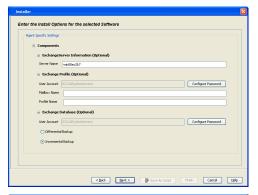
Click Next.

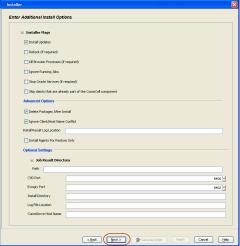
11. Click Next.

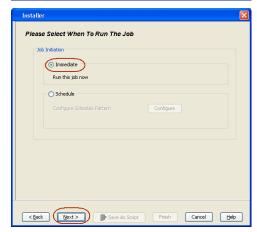
12. Select **Immediate**.

Click **Next**.

13. Click Finish.







Summary

Please wify all the selected options and dick frieth to run the job immediately or dick Save As Sorpt to save the job options as a corpt.

Cleare findfull Option

Select Type Of Installation: Windows

Select Type Of Clearn Discovery: Meanally select computers

Exclude discovery of computers with SSRM agents already installed: Yes

Reuse Active Directory referentials: No

Clears Authentication for Job

Liber Name: Incl.Ach ductiminates or

Password: ****

Install Plage

Install Updates: Yes

Reboot (if required): No

XIII Browner Processes (if required): No

Ignore Rounding Jobs: No

Sup Ornelo Services (if required): No

Sup Ornelo Services (if required): No

Delete Packages After Install: No

Delete Packages After Install: No

Delete Packages After Install: No

Delete To Reposition

Override Software Cache: No

Column Ornelo Service (Installation Delete Computer)

Column Ornelo Service (Installation Delete Computer)

Control Computer (Installation Delete Computer)

Control Computer Cache: No

Column Trans Of Installation Delete Computer

Control Delete Trans Cache: No

Column Trans Of Installation Delete Computer

Control Delete Computer

Cont

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

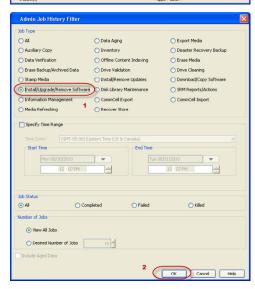


 Once the job is complete, right-click the CommServe computer, click View and then click Admin Job History.



16. Select **Install/Upgrade/Remove Software**.

Click **OK**.



- 17. You can view the following details about the job by right-clicking the job:
 - Items that succeeded during the job
 - Items that failed during the job
 - Details of the job

- Events of the job
- Log files of the job



18.

Enable the following registry key to create job specific profiles:

- From the CommCell Browser, navigate to Client Computers.
- Right-click the <Client> in which you want to add the registry key, and then click Properties.
- Click the Registry Key Settings tab.
- Click Add.
- Enter CreateProcessSpecificProfile in the Name field.
- Enter MSExchangeMBAgent in the Location field. (For Exchange Mailbox iDataAgent).

Enter MSExchangeDMAgent in the Location field. (For Exchange Mailbox iDataAgent).

- Enter REG_DWORD in the Type filed.
- Enter 1 to enable and 0 to disable the key in the Value field.
- Click OK.



Install the 32-bit Exchange Agents on Exchange Server 2007/2010 or 64-bit Non-Exchange Server - Clustered Environment

✓ Previous Next ➤

The Exchange Agents are designed to protect an entire Exchange Server database. Follow the steps given below to install the 64-bit Exchange Agents on Exchange Server 2007/2010 or on Non-Exchange Server.

WHERE TO INSTALL

The Exchange Agents can be installed in one of two ways:

- Directly onto the Exchange Server. This method is referred to as an on-host installation and is useful if you want to preserve hardware resources.
- On a separate computer with connectivity to the Exchange Server. This method is referred
 to as an Non-Exchange Server installation and is useful if you want to offload the memory
 and processing resources required for backups and restores from the Exchange Server.

Make sure the computer satisfies the minimum requirements specified in the System Requirements.

RELATED TOPICS

Download Software Packages

Provides step-by-step procedure to download the latest packages for software install.

System Requirements

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

Firewall

Provides comprehensive information on firewall.

PREREQUISITES

The below mentioned prerequisites are for Mailbox Agents only. Ensure that you have the following:

FOR EXCHANGE SERVER 2010

- Ensure that the service account is a member of Organization Management group.
- Ensure that the mail-enabled user is a member of the Local Administrator Group and have rights to all mailboxes on the server.

To assign full access follow the steps given below:

- Using ADSIEDIT navigate to Configuration | Services | Microsoft Exchange.
- Right-click your organization name, click Properties | Securities and click the Advanced tab.
- Click Edit to modify the permissions set for Organization Management group.
- Click to select Full Control, Receive As and Send As permissions and wait for replication.
- Click the Effective Permission tab and Select the name of the backup account.
- The backup account should display the following as selected:

Full Control

All Extended Rights

Send As

Receive As

• Start the PowerShell and type the following to add the backup account so it has full control over all the databases:

Get-MailboxDatabase -server (server name) | Add-ADPermission -user "backup account" -ExtendedRights Receive-As

Run the above PowerShell every time a new database is added.

Navigate to the Exchange Management Console, right-click the <mailbox> and click Manage Full Access Permissions to view the mailbox listed under Full Access Permissions.

FOR EXCHANGE SERVER 2007

- Service account should be a member of Exchange Organization Administrators group.
- Ensure that the mail-enabled user is a member of the Local Administrator Group and have rights to all mailboxes on the server.

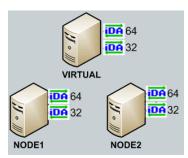
EXCHANGE AGENTS IN X64 CLUSTERS

When installing 32-bit agents on a x64 virtual server, the 32-bit File System *i*DataAgent must be installed on each physical node in the cluster prior to installing the 32-bit agents on the virtual server.

For example, to support a two-node cluster with one Exchange virtual server instance supporting both x64 and 32-bit Agents, a minimum of two installation instances (one 32-bit

and one x64) are required on the virtual server and each physical node. This configuration will result in six client objects in the CommCell console; three x64 instances and three 32-bit instances

The sample image shown on the right illustrates the required configuration for installing 32-bit Exchange Agents in an x64 cluster.

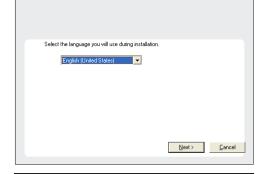


INSTALL THE EXCHANGE DATABASE iDATAAGENT

The Exchange Database iDataAgent must be installed first. Follow the steps described below to install Exchange Database iDataAgent.

- **1.** Log on to the computer using an account with the following privileges:
 - Administrator of the local computer
 - Administrator of the Exchange Server
- 2. Run Setup.exe from Software Installation Package.
- 3. Select the required language.

Click Next.



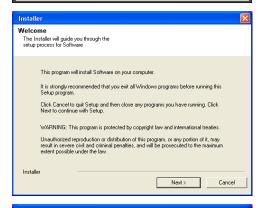
4. Select the option to Install Calypso on this 64-bit computer.

NOTES:

• Your screen may look different from the example shown.



5. Click Next.



Installer

It is strongly recommended that any and all virus scanning software be disabled immediately before continuing with this Software installation. Failure to do so may result in file-locking by the virus carrier and subsequent failure for evelup to install its own files.

Click OK once you have disabled them and setup will continue.

6. Click **OK**.

7. Select I accept the terms in the license agreement.

Click Next.

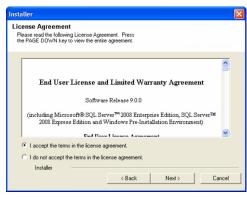
8. Select Configure a Virtual Server.

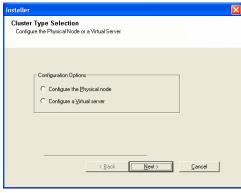
Click Next to continue.

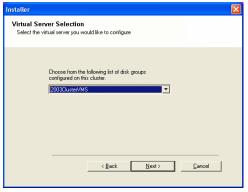
9. Select the disk group in which the cluster group resides.

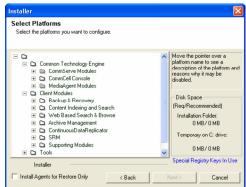
Click **Next** to continue.

10. Expand Client Modules | Exchange | File System and select Exchange Database iDataAgent.









 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**.

Firewall Configuration If there is a firewall between this machine and the CommServe, configure firewall services below. C CommServe is reachable only through a proxy

CommServe Name

Installer

Installer

Communication Interface Name Setup will configure the communication paths

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)

Select a client name audi cn

audi.mycompany.com IP Address(es) for the selected host.

Select an interface name that this computer will use to communicate with the CommServe

< Back Next >

< Back Next > Cancel

Cancel

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

Click Next.

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

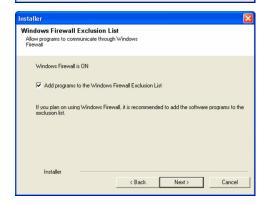
13. Click Next.

Select Add programs to the Windows Firewall Exclusion List, to add CommCell 14. 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.



15. Click Next.

NOTES

• It is recommended to select the Download latest update pack(s) option to automatically install the available updates during installation.

16. 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.

17. Select a Client Group from the list.

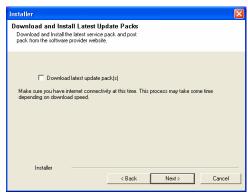
Click Next.

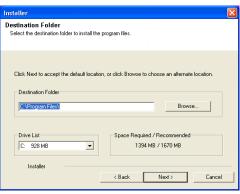
This screen will be displayed if Client Groups are configured in the CommCell Console.

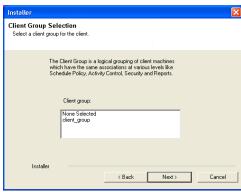
18. Click Next.

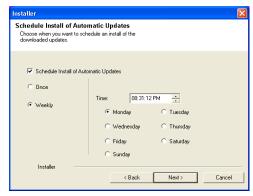
19. Select a Storage Policy.

Click Next.









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

You can create the Storage Policy later in step 31.

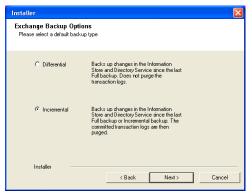
- **20.** Select the backup type for Exchange Database backups. Choose either of the following options, then click **Next**.
 - **Differential** Specifies that each non-full Exchange Database backup secures all data that has changed since the last full backup. Transaction lobs are not purged.
 - Incremental Specifies that each non-full Exchange Database backup secures only that data that has changed since the last backup of any type. Committed transaction logs are purged.

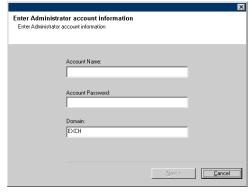
- **21.** Enter the user credentials to access the Exchange Server to perform the backup operation.
 - The User Account must have Exchange Administrator privileges.
 - The installation detects the domain name. If necessary, you can modify the domain name by specifying Windows domain that the Exchange Server resides in.

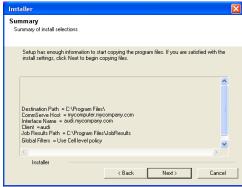
22. Click Next.











23. The install program displays a reminder to verify that Circular Logging is disabled before performing any database backup operations. To verify that Circular Logging is

disabled:

- From Exchange System Manager, navigate to and expand the server that the Database *i*DataAgent is being installed on.
- Verify that the Circular Logging check box has not been selected for each Storage Group. If Circular Logging has been enabled for a Storage Group, disable it at this time.

Click OK.

24. To install the software on the remaining nodes of the cluster, click **Yes**.

To complete the install for this node only, click No.

25. 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.



Click Next.

27. 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.

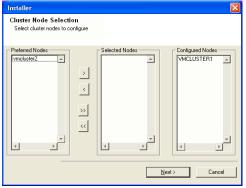
Click **Advanced Settings** to specify any of the following:

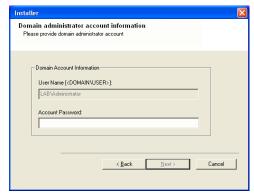
- Maximum number of nodes on which Setup can run simultaneously.
- Time allocated for Setup to begin executing on each node, after which the install attempt will fail.
- Time allocated for Setup to complete on each node, after which the install attempt will fail.

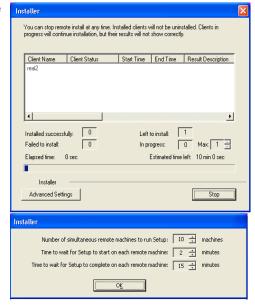
If, during the remote install of a cluster node, setup fails to complete or is interrupted, you must perform a local install on that node. When you do, the install begins from where it left off, or from the beginning if necessary. For procedures, see Manually Installing the Software on a Passive Node.











28. 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.
- 29. Click Next.

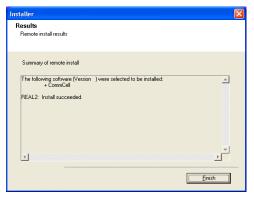
30. Click Finish.



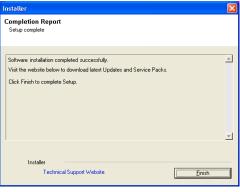
If you already have a storage policy selected in step 19, Click Next > button available at the bottom of the page to proceed to the **Configuration** section.

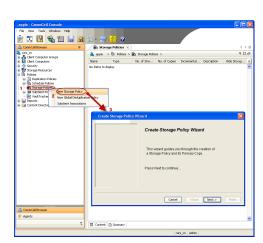
If you do not have Storage Policy created, continue with the following step.

- 31. 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.
 - o 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.
 - 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.
- Enable the following registry key to create job specific profiles:
 - From the CommCell Browser, navigate to Client Computers.
 - Right-click the <Client> in which you want to add the registry key, and then click Properties.
 - Click the Registry Key Settings tab.
 - · Click Add.
 - Enter CreateProcessSpecificProfile in the Name field.
 - Enter MSExchangeMBAgent in the Location field. (For Exchange Mailbox iDataAgent).

Enter MSExchangeDMAgent in the Location field. (For Exchange Mailbox iDataAgent).

- Enter REG_DWORD in the Type filed.
- Enter 1 to enable and 0 to disable the key in the Value field.
- Click OK.

INSTALL THE EXCHANGE AGENTS

The Windows File System iDataAgent must be first installed onto all of the physical nodes of the cluster. See Install the Microsoft Windows File System iDataAgent if you have not installed it on all of the physical nodes.

Once it has been installed onto the physical nodes, the Exchange Agents (such as Exchange Mailbox iDataAgent, Exchange Public Folder iDataAgent, Exchange Mailbox Archiver and/or Exchange Public Folder Archiver) and Windows File System iDataAgent can be installed from the active node to the virtual server using the following steps described below to install Exchange Agents.

The software can also be automatically installed on all available passive nodes when the software is installed onto the virtual server, or you can choose to install any passive node(s) separately.

CREATE THE REGISTRY KEYS

 $\textbf{Before installing the Exchange Agents, create the \verb|ballowMultiInstances| and ballow32BitInstallOn64Bit registry keys.} \\$

1. Create the bAllowMultiInstances registry key.

To create the registry key, see the following steps:

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

To create the registry key, see the following steps:

- 1. Start the Registry Editor (Regedit.exe or Regedit32.exe)
- Locate the directory under which you want to create a key, e.g., HKEY_LOCAL_MACHINE\SOFTWARE\Wow6432Node.
- 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 bAllow32BitInstallOn64Bit and by double clicking the bAllow32BitInstallOn64Bit key modify the Value data to 1.

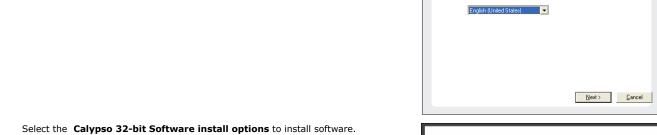
2. Create the bAllow32BitInstallOn64Bit registry key.

INSTALL PROCEDURE

- Log on to the computer using an account with the following privileges:
 - Administrator of the local computer

- Administrator of the Exchange Server
- 2. Run **Setup.exe** from Software Installation Package.
- 3. Select the required language.

Click Next.



4.

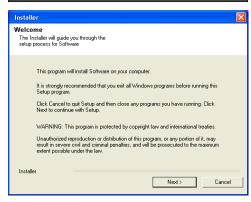
NOTES

• This screen will only appear when the bAllow32BitInstallOn64Bit registry key has been created and enabled on this computer.



Select the language you will use during installation

5. Click Next.

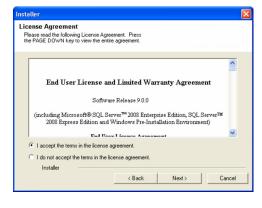


6. Click OK.



7. Select I accept the terms in the license agreement.

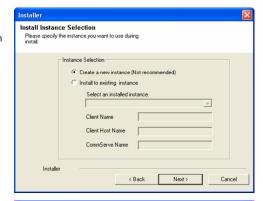
Click Next.



Select Create a new instance option to install the Exchange Agents on separate 8. instance.

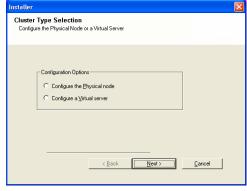
NOTES

- This screen will appear when the bAllowMultiInstances registry key has enabled on this computer.
- This screen will not appear if no other software components are installed on the computer.



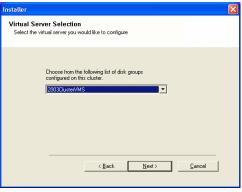
9. Select Configure a Virtual Server.

Click Next to continue.



10. Select the disk group in which the cluster group resides.

Click **Next** to continue.



- 11. To install the **Exchange** *i***DataAgents** expand **Client Modules | Exchange,** and select one or more of the following:
 - Exchange Mailbox iDataAgent
 - Exchange Public Folder iDataAgent

To install the **Exchange Archiver Agents**, expand **Client Modules | Archive Management**, and select one or more of the following:

- Exchange Compliance Archiver
- Exchange Mailbox Archiver Agent
- Exchange Public Folder Archiver Agent

Click Next.

Note that the Exchange Database iDataAgents must be installed on the Exchange Server, see Install the Exchange Database iDataAgent for step-by-step procedure.

12. 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.



Installer

Firewall Configuration
Configure frewall services

If there is a frewall services

If there is a frewall services

If there is a frewall services

Configure frewall services

Please specify how Windows Frewall is limiting network traffic. Whether it is possible to open connection from here to a Commiserve's tunnel port, whether all connections toward Lommiserve are blocked, and setup should instead expect Commiserve to connect back to this machine or whether there is a Propy in between.

This machine can open connection to Dommiserve on tunnel port.

Commiserve can open connection toward this machine.

Commiserve is reachable only through a proxy

Installer

Next > Cancel

13. 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:

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

14. Click Next.

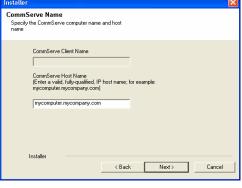
If there is any other instance installed on the computer, make sure that the host name does not match the client name entered in the **Select a client name** field in the previous instance.

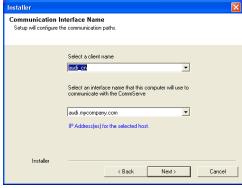
15. Select **Add programs to the Windows Firewall Exclusion List**, to add CommCell programs and services to the Windows Firewall Exclusion List.

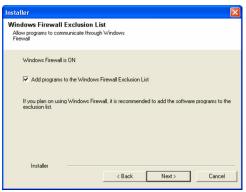
Click Next.

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.







16. Click Next.

17.	Varify the	default location	for	coftware	inctallation
1/.	verily the	derault location	101	Sultware	iiistaliatioii.

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. Select a Client Group from the list.

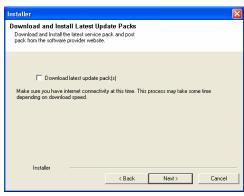
Click Next.

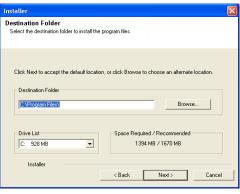
This screen will be displayed if Client Groups are configured in the CommCell Console.

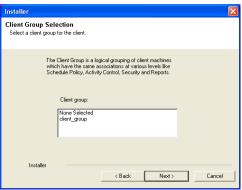
19. Click Next.

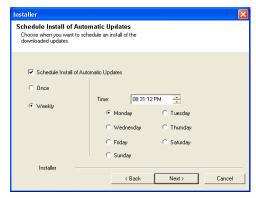
20. Select a Storage Policy.

Click Next.









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

You can create the Storage Policy later in step 31.

21. Select Exchange Server Name and Exchange Server Version from drop-down list.

Click Next.

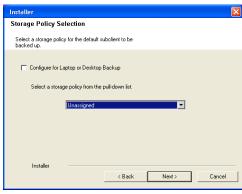
This screen will appear when you are installing Exchange Agents on Non-Exchange Server.

22. Click Next.

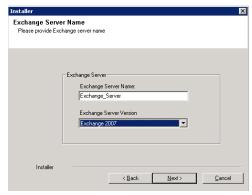
- 23. Enter the following Exchange Administrator information then click **Next**.
 - Account Name Domain user account created with the exchange server administrator permissions. Do not include the domain name here.
 - Account Password The password assigned to the domain user.
 - Mailbox Name for this Account Mailbox associated with the user above.
 - **Profile Name** Specify profile name to be created during agent install. This profile is associated with the domain user's mailbox.
 - Exchange Server Name Name of the Exchange Server that the agent will communicate with for data protection and recovery operations.

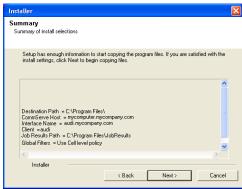
For Exchange Server 2010, enter the Client Access Role. After installation configure the roles as described in Configure Mailboxes in Database Availability Group (DAG) Servers.

- Domain The installation detects and enters a domain name. If necessary, modify
 the domain name by specifying Windows domain that the Exchange Server resides
 in.
- 24. To install the software on the remaining nodes of the cluster, click Yes.











To complete the install for this node only, click No.

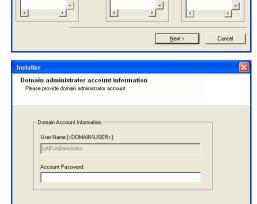
Select cluster nodes from the Preferred Nodes list and click the arrow button to 25. move them to the Selected Nodes list.

Once you complete your selections, click Next.

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



Click Next.



< Back

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

VMCLUSTER1

Cancel

_

F

Cluster Node Selection

......

<

>> <<

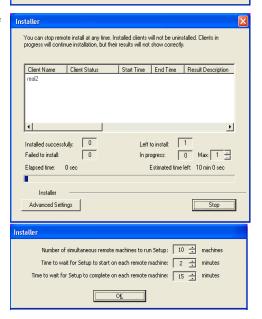
27. The progress of the remote install for the cluster nodes is displayed; the install can be interrupted if necessary.

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.



28. 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.

Results
Remote install results

Summary of remote install

The following software (Version) were selected to be installed:
+ CommCell

REAL2: Install succeeded:

Installer

Schedule Reminder

Job schedule creation reminder

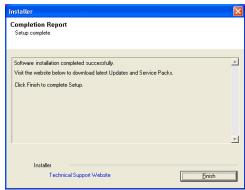
Please note:

You still need to create a Job Schedule for each ID ataAgent that has been installed on this client computer.

Job Schedules are required to allow the ID ataAgents to perform automated backup and restore operations.

Job Schedule creation can be accomplished through the CommCell Console administration interface.

Installer



29. Click Next.

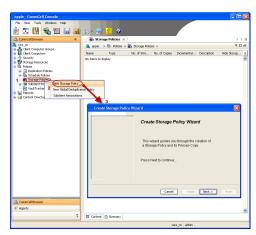
30. Click Finish.



If you already have a storage policy selected in step 20, 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.

- 31. 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.
 - o 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.
 - 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.

- Enable the following registry key to create job specific profiles:
 - From the CommCell Browser, navigate to Client Computers.
 - Right-click the <Client> in which you want to add the registry key, and then click Properties.
 - Click the Registry Key Settings tab.
 - · Click Add.
 - Enter CreateProcessSpecificProfile in the Name field.
 - Enter MSExchangeMBAgent in the Location field. (For Exchange Mailbox iDataAgent).

Enter MSExchangeDMAgent in the Location field. (For Exchange Mailbox iDataAgent).

- Enter REG_DWORD in the Type filed.
- Enter 1 to enable and 0 to disable the key in the Value field.
- Click OK.



Install the 32-bit Exchange Agents on a Non-Exchange Server

✓ Previous Next >

The following procedure describes the steps involved in installing the 32-bit Exchange Agents on 32-bit Non-Exchange Server computer.

WHERE TO INSTALL

The 32-bit Exchange Agents can be installed on a separate computer with connectivity to the Exchange Server. This method is referred to as an Non-Exchange Server installation and is useful if you want to offload the memory and processing resources required for backups and restores from the Exchange Server.

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 System Requirements network drive.

METHOD 2: INSTALL SOFTWARE FROM COMMCELL CONSOLE

Use this procedure to remotely install the software on a client computer.

RELATED TOPICS

Download Software Packages

Provides step-by-step procedure to download the latest packages for software install.

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

Firewall

Provides comprehensive information on firewall.

PREREQUISITES

The below mentioned prerequisites are for Mailbox Agents only. Ensure that you have the following:

- Service account is a member of Exchange Organization Administrators group.
- The mail-enabled user is a member of the Local Administrator Group and have rights to all mailboxes on the server.
- Ensure that you assign full access to all mailboxes on the server. For details, see How do I Assign Full Access to All Mailboxes on a Server.

METHOD 1: INTERACTIVE INSTALL

- Log on to the computer using an account with the following privileges: 1.
 - Administrator of the local computer
 - Administrator of the Exchange Server
- 2. Run Setup.exe from Software Installation Package.
- 3. Select the required language.

Click Next.

Select the language you will use during installation. English (United States) Next > Cancel

4. Select the option to Install Calypso on this computer.

• Your screen may look different from the example shown.



Select I accept the terms in the license agreement.

Click Next



Install Instance Selection
Please specify the instance you want to use during install.

Installer

Instance Selection

• Create a new instance (Not recomm

Client Name
Client Host Name
CommServe Name

Select an installed instance.

6. Select **Create a new instance** option to install the Exchange Agents on separate instance for the purpose of different Exchange Servers.

NOTES

- This screen will appear when the bAllowMultiInstances registry key has enabled on this computer.
- This screen will not appear if no other software components are installed on the computer.
- 7. To install the Exchange iDataAgents expand Client Modules | Exchange, and select one or more of the following:
 - Exchange Mailbox iDataAgent
 - Exchange Public Folder iDataAgent

To install the **Exchange Archiver Agents**, expand **Client Modules | Archive Management**, and select one or more of the following:

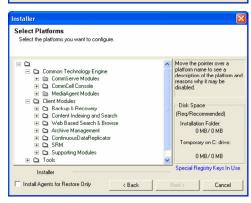
- Exchange Compliance Archiver
- Exchange Mailbox Archiver Agent
- Exchange Public Folder Archiver Agent

Click Next.

8. 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.

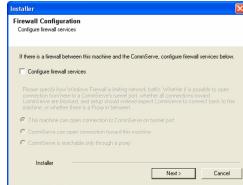
If firewall configuration is not required, click Next.



< Back

Next>

Cancel



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

Click Next.

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

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

Installer

CommServe Name
Specify the CommServe computer name and host name

CommServe Client Name

CommServe Host Name

[Enter a valid, fully-qualified, IP host name; for example: nycomputer mycompany.com)

mycomputer mycompany.com

Installer

< Back Next > Cancel

10. Click Next.

If there is any other instance installed on the computer, make sure that the host name does not match the client name entered in the **Select a client name** field in the previous instance.

 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.

12. 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:

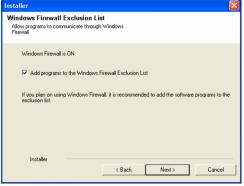
It is recommended that you use alphanumeric characters only.

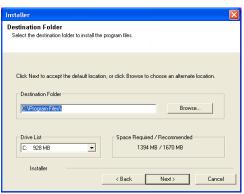
13. Select a Client Group from the list.

Click Next.

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







Installer

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.

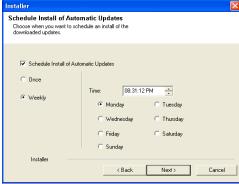
Client group:

None Selected client_group

Installer

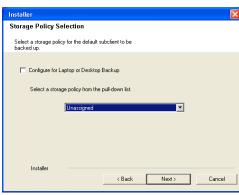
< Back Next > Cancel

14. Click Next.



15. Select a **Storage Policy**.

Click Next.



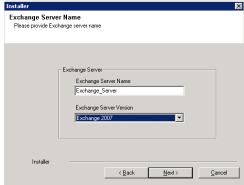
If you do not have Storage Policy created, this message will be displayed. Click $\mathbf{OK}.$

You can create the Storage Policy later in step 21.

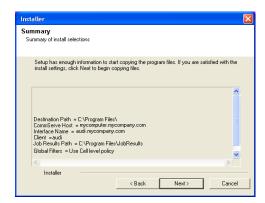


16. Select **Exchange Server Name** and **Exchange Server Version** from drop-down list.

Click **Next**.



17. Click Next.



Please enter the Exchange account information required below. A new profile will be created with the information supplied

< Back

Next>

Cancel

Exchange Administrator Account

Mailbox and Profile information

Mailbox Name for this Account

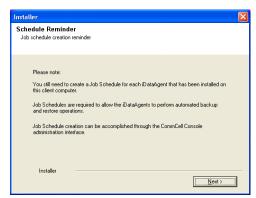
Installer

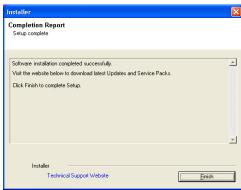
ccount Name:

- 18. Enter the following Exchange Administrator information then click **Next**.
 - Account Name Domain user account created with the exchange server administrator permissions. Do not include the domain name here.
 - Account Password The password assigned to the domain user.
 - Mailbox Name for this Account Mailbox associated with the user above.
 - **Profile Name** Specify profile name to be created during agent install. This profile is associated with the domain user's mailbox.
 - Exchange Server Name Name of the Exchange Server that the agent will communicate with for data protection and recovery operations.

Enter the Mailbox Role Server name (NetBIOS). After installation configure the roles as described in Configure Mailboxes in Database Availability Group (DAG) Servers.

- Domain The installation detects and enters a domain name. If necessary, modify the domain name by specifying Windows domain that the Exchange Server resides in.
- 19. Click Next.





Click Finish.

20.



If you already have a storage policy selected in step 15, 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.

- 21. 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.
- o 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.
- O 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**.

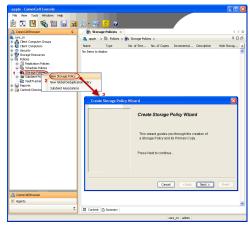
- $\circ\;$ Review the details and click Finish to create the Storage Policy.
- 22. Enable the following registry key to create job specific profiles:
 - From the CommCell Browser, navigate to Client Computers.
 - Right-click the <Client> in which you want to add the registry key, and then click Properties.
 - Click the Registry Key Settings tab.
 - · Click Add.
 - Enter CreateProcessSpecificProfile in the Name field.
 - Enter MSExchangeMBAgent in the Location field. (For Exchange Mailbox iDataAgent).

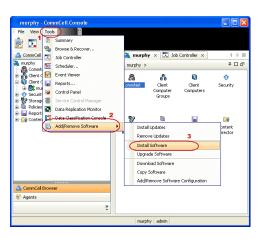
Enter MSExchangeDMAgent in the Location field. (For Exchange Mailbox iDataAgent).

- Enter REG_DWORD in the Type filed.
- Enter 1 to enable and 0 to disable the key in the Value field.
- Click OK.

METHOD 2: INSTALL SOFTWARE FROM COMMCELL CONSOLE

 From the CommCell Browser, select Tools, point to Add/Remove Software, and then click Install Software.





Click Next.



Installer

Select the computer's operating system

(a) Windows
(b) Unix and Linux

C Back

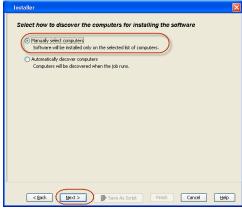
(b) Back

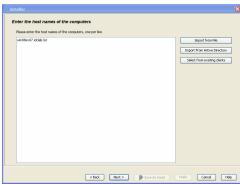
Save As Scrept

Firsth

Cancel

Leip





3. Select Windows.

Click Next.

4. Select Manually Select Computers.

Click Next.

5. Enter the fully qualified domain name of the computer on which you have Exchange Server.

For example: win08ex07.idclab.loc

Click Next.

6. Click Next.

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



<<u>Back</u> <u>Next</u>> Save As Script Finish Cancel <u>Help</u>

To use current Client or Client Group Software Cache settings, click Next. To override Software Cache settings checl Override Software Cache and select the Software Cache to be used.

Override Software Cache

- 8. To install the Exchange iDataAgents expand Client Modules | Backup & Recovery | Exchange, and select one or more of the following:
 - Exchange Database iDataAgent
 - Exchange Mailbox iDataAgent
 - Exchange Public Folder iDataAgent

Click Next.

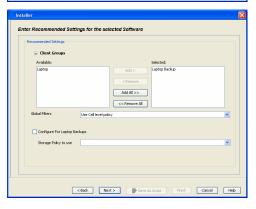
For Non-Exchange Server, Exchange Database $i\mathsf{DataAgent}$ will not be applicable.

Select Client Group from Available and click Add.

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

NOTES:

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



10. Type the Agent Specific Settings information.

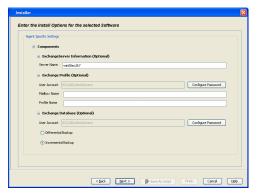
Click Next.

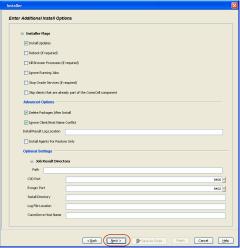
11. Click Next.

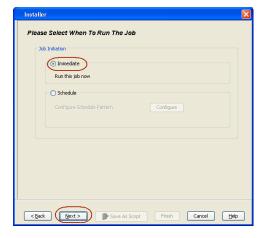
12. Select **Immediate**.

Click **Next**.

13. Click Finish.







Summary

Please we'ry dithe selected optors and dick Friesh to run the yib mneedately or dick Save Ad Script to save the job optors as a script.

Cheral Install Option

Select Type Of Installation: Windows

Select Type Of Clienta Discovery: Manually select computers

Select Type Of Clienta Discovery: Manually select computers

Exclude discovery of computers with SSM agents already installed: Yes

Reuse Active Directory credentials: No

Cheral Authentication for dob

User Yease: DOLAB definishistator

Passwort: ****

Install Displace: Yes

Robout (If required): No

Kull Browner Processes (if required): No

Suprove Rounning Jobs: No

Sup Oracle Services (if required): No

Suprove Rounning Jobs: No

Suprove Rounning Jobs: No

Suprove Rounning Jobs: No

Suprove Rounning Jobs: No

Obelies Packages After Install: No

Delies Packages After Install: No

Delies Packages After Install: No

Conflict Yes

Install Agents For Reserve Only: No

Cleast Composition

Override Software Cache: No

Contact Tracs Of Installation. Composition

Override Software Cache: No

Column Column Column Column Column Column

Override Software Cache: No

Column Column Column Column

Column Column Column

Override Software Cache: No

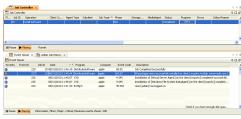
Column Column Column

Override Software Cache: No

Column Column Column

Override Software Ca

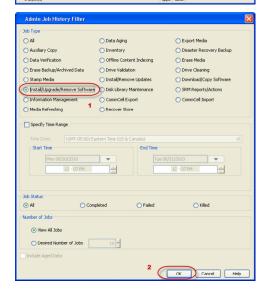
14. You can track the progress of the job from the **Job Controller** or **Event Viewer** window.



15. Once the job is complete, right-click the **CommServe** computer, click **View** and then click **Admin Job History**.



16. Select **Install/Upgrade/Remove Software**. Click **OK**.



- 17. You can view the following details about the job by right-clicking the job:
 - Items that succeeded during the job
 - Items that failed during the job
 - Details of the job

- Events of the job
- Log files of the job



18.

Enable the following registry key to create job specific profiles:

- From the CommCell Browser, navigate to Client Computers.
- Right-click the <Client> in which you want to add the registry key, and then click Properties.
- Click the Registry Key Settings tab.
- Click Add.
- Enter CreateProcessSpecificProfile in the Name field.
- Enter MSExchangeMBAgent in the Location field. (For Exchange Mailbox iDataAgent).

Enter MSExchangeDMAgent in the Location field. (For Exchange Mailbox iDataAgent).

- Enter REG_DWORD in the Type filed.
- Enter 1 to enable and 0 to disable the key in the Value field.
- Click OK.



Install the Exchange Agents on Exchange Server 2003

✓ Previous Next >

Follow the steps given below to install the Exchange Agents on Exchange Server 2003.

WHERE TO INSTALL

Install the software directly on the Exchange Server you wish to protect

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 System Requirements network drive.

METHOD 2: INSTALL SOFTWARE FROM COMMCELL CONSOLE

Use this procedure to remotely install the software on a client computer.

RELATED TOPICS

Download Software Packages

Provides step-by-step procedure to download the latest packages for software install.

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

Firewall

Provides comprehensive information on firewall.

PREREQUISITES

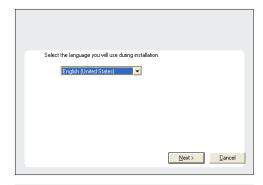
The below mentioned prerequisites are for Mailbox Agents only. Ensure that you have the following:

- The mail-enabled user is a member of the Local Administrator Group and have rights to all mailboxes on the server.
- Using the Exchange System Manager snap-in, right-click the organization object and delegate control.
- Using the Wizard, assign the MailboxAdmin user Exchange Full Administrator privileges.
- Ensure that you assign full access to all mailboxes on the server. For details, see How do I Assign Full Access to All Mailboxes on a Server.

METHOD 1: INTERACTIVE INSTALL

- Log on to the computer using an account with the following privileges:
 - Administrator of the local computer
 - Administrator of the Exchange Server
- Run Setup.exe from the Software Installation Package. 2.
- Select the required language. 3.

Click Next.



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

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

Advanced options View documentation website View Install Quick Start Guide (Requires Adobe Acrobat Reade

Select I accept the terms in the license agreement.

Click Next.

- License Agreement

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

 End User License and Limited Warranty Agreement

 Software Release 9 0.0

 (including Microsoft® SQL Server™ 2008 Enterprise Edition, SQL Server™ 2008 Express Edition and Windows Pre-Installation Environment)

 Full Time I form Administration

 (I I do not accept the terms in the license agreement.

 Installer

 (Back Nest)

 Cancel
- 6. To install the Exchange iDataAgents expand Client Modules | Backup & Recovery | Exchange, and select one or more of the following:
 - Exchange Database iDataAgent
 - Exchange Mailbox iDataAgent
 - Exchange Public Folder iDataAgent

To install the Exchange Archiver Agents, expand **Client Modules | Archive Management**, and select one or more of the following:

- Exchange Compliance Archiver
- Exchange Mailbox Archiver Agent
- Exchange Public Folder Archiver Agent

Click Next.

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

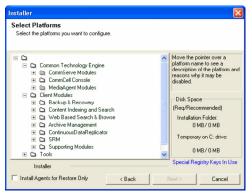
For firewall options and configuration instructions, see Firewall Configuration and continue with the installation.

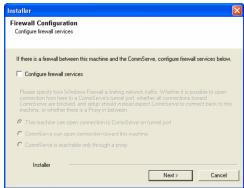
If firewall configuration is not required, click Next.

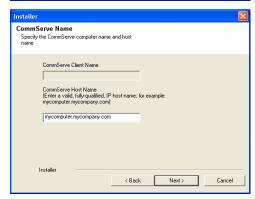
Enter the fully qualified domain name of the CommServe Host Name.
 Click Next.

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

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







9. Click Next.

Installer

Communication Interface Name
Setup will configure the communication paths.

Select a client name

| Select aclient name | Installer | Installer |

Installer | Installer | Installer | Installer | Installer | Installer | Installer | Installer | Installer | Installer | Installer | Installer | Installer | Installer | Installer | Installer | Installer | Installer | Installer | Installer | Installer | Installer | Installer | Installer | Installer | Installer | Installer | Installer | Installer | Installer | Installer | Installer | Installer | Installer | Installer | Installer | Installer | Installer | Installer | Installer | Installer | Installer | Installer | Installer | Installer | Installer | Installer | Installer | Installer | Installer | Installer | Installer | Installer | Installer | Installer | Installer | Installer | Installer | Installer | Installer | Installer | Installer | Installer | Installer | Installer | Installer | Installer | Installer | Installer | Installer | Installer | Installer | Installer | Installer | Installer | Installer | Installer | Installer | Installer | Installer | Installer | Installer | Installer | Installer | Installer | Installer | Installer | Installer | Installer | Installer | Installer | Installer | Installer | Installer | Installer | Installer | Installer | Installer | Installer | Installer | Installer | Installer | Installer | Installer | Installer | Installer | Installer | Installer | Installer | Installer | Installer | Installer | Installer | Installer | Installer | Installer | Installer | Installer | Installer | Installer | Installer | Installer | Installer | Installer | Installer | Installer | Installer | Installer | Installer | Installer | Installer | Installer | Installer | Installer | Installer | Installer | Installer | Installer | Installer | Installer | Installer | Installer | Installer | Installer | Installer | Installer | Installer | Installer | Installer | Installer | Installer | Installer | Installer | Installer | Installer | Installer | Installer | Inst

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

Click Next.

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

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

11. Verify the default location for software installation.

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

Click Next.

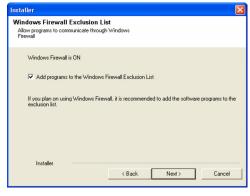
- Do not install the software to a mapped network drive.
- Do not use the following characters when specifying the destination path:

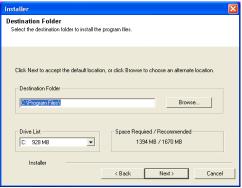
It is recommended that you use alphanumeric characters only.

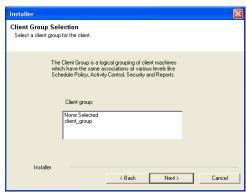
12. Select a Client Group from the list.

Click Next.

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







13. Click Next.

Installer

Schedule Install of Automatic Updates
Choose when you want to schedule an install of the downloaded updates.

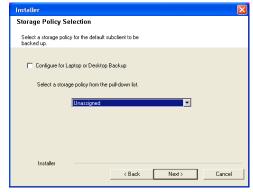
Schedule Install of Automatic Updates

Once
Time:

Medinesday
Tuesday
Friday
Saturday
Friday
Saturday
Installer

Sack
Next>
Cancel

14. Select a Storage Policy.
Click Next.



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

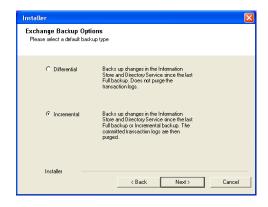
You can create the Storage Policy later in step 25.



- If you are installing the Exchange Database iDataAgent, click Configure Exchange Database Specific Information.
- If you are installing the Exchange Agents, skip to Configure Exchange Agents Specific Information.

CONFIGURE EXCHANGE DATABASE SPECIFIC INFORMATION

- **15.** Select the backup type for Exchange Database backups. Choose either of the following options, then click **Next**.
 - Differential Specifies that each non-full Exchange Database backup secures all data that has changed since the last full backup. Transaction lobs are not purged.
 - Incremental Specifies that each non-full Exchange Database backup secures only that data that has changed since the last backup of any type. Committed transaction logs are purged.



- **16.** Enter the user credentials to access the Exchange Server to perform the backup operation.
 - The User Account must have Exchange Administrator privileges.
 - The installation detects the domain name. If necessary, you can modify the domain name by specifying Windows domain that the Exchange Server resides in.

Enter Administrator account information

Enter Administrator account information

Account Name:

Account Password:

Domain:

EXCH

Next>
Cancel



17. Click Next.

- **18.** The install program displays a reminder to verify that Circular Logging is disabled before performing any database backup operations. To verify that Circular Logging is disabled:
 - From Exchange System Manager, navigate to and expand the server that the Database *i*DataAgent is being installed on.
 - Verify that the Circular Logging check box has not been selected for each Storage Group. If Circular Logging has been enabled for a Storage Group, disable it at this time.

Click OK.

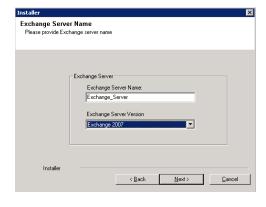
- If you are installing the Exchange Agents, then click Configure Exchange Agents Specific Information.
- If you are installing the Exchange Database iDataAgent, skip to Verify Summary of Install Options.

CONFIGURE EXCHANGE AGENTS SPECIFIC INFORMATION

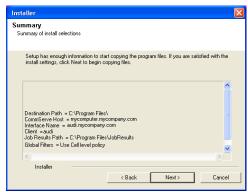
 Select Exchange Server Name and Exchange Server Version from drop-down list.

Click Next.

This screen will appear when you are installing Exchange Agents on Non-Exchange Server.



20. Click Next.



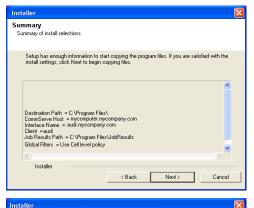
- 21. Enter the following Exchange Administrator information then click **Next**.
 - Account Name Domain user account created with the exchange server administrator permissions. Do not include the domain name here.
 - Account Password The password assigned to the domain user.
 - Mailbox Name for this Account Mailbox associated with the user above.
 - **Profile Name** Specify profile name to be created during agent install. This profile is associated with the domain user's mailbox.
 - Exchange Server Name Name of the Exchange Server that the agent will communicate with for data protection and recovery operations.
 - Domain The installation detects and enters a domain name. If necessary, modify
 the domain name by specifying Windows domain that the Exchange Server resides
 in.



VERIFY SUMMARY OF INSTALL OPTIONS

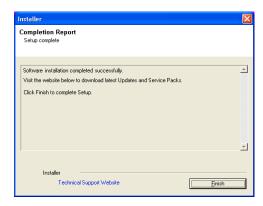
22. Click Next.

23. Click Next.





24. 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.

- 25. 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.
- 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.

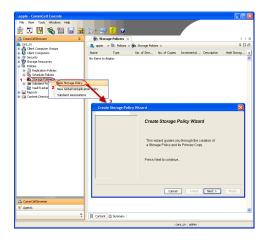
- **26.** Enable the following registry key to create job specific profiles:
 - From the CommCell Browser, navigate to Client Computers.
 - Right-click the <Client> in which you want to add the registry key, and then click Properties.
 - Click the Registry Key Settings tab.
 - · Click Add.
 - Enter CreateProcessSpecificProfile in the Name field.
 - Enter MSExchangeMBAgent in the Location field. (For Exchange Mailbox iDataAgent).

Enter MSExchangeDMAgent in the Location field. (For Exchange Mailbox iDataAgent).

- Enter REG_DWORD in the Type filed.
- Enter 1 to enable and 0 to disable the key in the Value field.
- Click OK.

METHOD 2: INSTALL SOFTWARE FROM COMMCELL CONSOLE

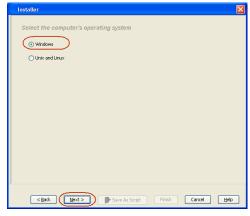
 From the CommCell Browser, select Tools, point to Add/Remove Software, and then click Install Software.



Install Wizard

This wizard guides you through the steps required to install software on computers.

Click Next to continue.





Click Next.

3. Select Windows.

Click Next.

4. Select Manually Select Computers.

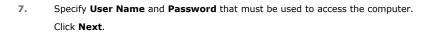
Click Next.

5. Enter the fully qualified domain name of the computer on which you have Exchange Server.

For example: win08ex07.idclab.loc

Click Next.

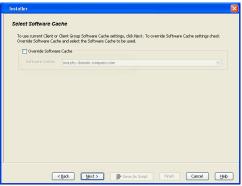
6. Click Next.

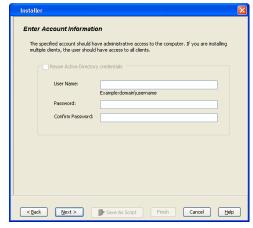


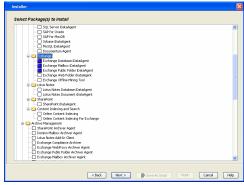
- 8. To install the **Exchange** *i***DataAgents** expand **Client Modules | Backup & Recovery | Exchange,** and select one or more of the following:
 - Exchange Database iDataAgent
 - Exchange Mailbox iDataAgent
 - Exchange Public Folder iDataAgent

Click Next.









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

NOTES:

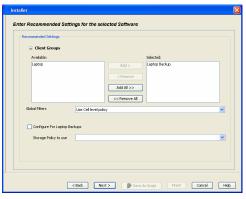
 Select the Configure for Laptop or Desktop Backup option to install Backup Monitor utility. This utility allows you to view the backup job summary from the client computer without opening the CommCell Console. See Monitor - Laptop User for more information. **10.** Type the Agent Specific Settings information. Click **Next**.

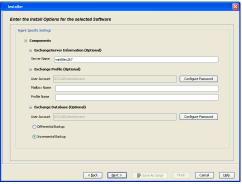
11. Click Next.

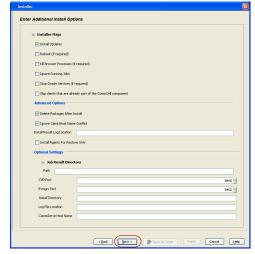
12. Select **Immediate**.

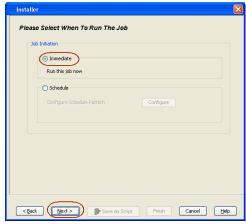
Click Next.

13. Click Finish.









Summary

Please we'ry dithe selected optors and dick Friesh to run the yib mneedately or dick Save Ad Script to save the job optors as a script.

Cheral Install Option

Select Type Of Installation: Windows

Select Type Of Clienta Discovery: Manually select computers

Select Type Of Clienta Discovery: Manually select computers

Exclude discovery of computers with SSM agents already installed: Yes

Reuse Active Directory credentials: No

Cheral Authentication for dob

User Yease: DOLAB definishistator

Passwort: ****

Install Displace: Yes

Robout (If required): No

Kull Browner Processes (if required): No

Suprove Rounning Jobs: No

Sup Oracle Services (if required): No

Suprove Rounning Jobs: No

Suprove Rounning Jobs: No

Suprove Rounning Jobs: No

Suprove Rounning Jobs: No

Obelies Packages After Install: No

Delies Packages After Install: No

Delies Packages After Install: No

Conflict Yes

Install Agents For Reserve Only: No

Cleast Composition

Override Software Cache: No

Contact Tracs Of Installation. Composition

Override Software Cache: No

Column Column Column Column Column Column

Override Software Cache: No

Column Column Column Column

Column Column Column

Override Software Cache: No

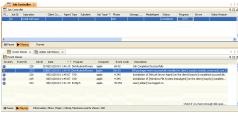
Column Column Column

Override Software Cache: No

Column Column Column

Override Software Ca

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

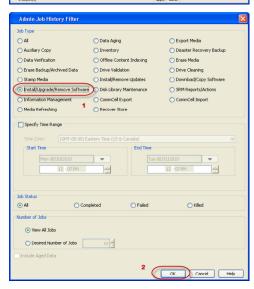


 Once the job is complete, right-click the CommServe computer, click View and then click Admin Job History.



16. Select **Install/Upgrade/Remove Software**.

Click **OK**.



- 17. You can view the following details about the job by right-clicking the job:
 - Items that succeeded during the job
 - Items that failed during the job
 - Details of the job

- Events of the job
- Log files of the job



18.

Enable the following registry key to create job specific profiles:

- From the CommCell Browser, navigate to Client Computers.
- Right-click the <Client> in which you want to add the registry key, and then click Properties.
- Click the Registry Key Settings tab.
- Click Add.
- Enter CreateProcessSpecificProfile in the Name field.
- Enter MSExchangeMBAgent in the Location field. (For Exchange Mailbox iDataAgent).

Enter MSExchangeDMAgent in the Location field. (For Exchange Mailbox iDataAgent).

- Enter REG_DWORD in the Type filed.
- Enter 1 to enable and 0 to disable the key in the Value field.
- Click OK.



Install the Exchange Agents for Exchange Server 2003 on a Non-Exchange Server

✓ Previous Next ➤

Follow the steps given below to install the Exchange Agents on Non-Exchange Server 2003.

WHERE TO INSTALL

The 32-bit Exchange Agents can be installed on a separate computer with connectivity to the Exchange Server. This method is referred to as an Non-Exchange Server installation and is useful if you want to offload the memory and processing resources required for backups and restores from the Exchange Server.

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 remotely install the software on a client computer.

RELATED TOPICS

Download Software Packages

Provides step-by-step procedure to download the latest packages for software install.

System Requirements

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

irewall

Provides comprehensive information on firewall.

PREREQUISITES

The below mentioned prerequisites are for Mailbox Agents only. Ensure that you have the following:

- The mail-enabled user is a member of the Local Administrator Group and have rights to all mailboxes on the server.
- Using the Exchange System Manager snap-in, right-click the organization object and delegate control.
- Using the Wizard, assign the MailboxAdmin user Exchange Full Administrator privileges.
- Ensure that you assign full access to all mailboxes on the server. For details, see How do I Assign Full Access to All Mailboxes on a Server.

METHOD 1: INTERACTIVE INSTALL

- 1. Log on to the computer using an account with the following privileges:
 - Administrator of the local computer
 - Administrator of the Exchange Server
- 2. Create the bAllowMultiInstances registry key.

NOTES:

- If any 64-bit agent software is already installed on the Proxy Server, create bAllowMultiInstances registry key to install the Exchange iDataAgents on separate instance.
- To create the registry key, see the following steps:
- 1. Start the Registry Editor (Regedit.exe or Redegt32.exe)
- Locate the directory under which you want to create a key, e.g., HKEY_LOCAL_MACHINE\SOFTWARE\.
- 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 bAllowMultiInstances and by double clicking the bAllowMultiInstances key modify the Value data to 1.

To create the registry key, see the following steps:

- 1. Start the Registry Editor (Regedit.exe or Regedit32.exe)
- Locate the directory under which you want to create a key, e.g., hKEY_LOCAL_MACHINE\SOFTWARE\Wow6432Node.
- 3. Right click the SOFTWARE and click ${\bf New} \rightarrow {\bf Key}$.
- 4. Name the key as GalaxyInstallerFlags.
- 5. Right click the GalaxyInstallerFlags and select New > DWORD value, name it as bAllow32BitInstallOn64Bit and by double clicking the bAllow32BitInstallOn64Bit key modify the Value data to 1.

3. Create the bAllow32BitInstallOn64Bit registry key.

- **4.** Run **Setup.exe** from the Software Installation Package.
- 5. Select the required language.

Click Next.



6. Select the Calypso 32-bit Software install options to install software.

NOTES

This screen will only appear when the bAllow32BitInstallOn64Bit registry key
has been created and enabled on this computer.



7. Select I accept the terms in the license agreement.

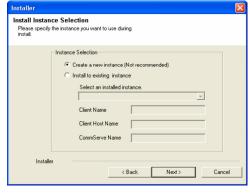
Click Next.



8. If any agent software is already installed on the Proxy Server, select **Create a new instance** option to install the Exchange *i*DataAgents on separate instance.

NOTES

• This screen will appear when the bAllowMultiInstances registry key has enabled on this computer.

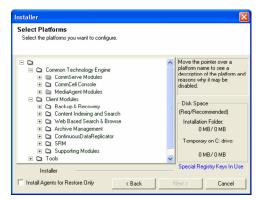


- 9. To install the Exchange *iDataAgents* expand **Client Modules | Exchange**, and select one or more of the following:
 - Exchange Mailbox iDataAgent
 - Exchange Public Folder iDataAgent

To install the **Exchange Archiver Agents**, expand **Client Modules | Archive Management**, and select one or more of the following:

- Exchange Compliance Archiver
- Exchange Mailbox Archiver Agent
- Exchange Public Folder Archiver Agent

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.

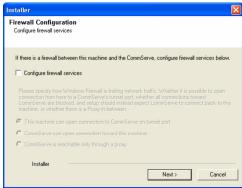
If firewall configuration is not required, click Next.

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

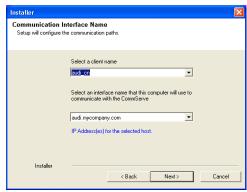
Do not use space and the following characters when specifying a new name for the CommServe Host Name:

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

12. Click Next.







13. 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.

14. 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:

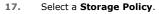
It is recommended that you use alphanumeric characters only.

15. Select a Client Group from the list.

Click Next.

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

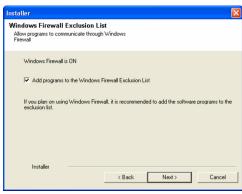
16. Click Next.

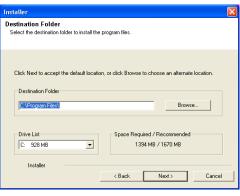


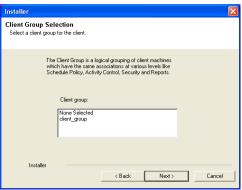
Click Next.

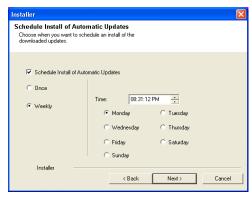
NOTES

 A storage policy directs backup data to a media library. Each library has a default storage policy.









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

You can create the Storage Policy later in step 23.

18. Select Exchange Server Name and Exchange Server Version from drop-down list.

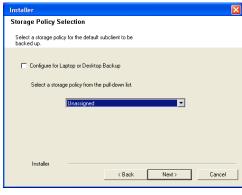
Click Next.

19. Click Next.

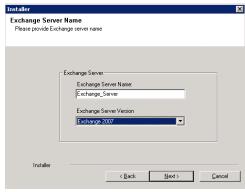
- 20. Enter the following Exchange Administrator information then click Next.
 - **Account Name** Domain user account created with the exchange server administrator permissions. Do not include the domain name here.
 - Account Password The password assigned to the domain user.
 - Mailbox Name for this Account Mailbox associated with the user above.
 - **Profile Name** Specify profile name to be created during agent install. This profile is associated with the domain user's mailbox.
 - Exchange Server Name Name of the Exchange Server that the agent will communicate with for data protection and recovery operations.

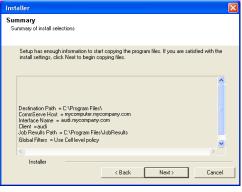
For Exchange Server 2010, enter the Client Access Role. After installation configure the roles as described in Configure Mailboxes in Database Availability Group (DAG) Servers.

- Domain The installation detects and enters a domain name. If necessary, modify the domain name by specifying Windows domain that the Exchange Server resides in
- 21. Click Next.











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

Installer Completion Report Setup complete Software installation completed successfully. Visit the vebsite below to download latest Updates and Service Packs. Click Finish to complete Setup. Installer Technical Support Website

22. Click Finish.



If you already have a storage policy selected in step 17, 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.

- 23. 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.
 - o 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**.

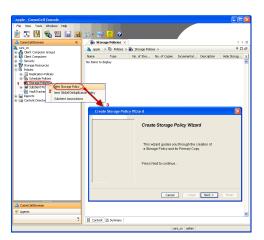
Ensure that you select a library attached to a MediaAgent operating in the current release.

- From the MediaAgent list, click the name of a MediaAgent that will be used to create the primary copy and then click Next.
- 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.

- **24.** Enable the following registry key to create job specific profiles:
 - From the CommCell Browser, navigate to Client Computers.
 - Right-click the <Client> in which you want to add the registry key, and then click Properties.
 - Click the Registry Key Settings tab.
 - Click Add.
 - Enter CreateProcessSpecificProfile in the Name field.
 - Enter MSExchangeMBAgent in the Location field. (For Exchange Mailbox iDataAgent).

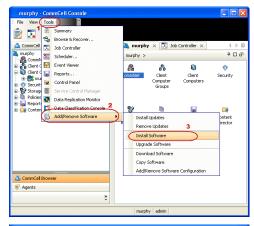


Enter MSExchangeDMAgent in the Location field. (For Exchange Mailbox iDataAgent).

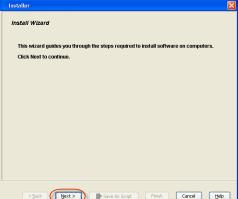
- Enter REG_DWORD in the Type filed.
- Enter 1 to enable and 0 to disable the key in the Value field.
- Click OK.

METHOD 2: INSTALL SOFTWARE FROM COMMCELL CONSOLE

 From the CommCell Browser, select Tools, point to Add/Remove Software, and then click Install Software.

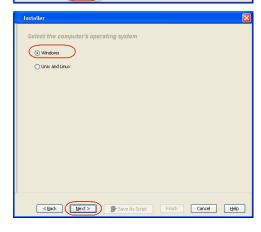


2. Click Next.



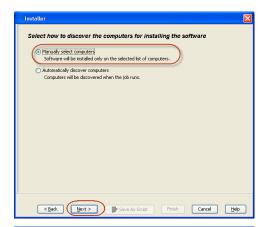
3. Select Windows.

Click Next.



4. Select Manually Select Computers.

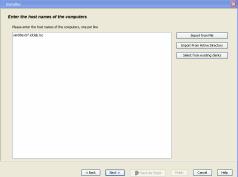
Click Next.



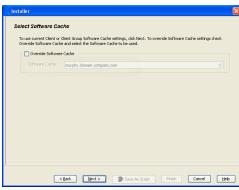
5. Enter the fully qualified domain name of the computer on which you have Exchange Server.

For example: win08ex07.idclab.loc

Click Next.



6. Click Next.



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



- To install the Exchange iDataAgents expand Client Modules | Backup & Recovery | Exchange, and select one or more of the following:
 - Exchange Database iDataAgent
 - Exchange Mailbox iDataAgent
 - Exchange Public Folder iDataAgent

Click Next.

For Non-Exchange Server, Exchange Database $i\mathsf{DataAgent}$ will not be applicable.

• Select Client Group from Available and click Add.

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

NOTES:

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

10. Type the Agent Specific Settings information.

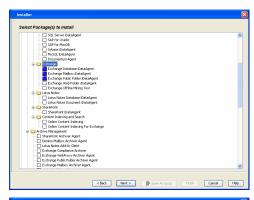
Click Next.

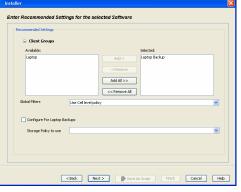
11. Click Next.

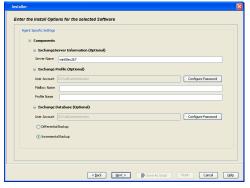


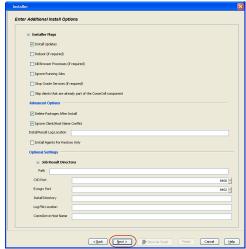
12. Select Immediate.

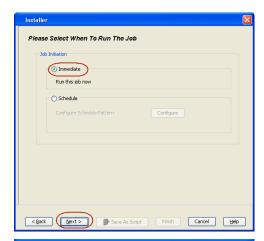
Click Next.



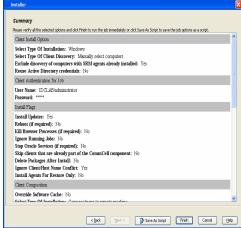




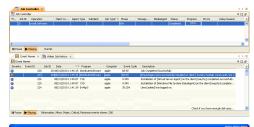




13. Click Finish.



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

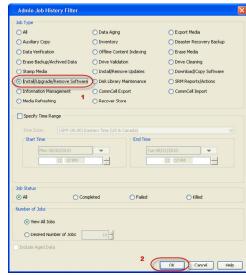


 Once the job is complete, right-click the CommServe computer, click View and then click Admin Job History.



16. Select Install/Upgrade/Remove Software.

Click OK.





- 17. You can view the following details about the job by right-clicking the job:
 - Items that succeeded during the job
 - Items that failed during the job
 - Details of the job
 - · Events of the job
 - Log files of the job
- **18.** Enable the following registry key to create job specific profiles:
 - From the CommCell Browser, navigate to Client Computers.
 - Right-click the <Client> in which you want to add the registry key, and then click Properties.
 - Click the Registry Key Settings tab.
 - Click Add.
 - Enter CreateProcessSpecificProfile in the Name field.
 - Enter MSExchangeMBAgent in the Location field. (For Exchange Mailbox iDataAgent)

Enter MSExchangeDMAgent in the Location field. (For Exchange Mailbox iDataAgent).

- Enter REG_DWORD in the Type filed.
- Enter 1 to enable and 0 to disable the key in the Value field.
- Click OK.



Install the Exchange Agents on Exchange Server 2003 - Clustered Environment

✓ Previous Next ➤

Follow the steps given below to install the Exchange Agents in clustered environment on the following:

- Exchange Server 2003
- Non-Exchange Server

WHERE TO INSTALL

The following procedure describes the steps involved in installing the Exchange Agents for Exchange Server 2003 on the following:

- Direct install on a Exchange Server or
- On an Non-Exchange Server computer. This may be used for the following circumstances:
 - In the configuration where a single non-Exchange client is used to backup multiple Exchange Servers.
 - To off-load the backup of Exchange Server, so that the performance of the Exchange Server will not be effected.

RELATED TOPICS

Download Software Packages

Provides step-by-step procedure to download the latest packages for software install.

System Requirements

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

Firewall

Provides comprehensive information on firewall.

PREREQUISITES

The below mentioned prerequisites are for Mailbox Agents only. Ensure that you have the following:

- The mail-enabled user is a member of the Local Administrator Group and have rights to all mailboxes on the server.
- Using the Exchange System Manager snap-in, right-click the organization object and delegate control.
- Using the Wizard, assign the MailboxAdmin user Exchange Full Administrator privileges.
- Ensure that you assign full access to all mailboxes on the server. For details, see How do I Assign Full Access to All Mailboxes on a Server.

INSTALL PROCEDURE

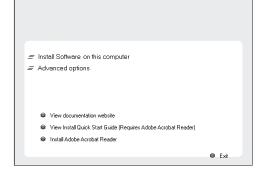
- 1. Log on to the computer using an account with the following privileges:
 - Administrator of the local computer
 - Administrator of the Exchange Server
- 2. Run **Setup.exe** from the Software Installation Package.
- 3. Select the required language.

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.



Select I accept the terms in the license agreement.

Click Next.

6. Select Configure a Virtual Server.

Click Next.

7. Select the disk group in which the virtual server resides.

Click Next.

- **8.** To install the Exchange *i*DataAgents expand **Client Modules | Exchange**, and select one or more of the following:
 - Exchange Database iDataAgent
 - Exchange Mailbox iDataAgent
 - Exchange Public Folder iDataAgent

To install the Exchange Archiver Agents, expand **Client Modules | Archive Management**, and select one or more of the following:

- Exchange Compliance Archiver
- Exchange Mailbox Archiver Agent
- Exchange Public Folder Archiver Agent

Click Next.

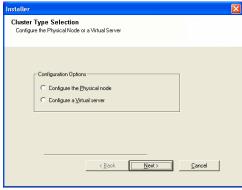
For Non-Exchange Server, Exchange Database $i\mathsf{DataAgent}$ will not be applicable.

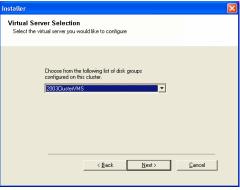
 If this computer and the CommServe is separated by a firewall, select the Configure firewall services option and then click Next.

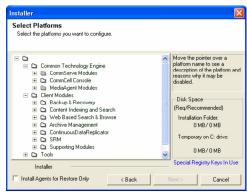
For firewall options and configuration instructions, see Firewall Configuration and continue with the installation.

If firewall configuration is not required, click Next.









Firewall Configuration
Configure frewall services

If there is a frewall between this machine and the CommServe, configure frewall services below.

Configure frewall services

Please specily how Windows Frewall is limiting network traffic. Whether it is possible to open connection from here to a CommServe's turnel port, whether all connections toward CommServe are blocked, and setup should instead expect CommServe to connect back to this machine, or whether there is a froly in between the connection to connect back to this machine can open connection to CommServe on turnel port

CommServe can open connection toward this machine

CommServe is reachable only through a proxy

Installer

Next > Cancel

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. Click Next.

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

Click Next.

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.

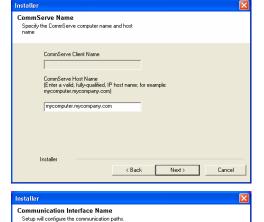


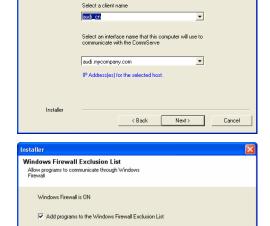
Click **Browse** to change the default location.

Click Next.

- Do not install the software to a mapped network drive.
- Do not use the following characters when specifying the destination path:







If you plan on using Windows Firewall, it is recommended to add the software programs to the exclusion list.

Next>

It is recommended that you use alphanumeric characters only.

14. Select a Client Group from the list.

Click Next.

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

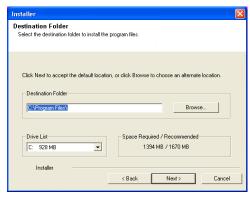
15. Click Next.

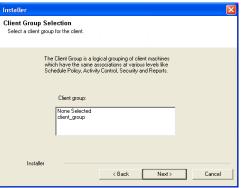
16. Select a Storage Policy.

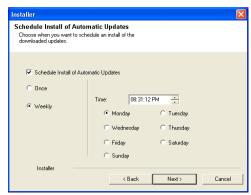
Click Next.

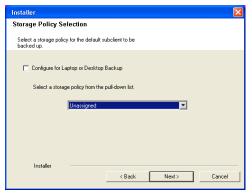
If you do not have Storage Policy created, this message will be displayed. Click \mathbf{OK} .

You can create the Storage Policy later in step 32.











• If you are installing the Exchange Database iDataAgent on the Exchange Server, click Configure Exchange Database Specific Information.

• If you are installing the Exchange Agents on the Non-Exchange Server, skip to Configure Exchange Agents Specific Information.

CONFIGURE EXCHANGE DATABASE SPECIFIC INFORMATION

- Select the backup type for Exchange Database backups. Choose either of the following options, then click Next.
 - **Differential** Specifies that each non-full Exchange Database backup secures all data that has changed since the last full backup. Transaction lobs are not purged.
 - Incremental Specifies that each non-full Exchange Database backup secures
 only that data that has changed since the last backup of any type. Committed
 transaction logs are purged.
 - C Incremental

 Backs up changes in the Information
 Store and Directory Service ancer the least
 Full backup or Incremental backup. The
 committed transaction logs are then
 purged.

 Installer

 A Back
 Next > Cancel
- **18.** Enter the user credentials to access the Exchange Server to perform the backup operation.
 - The User Account must have Exchange Administrator privileges.
 - The installation detects the domain name. If necessary, you can modify the domain name by specifying Windows domain that the Exchange Server resides in.
- Enter Administrator account information

 Enter Administrator account information

 Account Name:

 Account Password:

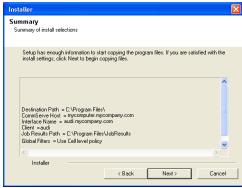
 Domain:

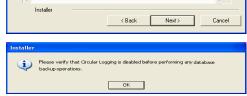
 EXCH

Backs up changes in the Information Store and Directory Service since the last Full backup. Does not purge the

Exchange Backup Options

C Differential





19. Click Next.

- **20.** The install program displays a reminder to verify that Circular Logging is disabled before performing any database backup operations. To verify that Circular Logging is disabled:
 - From Exchange System Manager, navigate to and expand the server that the Database *i*DataAgent is being installed on.
 - Verify that the Circular Logging check box has not been selected for each Storage Group. If Circular Logging has been enabled for a Storage Group, disable it at this time.

Click **OK**.

- If you are installing the Exchange Agents, then click Configure Exchange Agents Specific Information.
- If you are installing the Exchange Database iDataAgent, skip to Install Remaining Cluster Nodes.

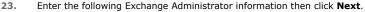
CONFIGURE EXCHANGE AGENTS SPECIFIC INFORMATION

21. Select Exchange Server Name and Exchange Server Version from drop-down list.

Click Next.

This screen will appear when you are installing Exchange Agents on Non-Exchange Server.

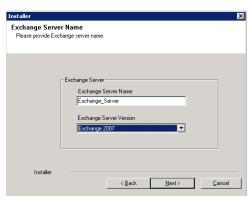
22. Click Next.

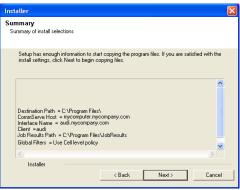


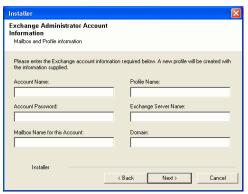
- Account Name Domain user account created with the exchange server administrator permissions. Do not include the domain name here.
- Account Password The password assigned to the domain user.
- Mailbox Name for this Account Mailbox associated with the user above.
- **Profile Name** Specify profile name to be created during agent install. This profile is associated with the domain user's mailbox.
- Exchange Server Name Name of the Exchange Server that the agent will communicate with for data protection and recovery operations.

For Exchange Server 2010, enter the Client Access Role. After installation configure the roles as described in Configure Mailboxes in Database Availability Group (DAG) Servers.

 Domain - The installation detects and enters a domain name. If necessary, modify the domain name by specifying Windows domain that the Exchange Server resides in.







INSTALL REMAINING CLUSTER NODES

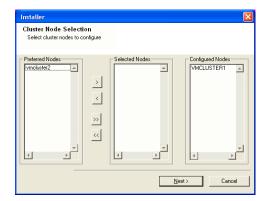
24. To install the software on the remaining nodes of the cluster, click Yes.
To complete the install for this node only, click No.

25. 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.





26. 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.



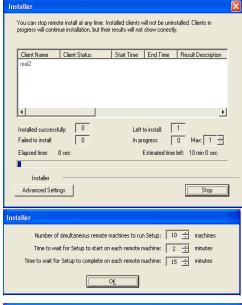
27. The progress of the remote install for the cluster nodes is displayed; the install can be interrupted if necessary.

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.

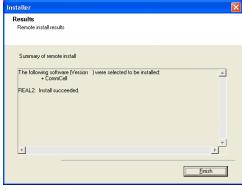
If, during the remote install of a cluster node, setup fails to complete or is interrupted, you must perform a local install on that node. When you do, the install begins from where it left off, or from the beginning if necessary. For procedures, see Manually Installing the Software on a Passive Node.



28. 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.



29. Click Next.

Installer

Schedule Reminder

Job schedule creation reminder

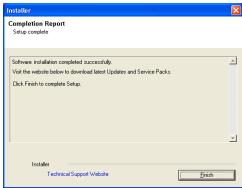
Flease note:

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



30. Click Next.

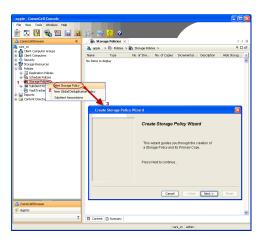
31. Click Finish.



If you already have a storage policy selected in step 16, 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.

- 32. 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.
 - o 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.
 - 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.

- Enable the following registry key to create job specific profiles:
 - From the CommCell Browser, navigate to Client Computers.
 - Right-click the <Client> in which you want to add the registry key, and then click Properties.
 - Click the Registry Key Settings tab.
 - · Click Add.
 - Enter CreateProcessSpecificProfile in the Name field.
 - Enter MSExchangeMBAgent in the Location field. (For Exchange Mailbox iDataAgent).

Enter MSExchangeDMAgent in the Location field. (For Exchange Mailbox iDataAgent).

- Enter REG_DWORD in the Type filed.
- Enter 1 to enable and 0 to disable the key in the Value field.
- Click OK.



Getting Started - Exchange Mailbox iDataAgent Configuration

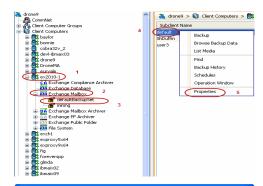
✓ Previous Next ➤

Once installed, configure a backup set and subclient as follows.

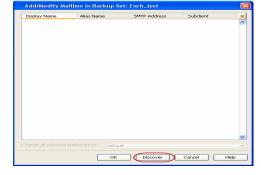
- From the CommCell Console, navigate to Client Computers | <Client> |
 Exchange Mailbox | defaultBackupSet.
 - Right-click the default subclient and then click **Properties**.

- Click the **Content** tab.
 - Click the **Configure** button.

3. Click **Discover**.







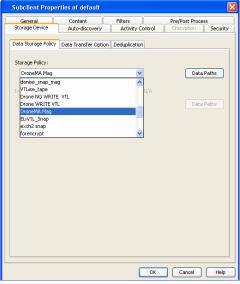
- Hold down CTRL and click each mailbox listed in the Mailbox Name list.
 - In the Change all selected mailboxes to list, click default.
 - Click **OK**.



- Click the Storage Devices tab.
 - Select a Storage Policy.
 - Click OK.

Click Next > to continue.

If you do not have Storage Policy created, click ${\bf Create\ Storage\ Policy}$ and proceed to the next step.



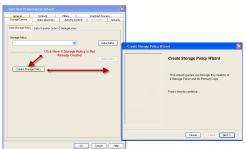
- 1. Click Create Storage Policy.
 - 2. Follow the prompts displayed in the Storage Policy Wizard. The required options are mentioned below:
 - Select the Storage Policy type as **Data Protection and Archiving** and click **Next**.
 - $\circ\;$ Enter the name in the Storage Policy Name box and click 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.
- 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.



✓ Previous Next ➤

Getting Started - Exchange Mailbox iDataAgent Backup

	✓ Previous Next ➤
WHAT GETS BACKED UP	WHAT DOES NOT GET BACKED UP
Mailboxes	Exchange Server Properties
E-mail messages	Archive Mailboxes
Appointments	Mailboxes of disabled Active Directory user accounts are not backed up by default; refer to Configuring
Contacts	Backups of Disabled Mailboxes.
Tasks	Discovery Search Mailboxes are not backed up by default; refer to Configuring Backups for Discovery Search Mailboxes.
Journal Entries	Deleted Item Retention Folders are not backed up by default; refer to Configuring Backups for Deleted Item
Notes	Retention Folders.
Attachments	

PERFORM A BACKUP

- From the CommCell Console, navigate to Client Computers | <Client> |
 Exchange Mailbox | defaultBackupSet.
 - Right-click the default subclient and click **Backup**.
- Under Select Backup Type, click Full.
 - Under Job Initiation, click Immediate.
 - Click **OK**.

- 3. You can track the progress of the job from the **Job Controller**.
- Once the job is complete, view the details of job from the Backup History. Rightclick the Subclient and select Backup History.
- Backup Options for Subclient: default

 Select Backup Type

 Ob Indiation

 Options for Subclient: default

 Run this job now

 Select Backup Type

 Ob Indiation

 Options for Subclient: default

 Run this job now

 Options for Subclient: default

 Run this job now

 Options for Subclient: default

 Run this job now

 Options for Subclient: default

 Options for Subclient: default

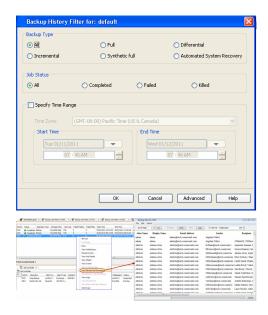
 Run this job now

 Options for Subclient: default

 Options for Subclient:

5. Click **OK**.

- **6.** Right-click the job to:
 - Browse the mailboxes that were backed up.
 - Find messages in the backup.
 - View items that failed, if any, during the job.
 - Resubmit the job.
 - View job details, such as the number of mailboxes backed up.
 - View media associated with the job.
 - View events associated with the job.
 - View messages that were backed up.
 - Send the log file that is associated with the job.





Getting Started - Exchange Mailbox iDataAgent Restore



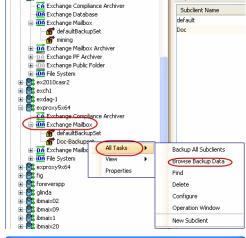
🚴 drone9 > 📵 Client

PERFORM A RESTORE

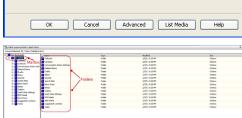
It is recommended that you perform a restore operation immediately after your first full backup to understand the process. The following section explains how to restore a single mailbox to a Personal Storage (PST) file that can be imported into Outlook.

- From the CommCell Console, navigate to Client Computers | <Client> |
 Exchange Mailbox.
 - Right-click the default backup set and then click All Tasks | Browse Backup

 Data

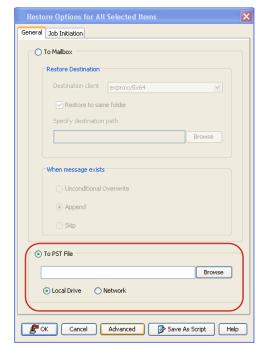


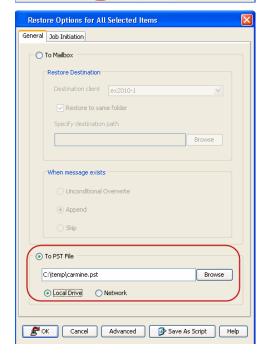
ex2010-1



2. Click OK.

- Expand the **defaultBackupset** and select the mailbox that you want to restore.
 - Click Recover All Selected.
- Click To PST File.
 - Select Local Drive.
 - Click **Browse** to locate the path.





- Select the path and click **Add.**
 - Close the window.

 $\textbf{6.} \qquad \text{Append the path with the PST file name. Ensure to include the }. \texttt{pst} \text{ file extension.}$

- Click the **Job Initiation** tab and select **Immediate**.
 - Click **OK**.

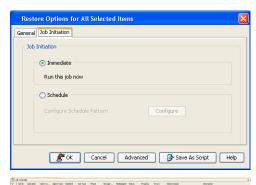
- **8.** You can monitor the progress of the restore job from the **Job Controller**.
- Once the restore job has completed, right-click the agent and click View | Restore History.

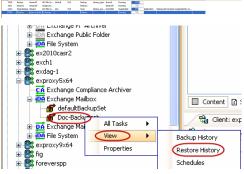
10. Click **OK**.

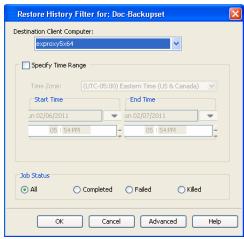
- 11. Right-click the job and do one of the following:
 - View Restore Items.

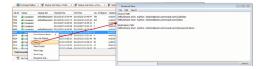
You can view them as Successful, Failed, Skipped or All.

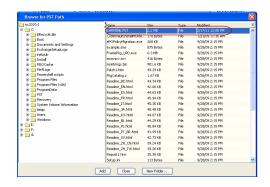
- View Job Details.
- View Paths.
- View Events of the restore job.
- View or send log files of the restore job.
- Resubmit the job if the job is not too old.
- 12. In Windows Explorer, confirm the PST file was created.











13. Import the PST file into Outlook.

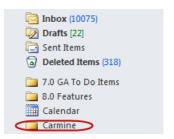
This step is based on Outlook 2010. The steps and screen may be different if you are using another version of Outlook.

- Click File and then click Open.
- Click Import.
- Select Import from another program or file option and click Next.
- Under File Type, select Outlook Data File (.pst) and click Next.
- Click **Browse** and choose the .pst that was restored and click **Next**.
- Choose to import the file to the current folder or choose another folder and click **Finish**

When **Import items into the same folder** is selected, the data from the imported file will be added to the same folder in Outlook if the folder matches. If the folder doesn't match in Outlook, it will be created.

14. View the imported folder in Outlook.





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.

