Quick Start Guide

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This Quick Start Guide is designed to help you install and use a CommCell[®] configuration to which you can later add other components.

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INTRODUCTION

The software provides a powerful set of storage management tools that help you move and manage your critical data. These tools enable you to store and retrieve data associated with computer systems in your enterprise.

The system consists of integrated software modules which can be grouped together in a CommCell[®] configuration. Each CommCell configuration consists of the following main components:

- One or more of the following **Client Agents**:
 - o iDataAgents that perform the backup and restore operations
 - Archive Management Agents which includes agents for Migration Archiving and Compliance Archiver agents
 - ContinuousDataReplicator to perform data replication from a source Client to a destination Client
 - Storage Resource Manager (SRM) Agents for analyzing and reporting of information on local storage resources.
- Common Technology Engine (CTE) components consisting of:
 - One CommServe[®]
 - One or more MediaAgents

Once installed and configured, these CommCell elements can be controlled and monitored from a single unified CommCell Console.

CLIENT AGENTS

Client Agents are software modules that perform data protection and data recovery operations for specific operating systems or applications. Multiple agents may be used to protect all types of data residing on a computer. The following sections provide a brief description of each of these Client Agents.

*i*DATAAGENTS

*i*DataAgents are software modules that are used for backing up and restoring data. The system provides a variety of *i*DataAgents, each one designed to handle a different kind of data. If a given computer has two or more types of data, it requires one *i*DataAgent for each data type. For example, to secure all the data on a computer where a Microsoft Exchange Server resides, you would need the following *i*DataAgents:

- One Windows File System iDataAgent to back up the computer's file system.
- One Microsoft Exchange Database iDataAgent to back up the database.

In the CommCell[®] Console, such a configuration would appear as two *i*DataAgents on a client computer.

ARCHIVE MANAGEMENT AGENTS

This includes 2 types of Agents. They are:

• MIGRATION ARCHIVER AGENTS

Migration Archiver Agents are software modules that are responsible for periodically moving unused or infrequently used data on their host computers to secondary storage, thereby reducing the size of data on the primary storage. The system provides several Agents, each one designed to handle a different kind of data. Migration Archiver Agents reduce the duration of backup windows by reducing the amount of data to be backed up by an *i*DataAgent.

• COMPLIANCE ARCHIVER AGENTS

Compliance Archiver Agents are software modules that are designed for long term storage and indexing of data to meet security and compliance standards. The primary function of Compliance Archiver Agents is to preserve data outside of the operational environment. Compliance Archiver removes the data from the source client once it has been archived and/or indexed. In this way, large amounts of data can be stored, for example, and reviewed at a later time.

	(Client Agents		
Backup & Recovery /DataAgents	Archive Management Agents	Compliance Archiver Agents	Continuous Data Replicator	SRM Agent
Common Technology Engine				

CONTINUOUSDATAREPLICATOR AGENT

ContinuousDataReplicator (CDR) agents are software modules that provide protection of application data and file systems, by replicating data from a source computer to a destination computer in nearly real-time. High availability of protected data in a consistent state is accomplished through the creation of Recovery Points, using snapshots created on the destination computer, which can be mounted, made available as shares, or recovered using Copyback. In addition, backups can be made from the snapshots of file system data or application data in a consistent state for point-in-time recovery.

STORAGE RESOURCE MANAGEMENT (SRM)

SRM software provides the ability to discover, identify, and track available storage resources such as disks, file systems, and network shares to provide detailed analysis in the form of reports and summaries. SRM software consists of the SRM Server which provides the reporting engine that obtains the data from the various SRM Agents which are client agents that collect data from the various operating systems and applications.

COMMON TECHNOLOGY ENGINE

Common Technology Engine consists of software modules that provide the necessary tools to manage and administer the Client Agents and also manage the storage media associated with the CommCell[®] configuration. The following sections describe the components of the Common Technology Engine.

COMMSERVE®

The CommServe[®] Server ties the CommCell[®] components together; it is the coordinator and administrator of the CommCell component. The CommServe Server communicates with all agents in the CommCell to initiate data protection, management and recovery operations. Similarly, it communicates with MediaAgents when the media subsystem requires management. The CommServe Server maintains a database – also referred to as the CommServe Database Engine – containing all the information relating to the CommCell configuration.



MEDIAAGENTS

The MediaAgent transfers data between the client computer(s) and the storage media. Each MediaAgent communicates locally or remotely to one or more storage devices, which contains the storage media. The system provides support for a wide variety of storage devices.

COMMCELL[®] CONSOLE

The CommCell Console is the graphical user interface that allows you to control and manage CommCell group. The CommCell Console can be run in two ways:

- As a stand-alone application, which can be installed directly on any computer that can communicate with the CommServe[®] storage manager.
- As a remote web-based application using Java Web Start, which allows you to remotely access the CommCell Console using the web browser.

COMMCELL INSTALLATIONS

The entire software is modular and can reside on the same and/or separate computers depending on your needs. Some administrators may have a dedicated CommServe computer and a dedicated MediaAgent computer. Others may want to back up the file system data on the CommServe Server and therefore install the client software on the CommServe computer as well. Still others may use the same computer to serve as the CommServe, MediaAgent, and a client. The software supports any and all of these configurations.

The illustration provides an example of CommCell Architecture.



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CommCell[®] Software Deployment

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Other Deployment Scenarios

OVERVIEW

GETTING STARTED

SATISFY THE SYSTEM REQUIREMENTS

Before installing any component, carefully read the product's Release Notes and the System Requirements and Pre-Install Requirements for CommCell[®] component. System Requirements and Pre-Install Requirements contain the basic requirements for installing the component. Release notes contain any important issues you should be aware of prior to using the product. Refer to Books Online to access this information.

- MediaAgent Software (See Install the MediaAgent Windows for detailed instructions.) 2.
- File System iDataAgent Software (See Install the Microsoft Windows File System iDataAgent for instructions on installing the Windows File System iDataAgents.)

Installation always begins with the installation of the CommServe software which connects all of the components within a CommCell[®] configuration.

using the Library and Drive Configuration window.

last and require that the CommServe[®] software and MediaAgent software to be already installed.

The flowchart on the right summarizes the major steps for deploying the software.

USING THIS GUIDE

The procedures provided in this Quick Start Guide describe the installation of the CommServe[®] server software, MediaAgent and File System iDataAgent components on separate (discrete) computers running the Windows operating system.

The installation steps will differ if multiple components are installed on a client computer.

SELECTING MULTIPLE COMPONENTS

Multiple components may be selected at the time of installation. You will be required to enter a common path for the software, as well as any componentspecific parameters. The selected components are then installed in the correct sequence. For example, if you intend to use the same computer as both the CommServe and a MediaAgent, the install program will prompt you for all of the required setup parameters in one session. Furthermore, installs are restartable in the event of a cancelled or failed installation. The user has the option of resuming the install, or restarting the installation process.

FLEXIBILITY AND SCALABILITY

The software is flexible to allow many possible configurations and can therefore be deployed to precisely match your data management and environment needs. For example, a computer can act as both a CommServe[®] Server and a MediaAgent. As your needs grow, MediaAgents, libraries and client computers can be added.

OTHER DEPLOYMENT SCENARIOS



Satisfy System

The software supports a heterogeneous computing environment, comprised of Windows, NetWare, Unix and Linux computers and can deployed in the following scenarios:

- Clustered Environments
- NetWare Clients and MediaAgents
- Unix Clients and MediaAgents
- Network Attached Storage (NAS)
- Storage Area Networks (SAN)

For more information on these components, see **Books Online**.

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Install the CommServe Software

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Install Requirements

Install Procedure Cluster Selection Select Components for Installation Install Remaining Cluster Nodes Setup Complete

Post-Install Considerations

INSTALL REQUIREMENTS

The following procedure describes the steps involved in installing the CommServe on both clustered and non-clustered environment.

A Microsoft SQL Server 2008 database instance (Enterprise Edition) with the appropriate service pack will be automatically installed while installing the software.

Review the following Install Requirements before installing the software:

GENERAL

- Do not install the CommServe[®] on a computer that has Microsoft Exchange Server or an Oracle database.
- Make sure that you have the latest Software Installation Disc before you start to install the software. If you are not sure, contact your software provider.
- Close all applications and disable any programs that run automatically, including anti-virus, screen savers and operating system utilities. Some of the programs, including many anti-virus programs, may be running as a service. Stop and disable such services before you begin. You can re-enable them after the installation.

CLUSTER SPECIFIC

• In a clustered environment, Microsoft SQL Server 2008 (Enterprise Edition) with the appropriate service pack must be installed and clustered prior to installing the CommServe software. The CommServe software automatically uses the default or the named instance created during the SQL installation.

For more information, see Pre-Installing SQL Database for CommServe - Clustered Environment.

• SQL Server cannot be installed on a Cluster Quorum disk.

INSTALL PROCEDURE

- 1. Run Setup.exe from the Software Installation Disc.
- 2. Choose the language you want to use during installation. Click the down arrow and select the desired language from the drop-down list, and click **Next** to continue.



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

NOTES

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

RELATED TOPICS

System Requirements Verify that the computer in which you wish to install the software satisfies the System Requirements. 4. Select I accept the terms in the license agreement. Click Next.

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CLUSTER SELECTION

If you are installing in clustered environment, follow the steps below. For non-clustered environment, skip to Select Components for Installation.

5.	Select Configure a Virtual Server.	Installer
	Click Next to continue.	Cluster Type Selection Configure the Physical Node or a Virtual Server
		Configuration Options Configure the Physical node Configure a Virtual server < <u>Book</u>
6.	Select the disk group in which the cluster group resides.	Installer
	Click Next to continue.	Virtual Server Selection Select the virtual server you would like to configure
		Choose from the following list of disk groups configured on this cluster. 2000ClusterVMS

SELECT COMPONENTS FOR INSTALLATION

- 7. Select the following component(s) to install:
 - Expand CommServe Modules and click CommServe.
 - Clear SRM Server.

X

	Installer
	Select Platforms Select the platforms you want to configure.
	□ □ Move the pointer over a platform name to see a a description of the platform name to see a a description of the platform name to see a a description of the platform and reasons why it may be disabled. □ □ CommCell Console □ □ MedsAgent Modules □ □ Backup & Recovery □ □ Contert Modules □ □ Backup & Recovery □ □ Contert Indexing and Search □ □ Web Based Search & Browee
	Ch Atchive Management D MB/0 MB ContinuousDataReplicator D S SRM ChristiansDataReplicator D Supporting Modules D MB/0 MB OMB/0 MB OMB/0 MB
	Installer Special Registry Keys In Use Install Agents for Restore Only < Back Next > Cancel Cancel
lled. y installs	Installer Setup will now install Microsoft .NET Framework for the selected platforms. Click Yes' to continue. Choosing 'No' will exit the Setup. In such a case, you may resume Setup later at any time. No
	Installer 🛛 🔀
	SQL User Password Provide a password for SQL user 'sa'
g the	Please provide a password for SQL user 'sa'
	Sull user sa Enter Password
	Next >Cancel
-	
mServe	Installer
	Setup will now install a dedicated instance of the Database Engine. This process may take some time. Elick 'Yes' to continue. This is an essential step for the successful installation of the software. Choosing 'No' will exit the Setup. In such a case, you may resume Setup later at any time. Yes No
	Installer
	Database Engine Installation Path Please provide the location to install the database engine.
tem	Click Next to accept the default location, or click Browse to choose an alternate location.
, it is	Database Engine Installation Path CAProgram Files/MSSQL2008 Bjowse
n drive.	C: 11953 MB
	<back next=""> Cancel</back>

8. Click **YES** to install Microsoft .NET Framework package.

NOTES

- This prompt is displayed only when Microsoft .NET Framework is not installed.
- Once the Microsoft .NET Framework is installed, the software automatically installs the Microsoft Visual J# 2.0 and Visual C++ redistributable package.
- 9. Specify the SQL Server System Administrator password.

Click Next.

NOTES

 This is the password for the administrator's account created by SQL during the installation.

- **10.** Click **Yes** to set up a dedicated instance of Microsoft SQL Server for the CommServe Server.
- **11.** Verify the Installation Path for the Database Engine.

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

Click Next.

NOTES

- This is the location where you want to setup the Microsoft SQL Server System databases.
- If you plan to perform VSS enabled backups on the CommServe computer, it is recommended that the CommServe database is not installed on the system drive. VSS restores could cause system state restore issues.
- The install program installs the database instance.

12. Verify MSSQL Database Installation Path.

Click Browse to change the default location.

Click Next.

NOTES

- This is the location where you want to install Microsoft SQL Server.
- This step may take several minutes to complete.

13.

14.

15.

	Installer
	MSSQL Database Installation Path Choose the folder to install the MSSQL Database.
	Click Next to accept the default location, or click Browse to choose an alternate location.
	MSSQL Database Installation Path
	Drive List C: 11953 MB C: 1195 MB C:
	< <u>B</u> ack <u>N</u> ext> <u>Cancel</u>
If this message is displayed, click Reboot Now to continue. The install program will automatically resume from the point of failure after the reboot.	Installer
If the install program does not automatically resume after the reboot:	Setup detected that a reboot is required before continuing this installation.
 Click the Start button on the Windows task bar, and then click Run. Browse to the installation disc drive, select Setup.exe, click Open, then click OK. 	Would you like Setup to reboot your computer now?
NOTES	
 Click the Skip Reboot option if it is displayed and continue with the installation. You can reboot at a later time if the option is displayed. 	
	Reboot Now Exit Setup
Click Next.	Installer
NOTES	CommServe Name Specify the CommServe computer name and host
The CommServe Client Name and CommServe Host Name are automatically populated.	CommServe Client Name Mycomputer CommServe Host Name [Enter a val. full-qualified. IP host name; for example: mycomputer.mycompany.com
	< <u>Back</u> <u>N</u> ext> <u>Cancel</u>
Select Add programs to the Windows Firewall Exclusion List, to add CommCell programs and services to the Windows Firewall Exclusion List.	Installer X Windows Firewall Exclusion List
Click Next.	Allow programs to communicate through Windows Firewall
This option enables CommCell operations across Windows firewall by adding CommCell programs and services to Windows firewall exclusion list.	Windows Firewall is ON
It is recommended to select this option even if Windows firewall is disabled. This will allow the CommCell programs and services to function if the Windows firewall is enabled at a later time.	If you plan on using Windows Firewall, it is recommended to add the software programs to the exclusion list.
	Installer < Back Next > Cancel
Verify the default location for software installation.	

16. Verify the default location for softwar

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

Click Next.

NOTES

• 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.

Verify the location of the database.
 Click Browse to change the default location.
 Click Next.

- NOTES
- Do not specify a mapped network drive.
- Ensure that the drive has at least 1GB of free space.
- The directory file path selected should not be located on a FAT drive. A FAT drive cannot be supported as the location for this database because it does not allow a temporary sparse file to be generated when creating the database snapshot, which is required for data verification.

18. Select the Create a New Database option and click Next to continue.

NOTES

• This screen may look different from the example shown.

19. Enter the network or local path where Disaster Recovery Backup files should be stored.

Click Next.

NOTES

- If you selected Use Network Path, you must enter the Network share username and the Network share password.
 - $\circ~$ The Network share username is the domain/username of the user that has administrative rights to the Disaster Recovery Backup destination path.
 - $\circ\;$ The Network share password is the password of the network share username.
- 20. Enter the CommCell Username and CommCell Password. Click Next.

Installer	
Destination Folder	
Select the destination folder to install the pr	rogram files.
Click Next to accent the default location	or click Browse to choose an alternate location.
Destination Folder	
C:\Program Files\	Browse
Drive List	Course Description / Description and
C: 928 MB	Space Required / Recommended 1394 MB / 1670 MB
10. 320 MD	100411071010110
Installer	
	< Back Next > Cancel
Installer	
Database Path	
Location for database files	
Database Path	
C:\Program Files\MSSQL2008\MSSQL	Browse
Drive List	Space Required / Recommended
C: 10016 MB	200 MB / 1024 MB
Installer	
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21. Select **Setup Software Cache** option to download the software updates automatically.

Select **Schedule FTP Download of Automatic Updates** option to schedule automatic FTP downloading of software updates.

Click Next.

22. Specify the path where the update files from the FTP site should be stored. Click **Next**.

NOTES

• This prompt will be displayed if the Setup Software Cache option was enabled.

23. Click Next.

NOTES

 Schedule Install of Automatic Updates allows automatic installation of the necessary software updates on the computer on a single or weekly basis. If you do not select this option, you can schedule these updates later from the CommCell Console.

24. Click **Yes** to configure the CommCell Console for web administration, or Click **No** to continue without configuring the CommCell Console for web administration.

NOTES

- The Internet Information Server (IIS) must be installed on this computer in order to configure for web administration.
- Configuring this computer for web administration allows you to:
 - $\circ\;$ Access the CommCell Console and Books Online from a remote computer using a Web browser.
 - View CommCell reports via a Web browser.

Installer	
Administrator Account The Administrator Account log in to the CommCell Cons	information can be used to
Username: Enter Password Confirm Passwor	
	<back next=""> Cancel</back>
nstaller	
Software Cache Setu Options require Software C	
software to remote machin	
	< <u>Back Next> Cancel</u>
nstaller	X
Software Cache Path Path to store software pac Path to store software pace Path to store software pace Path to store software pace Data Data Data Data Data Data Data Dat	skages and updates from
	< Back Next > Cancel
nstaller Schedule Install of Au Choose when you want to downloaded updates.	
 ✓ Schedule Install of A C Once ✓ Weekly 	uutomatic Updates Time: 08.31:12 PM 🚖 C Monday C Tuesday C Wednesday C Thursday C Friday C Saturday
Installer —	C Sunday
nstaller	
😲 Do you w	ant to configure CommCell Console for web administration?
	Yes No

 Access Books Online by clicking the Help button (the icon with a ?) in the CommCell Console.

25. Click Next.

NOTES

 The install program now starts copying the software to the computer. This step may take several minutes to complete.

ummary of install selections			
Setup has enough information to s install settings, click Next to begin		s. If you are satisfie	d with the
Destination Path = C.VFrogram File CormServe Host = mycomputer.m Interface Name = audi.mycompan Client = audi. Job Results Path = C.VFrogram Fil Global Filters = Use Cell level point C	nycompany.com y.com es∖JobResults		~
Installer			

INSTALL REMAINING CLUSTER NODES

If you are installing in clustered environment, follow the steps below to install on remaining nodes of the cluster. For non-clustered environment, skip to Setup Complete.

Installer

26. To install/upgrade the software on the remaining nodes of the cluster, click **Yes**.

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

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

NOTES

- 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. For more information, see Multi Instancing.

When you have completed your selections, click Next to continue.

 Type the User Name and Password for the Domain Administrator account, so that the installer can perform the remote install/upgrade of the cluster nodes you selected in the previous step.

Click **Next** to continue.

<u>Yes</u> No	
Installer	X
Cluster Node Selection Select cluster nodes to configure	
Preferred Nodes Selected Nodes Configured Nodes VmcLuster2 > > <	
<u>N</u> ext> Cancel	
Installer	×
Domain administrator account information Please provide domain administrator account	
Domain Account Information User Name (<pre>cDOMAIN(USER): LAB\Administrator Account Password: </pre>	
	_
< <u>B</u> ack Next> Cancel	

29. 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.

NOTES

- 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.
- Installer You can stop remote install at any time. Installed clients will not be uninstalled. Clients in progress will continue installation, but their results will not show correctly. Client Name Client Status Start Time End Time Result Description eal2 • F 0 1 Left to install: Installed successfully: In progress: 0 Max: 1 🚊 0 Failed to install: Elapsed time: 0 sec Estimated time left: 10 min 0 sec Γ Installer Stop Advanced Settings Installer Number of simultaneous remote machines to run Setup: 10 🚊 machines Time to wait for Setup to start on each remote machine: 2 🚊 minutes Time to wait for Setup to complete on each remote machine: 15 🚊 minutes OK
- 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.)

Read the summary for remote installation to verify that all selected nodes were

• The message displayed on your screen will reflect the status of the selected nodes, and may look different from the example.

Click Next to continue.

installed successfully.

NOTES

nstaller	
Results Remote install results	
Summary of remote install	
The following software (Version) were selecte + CommCell	d to be installed:
REAL2: Install succeeded.	
	×
<u> </u>	
	[]

SETUP COMPLETE

31. Click Next.

30.

Installer
Schedule Reminder Job schedule creation reminder
Please note: You still need to create a Job Schedule for each DataAgent that has been installed on this clear computer. Job Schedules are required to allow the DataAgents to perform automated backup and restore operations. Job Schedule creation can be accomplished through the CommCell Console administration interface.
Installer

32. Click Finish.

Installer	×
Completion Report Setup complete	
Software installation completed successfully. Visit the website below to download latest Updates and Service Packs. Dlick Finish to complete Setup.	<u>–</u>
	¥
Installer	Enish

- **33.** Proceed as follows, based on your installation configuration:
 - If you installed both the CommServe software and the CommServe database in the cluster group:
 - a. If the passive node was not available while installing the software, you must manually install the software on the passive node now. (See Manually Installing the Software on a Passive Node for step-by-step instructions.)
 - b. Fail over the disk group containing the CommServe to the passive nodes at least once, so that the configurations to the passive node occur. This must be done before installing any other software components. The install program updates the passive nodes on the cluster so that the virtual server can fail over. A program to create the CommServe Data Source Name (DSN) is launched automatically on each passive node.
 - c. Fail back the nodes, then continue on to the MediaAgent installation.
 - d. You must install the CommCell Console on a physical node of the cluster before proceeding. For instructions, see Install the CommCell Console - Windows.
 - If you installed the CommServe software on the active physical node, and the SQL database resides in the cluster group, you must now install the CommServe software on every passive node as well. For step-by-step instructions, see Manually Installing the Software on a Passive Node.

POST-INSTALL CONSIDERATIONS

GENERAL

- Review Install Considerations after installing the software.
- Install post-release updates or Service Packs that may have been released after the release of the software. Alternatively, you can enable Automatic Updates for quick and easy installation of updates in the CommCell[®] console.

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Install the MediaAgent - Windows

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INSTALL REQUIREMENTS

The following procedure describes the steps involved in installing the Windows MediaAgent on both clustered and non-clustered environment. The Windows MediaAgent is installed on a computer that satisfies the minimum requirements specified in System Requirements - MediaAgent.

Review the following Install Requirements before installing the software:

GENERAL

- The MediaAgent can only be installed after the CommServe[®] software has already been installed. Also, keep in mind that the CommServe[®] software must be running (but not necessarily on the same computer) before you can install the MediaAgent.
- This version of the software is intended to be installed where the CommServe Server is in 9.0.0.
- Ensure that you have an available license on the CommServe for the MediaAgent. Also, if you wish to install the NDMP Remote Server, make sure that you
 have an appropriate license.
- Do not install the MediaAgent on a compressed drive.
- Close all applications and disable any programs that run automatically, including anti-virus, screen savers and operating system utilities. Some of the
 programs, including many anti-virus programs, may be running as a service. Stop and disable such services before you begin. You can re-enable them after
 the installation.
- Ensure the account under which the **Bull Calypso Communications Service (GxCVD)** runs has Full permissions to all files and folders on drives where backups will occur. By default the *i*DataAgent uses the System account, which should have access to all objects on the client.
- Verify that you have the software installation disc that is appropriate to the destination computer's operating system.

Make sure that you have the latest software installation disc before you start to install the software. If you are not sure, contact your software provider.

NETWORK

 If your MediaAgent computer has multiple Network Interface Cards and IP addresses, make certain that all network communication paths are working. Also, make sure that the network interface to be used in the MediaAgent installation is set as the first one to be bound on the network. For more information on Network Interface Cards, see Network Requirements.

CLUSTER SPECIFIC

- The MediaAgent can be installed from the active node in the cluster group using the following procedure. The software can also be automatically installed on all available passive nodes when the software is installed in the cluster group, or you can choose to install any passive node(s) separately.
- Check the following on the cluster computer in which you wish to install the software:
 - Cluster software is installed and running.
 - Active and passive nodes are available.
 - Disk array devices configured with access to the shared array.
 - Public Network Interface Card is bound first, before the private Network Interface Card. (Does not apply to NetWare Cluster.)

BEFORE YOU BEGIN

- Log on to the computer that will serve as the MediaAgent as a local Administrator or as a member of the Administrators group on that computer.
- On a clustered computer, ensure that you are logged on to the active node as the Domain User with administrative privileges to all nodes on the cluster.

INSTALL PROCEDURE

GETTING STARTED

1. Place the Software Installation Disc for the Windows platform into the disc drive.

After a few seconds, the installation program is launched.

Select the option to install software on this computer.

software is being installed.

If the installation program does not launch automatically:

- Click the Start button on the Windows task bar, and then click Run.
- Browse to the installation disc drive, select **Setup.exe**, click **Open**, then click **OK**.

NOTES

NOTES

3.

4.

- If you are installing on Windows Server Core editions, mount to Software Installation Disc through command line, go to the AMD64 folder and run Setup.exe.
- 2. Choose the language you want to use during installation. Click the down arrow and select the desired language from the drop-down list, and click **Next** to continue.

• The options that appear on this screen depend on the computer in which the

Read the license agreement, then select I accept the terms in the license

	Select the language you will use during installation.
	English (United States)
	Next > Cancel
_	
	≓ Install Software on this computer
	Advanced options
-	F Advanced options
	View documentation website
	View Install Quick Start Guide (Requires Adobe Acrobat Reader)
	Install Adobe Acrobat Reader
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Lice	Iter Inse Agreement Use read the following License Agreement. Press PAGE DOWN key to view the entire agreement. End User License and Limited Warranty Agreement Software Release 9.0.0 (including Microsoft@ SQL Server TM 2008 Enterprise Edition, SQL Server TM
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Lice Ple the	Iter Iter sase read the following License Agreement. Press PAGE DOWN key to view the entire agreement. Iterative agreement. End User License and Limited Warranty Agreement Software Release 9.0.0 (including Microsoft@ SQL Server TM 2008 Enterprise Edition, SQL Server TM 2008 Express Edition and Windows Pre-Installation Environment) Iterative Jeanna Agreement. Concluding Microsoft@ SQL Server TM 2008 Enterprise Edition, SQL Server TM 2008 Express Edition and the installation Environment) Iterat Jeanna Agreement.

CLUSTER SELECTION

agreement.

Click Next to continue.

If you are installing in clustered environment, follow the steps below. For non-clustered environment, skip to Select Components for Installation.

5. Select Configure a Virtual Server.

Click Next to continue.

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

Installer Cutster Type Selection Configure the Physical Node or a Virtual Server Configure the Physical node Configure the Physical node Configure a Yirual server Configure a Yirual server Configure a Yirual server Cancel Installer Virtual Server Selection Select the virtual server you would like to configure Choose from the following list of disk groups configured on this cluster. Choose from the following list of disk groups configured on this cluster. Choose from the following list of disk groups configured on this cluster. Choose from the following list of disk groups configured on this cluster. Choose from the following list of disk groups configured on this cluster. Choose from the following list of disk groups configured on this cluster. Choose from the following list of disk groups configured on this cluster. Choose from the following list of disk groups configured on this cluster. Choose from the following list of disk groups configured on this cluster. Choose from the following list of disk groups configured on this cluster. Choose from the following list of disk groups configured on this cluster. Choose from the following list of disk groups configured on this cluster. Choose from the following list of disk groups configured on this cluster. Choose from the following list of disk groups configured on this cluster. Choose from the following list of disk groups configured on this cluster. Choose from the following list of disk groups configured on this cluster. Choose from the following list of disk groups configured on this cluster. Choose from the following list of disk groups configured on this cluster. Choose from the following list of disk groups configured on this cluster. Choose from the following list of disk groups configured on this cluster. Choose from the following list of disk groups configured on this cluster. Choose from the following list of disk groups configured on this cluster. Choose from the following list of disk groups configured on this cluster. Choose from the cluster. Choose

SELECT COMPONENTS FOR INSTALLATION

7. Select the component(s) to install.

NOTES

- Your screen may look different from the example shown.
- Components that either have already been installed, or which cannot be installed, will be dimmed. Hover over the component for additional details.
- If you wish to install the agent software for restore only, select **Install Agents for Restore Only** checkbox. See Installing Restore Only Agents for more information.
- The **Special Registry Keys In Use** field will be highlighted when GalaxyInstallerFlags registry key is enabled. Move the mouse pointer over this field to see a list of registry keys that have been created in this computer.

Click Next to continue.

To install the MediaAgent, under Common Technology Engine expand the MediaAgent Modules and select MediaAgent.

Optionally you can also select the following MediaAgent components at this time:

• NDMP Remote Server - Select this option if your MediaAgent has a library attached and is used by a NAS NDMP client to backup data. (Requires that you have an appropriate license on the CommServe.)

CONFIGURATION OF OTHER INSTALLATION OPTIONS

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

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

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



9. Enter the fully qualified domain name of the CommServe Host Name. This should be TCP/IP network name. e.g., computer.company.com.

NOTES

- The CommServe client name is the name of the computer. This field is automatically populated.
- Do not use space and the following characters when specifying a new name for the CommServe Host Name:

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

- If a computer has already been installed, this screen will not be displayed; instead the installer will use the same Server Name as previously specified.
- If you do not specify the CommServe Host Name, a window will be prompted to continue in decouple mode. Click **Yes** to continue to Decoupled Install. Click **No** to specify a CommServe Name and continue with the installation.

Click Next to continue.

 Enter the username and password associated with an external domain user account or a CommCell user account to authorize the installation of this agent.

NOTES

• This window will be displayed when the **Require Authentication for Agent Installation** option is selected in the **CommCell Properties**. For more information, see Authentication for Agent Installs.

Click Next to continue.

- **11.** Enter the following:
 - The local (NetBIOS) name of the client computer.
 - The TCP/IP IP host name of the NIC that the client computer must use to communicate with the CommServe Server.

NOTES

- Do not use spaces when specifying a new name for the Client.
- The default network interface name of the client computer is displayed if the computer has only one network interface. If the computer has multiple network interfaces, enter the interface name that is preferred for communication with the CommServe Server.
- If a component has already been installed, this screen will not be displayed; instead, the install program will use the same name as previously specified.

Click Next to continue.

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

NOTES:

- If Windows Firewall is enabled on the computer, this option is selected by default and must be enabled to proceed with the installation.
- If Windows Firewall is disabled on the computer, you can select this option to add the programs and services to enabled CommCell operations across the firewall, if the firewall is enabled at a later time.

staller 🔀
irewall Configuration Configure firewall services
If there is a firewall between this machine and the CommServe, configure firewall services below.
Configure firewall services Please specify how Windows Firewall is limiting network traffic. Whether it is possible to open connection from here to a CommServe's turnel port, whether all connections toward CommServe a blocked, and setup should nited expect CommServe to connect back to this machine, or whether there is a Proxy in between. C This machine can open connection to CommServe on turnel port.
C CommServe can open connection toward this machine C CommServe is reachable only through a proxy
Installer Cancel
staller 🛛 🗙
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

< Back

Next>

Cancel

company.com

mycomputer.mycompany.com

Installe

				×
nstallation Authen Enter an account confi Administrative Manager	gured on the Cor			
Account Info User Name: Pessword: Pessword: Staller Communication Inf Setup will configue the	erface Name		<u>N</u> ext >	
	Select a client r	name		
	communicate w	ace name that this c ith the CommServe w.com for the selected hos		
Installer		< Back	Next>	Cancel

You can either select this option during install or add the programs and services after installation. For adding the programs and services after installation, see Configure Windows Firewall to Allow CommCell Communication.

Click **Next** to continue.

staller		
Vindows Firewall Exclusion Lis Allow programs to communicate through Firewall		
Windows Firewall is ON		
Add programs to the Windows F	Firewall Exclusion List	
If you plan on using Windows Firew exclusion list.	vall, it is recommended to add the software programs to	o the
Installer	<back next=""> Canc</back>	el
staller		X
i <mark>staller</mark> I estination Folder Select the destination folder to install the	e program files.	
cestination Folder Select the destination folder to install the	e program Ries. on, or click Browse to choose an alternate location. Browse	
Select the destination folder to install the Click Next to accept the default location folder -	on, or click Browse to choose an alternate location.	
Select the destination folder to install the Click Next to accept the default location folder -	on, or click Browse to choose an alternate location.	
Estination Folder Select the destination folder to install the Click Next to accept the default location Destination Folder [CINProgram Files]	on, or click Browse to choose an alternate location. Browse Space Required / Recommended	

13. Specify the location where you want to install the software.

NOTES

- 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.
- If you intend to install other components on this computer, the selected installation directory will be automatically used for that software as well.
- If a component is already installed in this computer, this screen may not be displayed. The software will be automatically installed in the same location that was previously specified.

Click Browse to change directories.

Click Next to continue.

SCHEDULE AUTOMATIC UPDATE

14. If necessary, select this option to schedule an automatic installation of software updates.

NOTES

- Schedule Install of Automatic Updates allows automatic installation of the necessary software updates on the computer on a single or weekly basis. If you do not select this option, you can schedule these updates later from the CommCell Console.
- To avoid conflict, do not schedule the automatic installation of software updates to occur at the same time as the automatic FTP downloading of software updates.
- If a component has already been installed, this screen will not be displayed; instead, the installer will use the same option as previously specified.

Click Next to continue.

15. Select **Yes** to stop Removable Storage Services on the MediaAgent.

NOTES

• This prompt will not appear if Removable Storage Services are already disabled on the computer.

Click Next to continue.

Schedule Install of Auto Choose when you want to sch downloaded updates.	
l ✔ Schedule Install of Aut	omalic Updates
C Once	Time: 08:31:12 PM + Monday C Tuesday C Wednesday C Thursday
Installer	ົFriday ົSaturday ົSunday
	< Back Next > Cancel
Installer Removable Storage Ser The Removable Storage serv disabled	
functioning of the MediaAg Do you want to stop and d re Yes, stop and disable t	ervice must be stopped and disabled. This is required for correct ent. isable the Removable Storage service? he Removable Storage Service able Storage Manager (RSM)
Installer	< Back Next > Cancel

Installer

VERIFY SUMMARY OF INSTALL OPTIONS

16. Verify the summary of selected options.

NOTES

18.

19.

NOTES

server.

• The **Summary** on your screen should reflect the components you selected for install, and may look different from the example shown.

Click **Next** to continue or **Back** to change any of the options.

The install program now starts copying the software to the computer. This step may take several minutes to complete.

Summary of install selections		
Setup has enough informa install settings, click Next	ation to start copying the program files. If you are to begin copying files.	e satisfied with the
		^
Destination Path = C:\Pro CommServe Host = muco Interface Name = audi.my Client = audi Job Results Path = C:\Pro	mputer, mycompany, com vcompany, com ngram Files∖JobResults	
Global Filters = Use Cell le	vel policy	≥

INSTALL REMAINING CLUSTER NODES

move them to the Selected Nodes list.

information, see Multi Instancing.

If you are installing in clustered environment, follow the steps below to install on remaining nodes of the cluster. For non-clustered environment, skip to Setup Complete.

17. To install/upgrade the software on the remaining nodes of the cluster, click **Yes**.

Select cluster nodes from the **Preferred Nodes** list and click the arrow button to

• 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

Do not select nodes that already have multiple instances installed. For more

Type the User Name and Password for the Domain Administrator account, so that

the installer can perform the remote install/upgrade of the cluster nodes you selected

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

Installer	ould you like to insta	all the software on remaining	ng nodes on the cluste	n
~	Ye	s No		
Installer				X
Cluster Node Select cluster n	Selection odes to configure			
Preferred Nodes	× ×	Selected Nodes	Configured VMCLUST <	
	inistrator acco domain administrate	unt information or account		×
	ccount Information			

When you have completed your selections, click Next to continue.

in the previous step. Click **Next** to continue.

nstaller	
Domain administrator account information Please provide domain administrator account	
Domain Account Information User Name (<ddmain\user>);</ddmain\user>	
LAB \Administrator Account Password	
< <u>Back</u> <u>Next</u> Ca	ncel

20. 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.

NOTES

• 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.

Installer
You can stop remote install at any time. Installed clients will not be uninstalled. Clients in progress will continue installation, but their results will not show correctly.
Client Name Client Status Start Time End Time Result Description
real2
Installed successfully: 0 Left to install: 1
Failed to install: 0 In progress: 0 Max: 1 🚊
Elapsed time: 0 sec Estimated time left: 10 min 0 sec
Installer
Advanced Settings Stop
Installer
Number of smultaneous remote machines to run Setup: 10 $\frac{1}{24}$ machines Time to wait for Setup to start on each remote machine: 2 $\frac{2}{24}$ minutes Time to wait for Setup to complete on each remote machine: 15 $\frac{1}{24}$ minutes
Installer 🛛 🔀
Results Remote install results
Summary of remote install
The following software (Version) were selected to be installed:
<u>ب</u> ۲

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

NOTES

- 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.

Click Next to continue.

nstaller	
Completion Report	
Setup complete	
Software installation completed successfully.	A
Visit the website below to download latest Updates and Service Packs.	
Click Finish to complete Setup.	
clear that to complete setup.	
	-
	<u> </u>
Installer	
Technical Support Website	Einish

Finis

SETUP COMPLETE

22. Setup displays the successfully installed components.

NOTES

- The **Setup Complete** message displayed on your screen will reflect the components you installed, and may look different from the example shown.
- If you install an Agent with the CommCell Console open, you need to refresh the CommCell Console (F5) to see the new Agents.
- If **Reboot Now** button is displayed make sure to reboot the computer before performing any other operations from the computer.

Click **Finish** to close the install program.

The installation is now complete.

POST-INSTALL CONSIDERATIONS

GENERAL

- Review Install Considerations after installing the software.
- Install post-release updates or Service Packs that may have been released after the release of the software. When you are installing a Service Pack, ensure that it is the same version as the one installed in the CommServe Server. Alternatively, you can enable Automatic Updates for quick and easy installation of updates in the CommCell component.

Install the Microsoft Windows File System iDataAgent

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Post-Install Considerations

INSTALL REQUIREMENTS

The following procedure describes the steps involved in installing the Windows File System iDataAgent on both clustered and non-clustered environment.

The Windows File System iDataAgent is installed on the computer from which the iDataAgent secures data. (This computer is referred to as the *Client* computer in this install procedure.)

Verify that the computer in which you wish to install the software satisfies the minimum requirements specified in System Requirements - Microsoft Windows File System *i*DataAgent.

Review the following Install Requirements before installing the software:

GENERAL

- Review Install Considerations before installing the software.
- Agents should be installed only after the CommServe and at least one MediaAgent have been installed in the CommCell. Also, keep in mind that the CommServe[®] software and MediaAgent must be installed and running (but not necessarily on the same computer), before you can install the Agent.
- Close all applications and disable any programs that run automatically, including anti-virus, screen savers and operating system utilities. Some of the
 programs, including many anti-virus programs, may be running as a service. Stop and disable such services before you begin. You can re-enable them after
 the installation.
- Ensure there is an available license on the CommServe software for the Agent.
- Verify that you have the Software Installation Disc that is appropriate to the destination computer's operating system.

CLUSTER SPECIFIC

- The Windows File System *i*DataAgent can be installed from the active node in the cluster group using the following procedure. The software can also be automatically installed on all available passive nodes when the software is installed in the cluster group, or you can choose to install any passive node(s) separately.
- For a File System *i*DataAgent in a cluster group, a Virtual File System license is required. For more information about cluster license requirements, refer to Clustering Support License Requirements.
- Check the following on the cluster computer in which you wish to install the software:
 - Cluster software is installed and running.
 - Active and passive nodes are available.
 - $\circ~$ Disk array devices configured with access to the shared array.
 - o Public Network Interface Card is bound first, before the private Network Interface Card. (Does not apply to NetWare Cluster.)

BEFORE YOU BEGIN

- Log on to the client as local Administrator or as a member of the Administrators group on that computer.
- On a clustered computer, ensure that you are logged on to the active node as the Domain User with administrative privileges to all nodes on the cluster.

INSTALL PROCEDURE

GETTING STARTED

1. Place the Software Installation Disc for the Windows platform into the disc drive.

After a few seconds, the installation program is launched.

If the installation program does not launch automatically:

- Click the Start button on the Windows task bar, and then click Run.
- Browse to the installation disc drive, select **Setup.exe**, click **Open**, then click **OK**.

NOTES

3.

5.

- If you are installing on Windows Server Core editions, mount to Software Installation Disc through command line, and run Setup.exe.
- If remotely installing to other physical nodes of the cluster, ensure you mount the software installation disc on a UNC path or a shared location (e.g., \\machine_name\shared_directory_name).

Γ

2. Choose the language you want to use during installation. Click the down arrow and select the desired language from the drop-down list, and click **Next** to continue.

e.	
	Select the language you will use during installation.
	English (United States)
	Next > Cancel
e	≓ Install Software on this computer
	Advanced options
	View documentation website
	 View Install Quick Start Guide (Requires Adobe Acrobat Reader) Install Adobe Acrobat Reader
	🖨 Exit
	Installer
	Welcome The Installer will guide you through the setup process for Software
	This program will install Software on your computer.
	It is strongly recommended that you exit all Windows programs before running this Setup program.
	Click Cancel to quit Setup and then close any programs you have running. Click Next to continue with Setup.
	WARNING: This program is protected by copyright law and international treaties. Unauthorized reproduction or distribution of this program, or any portion of it, may result in severe civil and criminal penalties, and will be prosecuted to the maximum extert possible under the law.
	Installer
	Next > Cancel
	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 scanner and subsequent failure for setup to install its own files.
	Click DK once you have disabled them and setup will continue.
	ПК

NOTES

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.

Read the Welcome screen.
 Click Next to continue, if no other applications are running.

Read the virus scanning software warning.

Read the license agreement, then select I accept the terms in the license

Click **OK** to continue, if virus scanning software is disabled.

 Read the license agreement, then select 1 accept the terms in the licens agreement.
 Click Next to continue

Click Next to continue.

He PAGE DOWN key to view the entite agreement. End User License and Limited Warranty Agreement Software Release 9.0.0 (including Microsoft® SQL Server TM 2008 Enterprise Edition, SQL Server TM 2008 Express Edition and Windows Pre-Installation Environment) Full Team I teams A semanat C accept the terms in the license agreement. Installer		ense Agreement lease read the following License Agreement. Press
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		 I accept the terms in the license agreement.
Installer		C I do not accept the terms in the license agreement.
		Installer

CLUSTER SELECTION

If you are installing in clustered environment, follow the steps below. For non-clustered environment, skip to Select Components for Installation.

7.	Select Configure a Virtual Server.	Installer
	Click Next to continue.	Cluster Type Selection Configure the Physical Node or a Virtual Server
		Configuration Options C Configure the Physical node C Configure a Vetitual server (Back Rett) Cancel
8.	Select the disk group in which the cluster group resides.	Installer
	Click Next to continue.	Virtual Server Selection Select the virtual server you would like to configure
		Choose from the following list of disk. groups configured on this cluster. 2003Gluster/VMS

SELECT COMPONENTS FOR INSTALLATION

9. Select the component(s) to install.

NOTES

- Your screen may look different from the example shown.
- Components that either have already been installed, or which cannot be installed, will be dimmed. Hover over the component for additional details.
- If you wish to install just the Driver for File Archiver on the physical computer for the Add-on Archiver in a cluster configuration, select the following:
 - O Windows File System *i*DataAgent
 - O Driver for File Archiver
 - O Install Agents for Restore Only
 - See Installing Restore Only Agents for more information.
- The **Special Registry Keys In Use** field will be highlighted when GalaxyInstallerFlags registry key is enabled. Move the mouse pointer over this field to see a list of registry keys that have been created in this computer.

Click **Next** to continue.



< Back Next>

Cancel

To install the Microsoft Windows File System *i*DataAgent, expand the following Client Modules folder, Backup & Recovery folder and File System folder. Then select the following:

• Windows File System *i*DataAgent

For Add-On Archiver feature expand Client Modules | Archive Management and select Driver for File Archiver.

CONFIGURATION OF OTHER INSTALLATION OPTIONS

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

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

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

Firewall Configuration Configure firewall services
If there is a firewall between this machine and the CommServe, configure firewall services below.
Configure firewall services
Please specify how Windows Fixewall is Imiling 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 etup should instead expect CommServe to connect back to this machine, or whether there is a frow in between.
This machine can open connection to CommServe on tunnel port
C CommServe can open connection toward this machine
C CommServe is reachable only through a proxy
Installer
Next > Cancel
Installer 🛛 🔀
CommServe Name Specity 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
X

stallation Authent Enter an account config Administrative Managem	jured on the Cor	mmCell that has		
Account Infor User Name: Password:	mation:			
		< <u>B</u> ack	<u>N</u> ext>	

11. Enter the fully qualified domain name of the CommServe Host Name. This should be TCP/IP network name. e.g., computer.company.com.

NOTES

- The CommServe client name is the name of the computer. This field is automatically populated.
- Do not use space and the following characters when specifying a new name for the CommServe Host Name:

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

- If a computer has already been installed, this screen will not be displayed; instead the installer will use the same Server Name as previously specified.
- If you do not specify the CommServe Host Name, a window will be prompted to continue in decouple mode. Click **Yes** to continue to Decoupled Install. Click **No** to specify a CommServe Name and continue with the installation.

Click Next to continue.

12. Enter the **username** and **password** associated with an external domain user account or a CommCell user account to authorize the installation of this agent.

NOTES

• This window will be displayed when the **Require Authentication for Agent Installation** option is selected in the **CommCell Properties**. For more information, see Authentication for Agent Installs.

Click **Next** to continue.

13. Enter the following:

- The local (NetBIOS) name of the client computer.
- The TCP/IP IP host name of the NIC that the client computer must use to communicate with the CommServe Server.

NOTES

- Do not use spaces when specifying a new name for the Client.
- The default network interface name of the client computer is displayed if the computer has only one network interface. If the computer has multiple network interfaces, enter the interface name that is preferred for communication with the CommServe Server.
- If a component has already been installed, this screen will not be displayed; instead, the install program will use the same name as previously specified.

Click **Next** to continue.

14. Select Add programs to the Windows Firewall Exclusion List, if you wish to add CommCell programs and services to the Windows Firewall Exclusion List.

NOTES:

- If Windows Firewall is enabled on the computer, this option is selected by default and must be enabled to proceed with the installation.
- If Windows Firewall is disabled on the computer, you can select this option to add the programs and services to enabled CommCell operations across the firewall, if the firewall is enabled at a later time.

You can either select this option during install or add the programs and services after installation. For adding the programs and services after installation, see Configure Windows Firewall to Allow CommCell Communication.

Click Next to continue.

DO	WNI	0AD	INSTAL	1.1	ATEST	PACKS
20		.070	THOTAL			I ACINO

15. Select **Download latest update pack(s)** to automatically download and install the latest service packs and/or post packs if applicable at the end of this agent install.

NOTES

- Internet connectivity is required to download updates.
- Updates are downloaded to the following directory: <software installation>/Base/Temp/DownloadedPacks. They are launched silently and installed automatically for the first instance.

Click **Next** to continue.

16.	Specify the	location	where	you	want to	install	the	software.
-----	-------------	----------	-------	-----	---------	---------	-----	-----------

NOTES

- 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.
- If you intend to install other components on this computer, the selected installation directory will be automatically used for that software as well.
- If a component is already installed in this computer, this screen may not be displayed. The software will be automatically installed in the same location that was previously specified.

Click **Browse** to change directories.

Click Next to continue.

CLIENT	GROUP	SELECTION	

17. Select a Client Group from the list.

Click Next to continue.

Installer		<u>×</u>		
Communication In Setup will configure the	terface Name e communication paths.			
	Select a client name			
	audi_cn 💌			
	Select an interface name that this computer will use to communicate with the CommServe			
	audi.mycompany.com			
	IP Address(es) for the selected host.			
Installer				
	< Back Next > Cancel			
Installer	e e e e e e e e e e e e e e e e e e e			
Windows Firewall Allow programs to com Firewall	Exclusion List municate through Windows			
Windows Firewall	is ON			
✓ Add programs to the Windows Firewall Exclusion List				
If you plan on using Windows Firewall, it is recommended to add the software programs to the exclusion list.				
Installer	(Dark Nick) Count			

Download latest update pack(s) Make sure you have internet connectivity at this time. This process may take some time depending on download speed.
Installer < Back Cancel
Installer Destination Folder Select the destination folder to install the program files.
Click Next to accept the default location, or click Browse to choose an alternate location. Destination Folder Browse
Drive List Space Required / Recommended 1394 MB / 1670 MB
Installer Cancel Cancel

Installer

NOTES

• This screen will be displayed if Client Groups are configured in the CommCell Console. For more information, see Client Computer Groups.

Installer					K
Client Group Selection Select a client group for the clien	nt.				
which have the	p is a logical group same association y, Activity Control,	s at various	levels like		
Client gro None Sel client_gro	ected				
Installer	< E	Back	Next>	Cancel	

SCHEDULE AUTOMATIC UPDATE

18. If necessary, select this option to schedule an automatic installation of software updates.

NOTES

- Schedule Install of Automatic Updates allows automatic installation of the necessary software updates on the computer on a single or weekly basis. If you do not select this option, you can schedule these updates later from the CommCell Console.
- To avoid conflict, do not schedule the automatic installation of software updates to occur at the same time as the automatic FTP downloading of software updates.
- If a component has already been installed, this screen will not be displayed; instead, the installer will use the same option as previously specified.

Click Next to continue.

Installer			
Schedule Install of Autor Choose when you want to sch downloaded updates.			
Schedule Install of Auto	matic Updates		
C Once			
Weekly	Time: 08:31:12	2 PM 🔆	
	Wednesday	C Thursday	
	Friday	C Saturday	
	C Sunday		
Installer			
	< Back	Next >	Cancel

GLOBAL FILTERS SELECTION

19. Select the necessary Global Filter option for the default subclient and Click **Next** to continue.

NOTES

- Select **Use Cell level Policy** to inherit the global filter policy configuration set for the CommCell, i.e., if the **Use Global Filters on All Subclients** option is selected in the **Global Filters** dialog box (from the CommCell Console's Control Panel), then this policy will be applied to the default subclient as well. If is not selected, then the global filters will not be applied to the default subclient.
- Select **Always use Global filters** to apply the global filters policy to the default subclient regardless of the policy set for the CommCell.
- Select **Do not use Global filters** to disregard applying the global filters to the default subclient regardless of the policy set for the CommCell.

Click Next to continue.

STORAGE POLICY SELECTION

- 20. Select Configure for Laptop or Desktop Backup option to install Backup Monitor utility which allows you to view the backup job summary of your client computer. See Backup Monitor for more information.
 - Select the storage policy through which you want to back up/archive the agent.

NOTES

- A storage policy directs backup data to a media library.
- If desired, you can change your storage policy selection at any time after you have installed the client software.
- This screen may appear more than once, if you have selected multiple agents for installation. You will be prompted to configure the storage policy association for each of the selected agents.

Click Next to continue

Installer	\mathbf{X}
Select Global Filter Options Select the Global Filter Options for the Agent.	
Global Filters provides the ability to set exclusions within a CommCell to filter out data from data protection operations on all agents of a certain type.	
Use Cell level policy Always use Global Filters Do not use Global Filters	
 Do not use sidoar hiters 	
Installer Cancel	

nstaller 🛛 🕅
Storage Policy Selection
Select a storage policy for the default subclient to be backed up.
Configure for Laptop or Desktop Backup
Select a storage policy from the pull-down list.
Unassigned
Installer < Back Next > Cancel

VERIFY SUMMARY OF INSTALL OPTIONS

21. Verify the summary of selected options.

NOTES

• The **Summary** on your screen should reflect the components you selected for install, and may look different from the example shown.

Click Next to continue or Back to change any of the options.

The install program now starts copying the software to the computer. This step may take several minutes to complete.



INSTALL REMAINING CLUSTER NODES

If you are installing in clustered environment, follow the steps below to install on remaining nodes of the cluster. For non-clustered environment, skip to Setup Complete.

22. To install/upgrade the software on the remaining nodes of the cluster, click Yes.

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

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

NOTES

- 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. For more information, see Multi Instancing.

When you have completed your selections, click Next to continue.

24. Type the User Name and Password for the Domain Administrator account, so that the installer can perform the remote install/upgrade of the cluster nodes you selected in the previous step.

Click **Next** to continue.

Would you like to install the software on remaining nodes on the cluster?
Yes No
Installer 🔀
Cluster Node Selection Select cluster nodes to configure
Petered Nodes Selected Nodes Impluster2 > Impluster2
Installer 🛛
Domain administrator account information Please provide domain administrator account
Domain Account Information User Name [c00MAIN\USER>}: [LAB\Administrator Account Password:
<u> </u>

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

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

Click Advanced Settings to specify any of the following:

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

wil	II.	fa	il	

NOTES

- 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.
- Installer You can stop remote install at any time. Installed clients will not be uninstalled. Clients in progress will continue installation, but their results will not show correctly. Client Name Client Status Start Time End Time Result Description eal2 Þ 0 Left to install: Installed successfully: Max 1 Failed to install: 0 In progress: Elapsed time: 0 sec Estimated time left: 10 min 0 sec Installe Advanced Settings Stop Installer Number of simultaneous remote machines to run Setup: 10 🕂 machines Time to wait for Setup to start on each remote machine: 2 🛨 minutes Time to wait for Setup to complete on each remote machine: 15 🚊 minutes OK
- **26.** Read the summary for remote installation to verify that all selected nodes were installed successfully.

NOTES

- 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.

Click Next to continue.

nstaller	\mathbf{X}
Results Remote install results	
Summary of remote install	
The following software (Version) were selected to be installed: + CommCell	<u>^</u>
REAL2: Install succeeded.	
I.	
	[]

SETUP COMPLETE

27. Click **Next** to continue.

NOTES

• Schedules help ensure that the data protection operations for the Agent are automatically performed on a regular basis without user intervention. For more information, see Scheduling.

Installer
Schedule Reminder Job schedule creation reminder
Please note: You still need to create a Job Schedule for each iDataAgent that has been installed on 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

28. Setup displays the successfully installed components.

NOTES

- The **Setup Complete** message displayed on your screen will reflect the components you installed, and may look different from the example shown.
- If you install an Agent with the CommCell Console open, you need to refresh the CommCell Console (F5) to see the new Agents.
- If **Reboot Now** button is displayed make sure to reboot the computer before performing any other operations from the computer.

Click **Finish** to close the install program.

The installation is now complete.

Installer	Ľ
Completion Report	
Setup complete	
Software installation completed successfully.	4
Visit the website below to download latest Updates and Service Packs.	
Click Finish to complete Setup.	
	-
Installer	
Technical Support Website	sh

POST-INSTALL CONSIDERATIONS

GENERAL

- Review Install Considerations after installing the software.
- Install post-release updates or Service Packs that may have been released after the release of the software. When you are installing a Service Pack, ensure that it is the same version as the one installed in the CommServe Server. Alternatively, you can enable Automatic Updates for quick and easy installation of updates in the CommCell component.

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Using the CommCell[®] Console

The CommCell Console is the graphical user interface that allows you to control and manage a CommCell group. Using the CommCell Console, you can initiate a variety of tasks such as the following:

- Establish and change configurations of CommCell entities (e.g., storage policies, etc.)
- Start or schedule backups, restores, or administrative jobs
- Monitor ongoing jobs
- Evaluate success of completed jobs
- Monitor system events

STARTING THE COMMCELL[®] CONSOLE

- 1. Launch the CommCell Console from the Start | Programs menu, or by clicking the CommCell Console icon on your desktop.
- The CommCell Logon information window appears.
- 2. Type the user name and password and click $\ensuremath{\textbf{OK}}$.

This is the user name and password that you entered in the **CommCell Account** dialog box, during installation.

3. A warning prompt may be displayed if you are using an Evaluation license. Click **OK** to continue.

In a few moments, the CommCell Console is displayed and is ready for use.

COMMCELL[®] CONSOLE COMPONENTS

The CommCell Console contains three main components, the CommCell Browser, Job Controller, and Event Viewer.

COMMCELL[®] BROWSER

The CommCell Browser presents all objects in the CommCell group in a tree structure. These objects are displayed under the following categories: Client Computers, CommCell Users, CommCell User Groups, Storage Resources, and Storage Policies. The Browser is divided into two panes: the CommCell tree is displayed in the left pane and the right pane displays detailed information about the CommCell object selected in the left pane.

By The Origin State (a) System (b) By The Origin State (b) By

JOB CONTROLLER

The Job Controller displays information about running operations (backups, restores, etc.). You can view events, view details, and kill, suspend, or resume jobs using this tool. For more information on the Job Controller, see **Books Online**.

EVENT VIEWER

The Event Viewer displays events generated by jobs. Each event contains information about the process and its associated severity levels. Events can be filtered based on different criteria. For more information on the Event Viewer, see **Books Online**.

LANGUAGE SUPPORT

The CommCell[®] Console can be viewed in a variety of different languages. For information on supported languages, see Support Information - Languages.

By default, the CommCell Console will be displayed in the supported language currently running on your operating system. For example, if you are running the CommCell Console on a Windows computer, the CommCell Console will be displayed in the language set in the **Regional and Language Options** dialog box provided that language is supported by the software. Conversely, if the language running on your operating system is not supported by the software, the CommCell Console will be displayed in English.

If you wish to run the CommCell Console in a supported language that is different from the language used for your operating system (for example, you wish to run the CommCell Console in Italian while your operating system runs in English), you can configure the CommCell Console to run in the supported language by modifying the CommCell Console's Java command parameters. Note that the appropriate fonts and characters for the supported language must be available on the computer. For more information, see CommCell Console.

Back Up Your Data

TABLE OF CONTENTS

Overview Running a Backup View Backup History Browse and Restore Data

OVERVIEW

After installing the CommCell[®] components, it is necessary to exercise some basic operations to ensure that your system is ready for use. This chapter describes how to perform such basic operations such as running a backup, browsing and restoring data, and viewing backup history for an *i*DataAgent. For more information, see **Books Online**.

RUNNING A BACKUP

To run a backup:

1. From the CommCell[®] Browser, expand Client Computers by double-clicking Client Computers | <Computer name> | iDA File System | defaultBackupSet.

The default and other subclients (if available) is displayed on the right-pane.

- Right-click the default subclient and then click Backup. The Backup Options dialog box will be displayed.
- 3. Select the Full option from the Select Backup Type pane.
- 4. Select the Run Immediately option from the Job Initiation pane.
- Click OK. You can track the progress of the backup in the Job Controller window.

VIEW BACKUP HISTORY

To view backup history:

- 1. From the CommCell[®] Browser, right-click the **default** subclient and then click **Backup History**. The **Backup History Filter** dialog box will be displayed.
- 2. Click **OK**.

The **Backup Job History** window displays the backup job that was just executed. (Once you start performing regular backups, a list of all the backup jobs for the subclient will be displayed.)

By right-clicking a row in the **Backup Job History** window, you can view the following information:

- $\circ\;$ the files, if any, that failed to be backed
- $\circ\;$ details of the backup job
- media for the backup job
- \circ events for the backup job
- $\circ\;$ the list of files that were backed up
- log files

BROWSE AND RESTORE DATA

To browse and restore data:

- 1. From the CommCell[®] browser, right-click the backup set that contains the data that you want to browse, and click **Browse Backup Data** from the shortcut menu.
- 3. From the Browse Backup Data window, select the files and/or directories that you want to restore and then click Recover All Selected.
- 4. From the Restore Options dialog box, select the restore options that you want to use.

It is recommended that you restore the data to a different location on the same computer by changing the restore destination.

Click $\ensuremath{\textbf{OK}}$ to run the restore job.

5. You can track the progress of this running restore job from the **Job Controller** or the **Event Viewer** window.

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Where to Go From Here

Once you have installed the Express software, and have run backups and verified your data, you are ready to start using the CommCell Console to administer your CommCell. You can:

- Schedule Backups
- Schedule Reports
- Configure Alerts
- Add Agents
- And much more

SCHEDULE BACKUPS

Now that your clients have been installed, you can begin scheduling your backups. Scheduling your backups helps to ensure that the backups within the CommCell[®] group are automatically performed on a regular basis. You can schedule backups at various levels of the browser tree by right-clicking the entity that you want to back up and by selecting the appropriate menu options. For more information on scheduling backups, see **Books Online**.

To schedule a backup:

- 1. From the CommCell Browser, right click the subclient that you want to back up and then click **Backup** from the shortcut menu.
- 2. From Backup Options for Subclient, select Full Backup and Schedule.
- 3. Enter the schedule you want for the backup job in the **Schedule Details** dialog box.
- 4. Click **OK** to schedule the backup job.

SCHEDULE REPORTS

Now that you have run successful backups and have scheduled them, you should now schedule reports for daily administration purposes (e.g., a Job Summary Report, Audit Trail Report). The software provides a number of predefined reports that are useful for keeping in touch with the overall status of your system. For more information on scheduling reports, see **Books Online**.

- When scheduling reports, you need to:
 - $\circ~$ Setup the mail server and the sender's address on the General tab of the CommCell^ $^{\mbox{\scriptsize B}}$ Properties window.
 - Select the users who will receive the reports.
 - Specify the times (e.g., daily, weekly, monthly, etc.) when these reports will run.

To schedule a report:

- 1. From the CommCell Browser, select the **Reports** icon or select **Reports** from the **Tools** menu.
- 2. Select the report you want from the Report Selection screen.
- 3. Select any options in the General, Time Range and Output tabs of the Report Selection screen where applicable.
- 4. Once you have selected your options, click Schedule. The Select Users and Name dialog box appears.
- 5. Include the users who will receive the reports into the Users to be Notified field.
- 6. Click OK. The Schedule Details dialog box is displayed. Make your selections in the Schedule Details dialog box. Click OK.

CONFIGURE ALERTS

An Alert is a message sent by the CommServe[®] manager to inform the message recipient that a particular event has occurred or user action has been taken. (e.g., a backup job has succeeded or failed, your library is below a low media threshold, or your disk library is out of space). This message can be sent to any e-mail address and/or pager.

When configuring alerts, you need to:

- Setup the mail server and the sender's address on the E-Mail & IIS Configuration dialog box.
- Configure the alert in the Add Alert Wizard dialog box.

To configure an alert:

- 1. From the Tools menu in the CommCell console, click Control Panel, and then double-click Alerts.
- 2. From the **Alerts** window, click **Add**.
- 3. Follow the steps in the Add Alert Wizard dialog box.
- 4. When you have finished and have confirmed your options in the **Summary** step, click **Finish**.

5. The alert is displayed in the **Alerts** window. Click **OK**.

Your configuration is set.

OTHER OPERATIONS

The software has many more features that you will find useful. Refer to **Books Online** for information on these features.