

Features - OES File Systems *iDataAgent*

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INTRODUCTION

The OES File System iDataAgent is a backup and restore vehicle for NSS file system data (i.e., files and directories) residing on OES computer systems. This File System iDataAgent is just one of several iDataAgents that provide backup and restore support for different kinds of data in what is often a heterogeneous network environment.

SUPPORTED DATA TYPES

To secure a GroupWise database, you may use the Novell GroupWise iDataAgent, NetWare File System iDataAgent, or the OES File System iDataAgent, depending on your environment. Any other agent (e.g., Windows File System iDataAgent) cannot be used to secure a GroupWise database.

Note that to secure a GroupWise database using the NetWare File System iDataAgent or OES File System iDataAgent, Novell's TSAFS.NLM must be loaded with the EnableGW switch.

Data Protection Operations for the following data types are supported by the OES File System iDataAgent:

- NSS Volumes
- All types of namespaces

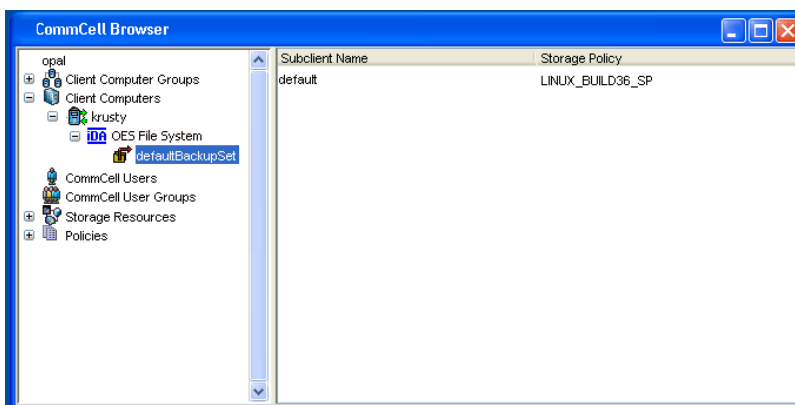
All other File Systems Supported by the OES Linux Operating System should be protected by the Linux File System iDataAgent.

GROUPWISE 2012

By default, the OES File System iDataAgent backs up GroupWise 2012 databases that reside on NSS volumes. To secure GroupWise 2012 databases residing on non-NSS volumes create a new subclient and configure it to point to the exact path of the GroupWise 2012 databases. For more information, see [Creating a Subclient to Backup GroupWise 2012 Databases](#).

TREE LEVELS IN THE OES FILE SYSTEM iDATAAGENT

When the OES File System iDataAgent is installed, the following levels are automatically created in the CommCell Browser.



krusty: Client

default: Subclients

OES File System: Agent

defaultBackupSet: Backup Sets

LICENSE REQUIREMENT

To perform a data protection operation using this Agent a specific Product License must be available in the CommServe® Server.

Review general license requirements included in License Administration. Also, View All Licenses provides step-by-step instructions on how to view the license information.

DISASTER RECOVERY CONSIDERATIONS

- Before you use your agent, be sure to review and understand the associated full system restore (or disaster recovery) procedure. The procedure for some agents may require that you plan specific actions or consider certain items before an emergency occurs. See Disaster Recovery for more information regarding your agent.

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System Requirements - OES File System iDataAgent

System Requirements | Supported Features

The following requirements are for the OES File System iDataAgent:

OPERATING SYSTEM		PROCESSOR
OES LINUX	Novell OES2 Linux up to SP3 (SLES 10 SP4)	Intel Pentium, x64 or compatible processors
	Novell OES11 Linux up to SP1 (SLES 11 SP2)	Intel Pentium, x64 or compatible processors
	Novell OES Linux up to Support Pack 2	Intel Pentium or compatible minimum required

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

95 MB minimum of hard disk space for software

100 MB of additional hard disk space for log file growth

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

MEMORY

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

Swap space = 2*RAM size

PERIPHERALS

DVD-ROM drive

Network Interface Card

MISCELLANEOUS

Novell NetWare TCP/IP Services configured on the computer.

Novell's Storage Management Service must be installed and configured in order to utilize the Target Service Agents.

You must have some form of name resolution between your CommServe, OES Linux computer, and MediaAgent to ensure proper operations. It is recommended that your OES Linux computer has DNS services configured.

The OES File System iDataAgent should be used to protect the data on NSS volumes on an OES Linux computer. In order to protect the data on a POSIX File System, use the Linux File System iDataAgent.

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

Install the OES File System iDataAgent

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- Select Components for Installation
- Base Software Installation
- Client Group Selection
- Novell User Account
- Setup Complete

Post-Install Considerations

INSTALL REQUIREMENTS

The OES 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 - OES File System iDataAgent.

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 and MediaAgent must be installed and running (but not necessarily on the same computer), before you can install the Agent.
- Ensure there is an available license on the CommServe for the Agent.
- Verify that you have the Software Installation Disc that is appropriate to the destination computer's operating system.

BEFORE YOU BEGIN

- Log on to the client as `root`.
- The install package requires `super-user` permissions to execute.

INSTALL PROCEDURE

GETTING STARTED

1. Place the software installation disc for the Unix platform into the disc drive.

You can also install the product using a disc drive mounted on another computer on the network.

- On Solaris, double-click the **cvpkgadd** program from the File Manager window.
- On other Unix platforms, open the Terminal window, navigate to the software installation disc and then enter **./cvpkgadd**.

2. The product banner and other information is displayed.

Press **Enter** to continue.

3. Read the license agreement. Type **y** and press **Enter** to continue.

4. Enter the number corresponding to the setup task you want to perform.

Please select a setup task you want to perform from the list below:

Advance options provide extra setup features such as creating custom package, recording/replaying user selections and installing External Data Connector software.

- 1) Install data protection agents on this computer
- 2) Advance options
- 3) Exit this menu

Your choice: [1]

NOTES

- For Install data protection agents on this computer option, follow the steps described in this procedure.
- Advance options provide additional setup features such as record and play setup, creating a custom package and External Data Connector Agent software.

To create a custom package and for record and play setup, follow the steps described in Custom Package - Unix.

To install the External Data Connector Agent, follow the steps described in External Data Connector - Unix.

5. If your computer is 32-bit, press **Enter**.

If your computer is 64-bit, see Install Unix Agents on 64-bit Platform for step-by-step procedure.

This machine supports both 32 bit and 64 bit binaries. By default, we will install 32 bit binary set that has full support for all the modules included in this package. Please note that 64 bit binary set currently only support limited modules.

6. This prompt is displayed only when you are installing on AIX, HP-UX, Linux, or Solaris computers.

Press **Enter** to continue

NOTES

- When you install on non-clustered computer, you must select the number associated with the option **Install on a physical machine**.

7. If you have only one network interface, press **Enter** to accept the default network interface name and continue.

If you have multiple network interfaces, enter the number corresponding to the network interface that you wish to use as default, and then press **Enter** to continue.

NOTES

- The interface name and IP addresses depend on the computer in which the software is installed and may be different from the example shown.

8. Specify the client name for the computer.

Press **Enter** to accept the default name and continue, or Enter a new client name for the computer and then press **Enter** to continue.

```
1) All platforms (32 bit)
2) FS and MA only (64 bit)
Your choice: [1]
```

Certain Calypso packages can be associated with a virtual IP, or in other words, installed on a "virtual machine" belonging to some cluster. At any given time the virtual machine's services and IP address are active on only one of the cluster's servers. The virtual machine can "fail-over" from one server to another, which includes stopping services and deactivating IP address on the first server and activating the IP address/services on the other server.

You now have a choice of performing a regular Calypso install on the physical host or installing Calypso on a virtual machine for operation within a cluster.

Most users should select "Install on a physical machine" here.

```
1) Install on a physical machine
2) Install on a virtual machine
3) Exit
Your choice: [1]
```

We found one network interface available on your machine. We will associate it with the physical machine being installed, and it will also be used by the CommServe to connect to the physical machine. Note that you will be able to additionally customize Datapipe Interface Pairs used for the backup data traffic later in the Calypso Java GUI.

Please check the interface name below, and make connections if necessary:

Physical Machine Host Name: [angel.company.com]

Please specify the client name for this machine.

It does not have to be the network host name: you can enter any word here without spaces. The only requirement is that it must be unique on the CommServe.

Physical Machine Client name: [angel]

SELECT COMPONENTS FOR INSTALLATION

9. Enter the number corresponding to the **CVGxOES** module that you would like to install.

A confirmation screen will mark your choice with an "X". Type "d" for **Done**, and press **Enter** to continue.

NOTES

- To select multiple component, enter the number by adding a space.
- Your screen may look different from the example shown.
- Components that either have already been installed, or which cannot be installed, will not be shown.
- In addition, the list of modules that appear depends on the specific Unix File System in which the package is installed. (e.g., **CVGxWA** will appear only when the installation package is run on a Solaris computer.)

```
Install Calypso on physical machine client.company.com
Select the Calypso module that you would like to install

[ ] 1) Media Agent          [1301] [CVGxMA]
[ ] 2) FileSystem IDA      [1101] [CVGxIDA]
>) >>>> NEXT PAGE >>>>>

[a=all n=none r=reverse q=quit d=done >=next <=previous ?
=help]
Enter number(s)/one of "a,n,r,q,d,>,<," here: 2
```

BASE SOFTWARE INSTALLATION

10. If you wish to install the agent software for restore only, enter **Yes** and press **Enter** to continue. See Installing Restore Only Agents for more information.

Otherwise, accept **no**, press **Enter** to continue.

11. Type the appropriate number to install the latest software scripts and press **Enter** to continue.

NOTES

- Select **Download from the software provider website** to download the latest software scripts from your software provider website. Make sure you have internet connectivity when you are using this option.
- Select **Use the one in the installation media**, to install the software scripts from the disc or share from which the installation is performed.
- Select **Use the copy I already have by entering its unix path**, to specify the path if you have the software script in an alternate location.

Do you want to use the agents for restore only without consuming licenses? [no]

Installation Scripts Pack provides extra functions and latest support and fix performed during setup time. Please specify how you want to get this pack.

If you choose to download it from the website now, please make sure you have internet connectivity at this time. This process may take some time depending on the internet connectivity.

```
1) Download from the software provider website.
2) Use the one in the installation media
3) Use the copy I already have by entering its unix path
Your choice: [1] 2
```

12. Enter **Yes** to download and install the latest service packs and post packs from the software provider.

NOTES

- Internet connectivity is required to download updates.
- This step is applicable for multi instancing.

Press **Enter** to continue.

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

NOTES

- The amount of free space required depends on the components selected for install, and may look different from the example shown.

Press **Enter** to accept the default path and continue, or Enter a path and then press **Enter** to continue.

Press **Enter** again to confirm the path.

14. Specify the location for the log files.

NOTES

- All the modules installed on the computer will store the log files in this directory.
- The amount of free space required depends on the components selected for install, and may look different from the example shown.

Press **Enter** to accept the default path and continue, or Enter a path and then press **Enter** to continue.

Press **Enter** again to confirm the path.

15. Indicate whether you would like to launch processes with inherent database access rights.

Press **Enter** to assign a new group, or Type **No** and then press **Enter** to continue.

16. If you indicated **Yes** in the previous step, you will be prompted for the group name that must be used to launch processes.

Enter the group name and then press **Enter** to continue.

Press **Enter** again to continue.

17. Type a network TCP port number for the Communications Service (CVD) and press **Enter**.

Type a network TCP port number for the Client Event Manager Service (EvMgrC) and press **Enter**.

NOTES

- For more information about Network TCP Ports, see Network TCP Port Requirements.
- For more information about these services, see Services.
- If the port number you entered already exists, a message will be displayed `Port ### is already reserved in /etc/services`. To work around this issue, enter different port number.

Keep Your Install Up to Date - Latest Service Pack

Latest Service Pack provides extra functions and latest support and fix for the packages you are going to install. You can download the latest service pack from software provider website.

If you decide to download it from the website now, please make sure you have internet connectivity at this time. This process may take some time depending on the internet connectivity.

Do you want to download the latest service pack now? [no]
Press <ENTER> to continue ...

Please specify where you want us to install Calypso binaries.

It must be a local directory and there should be at least 98MB of free space available. All files will be installed in a "calypso" subdirectory, so if you enter "/opt", the files will actually be placed into "/opt/calypso".

Installation Directory: [/opt]

..

Calypso will be installed in /opt/calypso.
Press ENTER to continue ...

Please specify where you want to keep Calypso log files.

It must be a local directory and there should be at least 100MB of free space available. All log files will be created in a "calypso/Log_Files" subdirectory, so if you enter "/var/log", the logs will actually be placed into "/var/log/calypso/Log_Files".

Log Directory: [/var/log]

..

Calypso log files will be created in /var/log/calypso/Log_Files.
Press ENTER to continue ...

Most of Calypso processes run with root privileges, but some are launched by databases and inherit database access rights. To make sure that registry and log files can be written to by both kinds of processes we can either make such files world-writeable or we can grant write access only to processes belonging to a particular group, e.g. a "calypso" or a "dba" group.

We highly recommend now that you create a new user group and enter its name in the next setup screen. If you choose not to assign a dedicated group to Calypso processes, all temporary and configuration files will be created with -rw-rw-rw permissions.

If you're planning to backup Oracle DB you should use "dba" group.

Would you like to assign a specific group to Calypso? [yes]

Please enter the name of the group which will be assigned to all Calypso files and on behalf of which all Calypso processes will run.

In most of the cases it's a good idea to create a dedicated "calypso" group. However, if you're planning to use Oracle iDataAgent or SAP Agent, you should enter Oracle's "dba" group here.

Group name: dba

REMINDER

If you are planning to install Calypso Informix, DB2, PostgreSQL, Sybase or Lotus Notes iDataAgent, please make sure to include Informix, DB2, etc. users into group "dba".

Press <ENTER> to continue ...

Every instance of Calypso should use a unique set of network ports to avoid interfering with other instances running on the same machine. The port numbers selected must be from the reserved port number range and have not been registered by another application on this machine.

Please enter the port numbers.

Port Number for CVD : [8600]

Port Number for EvMgrC: [8602]

18. If this computer and the CommServe is separated by a firewall, type **Yes** and then press **Enter** to continue.
- For firewall options and configuration instructions, see Firewall Configuration and continue with the installation.
- If you do not wish to configure the firewall services, type **No** and then press **Enter** to continue.

Is there a firewall between this client and the CommServe?
[no]

19. Type the name of the CommServe computer and press **Enter** to continue.

NOTES

- Ensure that the CommServe is accessible before typing the name; otherwise the installation will fail.
- If you enter a short name which resolves to the same IP address as the fully qualified CommServe name, you will be asked if you would prefer to use the fully qualified name.

Please specify hostname of the CommServe below. Make sure the hostname is fully qualified, resolvable by the name services configured on this machine.

CommServe Host Name:

20. Enter the **username** and **password** information for an external domain user account or a CommCell user account. This authorizes the installation of an agent on the CommCell.

Enter your CommCell user name and password:

User Name :

Password :

Press <ENTER> to continue ...

NOTES

- This is only displayed when the **Authentication for Agent** feature is enabled in the CommCell Properties. Users must belong to a User Group with Agent Management capabilities to enable this feature. For more information, see Authentication for Agent Installs.

Click **Enter** to continue.

CLIENT GROUP SELECTION

21. Type the number of a Client Group and press **Enter**.
- A confirmation screen will mark your choice with an "X". Type **d** for done with the selection, and press **Enter** to continue.

Client Group(s) is currently configured on CommServe cs.company.com. Please choose the group(s) that you want to add this client client.company.com to. The selected group(s) will be marked (X) and can be deselected if you enter the same number again. After you are finished with the selection, select "Done with the Selection".

NOTES

- This screen will be displayed only if Client Groups are configured for the CommCell. For more information, see Client Computer Groups.

[] 1) Unix
[] 2) DR
[] 3) DKS

[a=all n=none r=reverse q=quit d=done >=next <=previous ?=help]

Enter number(s)/one of "a,n,r,q,d,>,<,>" here: 2

+-----+

22. Press **Enter** 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.

IMPORTANT:

In addition to installing Calypso on this computer, you will also need to create a Job Schedule for each iDataAgent that has been installed on this client computer.

Job Schedules are required to allow the Calypso iDataAgents to perform automated backup and restore operations.

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

+-----+

NOVELL USER ACCOUNT

23. Enter the Novell user account the File System iDataAgent will use for backups and restores and then press **Enter** to continue.

In order to run backups or restores Data Protection Suite needs to login to the TSA agent service. Please specify which user account Data Protection Suite should use.

NOTES

- It is recommended that the user account have supervisor rights for the entire file system.

User account:

SETUP COMPLETE

24. If this is the last package that you wish to install/upgrade, enter the number corresponding to the **Exit** option and then press **Enter** to continue.

Select the Calypso module that you would like to install.

NOTES

- Only modules that are not installed/upgraded appear in the list.
- Your screen may appear different from the example shown.
- If you are installing on AIX, FreeBSD, IRIX or Tru64 computers, if this module was

1) FileSystem iDataAgent
2) Exit

Module number: [1]

the last possible module to install, you are automatically exited from the program. Otherwise, type the number for the **Exit** option and then press **Enter**. The installation is completed.

25. Enter the number corresponding to the **Exit** option and then press **Enter** to continue. The installation is now complete.

Certain Calypso packages can be associated with a virtual IP, or in other words, installed on a "virtual machine" belonging to some cluster. At any given time the virtual machine's services and IP address are active on only one of the cluster's servers. The virtual machine can "fail-over" from one server to another, which includes stopping services and deactivating IP address on the first server and activating the IP address/services on the other server.

Currently you have Calypso installed on physical node stone.company.com.

Now you have a choice of either adding another package to the existing installation or configure Calypso on a virtual machine for use in a cluster.

- 1) Add another package to stone.company.com
- 2) Install Calypso on a virtual machine
- 3) Exit

Your choice: [1]

POST-INSTALL CONSIDERATIONS

GENERAL

- 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.
- After installing the Agent, you may want to configure the Agent before running a data protection operation. The following list includes some of the most common features that can be configured:
 - Configure your subclients - see Subclients for more information.
 - Schedule your data protection operations - see Scheduling for more information.
 - Configure Alerts - See Alerts and Monitoring for more information.
 - Schedule Reports - See Reports for more information.

The software provides many more features that you will find useful. See the Index for a complete list of supported features.

Install the OES File System iDataAgent - Unix - Clustered Environment

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- Setup Complete

Post-Install Considerations

INSTALL REQUIREMENTS

The following procedure provides step-by-step instructions for installing the OES File System iDataAgent on a Unix cluster.

The software in a Unix cluster can be installed from the active node in the cluster group using the following procedure. Note that for a passive node in a Unix cluster, you need to install the software separately on the passive node in the cluster group.

For an overview of deploying the software components in a clustered environment, see [Clustering Support](#).

Review the following Install Requirements before installing software on a Unix cluster:

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 and MediaAgent must be installed and running (but not necessarily on the same computer), before you can install the Agent.
- Ensure there is an available license on the CommServe for the Agent.
- Verify that you have the Software Installation Disc that is appropriate to the destination computer's operating system.

CLUSTER

- Refer to [Installing the Software on the Cluster](#) for important overview information about installing MediaAgent or Agent software in a Unix clustered environment.
- If you are installing a File System iDataAgent in the 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.

AGENT SPECIFIC

Complete the following steps:

1. Install the Base software and the required agents on all the nodes that are included in the cluster service. See [Installation](#) for more information.
2. Be sure to install your software to the appropriate directories per the directives in [UNIX Clusters](#).
3. Verify that all of the computers to which software will be installed satisfy the minimum requirements specified in the appropriate [System Requirements](#).
4. Ensure that services are up and running on the remote hosts.

RED HAT LINUX

Red Hat Linux will create an entry in the `/etc/hosts` file when it is first installed, in the following format:

```
<ip_address> <host name> localhost
```

For example, if the host name of your computer is `bluesky`, the entry will look something like this:

```
192.168.1.111 bluesky localhost
```

If you have not already done so, edit the `/etc/hosts` file. The edited entry should look like this:

```
127.0.0.1 localhost
```

Depending upon your environment, and using the above example again, you may also need an entry similar to this:

```
192.168.1.111 bluesky
```

BEFORE YOU BEGIN

- Log on to the client as `root`.
- The install package requires `super-user` permissions to execute.

INSTALL PROCEDURE

GETTING STARTED

1. Place the software installation disc for the Unix platform into the disc drive.

You can also install the product using a disc drive mounted on another computer on the network.

- On Solaris, double-click the **cvpkgadd** program from the File Manager window.
- On other Unix platforms, open the Terminal window, navigate to the software installation disc and then enter **./cvpkgadd**.

2. The product banner and other information is displayed.

Press **Enter** to continue.

3. Read the license agreement. Type **y** and press **Enter** to continue.

4. Enter the number corresponding to the setup task you want to perform.

NOTES

- For Install data protection agents on this computer option, follow the steps described in this procedure.
- Advance options provide additional setup features such as record and play setup, creating a custom package and External Data Connector Agent software.

To create a custom package and for record and play setup, follow the steps described in Custom Package - Unix.

To install the External Data Connector Agent, follow the steps described in External Data Connector - Unix.

5. If your computer is 32-bit, press **Enter**.

If your computer is 64-bit, see Install Unix Agents on 64-bit Platform for step-by-step procedure.

Please select a setup task you want to perform from the list below:

Advance options provide extra setup features such as creating custom package, recording/replaying user selections and installing External Data Connector software.

- 1) Install data protection agents on this computer
- 2) Advance options
- 3) Exit this menu

Your choice: [1]

This machine supports both 32 bit and 64 bit binaries. By default, we will install 32 bit binary set that has full support for all the modules included in this package. Please note that 64 bit binary set currently only support limited modules.

- 1) All platforms (32 bit)
- 2) FS and MA only (64 bit)

Your choice: [1]

CLUSTER SELECTION

6. Type **2** and press **Enter** to install on a virtual machine.

Certain Calypso packages can be associated with a virtual IP, or in other words, installed on a "virtual machine" belonging to some cluster. At any given time the virtual machine's services and IP address are active on only one of the cluster's servers. The virtual machine can "fail-over" from one server to another, which includes stopping services and deactivating IP address on the first server and activating the IP address/services on the other server.

You now have a choice of performing a regular Calypso install on the physical host or installing Calypso on a virtual machine for operation within a cluster.

Most users should select "Install on a physical machine" here.

- 1) Install on a physical machine
- 2) Install on a virtual machine
- 3) Exit

Your choice: [1]

7. Type the name of the virtual machine that you want to configure or its corresponding IP address and press **Enter**.

Please enter the hostname or IP address of the virtual machine being installed. It can be either short or long; the only requirement is that it must be resolvable by the name services configured on this machine

WARNING: You should follow this path ONLY if this host participates in a cluster and you really want to install Calypso on the virtual machine. This is NOT how most people will use Calypso.

8. This prompt appears if you entered the short form of the virtual machine host name in the previous step. If you want to use the long form of the host name, accept the **yes** default; if not, type **no**. Then press **Enter**.

If you got into this screen by mistake, hit ^C and restart cvpkgadd.

Virtual Machine Host Name:

It looks like name "example.company.com" resolves to the same IP as "example". Generally, it's better to use longer name to address a host: less chances for name-to-IP resolution problems on CommServe or other IDA/MA.

Would you like to use fully qualified "example.company.com" instead of "example"?

Use longer "example.company.com" name? [yes]

9. If you have already installed the software on the virtual machine for the active node, accept the **yes** default to install for the passive node, press **Enter**, and go to the next step.

When installing new Calypso packages on a virtual machine, you should start with the active node, that is the host where the virtual machine is currently running.

If you still must install for the active node, type **no**, press **Enter**, and perform the install for the virtual machine for the active node.

This node appears to be passive, so we will assume that you have already installed Calypso for example.company.com on the active node.

NOTES

- This prompt appears only when installing on a passive node.

Is this correct? [yes]

10. Type the name of the virtual client and press **Enter**.

Please specify the client name for this machine. It does not have to be the network host name: you can enter any word here without spaces. The only requirement is that it must be unique on the CommServe.

Virtual Machine Client Name: [hpuxmcl]

11. Specify the network interface that you want to associate with the physical machine and press **Enter**.

Even though it is a virtual machine that you are installing now, we still have to ask you to provide hostname and client name for the physical node.

NOTES

- This prompt appears only when the Unix File System iDataAgent is not installed on the physical node.

Network interfaces with the following IPs are available on your system. Please select the one that you want to be associated with Calypso physical machine. The interface should be static, and should not get disabled in case of cluster failover.

- 1) mackrel71
- 2) mackrel
- 3) mackrel1

Interface number: [1] 2

12. Verify the name of the physical interface and make any required changes. Then press **Enter**.

Please verify the physical interface name below. Make it as complete (with fully qualified domain name) as possible.

Physical Hostname: [mackrel]

13. Enter a node name for the physical machine and press **Enter**.

Even though you are installing Calypso on a machine, we still need to ask you to provide a node name for the physical machine.

It does not have to be the network host name: you can enter any word here without spaces. The only requirement is that it must be unique on the CommServe.

Physical Machine Node Name: [mackrel]

SELECT COMPONENTS FOR INSTALLATION

14. Enter the number corresponding to the **CVGxOES** module. A confirmation screen will mark your choice with an "X". Type "d" for **Done**, and press **Enter** to continue.

Install Calypso on physical machine client.company.com

Select the Calypso module that you would like to install

- [] 1) Media Agent [1301] [CVGxMA]
 - [] 2) FileSystem IDA [1101] [CVGxIDA]
- >) >>>> NEXT PAGE >>>>>

NOTES

- To select multiple component, enter the number by adding a space.
- Your screen may look different from the example shown.
- Components that either have already been installed, or which cannot be installed, will not be shown.
- In addition, the list of modules that appear depends on the specific Unix File System in which the package is installed. (e.g., **CVGxWA** will appear only when the installation package is run on a Solaris computer.)

[a=all n=None r=reverse q=quit d=done >=next <=previous ? =help]

Enter number(s)/one of "a,n,r,q,d,>,<," here: 2

BASE SOFTWARE INSTALLATION

15. If you wish to install the agent software for restore only, enter **Yes** and press **Enter** to continue. See Installing Restore Only Agents for more information. Otherwise, accept **no**, press **Enter** to continue.

Do you want to use the agents for restore only without consuming licenses? [no]

16. Type the appropriate number to install the latest software scripts and press **Enter** to continue.

Installation Scripts Pack provides extra functions and latest support and fix performed during setup time. Please specify how you want to get this pack.

NOTES

- Select **Download from the software provider website** to download the latest software scripts from your software provider website.

Make sure you have internet connectivity when you are using this option.

- Select **Use the one in the installation media**, to install the software scripts from the disc or share from which the installation is performed.
- Select **Use the copy I already have by entering its unix path**, to specify the path if you have the software script in an alternate location.

17. Enter **Yes** to download and install the latest service packs and post packs from the software provider.

NOTES

- Internet connectivity is required to download updates.
- This step is applicable for multi instancing.

Press **Enter** to continue.

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

NOTES

- The amount of free space required depends on the components selected for install, and may look different from the example shown.

Press **Enter** to accept the default path and continue, or Enter a path and then press **Enter** to continue.

Press **Enter** again to confirm the path.

19. Specify the location for the log files.

NOTES

- All the modules installed on the computer will store the log files in this directory.
- The amount of free space required depends on the components selected for install, and may look different from the example shown.

Press **Enter** to accept the default path and continue, or Enter a path and then press **Enter** to continue.

Press **Enter** again to confirm the path.

20. Indicate whether you would like to launch processes with inherent database access rights.

Press **Enter** to assign a new group, or Type **No** and then press **Enter** to continue.

21. If you indicated **Yes** in the previous step, you will be prompted for the group name that must be used to launch processes.

Enter the group name and then press **Enter** to continue.

Press **Enter** again to continue.

For installs on a Solaris computer, proceed to the next step. Otherwise, skip to Storage Policy Selection.

22. Type a network TCP port number for the Communications Service (CVD) and press **Enter**.

If you choose to download it from the website now, please make sure you have internet connectivity at this time. This process may take some time depending on the internet connectivity.

1) Download from the software provider website.

2) Use the one in the installation media

3) Use the copy I already have by entering its unix path

Your choice: [1] 2

Keep Your Install Up to Date - Latest Service Pack

Latest Service Pack provides extra functions and latest support and fix for the packages you are going to install. You can download the latest service pack from software provider website.

If you decide to download it from the website now, please make sure you have internet connectivity at this time. This process may take some time depending on the internet connectivity.

Do you want to download the latest service pack now? [no]

Press <ENTER> to continue ...

Please specify where you want us to install Calypso binaries.

It must be a local directory and there should be at least 170MB of free space available. All files will be installed in a "calypso" subdirectory, so if you enter "/opt", the files will actually be placed into "/opt/calypso".

Installation Directory: [/opt]

..

Calypso will be installed in /opt/calypso.
Press ENTER to continue ...

Please specify where you want to keep Calypso log files.

It must be a local directory and there should be at least 100MB of free space available. All log files will be created in a "calypso/Log_Files" subdirectory, so if you enter "/var/log", the logs will actually be placed into "/var/log/calypso/Log_Files".

Log Directory: [/var/log]

..

Calypso log files will be created in /var/log/calypso/Log_Files.
Press ENTER to continue ...

Most of Calypso processes run with root privileges, but some are launched by databases and inherit database access rights. To make sure that registry and log files can be written to by both kinds of processes we can either make such files world-writeable or we can grant write access only to processes belonging to a particular group, e.g. a "calypso" or a "dba" group.

We highly recommend now that you create a new user group and enter its name in the next setup screen. If you choose not to assign a dedicated group to Calypso processes, all temporary and configuration files will be created with -rw-rw-rw permissions.

If you're planning to backup Oracle DB you should use "dba" group.

Would you like to assign a specific group to Calypso? [yes]

Please enter the name of the group which will be assigned to all Calypso files and on behalf of which all Calypso processes will run.

In most of the cases it's a good idea to create a dedicated "calypso" group. However, if you're planning to use Oracle iDataAgent or SAP Agent, you should enter Oracle's "dba" group here.

Group name: dba

REMINDER

If you are planning to install Calypso Informix, DB2, PostgreSQL, Sybase or Lotus Notes iDataAgent, please make sure to include Informix, DB2, etc. users into group "dba".

Press <ENTER> to continue ...

Every instance of Calypso should use a unique set of network ports to avoid interfering with other instances running on the same machine.

Type a network TCP port number for the Client Event Manager Service (EvMgrC) and press **Enter**.

NOTES

- For more information about Network TCP Ports, see Network TCP Port Requirements.
- For more information about these services, see Services.
- If the port number you entered already exists, a message will be displayed `Port #### is already reserved in /etc/services`. To work around this issue, enter different port number.

23. If this computer and the CommServe is separated by a firewall, type **Yes** and then press **Enter** to continue.

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

If you do not wish to configure the firewall services, type **No** and then press **Enter** to continue.

24. Type the name of the CommServe computer and press **Enter** to continue.

NOTES

- Ensure that the CommServe is accessible before typing the name; otherwise the installation will fail.
- If you enter a short name which resolves to the same IP address as the fully qualified CommServe name, you will be asked if you would prefer to use the fully qualified name.

25. Enter the **username** and **password** information for an external domain user account or a CommCell user account. This authorizes the installation of an agent on the CommCell.

NOTES

- This is only displayed when the **Authentication for Agent** feature is enabled in the CommCell Properties. Users must belong to a User Group with Agent Management capabilities to enable this feature. For more information, see Authentication for Agent Installs.

Click **Enter** to continue.

The port numbers selected must be from the reserved port number range and have not been registered by another application on this machine.

Please enter the port numbers.

Port Number for CVD : [8600]

Port Number for EvMgrC: [8602]

Is there a firewall between this client and the CommServe?
[no]

Please specify hostname of the CommServe below. Make sure the hostname is fully qualified, resolvable by the name services configured on this machine.

CommServe Host Name:

Enter your CommCell user name and password:

User Name :

Password :

Press <ENTER> to continue ...

ENABLE GLOBAL FILTERS

26. Type the appropriate number for configuring Global Filters for the default subclient and press Enter 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 always 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.

Commcell Level Global Filters are set through Calypso GUI's Control Panel in order to filter out certain directories or files from backup Commcell-widely. If you turn on the Global filters, they will be effective to the default subclient. There are three options you can choose to set the filters.

- 1) Use Cell level policy
- 2) Always use Global filters
- 3) Do not use Global filters

Please select how to set the Global Filters for the default subclient? [1]

CLIENT GROUP SELECTION

27. Type the number of a Client Group and press **Enter**.

A confirmation screen will mark your choice with an "X". Type **d** for done with the selection, and press **Enter** to continue.

NOTES

- This screen will be displayed only if Client Groups are configured for the CommCell. For more information, see Client Computer Groups.

Client Group(s) is currently configured on CommServe cs.company.com. Please choose the group(s) that you want to add this client client.company.com to. The selected group(s) will be marked (X) and can be deselected if you enter the same number again. After you are finished with the selection, select "Done with the Selection".

- [] 1) Unix
- [] 2) DR
- [] 3) DKS

[a=all n=none r=reverse q=quit d=done >=next <=previous ? =help]

Enter number(s)/one of "a,n,r,q,d,>,<," here: 2

+-----+

IMPORTANT:

In addition to installing Calypso on this computer, you will also need to create a Job Schedule for each iDataAgent that has been installed on this client

28. Press **Enter** 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.

computer.

Job Schedules are required to allow the Calypso iDataAgents to perform automated backup and restore operations.

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

+-----+

STORAGE POLICY SELECTION

29. Enter the number corresponding to the storage policy through which you want to back up the File System iDataAgent and then press **Enter** to continue.

NOTES

- A storage policy directs backup data to a media library. Each library has a default storage policy.
- When you install an Agent, the install program creates a default subclient for most Agents.
- If desired, you can change your storage policy selection at any time after you have installed the client software.
- If this screen appears more than once, it is because you have selected multiple agents for installation and are configuring storage policy association for each of the installed agents.

Please select one storage policy for this IDA from the list below:

- 1) SP_StandAloneLibrary2_2
- 2) SP_Library3_3
- 3) SP_MagLibrary4_4
- 4) fornax_fornax_HWCmp
- 5) ranger_ranger_HWCmp
- 6) fornax_fornax_CIntCmp
- 7) fornax_fornax_MACmp
- 8) fornax_fornax_NoCmp

Storage Policy: [3]

CONFIGURE OES FILE SYSTEM SPECIFIC INFORMATION

30. Enter the Novell user account the File System iDataAgent will use for backups and restores and then press **Enter** to continue.

NOTES

- It is recommended that the user account have supervisor rights for the entire file system.

In order to run backups or restores Data Protection Suite needs to login to the TSA agent service. Please specify which user account Data Protection Suite should use.

User account:

SETUP COMPLETE

31. If this is the last package that you wish to install/upgrade, enter the number corresponding to the **Exit** option and then press **Enter** to continue.

NOTES

- Only modules that are not installed/upgraded appear in the list.
- Your screen may appear different from the example shown.
- If you are installing on AIX, FreeBSD, IRIX or Tru64 computers, if this module was the last possible module to install, you are automatically exited from the program. Otherwise, type the number for the **Exit** option and then press **Enter**. The installation is completed.

Select the Calypso module that you would like to install.

- 1) FileSystem iDataAgent
- 2) Exit

Module number: [1]

32. Enter **Yes** to download and install the latest service packs and post packs from the software provider.

NOTES

- Internet connectivity is required to download updates.
- This step is applicable for multi instancing.

Press **Enter** to continue.

Keep Your Install Up to Date - Latest Service Pack

Latest Service Pack provides extra functions and latest support and fix for the packages you are going to install. You can download the latest service pack from software provider website.

If you decide to download it from the website now, please make sure you have internet connectivity at this time. This process may take some time depending on the internet connectivity.

Do you want to download the latest service pack now? [no]

Press <ENTER> to continue ...

33. This prompt is displayed only when you are installing on HP-UX, Linux, or Solaris computers. Enter the number corresponding to the **Exit** option and then press **Enter** to continue.

The installation is now complete.

Calypso is currently configured on virtual machine hpuxmcl.company.com.

Now you have an option of installing Calypso on physical machine, another virtual machine or you can add a new package to hpuxmcl.company.com.

- 1) Add a new package to hpuxmcl.company.com
- 2) Install Calypso on the physical machine
- 3) Install Calypso on another virtual machine
- 4) Exit

Your choice: [1]

POST-INSTALL CONSIDERATIONS

GENERAL

- 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.
- After installing the Agent, you may want to configure the Agent before running a data protection operation. The following list includes some of the most common features that can be configured:
 - Configure your subclients - see Subclients for more information.
 - Schedule your data protection operations - see Scheduling for more information.
 - Configure Alerts - See Alerts and Monitoring for more information.
 - Schedule Reports - See Reports for more information.

The software provides many more features that you will find useful. See the Index for a complete list of supported features.

CLUSTER

- The cvclusternotify script should be added as part of the normal cluster startup/shutdown procedure. The script is provided as a generic template, and it must be run at the beginning of node shutdown and at the end of new active node startup. In both cases, data protection services must be up and running.

Run the following command to notify Calypso that the specified "virtual node" is going up or down because of a cluster failover:

Usage:

```
cvclusternotify -inst <Instance> -cn <Client Name> -start|-shutdown
```

Where:

cvclusternotify - Program to notify Calypso of cluster failovers

Example:

For two-node cluster, if the virtual client name is "virtual" and the application instance is "Instance001", run the following command:

- To shutdown:

```
cvclusternotify -inst Instance001 -cn "virtual" -shutdown
```

- To start up:

```
cvclusternotify -inst Instance001 -cn "virtual" -start
```

- On failover of a Linux cluster, Services may be killed by cluster services during a virtual machine failover. To insure that the Services are re-started on the passive node, add commands in failover scripts to start Services.

CLUSTER/GLOBAL FILE SYSTEMS

For Cluster/Global File System iDataAgents, it is highly recommended that you do the following before you back up data (see Subclients for more information):

- Filter out any clustered file systems from your physical node(s). Examples of such file systems include Global File systems or file systems that are part of a failover resource group.
- Ensure that the clustered file systems will be backed up only from the virtual node(s). To this end, change the default subclient contents as appropriate or create separate subclients for the clustered file system data.

Doing this will ensure that your data will be protected by just one instance of the iDataAgent and therefore will not be duplicated. It will also provide a single source from which to restore clustered data.

DISASTER RECOVERY CONSIDERATIONS

- Before you use your agent, be sure to review and understand the associated full system restore (or disaster recovery) procedure. The procedure for some agents may require that you plan specific actions or consider certain items before an emergency occurs. See Disaster Recovery for more information regarding your agent.

Backup - OES File System iDataAgent

Topics | How To | Related Topics

Overview

Supported Backup Types

Backup Considerations for this Agent

- Creating a Subclient to Backup GroupWise 2012 Databases

Advanced Backup Options

OVERVIEW

Plan your backup jobs for this agent by reviewing the following information:

- For an overview of backup jobs, see Backup Data.
 - For a list of supported data types for this agent, see Supported Data Types.
 - For information on subclients, see Subclients
 - For information on configuring subclients for this agent, see Subclients - OES File System.
 - For information on excluding data via subclients, see Excluding Data from Data Protection Operations.
-

SUPPORTED BACKUP TYPES

The OES File System iDataAgent supports the following backup types:

- Full Backups
- Differential Backups
- Incremental Backups
- Synthetic Full Backups

OPTIMIZE BACKUPS USING NOVELL'S STORAGE MANAGEMENT SERVICES (SMS)

The NetWare File System, OES File System and Novell Directory Services iDataAgents provide the capability to utilize Novell's Storage Management Services (SMS) when backing up data.

When the **Optimize for Novell SMS** option is selected from the **Data** tab of the Advanced Backup Options dialog box (for Novell Directory Services iDataAgent, see Configuring Novell Directory Services iDataAgent for Backup Optimization), Novell's SMS will query the configured subclient content to determine what data will be backed up. Once the data has been queried, SMS then determines the order and conduct of backing up the data. This negates the need for the iDataAgents to generate a collect file during the scan phase, which significantly reduces the amount of time taken for the scan phase to complete.

Note the following before optimizing backups using Novell's Storage Management Services (SMS):

- Backup optimization can only be used for full backups.
 - Backup optimization cannot be used in conjunction with any filter exceptions/exclusions, wild card content, or wild card filters.
 - Full backups running with backup optimization enabled cannot be suspended.
-

BACKUP CONSIDERATIONS FOR THIS AGENT

Before performing any backup procedures for this agent, review the following information:

- To back up NSS File System data you must have Read/File Scan rights to the container object which holds the content to be backed up.
- To back up NDS data you must have Admin rights to the container object which holds the content to be backed up.
- Backup failures may occur if a remote script has one or more blank lines at the top. Therefore, be sure to delete any blank lines at the top of any remote scripts.
- Filters can be used in conjunction with the "Items That Failed" list on the data protection Job History Report to eliminate backup or archive failures by excluding items which consistently fail that are not integral to the operation of the system or applications. Some items fail because they are locked by the operating system or application and cannot be opened at the time of the data protection operation. This often occurs with certain system-related files and database application files.

Also, keep in mind that you will need to run a full backup after adding failed files to the filter in order to remove them.

- Files with holes can be backed up. This type of file may use large amounts of space on the archive media.
- Symbolic links appear in subclient content as the target of the link.

The software uses `ufsdump` to back up only those files that meet the constraint on percentage data specified by `nDUMPPERCENT` and the minimum size specified by `nDUMPSIZE`.

As the default value of `nDUMPPERCENT` is set at zero, the software does not use `ufsdump` by default.

CREATING A SUBCLIENT TO BACKUP GROUPWISE 2012 DATABASES

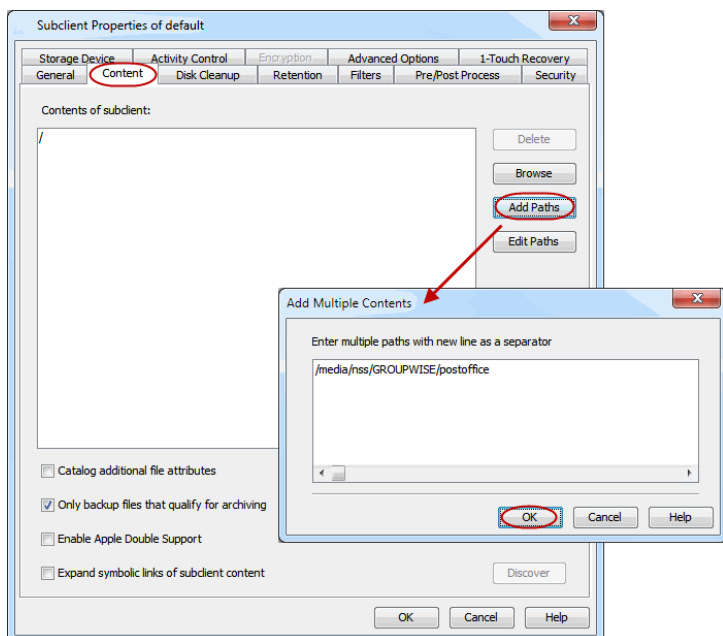
By default, the OES File System iDataAgent backs up GroupWise 2012 databases that reside on NSS volumes. To back up GroupWise 2012 databases that reside on non-NSS volumes, use the following steps:

1. From the CommCell Browser, navigate to **Client Computers** | **<Client>** | **File System** | **Backup Set**.
2. Right-click the **Backup Set**, point to **All Tasks** and then click **New Subclient**.
3. In the **Subclient Name** box, type a name.
4. Click the **Storage Device** tab.
5. In the **Storage Policy** list, click a storage policy name.
6. Click the **Content** tab.
7. Click **Add Paths**.
8. Type the path to the GroupWise 2012 databases residing on non-NSS volumes, and then click **OK**.

For example, `/media/nss/GROUPWISE/postoffice`.

9. Right click the configured **<Subclient>** and click **Backup**.
10. Select **Full** as backup type and **Immediate** to run the job immediately.
11. Click **OK**.

To secure a GroupWise database using the OES File System iDataAgent, Novell's TSAFS.NLM must be loaded with the EnableGW switch



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Backup - OES File System iDataAgent - How To

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Start a Backup

Start a Synthetic Full Backup

Schedule Backups

Start a Backup in the Suspended State

Start a Backup on New Media

Start a Backup that Creates a New Index

Start a Backup that Marks Media Full on Completion

Start a Backup that Reserves Resources Before Scan

Start a Backup with a Set Job Priority

Start a Backup with Vault Tracking enabled

START A BACKUP

Before You Begin

- Depending on your agent, you can perform the following types of backup operations: **Full**, **Incremental**, **Differential** or **Synthetic Full**.
 - Read Full Backups before performing a Full Backup.
 - Read Incremental Backups before performing an Incremental Backup.
 - Read Differential Backups before performing a Differential Backup.
 - Read Synthetic Full Backups before performing a Synthetic Full Backup.

Required Capability: See Capabilities and Permitted Actions

▶ To start an immediate backup job:

1. From the CommCell Browser, expand **Client Computers** by double-clicking **Client Computers | iDA File System | defaultBackupSet**. The default and other subclients (if available) are displayed on the right-hand windowpane.
2. To back up the default subclient, right-click the subclient, and click **Backup**.
3. From the Backup Options dialog box, select **Run Immediately**.
4. Select **Full**, **Incremental**, **Differential** or **Synthetic Full** backup.

In certain circumstances a non-full backup may automatically be converted to a full backup. For a listing of these circumstances, see [When a Non-Full Backup is Automatically Converted to a Full Backup](#).

5. Click **OK**. You can track the progress of the backup job from the **Job Controller** window. If you are using a stand-alone drive, you are prompted to load a specific cartridge into the drive. If you are using a library, you will not receive this prompt. The system loads the tapes automatically. Your cartridges should be appropriately labeled. This will enable you to locate the correct cartridge for a restore job, if necessary.
6. When the backup has completed, the Job Controller displays `Completed`.

After running a backup, you may want to verify the backup data. You can do this by viewing the Backup History. For more information, see [Backup Job History](#).

- You can also run backups of the following:
 - For a user-defined backup set or instance, right-click the backup set you want to back up, click **All Tasks**, and click **Backup All Subclients**.
 - For the Lotus Notes Document iDataAgent, to back up a partition, right-click the partition you want to back up, click **All Tasks**, and click **Backup Default Backup Set**.
For the Lotus Notes Database iDataAgent, to back up a partition, right-click the partition you want to back up, click **All Tasks**, and click **Backup All Subclients**.
 - For Agents that do not have backup set or instance levels, to back up all subclients, right-click the agent icon, click **All Tasks**, and click **Backup All Subclients**.
 - If you chose a level higher than subclient (i.e., backup set, etc.), you are prompted to confirm that you want to back up all the subclients below that level/node. Click **Yes**.
 - Starting a data protection operation on a backup set, instance or agent level causes the system to start individual data protection operations for each subclient contained therein. If the subclients are associated with the same storage policy, then their operations will run sequentially unless that storage policy is configured to accommodate multiple data streams.
-

START A SYNTHETIC FULL BACKUP

Before You Begin

- Read Synthetic Full Backups before performing a Synthetic Full Backup.
- For SharePoint Document, for a versioned document that has multiple versions, all of the backed up versions can be viewed in the **View All Versions** window and restored, until a Synthetic Full backup is run. After running the Synthetic Full backup you can only view and restore the latest backed up version for the document.

Required Capability: See Capabilities and Permitted Actions

▶ To start an immediate backup job:

1. From the CommCell Browser, expand **Client Computers** by double-clicking **Client Computers | iDA File System | defaultBackupSet**. The default and other subclients (if available) are displayed on the right-hand windowpane.
2. To back up the default subclient, right-click the subclient, and click **Backup**.
3. From the Backup Options dialog box, select **Run Immediately**.
4. Select **Synthetic Full** backup.

Running an incremental backup immediately before the synthetic full ensures that any new or recently changed data is included in the synthetic full. Running an incremental backup immediately after the synthetic full ensures that any new or recently changed data since the backup that occurred prior to the synthetic full, but was not included in the synthetic full, is backed up by the incremental. Remember, a synthetic full consolidates data; it does not actually back up data from the client computer.

5. Click **OK**. You can track the progress of the backup job from the **Job Controller** window. If you are using a stand-alone drive, you are prompted to load a specific cartridge into the drive. If you are using a library, you will not receive this prompt. The system loads the tapes automatically. Your cartridges should be appropriately labeled. This will enable you to locate the correct cartridge for a restore job, if necessary.
6. When the backup has completed, the **Job Controller** displays *Completed*.

After running a backup, you may want to verify the backup data. You can do this by viewing the Backup History. For more information, see Backup Job History.

You can also run synthetic full backups of the following:

- For a user-defined backup set or instance, right-click the backup set you want to back up, click **All Tasks**, and click **Backup All Subclients**.
- For the Lotus Notes Document iDataAgent, to back up a partition, right-click the partition you want to back up, click **All Tasks**, and click **Backup Default Backup Set**.
For the Lotus Notes Database iDataAgent, to back up a partition, right-click the partition you want to back up, click **All Tasks**, and click **Backup All Subclients**.
- For Agents that do not have backup set or instance levels, to back up all subclients, right-click the agent icon, click **All Tasks**, and click **Backup All Subclients**.
 - If you chose a level higher than subclient (i.e., backup set, etc.), you are prompted to confirm that you want to back up all the subclients below that level/node. Click **Yes**.
 - Starting a data protection operation on a backup set, instance or agent level causes the system to start individual data protection operations for each subclient contained therein. If the subclients are associated with the same storage policy, then their operations will run sequentially unless that storage policy is configured to accommodate multiple data streams.

SCHEDULE BACKUPS

You can schedule backups to occur with the following procedure. You will be prompted to create a schedule for the data protection operation after selecting your data protection options.

Before You Begin

- **All Agents**
 - Be sure all of the subclients are backed up, or scheduled to be backed up as needed, in order to secure all of the data for the agent. Note this does not apply to archive operations.

Required Capability: See Capabilities and Permitted Actions

▶ To schedule a backup operation:

1. From the CommCell Browser, select one of the following:
 - To back up a subclient, right-click the subclient and click **Backup**.
 - To back up a backup set or instance, right-click the backup set or instance, click **All Tasks**, and click **Backup All Subclients**.
 - To back up the default backup set, right-click the agent or instance node, click **All Tasks**, and click **Backup Default Backup Set**.

- For the Lotus Notes Document iDataAgent, to back up a partition, right-click the partition you want to back up, click **All Tasks**, and click **Backup Default Backup Set**.
For the Lotus Notes Database iDataAgent, to back up a partition, right-click the partition you want to back up, click **All Tasks**, and click **Backup All Subclients**.
 - For Agents that do not have backup set or instance levels, to back up all subclients, right-click the agent icon, click **All Tasks**, and click **Backup All Subclients**.
2. If you chose a level higher than subclient (i.e., backup set, etc.), you are prompted to confirm that you want to back up all the subclients below that level/node. Click **Yes**.
 3. From the Backup Options dialog box, select the type of backup that you want to initiate. In certain circumstances a non-full backup may automatically be converted to a full backup. For a listing of these circumstances, see *When a Non-Full Backup is Automatically Converted to a Full Backup*.
 4. Click **Schedule**. Click **OK** to continue.
 5. From the Schedule Details (Schedule Details) dialog box, create a schedule for this operation. For step-by-step instructions, see *Create a Job Schedule*. Click **OK** to continue.
 6. Your backup operation will execute according to the specified schedule.

Starting a data protection operation on a backup set, instance or agent level causes the system to start individual data protection operations for each subclient contained therein. If the subclients are associated with the same storage policy, then their operations will run sequentially unless that storage policy is configured to accommodate multiple data streams.

START A BACKUP IN THE SUSPENDED STATE

Use the following procedure to start a backup in the suspended state.

Before You Begin

- Be sure all of the subclients are backed up, or scheduled to be backed up as needed, in order to secure all of the data for the agent. Note this does not apply to archive operations.

Required Capability: See *Capabilities and Permitted Actions*

▶ To start an immediate backup job with advanced backup options:

1. From the CommCell Browser, select one of the following:
 - To backup a subclient, right-click the subclient to want to backup and click **Backup**.
 - To backup a user-defined backup set or instance, right-click the backup set you want to backup, click **All Tasks**, and click **Backup All Subclients**.
 - To backup the default backup set, right-click the agent or instance node, click **All Tasks**, and click **Backup Default Backup Set**.
 - For Lotus Notes iDataAgent, to backup a partition, right-click the partition you want to backup, click **All Tasks**, and click **Backup Default Backup Set**.
 - For Agents that do not have backup set or instance levels, to backup all subclients, right-click the agent icon, click **All Tasks**, and click **Backup All Subclients**.
2. If you chose a level higher than subclient (i.e., backup set, etc.), you are prompted to confirm that you want to back up all the subclients below that level/node. Click **Yes**.
3. From the Backup Options dialog box, select **Run Immediately**.
4. Select the type of backup that you want to initiate.
In certain circumstances a non-full backup may automatically be converted to a full backup. For a listing of these circumstances, see *When a Non-Full Backup is Automatically Converted to a Full Backup*.
5. Click the **Advanced** button to open the **Advanced Backup Options** dialog box.
6. Click on the Advanced Backup Options (Startup) tab, and select **Startup in suspended state** and click **OK**.
7. From the **Backup Options** dialog box, click **OK**. You can track the progress of the backup job from the Job Controller window.
8. If you are using a stand-alone drive, you are prompted to load a specific cartridge into the drive. If you are using a library, you will not receive this prompt. The system loads the tapes automatically.

Your cartridges should be appropriately labeled. This will enable you to locate the correct cartridge for a restore job, if necessary.

9. When the backup has completed, Job Controller displays *Completed*.

Starting a data protection operation on a backup set, instance or agent level causes the system to start individual data protection operations for each subclient contained therein. If the subclients are associated with the same storage policy, then their operations will run sequentially unless that storage policy is configured to accommodate

multiple data streams.

START A BACKUP ON NEW MEDIA

Use the following procedure to start a backup on new media.

Before You Begin

- Be sure all of the subclients are backed up, or scheduled to be backed up as needed, in order to secure all of the data for the agent. Note this does not apply to archive operations.

Required Capability: See Capabilities and Permitted Actions

▶ To start an immediate backup job with advanced backup options:

1. From the CommCell Browser, select one of the following:
 - To backup a subclient, right-click the subclient to want to backup and click **Backup**.
 - To backup a user-defined backup set or instance, right-click the backup set you want to backup, click **All Tasks**, and click **Backup All Subclients**.
 - To backup the default backup set, right-click the agent or instance node, click **All Tasks**, and click **Backup Default Backup Set**.
 - For Lotus Notes iDataAgent, to backup a partition, right-click the partition you want to backup, click **All Tasks**, and click **Backup Default Backup Set**.
 - For Agents that do not have backup set or instance levels, to backup all subclients, right-click the agent icon, click **All Tasks**, and click **Backup All Subclients**.
2. If you chose a level higher than subclient (i.e., backup set, etc.), you are prompted to confirm that you want to back up all the subclients below that level/node. Click **Yes**.
3. From the Backup Options dialog box, select **Run Immediately**.
4. Select the type of backup that you want to initiate.
In certain circumstances a non-full backup may automatically be converted to a full backup. For a listing of these circumstances, see *When a Non-Full Backup is Automatically Converted to a Full Backup*.
5. Click the **Advanced** button to open the **Advanced Backup Options** dialog box.
6. Click on the Advanced Backup Options (Media) tab, and select **Start new media** and click **OK**.
If you would like jobs with other Job IDs to use this new media, also select the **Allow other schedule to use media set** option.
7. From the **Backup Options** dialog box, click **OK**. You can track the progress of the backup job from the Job Controller window.
8. If you are using a stand-alone drive, you are prompted to load a specific cartridge into the drive. If you are using a library, you will not receive this prompt. The system loads the tapes automatically.

Your cartridges should be appropriately labeled. This will enable you to locate the correct cartridge for a restore job, if necessary.

9. When the backup has completed, Job Controller displays *Completed*.

Starting a data protection operation on a backup set, instance or agent level causes the system to start individual data protection operations for each subclient contained therein. If the subclients are associated with the same storage policy, then their operations will run sequentially unless that storage policy is configured to accommodate multiple data streams.

START A BACKUP THAT CREATES A NEW INDEX

Use the following procedure to start a backup that creates a new Index.

Before You Begin

- Be sure all of the subclients are backed up, or scheduled to be backed up as needed, in order to secure all of the data for the agent.

Required Capability: See Capabilities and Permitted Actions

▶ To start an immediate backup job with advanced backup options:

1. Select one of the following:
 - To backup a subclient, right-click the subclient to want to backup and click **Backup**.
 - To backup a user-defined backup set, right-click the backup set you want to backup, click **All Tasks**, and click **Backup All Subclients**.
 - To backup the default backup set, right-click the agent or instance node, click **All Tasks**, and click **Backup Default Backup Set**.
 - For Lotus Notes iDataAgent, to backup a partition, right-click the partition you want to backup, click **All Tasks**, and click **Backup Default Backup Set**.

- For the Microsoft SQL Server iDataAgent, to backup a database, right-click the database you want to backup, click **All Tasks**, and click **Backup Database**.
 - For the Microsoft SQL Server iDataAgent, to backup up an instance, right-click the instance you want to backup, click **All Tasks**, and click **Backup SQL Server**.
 - For Agents that do not have backup set or instance levels, to backup all subclients, right-click the agent icon, click **All Tasks**, and click **Backup All Subclients**.
2. If you chose a level higher than subclient (i.e., backup set, etc.), you are prompted to confirm that you want to back up all the subclients below that level/node. Click **Yes**.
 3. From the Backup Options dialog box, select **Run Immediately**.
 4. Select the type of backup that you want to initiate.
In certain circumstances a non-full backup may automatically be converted to a full backup. For a listing of these circumstances, see *When a Non-Full Backup is Automatically Converted to a Full Backup*.
 5. Click the **Advanced** button to open the **Advanced Backup Options** dialog box.
 6. Click on the Advanced Backup Options (Data) tab, and select **Create new index** and click **OK**.
 7. From the **Backup Options** dialog box, click **OK**. You can track the progress of the backup job from the Job Controller window.
 8. If you are using a stand-alone drive, you are prompted to load a specific cartridge into the drive. If you are using a library, you will not receive this prompt. The system loads the tapes automatically.

Your cartridges should be appropriately labeled. This will enable you to locate the correct cartridge for a restore job, if necessary.

9. When the backup has completed, Job Controller displays *Completed*.

Starting a backup on a backup set, instance or agent level causes the system to start individual backup jobs for each subclient contained therein. If the subclients are associated with the same storage policy, then their jobs will run sequentially unless that storage policy is configured to accommodate multiple data streams.

START A BACKUP THAT MARKS MEDIA FULL ON COMPLETION

Use the following procedure to start a backup that marks media full on completion.

Before You Begin

- Be sure all of the subclients are backed up, or scheduled to be backed up as needed, in order to secure all of the data for the agent. Note this does not apply to archive operations.

Required Capability: See Capabilities and Permitted Actions

▶ To start an immediate backup job with advanced backup options:

1. From the CommCell Browser, select one of the following:
 - To backup a subclient, right-click the subclient to want to backup and click **Backup**.
 - To backup a user-defined backup set or instance, right-click the backup set you want to backup, click **All Tasks**, and click **Backup All Subclients**.
 - To backup the default backup set, right-click the agent or instance node, click **All Tasks**, and click **Backup Default Backup Set**.
 - For Lotus Notes iDataAgent, to backup a partition, right-click the partition you want to backup, click **All Tasks**, and click **Backup Default Backup Set**.
 - For Agents that do not have backup set or instance levels, to backup all subclients, right-click the agent icon, click **All Tasks**, and click **Backup All Subclients**.
2. If you chose a level higher than subclient (i.e., backup set, etc.), you are prompted to confirm that you want to back up all the subclients below that level/node. Click **Yes**.
3. From the Backup Options dialog box, select **Run Immediately**.
4. Select the type of backup that you want to initiate.
In certain circumstances a non-full backup may automatically be converted to a full backup. For a listing of these circumstances, see *When a Non-Full Backup is Automatically Converted to a Full Backup*.
5. Click the **Advanced** button to open the **Advanced Backup Options** dialog box.
6. Click on the Advanced Backup Options (Media) tab, and select **Mark media full after successful operation** and click **OK**.
7. From the **Backup Options** dialog box, click **OK**. You can track the progress of the backup job from the Job Controller window.
8. If you are using a stand-alone drive, you are prompted to load a specific cartridge into the drive. If you are using a library, you will not receive this

prompt. The system loads the tapes automatically.

Your cartridges should be appropriately labeled. This will enable you to locate the correct cartridge for a restore job, if necessary.

9. When the backup has completed, Job Controller displays *Completed*.

Starting a data protection operation on a backup set, instance or agent level causes the system to start individual data protection operations for each subclient contained therein. If the subclients are associated with the same storage policy, then their operations will run sequentially unless that storage policy is configured to accommodate multiple data streams.

START A BACKUP THAT RESERVES RESOURCES BEFORE SCAN

Use the following procedure to start a backup that reserves the backup media before the scan phase.

Before You Begin

- Be sure all of the subclients are backed up, or scheduled to be backed up as needed, in order to secure all of the data for the agent.

Required Capability: See Capabilities and Permitted Actions

▶ To start an immediate backup job with advanced backup options:

1. select one of the following:
 - To backup a subclient, right-click the subclient to want to backup and click **Backup**.
 - To backup a user-defined backup set, right-click the backup set you want to backup, click **All Tasks**, and click **Backup All Subclients**.
 - To backup the default backup set, right-click the agent or instance node, click **All Tasks**, and click **Backup Default Backup Set**.
 - For Lotus Notes iDataAgent, to backup a partition, right-click the partition you want to backup, click **All Tasks**, and click **Backup Default Backup Set**.
 - For the Microsoft SQL Server iDataAgent, to backup a database, right-click the database you want to backup, click **All Tasks**, and click **Backup Database**.
 - For the Microsoft SQL Server iDataAgent, to backup up an instance, right-click the instance you want to backup, click **All Tasks**, and click **Backup SQL Server**.
 - For Agents that do not have backup set or instance levels, to backup all subclients, right-click the agent icon, click **All Tasks**, and click **Backup All Subclients**.
2. If you chose a level higher than subclient (i.e., backup set, etc.), you are prompted to confirm that you want to back up all the subclients below that level/node. Click **Yes**.
3. From the Backup Options dialog box, select **Run Immediately**.
4. Select the type of backup that you want to initiate.
In certain circumstances a non-full backup may automatically be converted to a full backup. For a listing of these circumstances, see *When a Non-Full Backup is Automatically Converted to a Full Backup*.
5. Click the **Advanced** button to open the **Advanced Backup Options** dialog box.
6. Click on the Advanced Backup Options (Media) tab, and select **Reserve Resources before scan** and click **OK**.
7. From the **Backup Options** dialog box, click **OK**. You can track the progress of the backup job from the Job Controller window.
8. If you are using a stand-alone drive, you are prompted to load a specific cartridge into the drive. If you are using a library, you will not receive this prompt. The system loads the tapes automatically.

Your cartridges should be appropriately labeled. This will enable you to locate the correct cartridge for a restore job, if necessary.

9. When the backup has completed, Job Controller displays *Completed*.

Starting a backup on a backup set, instance or agent level causes the system to start individual backup jobs for each subclient contained therein. If the subclients are associated with the same storage policy, then their jobs will run sequentially unless that storage policy is configured to accommodate multiple data streams.

START A BACKUP WITH A SET JOB PRIORITY

This option allows you to manually set a job priority. This is useful if you have jobs that are very important and must complete, and/or jobs that can be moved to a lower priority. For more information, see *Job Priorities and Priority Precedence*.

Before You Begin

- Be sure all of the subclients are backed up, or scheduled to be backed up as needed, in order to secure all of the data for the agent. Note this does not apply to archive operations.

Required Capability: See Capabilities and Permitted Actions

▶ To start an immediate backup job with advanced backup options:

1. From the CommCell Browser, select one of the following:
 - To backup a subclient, right-click the subclient to want to backup and click **Backup**.
 - To backup a user-defined backup set or instance, right-click the backup set you want to backup, click **All Tasks**, and click **Backup All Subclients**.
 - To backup the default backup set, right-click the agent or instance node, click **All Tasks**, and click **Backup Default Backup Set**.
 - For Lotus Notes iDataAgent, to backup a partition, right-click the partition you want to backup, click **All Tasks**, and click **Backup Default Backup Set**.
 - For Agents that do not have backup set or instance levels, to backup all subclients, right-click the agent icon, click **All Tasks**, and click **Backup All Subclients**.
2. If you chose a level higher than subclient (i.e., backup set, etc.), you are prompted to confirm that you want to back up all the subclients below that level/node. Click **Yes**.
3. From the Backup Options dialog box, select **Run Immediately**.
4. Select the type of backup that you want to initiate.
In certain circumstances a non-full backup may automatically be converted to a full backup. For a listing of these circumstances, see When a Non-Full Backup is Automatically Converted to a Full Backup.
5. Click the **Advanced** button to open the **Advanced Backup Options** dialog box.
6. Click on the Advanced Backup Options (Startup) tab, and select **Change Priority** and then enter a value. Click **OK** to continue.
7. From the **Backup Options** dialog box, click **OK**. You can track the progress of the backup job from the Job Controller window.
8. If you are using a stand-alone drive, you are prompted to load a specific cartridge into the drive. If you are using a library, you will not receive this prompt. The system loads the tapes automatically.

Your cartridges should be appropriately labeled. This will enable you to locate the correct cartridge for a restore job, if necessary.

9. When the backup has completed, Job Controller displays *Completed*.

Starting a data protection operation on a backup set, instance or agent level causes the system to start individual data protection operations for each subclient contained therein. If the subclients are associated with the same storage policy, then their operations will run sequentially unless that storage policy is configured to accommodate multiple data streams.

START A BACKUP WITH VAULT TRACKING ENABLED

Use the following procedure to start a backup with Vault Tracking enabled.

For additional information, see the following:

- VaultTracker
- VaultTracker Enterprise

Before You Begin

- Be sure all of the subclients are backed up, or scheduled to be backed up as needed, in order to secure all of the data for the agent.

Required Capability: See Capabilities and Permitted Actions

▶ To start an immediate backup job with advanced backup options:

1. select one of the following:
 - To backup a subclient, right-click the subclient to want to backup and click **Backup**.
 - To backup a user-defined backup set or instance, right-click the backup set you want to backup, click **All Tasks**, and click **Backup All Subclients**.
 - To backup the default backup set, right-click the agent or instance node, click **All Tasks**, and click **Backup Default Backup Set**.
 - For Lotus Notes iDataAgent, to backup a partition, right-click the partition you want to backup, click **All Tasks**, and click **Backup Default Backup Set**.
 - For Agents that do not have backup set or instance levels, to backup all subclients, right-click the agent icon, click **All Tasks**, and click **Backup All Subclients**.
2. If you chose a level higher than subclient (i.e., backup set, etc.), you are prompted to confirm that you want to back up all the subclients below that level/node. Click **Yes**.

3. From the Backup Options dialog box, select **Run Immediately**.
 4. Select the type of backup that you want to initiate.
In certain circumstances a non-full backup may automatically be converted to a full backup. For a listing of these circumstances, see *When a Non-Full Backup is Automatically Converted to a Full Backup*.
 5. Click the **Advanced** button to open the **Advanced Backup Options** dialog box.
 6. Click on the **Vault Tracking** tab, and select the vault tracking options you want to use and click **OK**.
 7. From the **Backup Options** dialog box, click **OK**. You can track the progress of the backup job from the Job Controller window.
 8. If you are using a stand-alone drive, you are prompted to load a specific cartridge into the drive. If you are using a library, you will not receive this prompt. The system loads the tapes automatically.

Your cartridges should be appropriately labeled. This will enable you to locate the correct cartridge for a restore job, if necessary.
 9. When the backup has completed, Job Controller displays *Completed*.
-

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Restore Data - OES File System iDataAgent

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Overview

Restore Considerations for This Agent

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- Restore Tips

Restore NetWare Data to a Protected Directory

Restore Destinations

- In-Place Restore
 - Out-of-Place Restore
 - Cross-Platform Restores
-

OVERVIEW

The following page describes the agent-specific restore options. Additional restore options are accessible from the Related Topics menu.

The OES File System iDataAgent allows you to restore NSS file system data to:

- the original path
- a different path on the same OES server

Restore operations can be performed from the client, iDataAgent, and backup set levels in the CommCell Browser.

When there is a problem with the OES server or the operating system of the client computer, a full system restore may be required. See [Restore Data - Linux File System - Full System Restore](#) for more information.

RESTORE CONSIDERATIONS FOR THIS AGENT

Before performing any restore procedures for this agent, review the following information.

- Review the general restore requirements described in [What You Need to Know Before Performing a Restore](#).
- In addition to the OES server being powered on, the `galaxy.nlm` must be loaded.
- To restore NSS File System data you must have Read/Write/Modify/Erase/Create/File Scan rights to the container object to which the content will be restored.
- Do not set a quota for an object (such as a volume, directory, or user) that is lower than the amount already used. Doing so may cause improper results for data protection or recovery operations.

RESTORING NSS DATA FROM LINUX TO NETWARE SERVERS

Data residing on an NSS volume on Linux computers may be flagged as `execute only` when restored to a NetWare server. If this is the case, further backup operations using this data will fail as long as the data remains in this state.

You can use the `ExcludeExecuteOnly` key to reverse the `execute only` state for this data. To do so, perform the following steps:

1. Unload `tsafs.nlm`.
2. Reload `tsafs.nlm` using the following command:

```
Load tsafs.nlm /ExcludeExecuteOnly=false
```

If the `ExcludeExecuteOnly` key is not available, you must obtain the latest software updates from Novell.

RESTORE TIPS

Keep the following details in mind when restoring data:

- Perform an image browse if you need to preserve the directory structure of the data you want to restore.
- Perform a no-image browse if:
 - You do not need to preserve the directory structure of the data you want to restore.

- You want to restore files that have been deleted from the client computer and therefore not included in the most recent backup.
- The unconditional overwrite option restores data to the destination directory even if files of the same name already exist.

RESTORE NETWARE DATA TO A PROTECTED DIRECTORY

For the OES File System iDataAgent, access to NetWare files and directories is controlled by a set of access privileges called trustee rights. To create a file or directory, you need Write and Create rights to the parent directory. Similarly, to restore data, these same rights are required.

When you restore file system data, the File System iDataAgent restores the data using the OES user account on the destination computer that was assigned to the software. The identity of this account is revealed by the General tab of the File System iDataAgent property box. To ensure that data can be restored to any path, we recommend that this account be assigned the Supervisor right. If however, the Supervisor right is not, and for your own reasons must not be, granted to this account, and you want to restore data to a directory to which the user account does not have the necessary rights, you can still restore the data using the Impersonate NetWare User restore option. Using this option, you can restore data to a directory to which the user account has insufficient trustee rights.

RESTORE DESTINATIONS

By default, the OES iDataAgent restores data to the client computer from which it originated; this is referred to as an in-place restore. You can also restore the data to another Client computer in the CommCell. Keep in mind the following considerations when performing such restores:

- The destination client must reside in the same CommCell as the client whose data was backed up.
- Note that when you perform restores other than in-place restores, the restored data assumes the rights (i.e., permissions) of the parent directory. (Trustee rights in the case of OES File System.)

The following section enumerates the types of restore destinations that are supported by the OES iDataAgent. See Restore/Recover/Retrieve Destinations - Support for a list of Agents supporting each restore destination type.

IN-PLACE RESTORE

- Same path/destination

OUT-OF-PLACE RESTORE

- Same path/destination

CROSS-PLATFORM RESTORES

- Same Operating System - Different Version

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Restore Data - OES File System iDataAgent - How To

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RESTORE NETWARE DATA TO A PROTECTED DIRECTORY

Before you Begin:

- Review the general and agent-specific restore requirements accessed from Restore Backup Data prior to performing any restore operation.

Required Capability: See Capabilities and Permitted Actions

▶ To restore NetWare data to a protected directory:

1. From the CommCell Browser, right-click the File System icon of the client computer whose System Specific Info you want to restore, click **All Tasks** and then click **Browse Default Backup Set**.
2. Continue with the Browse and Restore procedure.
3. When you then reach the File System Restore Options (General) dialog box, select the restore options that you want to use. The Destination folder is what will require the trustee rights.
4. Click **Advanced**. From the Advanced Restore Options (General) dialog box, select the Impersonate NetWare User check box and type the User Name (e.g., CN=Admin.O=company) and Password of a NetWare account that has the required trustee rights to the Destination folder listed on the Restore

Options dialog box.

5. Optionally, from the tabs for the **Advanced Restore Options** dialog box, select the restore options that you want to use.
6. Click **OK**.
7. Optionally, from the tabs for the **Restore Options** dialog box, select the restore options that you want to use.
8. If you want to schedule the job, select the Job Initiation tab from the Restore Options dialog box, click **Schedule**, schedule the job, and then click **OK**. If you want to run the job now, accept or click **Run Immediately** in the same tab and then click **OK**. The progress of the restore job can be monitored using the Job Controller.

Basic Restore

Topics | How To | Related Topics

Overview

Time Range Options

OVERVIEW

There are two functions that help you retrieve backed up data from the backup media: Browse and Restore. Browse operations allow you to view the data that has been backed up for a client computer without actually restoring the data. Restore operations retrieve the data from the backup media and restore it to the desired location.

In the CommCell Browser, the Browse and various Restore commands appear in the right-click menus at the agent, instance and/or backup set levels, depending on agent.

Using the Restore commands, i.e., restoring without browsing, is most appropriate when you want to restore the latest backup job for an agent, instance or backup set and want to retain the current file structure.

In certain situations and for supported agents, Restore operations can run without utilizing the Browse feature. For example, if you know the path/name of the volume of the data that you want to restore, you can restore it without browsing. In these agents, this procedure is most appropriate when the number of paths for the data that you want to restore is small or when the data that you want to restore is at a single volume. If you want to restore data from many different paths or volumes, you should probably select the data from the Browse window.

TIME RANGE OPTIONS

In a Basic Restore, point-in-time data can be restored by specifying time range options in the Advanced Restore Options (Time Range) dialog box. See Time Range Options for Basic Restore for step-by-step instructions. When a time range is specified for a Basic Restore, the latest version of the backup job within the given time range will be restored.

Basic Restore - How To

Topics | How To | Related Topics

Basic Restore

Time Range Options for Basic Restore

BASIC RESTORE

Before You Begin:

- Review the general and agent-specific restore requirements accessed from Restore Backup Data prior to performing any restore operation.

Required Capability: See Capabilities and Permitted Actions

▶ To restore data without using browse:

1. From the CommCell Browser, right-click the agent, instance or backup set that contains the data you want to restore, click **All Tasks** and then click the available **Restore** command (command names vary by agent).
2. In the **Restore** dialog box, type the starting path of the data you want to restore.

3. From the **Restore Options** and **Advanced Restore Options** dialog boxes, select the restore options that you want to use. When you accept all the default settings, you will be restoring the selected data to its original location. See Restore Backup Data for complete information on the agent-specific restore options.
4. After completing your selections, you can either start an immediate restore or schedule the restore.
 - If you want to schedule the job, click the Job Initiation tab from the Restore Options dialog box, click **Schedule**, and enter your selections in the Schedule Details (Schedule Details) dialog box. Clicking **OK** from this dialog box saves your schedule. See Scheduled Data Recovery Operations for an overview of this feature.
 - If you want to run the job now, accept or click **Run Immediately** in the same tab and then click **OK**.

You can monitor the progress of the restore job in the Job Controller. While the job is running, you can right-click the job in the Job Controller and select **Detail** to view information on the job.

After the data has been restored, you will see a job completion message in the Job Controller and Event Viewer.

TIME RANGE OPTIONS FOR BASIC RESTORE

Before You Begin:

- Review the general and agent-specific restore requirements accessed from Restore Backup Data prior to performing any restore operation.

Required Capability: See Capabilities and Permitted Actions

▶ To provide time range options for basic restore:

1. From the CommCell Browser, right-click the agent, instance or backup set that contains the data you want to restore, click **All Tasks** and then click the available **Restore** command (command names vary by agent).
2. In the **Restore** dialog box, type the starting path of the data you want to restore.
3. From the **Restore Options** and **Advanced Restore Options** dialog boxes, select the Time Range tab.
4. In the Advanced Restore Options (Time Range) dialog box, clear the **Show Deleted Items** option, if required.

In the Specify Restore Time area select the **Time Zone** for the time range options. Select the **Exclude Data Before** option and select the start date and time from which you wish to restore data, and select the **Browse Data Before** option and select the end date and time until which you wish to restore data.

5. Click **OK** in the Advanced Restore Options dialog box.
6. Click **OK** in the Restore Options dialog box to execute the restore.

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Browse and Restore

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OVERVIEW

There are two functions that help you retrieve backed up data from the backup media: browse and restore. In the CommCell Browser, the browse and variously-named restore commands appear, depending on agent, in the right-click menus at the agent, instance and/or backup set levels.

Browse operations allow you to view data that has been backed up by the agent on the client computer and select all or some of that data. Depending on the agent, there are several options available to customize your browse. See Browse Data for comprehensive information on Browse operations.

Restore operations allow you to retrieve data from backup media and restore it to the desired location. Restoring without browsing is most appropriate when you want to restore the latest backup job for an agent, instance or backup set and want to retain the current file structure. See Basic Restore for more information on restoring without using browse.

Browse and Restore

The Browse and Restore procedure is a sequential procedure that combines the two procedures. When you select a **Browse** command from the CommCell Browser, you can define and run one of many potential browse sequences. At the end of the browse, when you are looking at the resulting information presented in the Browse window, you can continue with a restore procedure simply by selecting data and clicking the **Recover All Data** button. As with the browse, depending on the agent, there are several options available to customize your restore.

Perform a **browse and restore** operation when you want to:

- restore from an earlier backup

- restore only select files/objects
 - restore deleted files/objects
 - when you don't want or don't need to retain the current file structure
 - utilize browse options
-

Browse and Restore - How To

Topics | [How To](#) | [Related Topics](#)

BROWSE AND RESTORE

Before You Begin:

- Review the general and agent-specific restore requirements accessed from Restore Backup Data prior to performing any restore operation.

Required Capability: See Capabilities and Permitted Actions

▶ To browse and restore data:

1. From the CommCell Browser, right-click the agent, instance, backup set, or Legal hold set (for Legal Hold data) that contains the data you want to restore, click **All Tasks** and then click the available **Browse** command (command names vary by agent).
2. Run a browse operation. See Browse Data for a list of customized browse operations and their step-by-step instructions. If you accept all defaults, you will be browsing the latest backups for the selected data.
3. From the Browse window, Select Objects From the Browse Window for Restore.
4. From the agent's **Restore Options** and **Advanced Restore Options** dialog boxes, select the restore options that you want to use. For agents with multiple tabs, do not click **OK** until you have used all of the desired tabs. When you accept all the default settings, you will be restoring the selected data to its original location. See Restore Backup Data for access to complete information on the agent-specific Restore Destination options and procedures available.
5. When restoring encrypted data, refer to Data Encryption for comprehensive feature information and procedures for using the Encryption tab of the Advanced Restore Options dialog box.
6. After completing your selections, you can either start an immediate restore or schedule the restore.
 - If you want to schedule the job, click the Job Initiation tab from the Restore Options dialog box, click **Schedule**, schedule the job, and then click **OK**.
 - If you want to run the job now, accept or click **Run Immediately** in the same tab and then click **OK**.

While the job is running, you can right-click the job in the Job Controller and select **Detail** to view information on the job. After the data has been restored, you will see a job completion message in the Job Controller and Event Viewer.

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Backup Sets - File System, NetWare Server and Active Directory iDataAgents

Topics | How To | Related Topics

Overview

File System, NetWare Server and Active Directory iDataAgent Configurable Properties

- User Accounts
- User Security

Windows File System iDataAgent Configurable Properties

- Use Change Journal or Classic File Scan for Backups, Set the Archive Bit Attribute, Preserve the File Access Time

Microsoft Data Protection Manager iDataAgent Configurable Properties

- Use Change Journal or Classic File Scan for Backups, Set the Archive Bit Attribute, Preserve the File Access Time

UNIX File System iDataAgent Configurable Properties

- Use Classic File Scan or Data Classification Enabler for Backups, Preserve the File Access Time

NetWare File System iDataAgent Configurable Properties

- Decompress Data Before Backup

Enhancing the Data Scan

- Enabling the Data Classification Scan
- Frequently Asked Questions

Using Backup Sets

OVERVIEW

During installation of the Windows File System, UNIX File System, NetWare File System, NetWare NDS and Active Directory iDataAgents, the system automatically creates a default backup set, which contains a default subclient. After installation, you have the option of defining a User Create Backup Set, which also will contain a default subclient.

FILE SYSTEM, NETWARE SERVER AND ACTIVE DIRECTORY iDATAAGENT CONFIGURABLE PROPERTIES

Once installed, the agent is configured and is therefore able to manage the data or volumes on the client computer. However, you can change certain aspects of the backup set configuration to manage the data in the manner that best suits your needs.

You can view or change the backup set configuration from the Backup Set Properties dialog box. The following information can be configured for all File Systems:

USER ACCOUNTS

The following pertains to NetWare File System, Novell Directory Service, and Windows File System:

One or more of the agents of this type use one or more accounts that are configured from a non-Properties dialog box. See the appropriate section for your agent(s) in User Accounts and Passwords for more information.

USER SECURITY

You can perform the following functions:

- Identify the user groups to which this CommCell object is associated.
- Associate this object with a user group.
- Disassociate this object from a user group.

For more information, see User Administration and Security.

The security tab is not available at the NetWare NDS iDataAgent Backup Set level.

WINDOWS FILE SYSTEM /DATAAGENT CONFIGURABLE PROPERTIES

You can view or change the backup set configuration from the Backup Set Properties dialog box. The following information can be configured for all Windows File Systems:

USE CHANGE JOURNAL OR CLASSIC FILE SCAN, SET THE ARCHIVE BIT ATTRIBUTE, PRESERVE THE FILE ACCESS TIME

From the backup set properties Job Options tab, you can choose to Use Change Journal or Classic File Scan, Set the Archive Bit Attribute, and Preserve the File Access Time. These options affect which files are backed up during incremental and differential backup jobs.

MICROSOFT DATA PROTECTION MANAGER /DATAAGENT CONFIGURABLE PROPERTIES

You can view or change the backup set configuration from the Backup Set Properties dialog box. The following information can be configured for Microsoft Data Protection Manager backup sets:

USE CHANGE JOURNAL OR CLASSIC FILE SCAN FOR BACKUPS, SET THE ARCHIVE BIT ATTRIBUTE, PRESERVE THE FILE ACCESS TIME

From the backup set properties Job Options tab, you can choose to Use Change Journal or Classic File Scan, Set the Archive Bit Attribute, and Preserve the File Access Time. These options affect which files are backed up during incremental and differential backup jobs.

UNIX FILE SYSTEM CONFIGURABLE PROPERTIES

You can view or change the backup set configuration from the Backup Set Properties dialog box. The following information can be configured for all UNIX File Systems:

USE CLASSIC FILE SCAN OR DATA CLASSIFICATION ENABLER FOR BACKUPS, PRESERVE THE FILE ACCESS TIME

From the backup set properties Job Options tab, you can choose to Use Classic File Scan or Data Classification Enabler and Preserve the File Access Time.

NETWARE FILE SYSTEM CONFIGURABLE PROPERTIES

You can view or change the backup set configuration from the Backup Set Properties dialog box. The following information can be configured for all NetWare File Systems:

DECOMPRESS DATA BEFORE BACKUP

The NetWare File System data can be in compressed format on a volume that supports compression, and data in compressed format can only be restored to a volume that supports compression. The **Decompress Data before Backup** option allows you to select whether to decompress data that is in compressed format on the backup media and can be restored to either a compressed or uncompressed volume. By default, data is backed up in a compressed format if the data is on a volume that supports compression.

See Enable Decompress Data before Backup for a NetWare File System Backup Set for step by step instructions.

ENHANCING THE DATA SCAN

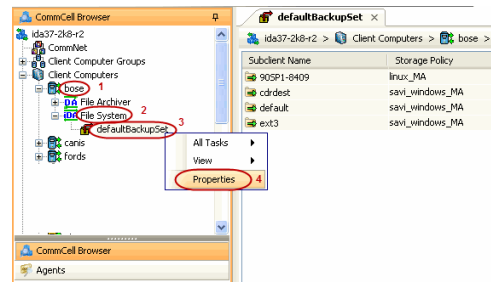
Enable the data classification scan to maximize the scan speed, resulting in faster backup and search.

To enable the Data Classification scan for the Unix File System iDataAgent, you must install the Data Classification Enabler package on the computer where Unix File System iDataAgent is installed. For more information, see Install Data Classification - Unix.

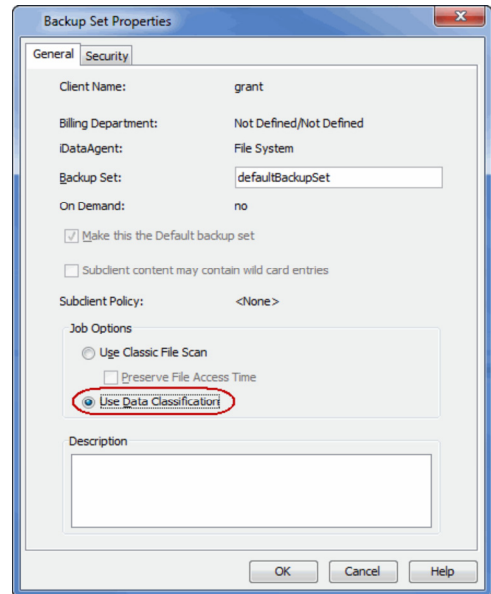
ENABLING DATA CLASSIFICATION SCAN

Follow the steps given below to enable the data classification scan for all the subclients in a BackupSet:

1.
 - From the CommCell Console, navigate to **<Client> | File System iDataAgent | defaultBackupSet**.
 - Right-click the **defaultBackupSet** and select **Properties**.



2.
 - Click **Use Data Classification**.
 - Click **OK** to enable the data classification.



FREQUENTLY ASKED QUESTIONS

HOW DOES THE DATA CLASSIFICATION SCAN ENHANCE THE SCANNING CAPABILITIES OF AN IDATAAGENT?

When you enable the Data Classification Scan for a File System, a meta database is created. The meta database contains information about the files in the associated volume. The Data Classification service constantly updates the databases to track file additions, volume additions, content update to files, etc. Journals from the FSF driver are used to keep track of the updates to each meta database.

WHAT IS THE DEFAULT LOCATION OF THE META DATABASE?

UNIX	WINDOWS
<p>The meta database is located at the root of each mount point, and is named .db.cv.</p> <p>For example: For /home, it would be /home/.DATACLASS_1/.db.cv</p> <p>You can relocate the database to a centralized location.</p>	<p>On each volume, the meta database is created at the following location: System Volume Information\Bull Calypso \Data Classification</p> <p>It is named as dc_<instance_number>.db</p> <p>For example: On the C drive, it would be C:\System Volume Information\Bull Calypso \Data Classification\dc_<instance_number>.db</p> <p>You cannot relocate the database.</p>

HOW MUCH HARD DISK SPACE IS CONSUMED BY THE METADATA DATABASE?

The meta databases created by Data Classification usually consume about 5% of the total space on the hard disk. Depending on the type of data and folder layout, the metafiles may consume additional space.

For Data Classification on Unix, each Data Classification update record consumes about 256 bytes (this assumes an average short name length of 16 bytes and an average full path length of 256 bytes).

Backup Sets - File System, NetWare Server and Active Directory iDataAgents - How To

Topics | How To | Related Topics

General Backup Set Procedures

- Change Default Backup Set/Archive Set Designation
- Create Backup Sets/Archive Sets
- Configure a Backup Set/Archive Set
- Associate a Subclient to a Storage Policy
- Change Account for Accessing Databases/Applications
- Change Account for Executing Pre/Post Commands (Data Protection)
- Rename a Backup Set/Archive Set
- Delete a User-Defined Backup Set/Archive Set
- Preserve the File Access Time

Windows File System

- Preserve the File Access Time
- Set the Archive Bit Attribute
- Use Change Journal, Classic File Scan, or Data Classification Enabler
- Create a New On Demand Backup Set (Windows/Unix/Macintosh)
- Create a New backup Set for Wildcard Support

UNIX File System

- Preserve the File Access Time
- Use Classic File Scan or Data Classification Enabler
- Create a New On Demand Backup Set (Windows/Unix/Macintosh)

NetWare Server

- Change Account for Restoring to Mapped/Shared Network Drives and Restricted Directories
 - Enable Decompress Data before Backup for a NetWare File System Backup Set (NetWare File System)
-

CHANGE DEFAULT BACKUP SET/ARCHIVE SET DESIGNATION

Required Capability: See Capabilities and Permitted Actions

▶ To change the default backup set or archive set designation:

1. From the CommCell Browser, right-click the icon for any supported backup set or archive set that is not currently the default and then click **Properties**.
 2. From the **General** tab of the Backup Set/Archive Set Properties dialog box, select the appropriate option to **Make this the default backup set** or **Make this the default archive set**.
 3. Click **OK** to save your settings.
-

CREATE BACKUP SETS/ARCHIVE SETS

Required Capability: See Capabilities and Permitted Actions

▶ To create backup sets/archive sets for the client computer:

1. From the CommCell Browser, locate the correct client computer node, right-click the iDataAgent, Agent or instance node (depending on your agent's functionality) for which you want the backup set/archive set created, select **All Tasks** and then click **Create New Backup Set** or **Create New Archive Set**.
2. For most agents, from the **Create New Backup Set** or **Create New Archive Set** dialog box, enter a **New Backup Set Name** or **New Archive Set Name** (up to 32 characters) of the backup set/archive set that you want to create. For the DB2 or DB2 DPF iDataAgent, from the same dialog box, click the desired database (backup set) name under **Available DB Names** and move this name under **Selection**.

NOTES

- For DB2 or DB2 DPF, to prevent archive log backup failures, ensure that the name that you select is the actual name of the database and not the alias name for the database. If the database name and the corresponding alias name are different, both names are displayed under **Available DB Names**; if both names are the same, the name that is displayed is the database name. To find out about database names and their aliases, run the following command as a DB2 or DB2 DPF instance owner on the DB2 or DB2 DPF client: **db2 list db directory**.
3. Where applicable, if you want to designate this backup set/archive set as the default backup set/archive set, select **Make this the Default backup set** or

Make this the Default Archive Set; otherwise, leave the check box cleared.

4. For most agents, verify that the storage policy copy associated with the default subclient is the storage policy that you want. If you want to select a different storage policy, click the storage policy box and select the one you want from the list. If the agent supports a system-state subclient, repeat this step for that subclient. For the DB2 or DB2 DPF iDataAgent, to establish a storage policy for all the log files, click the storage policy in the list provided.
5. Where applicable, if you want to create additional subclients within this backup set/archive set:
 - Click **Add**.
 - Follow Create a New Subclient procedure.
 - Repeat this step for each additional subclient that you want to define within this backup set/archive set.
 - When all subclients have been added, click **OK**.
 - A message will advise you to schedule backups for your new backup set. It is recommended that you elect to set a schedule now. You can also associate this backup set/archive set with an All Agent Types schedule policy (which is automatically created by the system, or can be a user-defined Data Protection schedule policy). If you have already associated a schedule policy at a previous level (Agent, Client, or Client Computer Group) the schedules defined in the Schedule Policy will be automatically applied to the new backup set/archive set. See Schedule Policy for more information.
 - If you want to associate this backup set/archive set with an All Agent Types schedule policy, click **Associate with Generic Schedule Policy**, and then select that schedule policy from the drop-down list box. Click **OK**.
 - If you have selected to define a schedule for this backup set/archive set:
 - Click **Schedule**.
 - If applicable, from the **Backup Options** dialog box, select the type of backup that you want to schedule.
 - If you want to set **Advanced Backup/Archive Options**, click **Advanced**.
 - After selecting the backup type and any advanced options, click **OK**. The **Schedule Details** dialog box appears.
 - From the Schedule Details tab, select the scheduling options that you want to apply, then click **OK**.
 - If you don't want to create a backup/archive schedule at this time, click **Do Not Schedule**, and then click **OK**.

The new backup set/archive set is displayed in the CommCell Browser.

A content example for NetWare File System is **SYS:\public**, and an example for NDS content is **OU=prospects.O=engineering.[Root]**.

CONFIGURE A BACKUP SET/ARCHIVE SET

Required Capability: See Capabilities and Permitted Actions

▶ To change the configuration of a backup set, archive set or SQL Server iDataAgent database:

1. From the CommCell Browser, right-click the backup set or archive set whose configuration you want to change, and then click **Properties** from the shortcut menu.
2. From the **General** tab, change one or more of the following fields as appropriate for your agent:
 - **Backup Set Name** - The field accepts 32 characters.
 - **Archive Set Name** - The field accepts 32 characters.
 - **Storage Policy for All Log Files**
 - **User Account** - For the DB2 or DB2 DPF iDataAgent, you can add/modify an application/database user account. See the DB2 iDataAgents section in **User Accounts and Passwords** for more information.
 - **Make this the default Backup Set** - When selected and committed, this option will make this the default backup set on this client computer.
 - **Make this the default Archive Set** - When selected and committed, this option will make this the default archive set on this client computer.
 - **Use Change Journal** (Recommended) or Use Classic File Scan which includes (**Check archive bit during backups** and/or **Preserve File Access Time**) settings which determine the way subclients within the backup set conduct incremental and differential backups (For an explanation of this field, see Setting the Archive Bit Attribute.)
 - **Use Data Classification** - Specifies that the Data Classification scan is used to determine whether files have been modified for all subclients within the backup set.
 - Select to have data on compressed volumes decompressed before being sent to the backup media. See Decompress Data before Backup for more information. (NetWare File System only.)
3. If your agent uses the Backup tab, click **Edit Rules** for the appropriate subclient type. You can elect to have the system automatically convert the type of backup under the listed conditions. Click **OK** to save your backup rules configuration changes. Without setting this option, if one of these conditions exists your backup will not take place. Subclient Backup Conversion Rules are defined for default subclients and for SQL Server file/file group subclients.
4. Click **OK**.
 - **Exchange Mailbox**

If you disable the auto-discovery feature, newly created mailboxes will not be backed up unless they are manually discovered and assigned to a subclient.

ASSOCIATE A SUBCLIENT TO A STORAGE POLICY

Required Capability: See Capabilities and Permitted Actions

▶ To associate a subclient to a storage policy:

1. From the CommCell Browser, right-click the subclient whose associated storage policy you want to change, then click **Properties** from the shortcut menu.
2. Click the Storage Device tab of the Subclient Properties dialog box.
3. From the **Storage Policy** list of the **Data Storage Policy** tab, select a data storage policy to associate with this subclient. If necessary, click the **Create Storage Policy** button to create a new storage policy to which the subclient can then be associated.
4. From the Changing a Storage Policy window select the next type of backup operation. Click **OK**.
5. If applicable for your agent, you can change the number of data streams from the **Number of Data/Database Backup Streams** field.
6. If applicable for your agent, click the **Log Storage Policy** tab and select a storage policy to associate with this transaction log subclient from the **Transaction Log Storage Policy** list. Also, you can set the **Number of Transaction Log Backup Streams** from this tab.
7. Click **OK** to save your changes and close the Subclient Properties Storage Device tab.

CHANGE ACCOUNT FOR ACCESSING DATABASES/APPLICATIONS

Required Capability: See Capabilities and Permitted Actions

▶ To change a user account for accessing DB2 databases:

1. From the CommCell Browser, expand the tree if necessary to view the desired level icon.
 - From the agent level, right-click the agent icon, click **All Tasks** from the short-cut menu, click **New Instance**, and go to the next step.
 - From the instance level, right-click the instance icon, click **Properties** from the short-cut menu, and go to Step 3.
 - From the backup set level, right-click the backup set icon, click **Properties** from the short-cut menu, and go to Step 4.
2. Use the **Creating New Instance** dialog box to create and configure the instance. Thereafter, from the **General** tab, click the **Change** button associated with the User Account information. Then go to Step 5.
3. From the **General** tab of the **Instance Properties** dialog box, click the **Change** button associated with the User Account information. Then go to Step 5.
4. From the **General** tab of the **Backup Set Properties** dialog box, ensure that the **Connect as a Different User** option is selected. Then click the **Change** button associated with the User Account information.
5. Enter the required information in the Set DB2 User Account dialog box.
6. Click **OK** to save the settings.

▶ To change a user account for accessing Oracle or SAP for Oracle applications on Windows not associated with QR Agent:

1. From the CommCell Browser, expand the tree if necessary to view the desired level icon.
 - From the agent level, right-click the agent icon, click **All Tasks** from the short-cut menu, and click **New Instance (Oracle SID)**.
 - From the instance level, right-click the instance icon and click **Properties** from the short-cut menu.
2. From the General tab, click the **Change** button associated with the User Account information.
3. Enter the required information in the Impersonate NT User dialog box.
4. Click **OK** to save the settings.

▶ To change a user account for accessing Oracle applications for QR Agent:

1. From the CommCell Browser, expand the tree if necessary to view the QR agent icon. Then right-click the icon and click **Properties**.
2. From the Authentication tab, click the **Oracle** sub-tab.
3. From the Oracle sub-tab, either click **Add Instance** or select an Oracle instance to edit and then click **Edit Instance**.
4. From the **Add Oracle Instance to QR Agent** dialog box, click **Change**.
5. Enter the required information in the Impersonate NT User dialog box.
6. Click **OK** to save the settings.

▶ To change a user account for accessing Informix, Oracle, or SAP for Oracle applications on Unix:

1. From the CommCell Browser, expand the tree if necessary to view the desired level icon. From the agent level, right-click the agent icon, click **All Tasks** from the short-cut menu, click **New Instance**, and go to the next step. From the instance level, right-click the instance icon, click **Properties** from the short-cut menu, and go to Step 3.
 2. Use the New Instance dialog box to create and configure the instance.
 3. From the General tab of the Instance Properties dialog box, do one of the following, as appropriate.
 - o For Informix, type the name of the user account in the INFORMIX USER field.
 - o For Oracle or SAP for Oracle, type the name of the user account in the ORACLE USER field.
 4. Click **OK** to save the settings.
-

CHANGE ACCOUNT FOR EXECUTING PRE/POST COMMANDS (DATA PROTECTION)

Required Capability: See Capabilities and Permitted Actions

▶ To change a user account for executing pre/post commands for Data Protection jobs:

1. From the CommCell Browser, expand the tree to view the appropriate level icon for the affected agent.
 - o From the agent, instance/partition, or backup set/archive set level, right-click the appropriate icon, click **All Tasks**, and click **New Subclient** from the short-cut menu.
 - o From the subclient level, right-click the subclient icon and click **Properties** from the short-cut menu.
 2. From the Subclient Properties dialog box, create and/or configure the subclient as appropriate. Then click the **Pre/Post Process** tab.
 3. From the **Pre/Post Process** tab, click **Change**.
 4. From the User Account dialog box, select one of the account options. If you select **Impersonate User**, type the appropriate user name and password.
 5. Click **OK** to save the settings.
-

RENAME A BACKUP SET/ARCHIVE SET

Required Capability: See Capabilities and Permitted Actions

▶ To rename a backup set or archive set:

1. From the CommCell Browser, right-click the icon for the appropriate backup set or archive set and then click **Properties**.
 2. From the **General** tab of the Backup Set/Archive Set Properties dialog box, type the desired name in the **Backup Set** or **Archive Set** field.
 3. If you want to make this renamed backup set/archive set the default backup set/archive set, select the corresponding check box (where applicable).
 4. Click **OK** to save your settings.
-

DELETE A USER-DEFINED BACKUP SET/ARCHIVE SET

Before You Begin

- Each agent that utilizes backup sets/archive sets requires the default backup set/archive set in its configuration; therefore, you cannot delete a default backup set/archive set using this procedure. If you want to delete a default backup set/archive set, you must uninstall the agent software that contains it.
- The system does not allow you to delete a backup set/archive set if one of its subclients is being backed up/archived. Any attempt to delete a backup set/archive set under such a condition causes the deletion to fail. If a data protection operation is in progress, do one of the following:
 - o Wait for the data protection job to complete.
 - o Kill the data Protection job using the Job Manager.
- When you delete a backup set/archive set, several actions occur:
 - o The backup set/archive set, its corresponding subclients, and any data that may have been backed up/archived from the backup set/archive set are logically deleted. Once the backup set/archive set is deleted, you can no longer access the corresponding data for restore/recovery purposes.
 - o All job schedules and job histories that pertain to the subclients of the deleted backup set/archive set are deleted.

Required Capability: See Capabilities and Permitted Actions

▶ To delete a user-defined backup set or archive set:

1. From the CommCell Browser, right-click the user-defined backup set/archive set that you want to delete, select **All Tasks** and then click **Delete**.
2. A confirmation message is displayed, asking if you want to delete the backup set/archive set with all of its subclients. Click **Yes** to continue the deletion, or click **No** to cancel the deletion and retain the backup set.

3. If you clicked **Yes** in the previous step, then the **Enter Confirmation Text** dialog will appear, indicating that all the data in the backup set/archive set will be permanently removed. To confirm this action and continue with the deletion, type **erase and reuse media** in the entry space provided on this dialog. Click **OK**. The system will delete the selected backup set/archive node, the subclient nodes contained within it, and remove them from the CommCell Browser along with any associated data.
-

PRESERVE THE FILE ACCESS TIME

Required Capability: See Capabilities and Permitted Actions

▶ To preserve the file access time:

1. From the CommCell Browser, right-click the desired file system backup set node, and then click **Properties** from the shortcut menu.
 2. From the General tab, select the **Preserve File Access Time** option.
 3. Click **OK** to save your change.
-

SET THE ARCHIVE BIT ATTRIBUTE

Required Capability: See Capabilities and Permitted Actions

▶ To set the archive bit:

1. From the CommCell Browser, right-click the desired file system backup set node, and then click **Properties** from the shortcut menu.
 2. From the General tab, select the **Check archive bit during backups** option.
 3. Click **OK** to save your change.
-

USE CHANGE JOURNAL, CLASSIC FILE SCAN, OR DATA CLASSIFICATION SCAN

Before You Begin

- For Unix, review Using Classic File Scan or Data Classification Scan for Backups
- For Windows, review Using Change Journal, Classic File Scan, or Data Classification Scan for Backups

Required Capability: See Capabilities and Permitted Actions

▶ To use Classic File Scan, Change Journal, or Data Classification Enabler:

1. From the CommCell Browser, right-click the desired file system backup set or archive set and click **Properties**.
 2. From the General tab, select the **Use Change Journal, Use Classic File Scan, or Use Data Classification**.
 3. Optionally, select **Preserve File Access Time**.
 4. Optionally, if applicable, select **Check archive bit during backups**.
 5. Click **OK** to save your changes.
-

CREATE A NEW ON DEMAND BACKUP SET/ARCHIVE SET

Required Capability: See Capabilities and Permitted Actions

▶ To create a new On Demand Backup Set/Archive Set:

1. From the CommCell Browser, locate the correct client computer node, right-click the Agent for which you want the backup set or archive set created, click **All Tasks** and then click **New On Demand Backup Set** or **New On Demand Archive Set**.
2. From the **Create New On Demand Backup Set/Archive Set** dialog box, enter a **New Backup Set Name** or a **New Archive Set Name** (up to 32 characters) of the backup set/archive set that you want to create.
3. Associate a storage policy with the default subclient by selecting one from the Storage Policies drop-down list.
4. If you want to edit the properties of the default subclient, select the subclient and click **Edit**. From the Subclient Properties dialog box you can change the name and other properties of the subclient.
5. When done, click **OK** to continue.
6. For *iDataAgents*, a message advises you to schedule data protection operations for your new backup set. It is recommended you elect to set a schedule now. You can also associate this backup set with an All Agent Types schedule policy (which is automatically created by the system).

- If you want to associate this backup set with an All Agent Types schedule policy, click **Associate with Generic Schedule Policy**, and then select that schedule policy from the drop-down list box. Click **OK**.
- If you have selected to define a schedule for this backup set:
 - Click **Schedule**.
 - From the Backup Options dialog box, select the type of data protection operation that you want to schedule.
 - If you want to set **Advanced Backup Options**, click **Advanced**.
 - After selecting the backup type and any advanced options, click **OK**. The **Schedule Details** dialog box appears.
 - From the Schedule Details Schedule Details tab, select the scheduling options that you want to apply, then click **OK**.
- If you don't want to create a schedule at this time, click **Do Not Schedule**, and then click **OK**.

The new backup set/archive set is displayed in the CommCell Browser.

NOTES

- Once an On Demand Backup Set/Archive Set has been created, it cannot be changed into a traditional backup set/archive set.

CREATE A NEW BACKUP SET FOR WILDCARD SUPPORT

Required Capability: See Capabilities and Permitted Actions

▶ To create backup sets for the client computer:

1. From the CommCell Browser, locate the correct client computer node, right-click the *iDataAgent*, Agent for which you want the backup set created, select **All Tasks** and then click **Create New Backup Set**.
2. From the **Create New Backup Set** dialog box, enter a **New Backup Set Name**(up to 32 characters) of the backup set that you want to create.
3. Where applicable, if you want to designate this backup set as the default backup set, select **Make this the Default backup set**; otherwise, leave the check box cleared.
4. Select the **Subclient content may contain wild card entries** check box.
5. For most agents, verify that the storage policy copy associated with the default subclient is the storage policy that you want. If you want to select a different storage policy, click the storage policy box and select the one you want from the list. If the agent supports a system-state subclient, repeat this step for that subclient.
6. A message will advise you to schedule backups for your new backup set. It is recommended that you elect to set a schedule now. You can also associate this backup set/archive set with an All Agent Types schedule policy (which is automatically created by the system, or can be a user-defined Data Protection schedule policy). If you have already associated a schedule policy at a previous level (Agent, Client, or Client Computer Group) the schedules defined in the Schedule Policy will be automatically applied to the new backup set/archive set. See Schedule Policy for more information.
 - If you want to associate this backup set/archive set with an All Agent Types schedule policy, click **Associate with Generic Schedule Policy**, and then select that schedule policy from the drop-down list box. Click **OK**.
 - If you have selected to define a schedule for this backup set/archive set:
 - Click **Schedule**.
 - If applicable, from the **Backup Options** dialog box, select the type of backup that you want to schedule.
 - If you want to set **Advanced Backup**, click **Advanced**.
 - After selecting the backup type and any advanced options, click **OK**. The **Schedule Details** dialog box appears.
 - From the Schedule Details tab, select the scheduling options that you want to apply, then click **OK**.
 - If you don't want to create a backup/archive schedule at this time, click **Do Not Schedule**, and then click **OK**.

The new backup set is displayed in the CommCell Browser with a default subclient.

CHANGE ACCOUNT FOR RESTORING TO MAPPED/SHARED NETWORK DRIVES AND RESTRICTED DIRECTORIES

Required Capability: See Capabilities and Permitted Actions

▶ To change a user account for restoring to mapped/shared network drives and restricted directories:

1. From the CommCell Browser, expand the tree to view the desired level icon for the affected agent. Then right-click the icon and click **All Tasks** from the short-cut menu.
2. Click the appropriate **Browse** or **Restore** option. Then populate, select, and click as appropriate to access the **Restore Options (for All Selected Items)** dialog box.
3. From the **Restore Options (for All Selected Items)** dialog box, click **Advanced**.

4. From the Advanced Restore Options dialog box, select **Impersonate (Windows, NetWare) User**. Then type the appropriate user name and password.
 5. Click **OK** to save the settings.
-

ENABLE DECOMPRESS DATA BEFORE BACKUP FOR A NETWARE FILE SYSTEM BACKUP SET

Before You Begin

- Review Decompress Data before Backup

Required Capability: Capabilities and Permitted Actions

▶ To enable Decompress Data before Backup:

1. From the CommCell Browser, right-click the backup set of a NetWare File System iDataAgent for which you want to enable decompression, then click **Properties**.
2. In the General tab, select **Decompress Data before Backup**.
3. Click **OK** to save your change.

This task is now complete.

Subclients - OES File System

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Overview

Configurable Properties

Things to Consider when Creating and Configuring OES File System Subclients

OVERVIEW

The following table shows subclient creation and configuration details specific to the OES File System iDataAgent.

AGENT	Type of Data	Default Subclient created during install of the Agent	Supports Default Subclient	Supports User Defined Subclient	Contents of the default subclient when user-defined subclient is present	Other Types of subclients supported by the Agent	Notes
OES File System iDataAgent	NetWare files	Yes	Yes	Yes	portion of file system not assigned to other subclients, unless otherwise configured*	None	*See Caution Against Re-configuring Default Subclient Content.

The following examples illustrate a simple subclient configuration:

- Example - OES File System

CONFIGURABLE PROPERTIES

Once installed, the agent is configured and is therefore able to manage the data or volumes on the client computer. However, you can change certain aspects of the subclient configuration to manage the data in the manner that best suits your needs.

You can view or change the subclient configuration from the Subclient Properties dialog box. The following information can be configured.

ACTIVITY CONTROL

You can enable or disable all operations for this CommCell object and all objects below it. For more information, see Activity Control.

CONTENT/DATABASES

You can define the content of the subclient. Most agents include a configure button that displays a dialog where you can add or modify the data included as subclient content. For step-by-step instructions, see Configure Subclient Content.

DATA TRANSFER OPTIONS

Several configurable options to efficiently use available resources for transferring data secured by data protection operations are provided in the subclient. This includes the following:

- Enable or disable Data Compression either on the client or the MediaAgent.
- Configure the transfer of data in the network using the options for Network Bandwidth Throttling and Network Agents.

DATA ENCRYPTION

You can enable or disable the encryption of data for transmission over unsecure networks and for storage on media. For more information, see Data Encryption.

DATA PATHS

You can view the data paths associated with the primary storage policy copy of the selected storage policy or incremental storage policy. You can also modify the data paths for the subclient including their priority. For additional information, see Configuring Alternate Data Paths for Subclients.

DATA PROTECTION FILTERS

You can perform the following functions:

- Define data protection filters to exclude specified subclient data from being backed up or archived. For more information, see [Filters](#).
- Use regular expressions (or wildcards) in subclient data protection exclusion filters. See [Inclusions, Exclusions, and Exceptions to Exclusions](#) for more information.
- Perform in-place editing of subclient data protection filter exclusions and exceptions. See [Editing Filters](#) for more information.

GLOBAL FILTERS

You can enable or disable Global Filters. For more information, see [Global Filters](#).

The OES File System iDataAgent supports only the global filter options supported by the Unix File System iDataAgent. Thus, when creating global filters, you must create them under **Unix Filters**.

PRE/POST PROCESSES

You can add, modify or view Pre/Post processes for the subclient. These are batch files or shell scripts that you can run before or after certain job phases. For more information, see [Pre/Post Processes](#).

STORAGE POLICIES

You can associate the subclient to a storage policy. For more information, see [Storage Policies](#).

SUBCLIENT NAME

You can rename a subclient. For step-by-step instructions, see [Rename a Subclient](#).

USER SECURITY

You can perform the following functions:

- Identify the user groups to which this CommCell object is associated.
- Associate this object with a user group.
- Disassociate this object from a user group.

For more information, see [User Administration and Security](#).

THINGS TO CONSIDER WHEN CREATING AND CONFIGURING OES FILE SYSTEM SUBCLIENTS

When creating and configuring subclients for OES File System agents, keep in mind the following considerations:

- **Subclient Content Considerations**
 - When specifying subclient contents using regular expressions, keep in mind that the option to Treat Characters as Regular Expressions applies only to the last level of the content path for user-defined subclients and is not supported for default subclients.
 - It is recommended that you perform a full backup after changing or adding any subclient content definitions in the **Subclient Properties (Content)** tab in order to ensure that all of the data is backed up.
 - **Caution Against Re-configuring Default Subclient Content**

We recommend that you do not re-configure the content of a default subclient because this would disable its capability to serve as "catch-all" entity for client data. As a result, the likelihood that some data will not get backed up or scanned for archiving would increase.

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View Subclient Content

ADD/EDIT A DATA PROTECTION FILTER FOR A SUBCLIENT

Before You Begin

- Review Filters.
- Do not change the data protection or discovery filter of a subclient that has a data protection operation in progress.
- The system does not allow you to add entries that are not content of a particular subclient to that subclient's filter.
- For BlueArc and EMC Celerra (running at least DART OS 5.6.x) subclients, the filter string with or without wildcards must match the name or path of the file or directory being filtered.
- For NetApp subclients only name type filters (with wildcards) are supported:
 - You cannot enter paths as a filter (e.g. /vol/vol10/data1). Since NetApp does not support the use of paths in filters, if there are multiple files with the same name, even though they may be in different directories, all of them will be excluded from backups.
 - Name of the file or directory must exactly match the filter string.
 - You can specify a maximum of 32 strings in the exclude list.

Select the desired procedure:

- To add a data protection or discovery filter for a subclient
- To edit a data protection filter for a subclient

Required Capability: Capabilities and Permitted Actions

▶ To add a data protection or discovery filter entry for a subclient:

1. From the CommCell Browser, right-click the subclient whose data protection or discovery filter you want to add, and then click **Properties** from the shortcut menu.
2. Click the Filters tab of the Subclient Properties dialog box.
3. For Exchange Mailbox, Exchange Mailbox/Public Folder Archiver Agents and Exchange Compliance Archiver, to specify a mailbox or folder that you want to exclude from data protection operations:
 - Click the upper **Add** button.
 - From the Browse window, expand the mailbox tree of the client computer.
 - Click the mailbox or folder that you want to exclude from the backup/archive operations on the selected subclient, and then click **Add**. (Repeat this step for each additional entry.)
 - From the Browse window, click **OK**.

The mailboxes or folders that you selected appear as entries in the upper pane. Repeat this step if you want to add more mailboxes and/or folders to the filter.
4. For NAS NDMP iDataAgents, click the **Add** button and, in the input window, type the name of the file, directory, (or path for BlueArc) that you want to exclude from the backups and click **OK**. The name displays as an entry in the **Exclude these files/folders/patterns** pane. Repeat this step if you want

to add more files, directories, or paths to the filter.

5. For SharePoint Server iDataAgents, to specify a URL/file/folder/pattern that you want to exclude from data protection operations or to specify an exception filter for database backup sets, do one of the following:
 - Click the **Add** button next to **Exclude these files/folder/patterns**: input window and type the URLs of site collections that you want to exclude from the backups and click **OK**. The site collection displays as an entry in the **Exclude these files/folders/patterns** pane. Wildcards are supported. See [Wildcards](#) for more information. Repeat this step if you want to add more URLs, files, directories, or paths to the filter.
 - Click the **Add** button next to **Except for these files/folders**: input window and type the URLs/folders of site collections that you want to be exceptions for the exclusion filter and click **OK**. These exceptions will be included in the data protection operations. Wildcards are not supported for exception filters.
6. For Exchange Public Folder iDataAgents and SharePoint Server iDataAgent, to specify a workspace/folder that you want to exclude from the backups, click the upper **Browse** button and expand the iDataAgent of the client computer. Click the workspace/folder that you want to exclude from the backups and then click **Add**. Repeat this step for each additional entry.
7. For Windows/Unix/Macintosh File System iDataAgents, File Archiver for Windows/Unix Agents, and ProxyHost iDataAgent, to specify a file/folder/directory that you want to exclude from data protection operations, do one of the following:
 - Click the upper **Add** button and, in the **Enter Path** window, type the complete path (including drive letter) of the file/folder/directory that you want to exclude from the backups/archive operations. Repeat this step if you want to add more files/folders/directories to the filter.
 - Click the upper **Browse** button and expand the file system of the client computer. Click the file/folder/directory that you want to exclude from backups/archive operations and then click **Add**. Repeat this step for each additional entry.
8. For NetWare File System/NDS iDataAgents, to specify data that you want excluded from the backups, do one of the following:
 - To manually enter the path:
 - Click the **Add** button.
 - In the Input window, type the complete path (e.g., VOL1:\demo\disk2) of the data that you want to exclude.
 - Click **OK**. (The path that you typed displays as an entry in the upper pane.) Repeat this step if you want to exclude more data.
 - To browse and select a path:
 - Click the **Browse** button.
 - From the Backup Data window, expand the file system or NDS tree of the NetWare server.
 - Select the data that you want to exclude, and then click **Add**. Repeat this step for each additional entry.
 - From the Backup Data window, click **OK**. The data that you selected displays as entries in the upper pane.
9. For Lotus Notes Database and Lotus Notes Document iDataAgents, to specify a file or folder that you want to exclude from discovery, do one of the following:
 - Select the **Pattern/path to be excluded** field. Then type in a file or folder that you want to exclude. The format of the entry should start with a slash (\). The path entered is always relative to the data path of the partition. Then click **Add**. Repeat this step for each additional entry.
 - Click the upper **Browse** button and expand the file system of the client computer. Click the file or folder that you want to exclude from the backups and then click **Add**. Repeat this step for each additional entry.
10. For Exchange Mailbox, Exchange Mailbox/Public Folder Archiver Agents and Exchange Compliance Archiver, to specify a wildcard pattern of the folders that you want to exclude across all mailboxes within the subclient:
 - Click the lower **Add** button.
 - In the Input window, type the wildcard pattern of the folders that you want to exclude from backup/archive operations on the selected subclient.
 - Click **OK**. The path that you typed appears as an entry in the lower pane. Repeat this step if you want to add more entries to the filter.
11. For Exchange Public Folder iDataAgents and SharePoint Server iDataAgent, to specify an exception to an excluded workspace/folder (i.e., a folder/document that you want included in the backups, but whose parent directory has been excluded), click the lower **Browse** button and expand the iDataAgent of the client computer. Click the workspace/folder that you want to include in the backups and then click **Add**. Repeat this step for each additional entry.
12. For Windows/Unix/Macintosh File System iDataAgents, File Archiver for Windows/Unix Agents, and ProxyHost iDataAgent, to specify an exception to an excluded folder/directory (i.e., a file or folder/directory that you want included in the data protection operations, but whose parent folder/directory has been excluded), do one of the following:
 - Click the lower **Add** button and, in the **Enter Path** window, type the complete path (including drive letter) of the file/folder/directory that you want to include in the backups/archive operations. Repeat this step if you want to add more exceptions to the filter.
 - Click the lower **Browse** button and expand the file system of the client computer. Click the file/folder/directory that you want to include in the backups/archive operations and then click **Add**. Repeat this step for each additional entry.
13. For NetWare File System/NDS iDataAgents, to specify an exception to an excluded directory or NDS container (i.e., data that you want included in the backups, but whose parent directory or NDS container has been excluded), do one of the following:
 - To manually enter the path:
 - Click the **Add** button.

- In the Input window, type the complete path (e.g., VOL1:\demo\disk2\readme) of the data that you want to include.
- Click **OK**.
- To browse and select a path:
 - Click the **Browse** button.
 - From the Backup Data window, expand the file system or NDS tree of the NetWare server.
 - Click the file or folder that you want to include in the backups and then click **Add**. Repeat this step for each additional entry.
 - Click **OK**. The selected data displays as entries in the lower pane.

14. Click **OK** to save your changes.

Required Capability: Capabilities and Permitted Actions

▶ To edit a data protection filter entry for a subclient:

1. From the CommCell Browser, right-click the subclient whose data protection filter you want to edit, and then click **Properties** from the shortcut menu.
2. Click the Filters tab of the Subclient Properties dialog box.
3. Click the filter entry that you want to edit, and then click the **Edit** button associated with that pane.
4. Type the changes into the **Enter Path** dialog box, then click **OK**.
5. Click **OK** to save your changes.

NOTES

- When you change a data protection or discovery filter, the change is effective the next time a data protection operation is run on the applicable subclient.
- Performing a full backup after changing filters or exceptions is recommended.

ASSOCIATE A SUBCLIENT TO A STORAGE POLICY

Required Capability: See Capabilities and Permitted Actions

▶ To associate a subclient to a storage policy:

1. From the CommCell Browser, right-click the subclient whose associated storage policy you want to change, then click **Properties** from the shortcut menu.
2. Click the Storage Device tab of the Subclient Properties dialog box.
3. From the **Storage Policy** list of the **Data Storage Policy** tab, select a data storage policy to associate with this subclient. If necessary, click the **Create Storage Policy** button to create a new storage policy to which the subclient can then be associated.
4. From the Changing a Storage Policy window select the next type of backup operation. Click **OK**.
5. If applicable for your agent, you can change the number of data streams from the **Number of Data/Database Backup Streams** field.
6. If applicable for your agent, click the **Log Storage Policy** tab and select a storage policy to associate with this transaction log subclient from the **Transaction Log Storage Policy** list. Also, you can set the **Number of Transaction Log Backup Streams** from this tab.
7. Click **OK** to save your changes and close the Subclient Properties Storage Device tab.

ASSOCIATE OR DISASSOCIATE A USER GROUP TO A COMMCELL OBJECT

Required Capability: See Capabilities and Permitted Actions

▶ To associate or disassociate a user group to a CommCell entity:

1. From the CommCell Browser, click the CommServe, client computer group, client computer, agent, MediaAgent, Library, Storage Policy, backup set, subclient, or Shelf media, and then select **Properties**.
2. From the **Security** tab, select the appropriate user groups to which you want to associate to the CommCell object from the **Available Groups** pane, and then move the user group to the **Associated Groups** pane.
3. Click **OK**.

CONFIGURE A SUBCLIENT FOR PRE/POST PROCESSING OF DATA PROTECTION/ARCHIVE OPERATIONS

Before You Begin

- We recommend not configuring a pre/post process for a subclient that is currently running a data protection or archive operation.

- Verify that there are no pre/post processes already assigned for the subclient.
- Review the Overview and Agent-Specific Guidelines for your agent before configuring pre/post processes for data protection/archive operations.
- Pre-process commands for the iDataAgents will be executed only when the necessary resources (e.g., media, library, drive, etc.) are available.

Required Capability: Capabilities and Permitted Actions

▶ To configure a subclient for Pre/Post processing of data protection/archive operations:

1. From the CommCell Browser, right-click the subclient for which you want to configure a pre/post process, and then click **Properties** from the shortcut menu.
2. Click the Pre/Post Process tab of the Properties dialog box.
3. For an agent other than the Oracle RAC iDataAgent, click inside the space that corresponds to one of the following phases and type the full path of the process that you want executed during that phase. Alternatively, click **Browse** to locate the process (applicable only for paths that do not contain any spaces). For the Oracle RAC iDataAgent, click **Browse** for the corresponding process, click the name of the control node client in the Select Client for Browse dialog box, and click **OK**. Then browse for and click the process.
 - PreBackup
 - PreScan
 - PreArchive
 - PreCopy
 - PreSnap
 - PostBackup
 - PostScan
 - PostArchive
 - PostCopy
 - PostSnap
 Click **OK**.
4. If you want to run a Post Process for all attempts to run that job phase, then select the corresponding checkbox.
5. For subclients on Windows platforms, if **Run As** displays **Not Selected**, or if you want to change the account that has permission to run these commands, click **Change**.
 - a. In the User Account dialog box, select **Use Local System Account**, or select **Impersonate User** and enter a user name and password. Click **OK**.
 - b. If you selected Local System Account, click **OK** to the message advising you that commands using this account have rights to access all data on the client computer.
6. Click **OK** to save your changes and close the Pre/Post Process tab of the Properties dialog box.

CONFIGURE SUBCLIENT CONTENT

Before You Begin

- Review Subclients.
- Do not configure the content of a subclient while the parent node or any sibling subclient has a data protection or archive operation currently running on it.
- Exchange Mailbox iDataAgents and Exchange Mailbox/Public Folder Archiver Agents: If you change the contents of the default backup set or archive set then the auto-discover feature will be disabled. If you disable the auto-discovery feature, newly created mailboxes will not be backed up/archived unless they are manually discovered and assigned to a subclient.
- NAS NDMP iDataAgents: You must ensure there is no overlap in content between all subclients. Overlap in subclient content will result in loss of data. An existing subclient's contents are not automatically changed when another subclient is added with overlapping contents.
- SharePoint Server iDataAgent: The Site Content Database, the Site Collection Database, the Site Database, and the Site Index for the virtual server must all be assigned to the same subclient.
- Lotus Notes Document iDataAgent: Review Assigning Restore View Names to Newly-discovered Databases
- QR Agent: Follow these guidelines when adding a volume to a QR Agent subclient:
 - The volume must correspond to a physical disk or RAID array.
 - A volume created by volume management software other than VxVM is not valid subclient content.
 - Subclients may have overlapping content; however, if two or more subclients overlap, they all must use the same snapshot engine. If the QR policies associated with the subclients are configured to use different snap engines, they must be reconfigured to use the same snap engine in this scenario.
- **Caution Against Re-configuring Default Subclient Content**

We recommend that you do not re-configure the content of a default subclient because this would disable its capability to serve as "catch-all" entity for client

data. As a result, the likelihood that some data will not get backed up or scanned for archiving would increase.

Required Capability: See Capabilities and Permitted Actions

▶ To configure subclient content:

1. From the CommCell Browser, right-click the subclient for which you want to configure content, click **All Tasks** (if applicable) and then click **Properties**.
2. Follow the procedure below that is applicable for your agent:
 - For File System, Active Directory, File Archiver, Exchange Public Folder iDataAgents, NDS, and SharePoint Server iDataAgents click the Subclient Properties (Content) tab and configure content for the subclient as described below for your agent:
 - For File System, Active Directory, File Archiver, NDS, and SharePoint Server iDataAgents: Type the full path of the data that you want to include as subclient content in the **Enter New Content** field, then click **Add**. Optionally, click **Browse** to enter the content. When browsing content while configuring SharePoint subclients, you can add content via multiple selections with the CTRL or SHIFT keys. For Windows, when specifying a UNC Path, click **As User**, and enter the user account information for the domain user with permissions for that path. For NetWare/DNS, see the Notes section below for content path examples. For Unix File Systems, you can enter the mount point of an NFS-mounted file system, see the Notes section below for examples.
 - For Exchange Public Folder iDataAgents: Click **Browse**, select folders to include as content, then click **Add**.
 - For the Unix File System iDataAgents, to facilitate the management of resource fork data in Apple double-encoded Macintosh files, click **Enable Apple Double Support**.
 - For the Unix File System iDataAgents, to view the actual data path for any symbolic link in the subclient content, click **Expand symbolic links of subclient content** and then click **Discover**.
 - For NAS NDMP iDataAgents, configure the **Backup Content Path** field(s) as described below, then click **Add**:
 - Click the drop-down list arrow to display the root volumes on the file server. To change the root volume, click one in the list. If you want to refine the content path further, use the space to the right of (or below) the root volume list to enter additional path information. Note the following:
 - For NetApp, the root volume is the mount path of each volume.
Example: for volume FS1 the root volume will be /vol/FS1.
 - For EMC Celerra, the root volume is the mount point created for a volume.
Example: for volume FS1 with mount point /FS1 the root volume will be /FS1.
 - For Hitachi, no root volumes are shown in the drop down list. Type the full path of the root volume.
Example: for volume FS1 with mount point /mnt/FS1 the root volume will be /mnt/FS1.
 - For BlueArc, the root volume is a combination of a descriptor of the path and the volume name.
Example: for volume FS1 with a mount point of / the root volume will be /__VOLUME__/FS1.
 - Optionally, for NetApp NAS NDMP, click **Browse** to enter the content.
 - For Exchange Mailbox and Exchange Mailbox/Public Folder Archiver Agents follow the procedure to Discover and Assign New Mailboxes or Assign Mailboxes to Another Subclient.
 - For Lotus Notes Database and Document iDataAgents follow the procedure to Discover and Assign New Databases or Assign Databases to a Subclient.
 - For DB2, DB2 DPF, Exchange Database, Novell GroupWise, SharePoint Server, SQL Server Database, Sybase, and MySQL iDataAgents, click the Subclient Properties (Content) tab and configure content for the subclient as described below for your agent:
 - For the DB2 iDataAgent, specify whether you want to include the entire database or a subset of this data as content for the subclient. For the DB2 DPF iDataAgent, specify whether you want to include all the affected database partitions or a subset of this data as content for the subclient.
 - For Exchange and GroupWise iDataAgents: Click **Configure**. From the Add/Modify Subclients dialog box click the subclient entry for the database element/Storage Group that you want to add to the new subclient and select the name of the destination subclient from the list that appears. Alternatively, you can select and assign a range of databases/storage groups using the **Change all selected databases/storage groups to list**. Note that you must have at least one database element/Storage Group assigned to this subclient in order to save the configuration.

A database/Storage Group that is not configured for a subclient does not appear in the list. This can be the case if the subclient containing the database/Storage Group was deleted. If this happens, click **Discover** to display all databases/Storage Groups.

 - For the SharePoint Server iDataAgent, follow the procedure to Discover and Assign New Data Types.
 - For the Sybase iDataAgent, follow the procedure to Manually Discover Databases.
 - For the MySQL iDataAgent, follow the procedure to Configure MySQL Databases.
 - For the Informix iDataAgent, click the Subclient Properties (Content) tab and define the contents of the subclient. Specifically, establish the backup mode for the data to be backed up, set the backup level, and decide whether to back up the emergency boot file and/or the ONCONFIG file.
 - For the Oracle, SAP for Oracle, or Oracle RAC iDataAgent, click the Subclient Properties (Content) tab and define the contents of the subclient. To configure this subclient for specialized types of backups, follow the appropriate procedure below:
 - Create Subclient for Backing Up Archived Redo Log Files
 - Create Subclient for Backing Up Offline Databases
 - Create Subclient for Backing Up Online Databases
 - Create Subclient for Performing Selective Online Full Backups
 - For SAN iDataAgents, click the Subclient Properties (Content) tab and configure content for the subclient as described below for your agent:

- Image Level on Unix iDataAgent: Click **Add**. From the Add Content Path dialog box, select the volume(s) that you want to back up (use CTRL + click to select multiple volumes). Click **OK**. The selected volumes are added to the **Contents of subclient** list. These volumes are automatically configured to be CXBF devices. Alternatively, use Volume Explorer per specific scenarios to configure CXBF devices.

To configure an unmounted block device or raw device as content, first use Volume Explorer to configure the device as a CXBF device. Then select the configured CXBF device as subclient content. You can ignore the warning that is displayed.

For more information, see When to Use Volume Explorer. For a step-by-step procedure, see Configure a CXBF Device in Volume Explorer.

- Image Level and Image Level ProxyHost on Windows iDataAgents: Click **Add**. Then in the **Add Content** dialog box, type the full path of the volume or mount point that you want to include as subclient content, then click **Add**. Optionally, click **Browse** to select the content. Click **OK**. The volume or mount point is added to the **Contents of subclient** list. Add additional content by repeating this step.
- ProxyHost iDataAgent: Select a backup host from the **Backup Host** list. This is the computer to which the BCV is connected. Click **Add**. In the **Content** field of the Add/Edit Content for Subclient dialog box, type the primary host path of the content that you want to back up, or click **Browse** to find and select this data. In the **Backup Host BCV Path** field of the Add/Edit Content for Subclient dialog box, type the path through which the backup host accesses this data on the BCV, or click **Browse** to find and select this path. Click **OK**. The primary host data path and corresponding backup host BCV path are added as a single entry in the **Contents of subclient** list. To add additional entries, repeat these steps. Refer to Notes below for more information.

○ For Quick Recovery Agents, click the Subclient Properties (Content) tab and configure the following options:

- Click **Add Volume**. From the Adding Volume dialog box, select volume(s) that you want to add to the subclient content (use CTRL + click to select multiple volumes). You can add/edit additional advanced options for the selected volume by select **Advanced** on the Adding Volume dialog box. Click **OK**.
- Click Add App to select an application and associated volumes. Click **OK**.

Any instances you intend to protect and recover with the QR Agent must be configured in the QR Agent properties Authentication tab. They will not appear in the Add App dialog box if they are not configured. Only volumes containing datafiles and archive log files will be detected by Add App. Volumes containing control files and redo log files will not be detected.

For a clustered Exchange Server, if you are *not* using VSS to perform an online quiesce, sufficient permissions are required in order to be able to perform an offline quiesce; in such cases, ensure that the **User Name** specified has Exchange Administrator rights.

See also Configure Subclients for Overlapping Content.

3. Click **OK** to save your content configuration.

NOTES

- Content examples for NetWare are **OU=prospects.O=engineering.[Root]**, (for NDS content), and **SYS:\public** (for File System content).
- Content examples for adding an NFS-mounted file system to subclient content of a Unix File System iDataAgent:
 - `/mountpointA` to include the entire file system at mountpointA
 - `/mountpointA/projects` for only the `projects` directory within the file system at mountpointA.
- Informix subclients include one or more dbspaces. As databases are added to the dbspaces, the subclients are updated automatically.
- Exchange Mailbox iDataAgents and Exchange Mailbox/Public Folder Archiver Agents: Initially, all unconfigured mailboxes are assigned to the default subclient. You can create a new subclient and reassign mailboxes to this new subclient (within the same backup set/archive set). Once assigned, the mailboxes become part of the content of the new subclient.
- SharePoint Server iDataAgent: Initially, all unconfigured data types are assigned to the default subclient. You can create a new subclient and reassign data types to this new subclient. Once assigned, they become part of the content of the new subclient.
- ProxyHost iDataAgent: The primary host data path is backed up by the subclient and is the path through which the backup host accesses this data on the BCV. A primary host path and its corresponding backup host path are listed in the following format:

<primary_host_path> --> <backup_host_path>

For example, assume that you want to back up the **D:\data** directory from your primary host and **D:** is mirrored by a BCV, which is mapped to the backup host as **F:**. Consequently, the path to this data on the backup host is **F:\data**. When you add this directory to a subclient, it is listed in the **Contents of subclient** pane as **D:\data --> F:\data**.

The primary host path in the **Content** field is used for browse and restore purposes. However, it is the data in the **Backup Host BCV Path** which is actually backed up. If these two paths do not accurately correspond, the path that appears when data is browsed for restore does not accurately reflect the data that will be restored. In the example given above, assume that **D:\data** is entered in the **Content** field, while **F:\data1** is accidentally entered in the **Backup Host BCV Path**. If you browse and select **D:\data** to be restored, it is actually **D:\data1** that is restored. (Remember, **F:\Data1** is the path on the backup host that corresponds to **D:\data1** on the primary host.)

CONFIGURE THE SUBCLIENT FOR DATA ENCRYPTION

Encryption settings made at the subclient level are for data protection and recovery operations run from the CommCell Console and are not related in any way to settings made at the instance level which is for third-party Command Line operations only.

See Data Encryption - Support for a list of supported products.

Before You Begin

- Encryption must be enabled at the client level prior to configuring any subclients residing on that client. See Configure the Client for Data Encryption.
- If you are attempting to configure for third-party Command Line operations, do not use this procedure. See Configure Third-party Command Line Operations for Encryption.

Required Capability: Capabilities and Permitted Actions

▶ To configure the subclient for data encryption:

1. From the CommCell Console, right-click the subclient and click **Properties**.
2. From the Subclient Properties (Encryption) tab, select an option based on the criteria described in the Encryption tab help.
3. Click **OK** to save your settings and close subclient properties.

CREATE A NEW SUBCLIENT

Before You Begin

- Review Subclients.
- Do not create a subclient while the parent node or any sibling subclient has a data protection or archive operation currently running on it.
- In cases where a new subclient is created with the same name as a deleted subclient, the system will append a Unix time stamp to the deleted subclient's name in data protection job history reports and views to distinguish the two subclients. For example, *subclientname_1104257351*.
- Informix iDataAgents: If you will be using the Informix ONBAR utility to create backup and restore scripts, you need not create subclients. Otherwise, if you will be using the CommCell Console to back up and restore Informix database objects (subsets/dbspaces), then you will need to create a subclient.
- ProxyHost iDataAgents: If you are using a BCV, you must prepare a batch file or a shell script file on the backup host containing commands to synchronize and split the BCV. The Resource Pack includes information on configurations for these batch files or shell scripts, as well as examples that apply to specific applications and hardware (e.g., Exchange databases in an EMC Symmetrix environment). See Resource Pack for more information on the Resource Pack.
The ProxyHost iDataAgent also requires that you set permissions for the batch/shell script file on the backup host.
- SQL Server Database iDataAgents: When running on Windows Server 2003 and VSS is enabled, the **New Subclient** command is not available.
- PostgreSQL iDataAgents: Once you configure the PostgreSQL instance, the system automatically generates the default backup sets and default subclients. However, you can use the CommCell Console to create user-defined subclients for dump backup sets to distribute some of the database content. You cannot create user-defined subclients for FS backup sets.

Required Capability: See Capabilities and Permitted Actions

▶ To create a new subclient:

1. From the CommCell Browser, right-click the node (agent/backup set/archive set/instance) for which you want to create a new subclient, click **All Tasks** (if applicable), and then simply click **New Subclient** for most agents.
 - For the SQL Server iDataAgent, expand **New Subclient** and click either **Database** to include individual databases or **File/File Group** to include database elements.
2. Click the General tab or General (Quick Recovery Agent) tab of the Subclient Properties dialog box and type the name (up to 32 characters) of the subclient that you want to create.
 - For supported agents identified in Support Information - Snapshot Engines, you can select a QSnap option to snap data and then perform a data protection operation on the data.
 - For Image Level on Unix and Image Level ProxyHost on Unix, use the **Incremental Support Using** field to configure either a CXBF subclient or a checksum subclient and to enable incremental support for either subclient type.
 - For QR Agents, you must also select a QR Policy from the **QR Policy** list.
 - For the Windows iDataAgents that support VSS, you can optionally Enable VSS on a Subclient.
3. Select other options from the General tab as appropriate for the agent.
4. Click the **Content** or **Databases** tab of the Subclient Properties dialog box and Configure Subclient Content as appropriate for your agent.
5. For all agents (except QR), click the Storage Device (Data Storage Policy) tab of the Subclient Properties dialog box, then select a data storage policy to associate with this subclient from the storage policy list.
 - For the DB2 and DB2 DPF iDataAgents, you can also change the number of data backup streams. For the DB2 DPF iDataAgent, the default stream threshold should be equal to the total number of database partitions for the subclient.
 - For SQL Server iDataAgents, you can also click the Storage Device (Log Storage Policy) tab of the Subclient Properties dialog box, then select a log storage policy to associate with this subclient from the storage policy list and select the number of backup streams for transaction log backup jobs.
 - For 1-Touch for Unix, it is strongly recommended that the storage policy that you select for the subclient configured for 1-Touch use a MediaAgent on a

different computer. If you do this, and if the system crashes, the media will not have to be exported to another MediaAgent in order to recover the system.

6. For Oracle and DB2 iDataAgents, click the Backup Arguments (Oracle) or Backup Arguments (DB2, DB2 DPF) tab of the Subclient Properties dialog box and Configure Backup Arguments as appropriate for your agent. Note that the backup arguments for Informix are located on the Content tab.
7. For Migration Archiver Agents, click the **Archiving Rules** or **Rules** tab of the Subclient Properties dialog box and configure archiving rules as appropriate for your agent. In order to perform rules-based migration archiving operations, the **Disable All Rules** checkbox must be cleared.

If the File Archiver for Windows supports Data Classification, several filter-like configuration fields are defined as archiving rules and are available from the Subclient Properties (Rules) tab. If you want to define content and archiving rules based on file attributes other than volumes, size, and modified time (i.e., if you want to customize your rules), click the Advanced tab and configure as appropriate. Also, stub management options can be configured from the Stub Rule tab. See Configure Archiving Rules - File Archiver Agents for step-by-step instructions.

8. For ProxyHost and Image Level ProxyHost iDataAgents, click the Pre/Post Process tab of the Subclient Properties dialog box. In the **PreScan** field, type the path to the batch file/shell script file that contains those commands that are to run before each backup of the subclient, or click **Browse** to locate and select this file. For ProxyHost and Image Level ProxyHost, the file must reside on the backup host or primary host.
9. Optionally (if supported for your agent) you can:
 - Add a Data Protection or Discovery Filter for a Subclient on the Filters tab.
 - Configure a Subclient for Pre/Post Processing of Data Protection/Archive Operations on the Pre/Post Process tab.
 - Enable Software Compression for a Subclient on the Software Compression tab of the **Storage Device** tab.
 - Configure the Subclient for Data Encryption on the Encryption tab.
 - Enable or Disable Operations for this subclient on the Activity Control tab.
 - Configure Mailbox Stores for Auto-Discovery on the Auto-discovery tab.
 - Configure the Subclient for 1-Touch on the 1-Touch Recovery tab.
 - View or change the user group security associations for this subclient from the Security tab.
 - Determine location from where archive logs will be backed up or deleted from the Log Destinations tab.

10. Click **OK** to save the subclient configuration. For QR Agents, this procedure is now complete. For all other agents, continue on to the next step.
11. The Backup Schedule dialog box advises you to schedule data protection operations for your new subclient. It is recommended you elect to set a schedule now. You can also associate this subclient with an All Agent Types schedule policy (which is automatically created by the system, or can be a user defined Data Protection schedule policy). If you have already associated a schedule policy at a previous level (Backup Set/Instance, Agent, Client, or Client Computer Group) the schedules defined in the Schedule Policy will be automatically applied to the new subclient. See Schedule Policy for more information.
 - If you want to associate this subclient with an All Agent Types schedule policy, click **Associate with Generic Schedule Policy**, and then select that schedule policy from the drop-down list box. Click **OK**.
 - If you want to associate this subclient with a specific schedule policy, click **Associate to schedule policy**, and then select the schedule policy from the drop-down list box. Click **OK**.
 - If you have selected to define a schedule for this subclient:
 - Click **Schedule**.
 - From the Backup/Archive Options dialog box, select the type of data protection operation that you want to schedule.
 - If you want to set Advanced Backup/Archive Options, click **Advanced**.
 - After selecting the data protection type and any advanced options, click **OK**. The **Schedule Details** dialog box appears.
 - From the Schedule Details tab, select the scheduling options that you want to apply, then click **OK**.
 - If you don't want to create a data protection schedule at this time, click **Do Not Schedule**, and then click **OK**.

This task is now complete.

CREATE A NEW SUBCLIENT POLICY

Before You Begin

- Ensure that no data protection operations are currently running on the backup sets that you will be associating with the new Subclient Policy.
- Ensure that there are no user-defined subclients in the backup sets that you will be associating with the new Subclient Policy.

Required Capability: See Capabilities and Permitted Actions

▶ To create a new Subclient Policy:

1. From the CommCell Browser, expand the Policies node then right-click the Subclient Policies node and click **New Subclient Policy**. The Create New Subclient Policy dialog box will display.
2. From the Create New Subclient Policy (General) tab of the Create New Subclient Policy dialog box, enter a name for your subclient policy in the **Name**

entry field, then select the appropriate file system type from the **iDataAgent** drop-down list. The display pane will show one or more subclient templates listed for your policy.

3. From the display pane of the Create New Subclient Policy (General) tab, assign a Storage Policy for each subclient template by clicking in the Storage Policy column and selecting one from the list.
4. If you wish to set up a Regular user-defined type of Subclient Policy Subclient, then click **Add**. The Create New Subclient dialog box will display that will allow you to enter the following information:
 - Create New Subclient (General) tab (required)
 - Enter a name for your user-defined subclient in the **Name** field.
 - Optionally, you can change the **Number of Data Readers** to a value other than 1 (which is the default), if applicable for your agent type.
 - Optionally, you can select the **Allow multiple data readers within a drive or mount point** checkbox to enable this feature.
 - Optionally, you can clear the **Backup System State** checkbox, which is selected by default and causes the Default Subclient to back up the system state with the file system. Clearing the checkbox causes the Default Subclient to back up only the file system and not the system state. You can then enable system state backup for a different client in the Backup Set.
 - Optionally, you can select the **Use VSS** checkbox to enable VSS backups for this subclient, if applicable for your agent type.
 - Optionally, you can select the **Use QSnap** checkbox to enable backups of locked and/or open files for this subclient using QSnap, when QSnap is installed on clients of the applicable agent type.
 - Create New Subclient (Content) tab (required)
 - Specify the contents for this subclient by either clicking **Browse** to browse for content, or by typing in a path in the **Enter New Content** field then clicking **Add**. Repeat this step to include additional objects in subclient content. If you are editing the content for a Default subclient, see the Notes section below for more information.
 - If you are typing in a UNC path as content, then you will be prompted to enter a user name and password for accessing that path.
 - Optionally, you can select the **Treat characters as regular expressions** checkbox so that any characters that are sometimes used as wildcard characters will be treated as wildcards not as literals. See Wildcards for a list of supported regular expressions for your agent.
 - Create New Subclient (Filters) tab (optional)
 - You can select one of the following values from the **Include Global Filters** list to enable or disable global filters to exclude data from backups on this subclient:
 - Do not use - Disables Global Filters for this subclient.
 - Always use - Enables Global Filters for this subclient.
 - Auto - Enables or disables Global Filters for this subclient depending on whether the **Use Global Filters on All Subclients** option is enabled or disabled on the **Control Panel (Global Filters)** dialog.
 - You can specify a file/folder/pattern that you want to exclude from backups by clicking the upper **Browse** button to browse for an object, or by clicking the upper **Add** button and then typing in the object you want to exclude.
 - You can specify an exception to your exclude filter by either clicking the lower **Browse** button and browsing for the object, or by clicking the lower **Add** button and then typing in the object you want to enter as an exception to the exclusions list.
 - Create New Subclient (Pre/Post Process) tab (optional)
 - You can type in or **Browse** for a batch file or shell script that want executed after each job phase.
 - You can also select the **Run Post Process** for all attempts checkbox(es) if desired for the appropriate job phase.
 - For Windows agents, you can click the **Change** button for the **Run As** field to specify Local System Account or other username and password that has authorization to run the specified processes.
 - Create New Subclient (Storage Device - Data Storage Policy) tab (required)
 - Select a **Storage Policy** that you want to use for this subclient from the drop-down list.
 - Create New Subclient (Storage Device - Data Transfer Option) tab (optional)
 - You can select the desired software compression setting to be used in case hardware compression is not available or not selected on the destination storage policy copy. Otherwise you can leave the default setting of `OFF` to specify no software compression.
 - You can change the number of **Network Agents** to a value other than 1 by typing in or selecting another value from the list.
 - You can enable the option to **Throttle Network Bandwidth** and adjust the throughput setting by selecting another value from the list.

Once you have entered all of your configuration for the Regular *user-defined* subclient type, click **OK** to save your changes.

5. If you wish to further define the configuration settings, or enter a different name for the Default Subclient, you can do so by selecting the desired subclient type in the display pane and then clicking **Edit**. Refer to Step 4 above for entering specific information on each of the subclient property tabs.

If you want to preserve the characteristic behavior of the Default subclient to back up all content on the client that is not assigned to other subclients within the backup set, then we recommend leaving the default setting on the Content tab (which is "\" or "/" depending on your file system type).

6. Click the Association tab of the Create New Subclient Policy dialog box.

- From the Association tab, expand the tree nodes and select the desired backup set checkbox(es) for file system clients that you want to be associated to this Subclient Policy.
- Click **OK** to save the new Subclient Policy, then press **F5** to refresh and update the CommCell Console.

DELETE A DATA PROTECTION FILTER FROM A SUBCLIENT

Before You Begin

- Review Filters.
- Do not change the data protection or discovery filter of a subclient that has a data protection operation in progress.
- File Archiver for Windows/Unix Agents: We recommend that you don't delete the following entries from the exclusion filter, as it could cause your file system to be inoperable. For Windows, these include: *.dll, *.bat, *.exe, *.cur, *.ico, *.lnk. For Unix, these include *.a, *.ksh, *.csh, *.sh, *.lib, *.so.

Required Capability: Capabilities and Permitted Actions

▶ To delete a data protection or discovery filter entry from a subclient:

- From the CommCell Browser, right-click the subclient whose data protection or discovery filter you want to delete, and then click **Properties** from the shortcut menu.
- Click the Filters tab of the Subclient Properties dialog box.
- To delete an entry from the Exclusions list, click the entry in the upper pane then click the upper **Delete** button. (Repeat this step for each entry that you want to delete.)
- To delete an entry from the Exceptions list (if applicable for your agent), click the entry in the lower pane then click the lower **Delete** button. (Repeat this step for each entry that you want to delete.)
- Click **OK** to save your changes.

NOTES

- Whenever you delete an entry from the exclusion filter, check if the exceptions list (i.e., lower pane) contains any entries that are children of the deleted data (if applicable for your agent). If so, you should delete them as described in Step 4 since they no longer need to be listed. The system automatically deletes any exceptions that are children of a deleted exclusion unless you used wildcard expressions in the exclusion path.
- When you change a data protection or discovery filter, the change is effective the next time the subclient is backed up/archived.
- Data will not be backed up in a differential backup for a subclient after a filter was removed.
- Since Incremental backups only back up data that has been modified since the last backup, previously filtered files whose filters are now removed, will not be backed up unless they have been modified since that last backup. To back up previously filtered files that have not been modified but whose filters have been removed since the last backup, you need to run a Full backup.
- Performing a full backup after changing filters or exceptions is recommended.

DELETE A USER-DEFINED SUBCLIENT

Related Topics:

- Command Line Interface - qdelete subclient
- Subclients

Required Capability: See Capabilities and Permitted Actions

▶ To delete a user-defined subclient:

- From the CommCell Browser, right-click the user-defined subclient that you want to delete, and then click **Delete** from the shortcut menu.
- A confirmation message is displayed, asking if you want to delete the subclient. Click **No** to cancel the deletion and retain the subclient, or click **Yes** to continue the deletion. If you click **Yes**:
 - the subclient, and any data that may have been protected/archived by the subclient are logically deleted, and you can no longer access the corresponding data for recovery/retrieve purposes. However, the data remains valid for the length of time specified by the associated retention period. Some agents allow you to browse data from a deleted subclient provided that the Browse Data Before date and time precedes the time that the user-defined subclient was deleted.
 - for agents that support a default subclient, once the user-defined subclient is deleted its contents are automatically reallocated to the default subclient the next time a data protection/archive/discovery operation is run on the default subclient to ensure data protection coverage.
 - the system deletes the selected subclient node and removes it from the CommCell Browser.
 - the system deletes any data protection/archive and recovery/retrieve job schedules that are associated with the subclient.

DISABLE GLOBAL FILTERS ON A SUBCLIENT

Before You Begin

- Review Global Filters.
- Do not disable the Global Filter for a subclient that has a data protection operation in progress.
- Performing a full backup after disabling the Global Filter on a subclient is recommended.
- When you disable the Global Filter on a subclient, the change is effective the next time a data protection operation is run on the subclient.

Required Capability: Capabilities and Permitted Actions

▶ To disable the Global Filter on a subclient:

1. From the CommCell Browser, right-click the subclient whose Global Filter you want to disable, and then click **Properties** from the shortcut menu.
2. Click the Filters tab of the Subclient Properties dialog box.
3. To disable Global Filters on this subclient, select one of the following values from the **Include Global Filters** list:
 - **OFF** - select this option to always disable Global Filters for this subclient.
 - **Use Cell Level Policy** - select this option to disable Global Filters for this subclient only when the **Use Global Filters on All Subclients** option is disabled on the **Control Panel (Global Filters)** dialog.
4. Click **OK** to save your changes.

ENABLE/DISABLE GLOBAL FILTERS ON A SUBCLIENT

Before You Begin

- Make sure that CommCell Level Global Filters are defined or CommNet Global Filters are enabled. See Setup Global Filters in CommNet or Setup Global Filters for a CommCell for step-by-step instructions.

Required Capability: Capabilities and Permitted Actions

▶ To enable/disable the Global Filter on a subclient:

1. From the CommCell Browser, right-click the subclient whose Global Filter you want to enable, and then click **Properties** from the shortcut menu.
2. Click the Filters tab of the Subclient Properties dialog box.
3. To enable/disable Global Filters on this subclient, select one of the following values from the **Include Global Filters** list:
 - **ON** - select this option to disable Global Filters for this subclient.
 - **OFF** - select this option to enable Global Filters for this subclient.
 - **Use Cell Level Policy** - select this option to enable or disable Global Filters for this subclient only when the **Use Global Filters on All Subclients** option is enabled on the **Control Panel (Global Filters)** dialog.
4. Click **OK** to save your changes.

ENABLE OR DISABLE OPERATIONS

Required Capability: See Capabilities and Permitted Actions

Level	Capability
CommCell	Administrative Management with CommCell level association
Client Computer Group	Administrative Management with Client Computer Group level association
Client	Agent Management with Client level association
Agent	Agent Management with Agent level association
Subclient	Agent Management with Subclient level association

▶ To enable or disable activity control at the CommCell, client computer group, client, agent, or subclient levels:

1. From the CommCell Browser, right-click the CommServe, client computer group, client computer, agent, or subclient, and then click **Properties** from the short-cut menu.
2. From the Activity Control tab of the associated Properties dialog box, select or clear option(s), as desired.
3. Click **OK**.



Disabled data management and/or data recovery operations are displayed with client and/or agent icon changes in the CommCell Browser. For a comprehensive list of all icons in the CommCell Console, see CommCell Console Icons.

ENABLE OR DISABLE SOFTWARE COMPRESSION FOR A SUBCLIENT

Before you Begin

- Do not enable/disable software compression for a subclient that is being backed up/archived.

Required Capability: Capabilities and Permitted Actions

▶ To enable software compression for a subclient:

1. From the CommCell Browser, right-click the subclient for which you wish to enable software compression and then click **Properties**.
2. Click the **Storage Device** tab and from the Data Storage Policy tab, select the storage policy from the **Storage Policy** list.
If applicable for the selected agent, click the Log Storage Policy tab and select a storage policy from the **Transaction Log Storage Policy** list.
3. Then click the Storage Device (Data Transfer Option) tab and choose the appropriate compression option for this subclient.
4. Click **OK** to save your changes.

This task is now complete.

REMOVE A PROCESS FROM PRE/POST PROCESSING OF DATA PROTECTION/ARCHIVE OPERATIONS

Before You Begin

- We recommend not removing a pre/post process for a subclient that is currently running a data protection or archive operation.
- Review the Overview and Agent-Specific Guidelines for your agent before removing pre/post processes for data protection/archive operations.

Required Capability: Capabilities and Permitted Actions

▶ To remove a process from Pre/Post processing of data protection/archive operations:

1. From the CommCell Browser, right-click the subclient for which you want to remove a pre/post process, and then click **Properties** from the shortcut menu.
 2. Click the Pre/Post Process tab of the Subclient Properties dialog box.
 3. Click the text inside the space that corresponds to one of the following phases for which you want a pre/post process removed, then press the **Delete** key:
 - PreScan
 - PreArchive
 - PreCopy
 - PreSnap
 - PostBackup
 - PostScan
 - PostArchive
 - PostCopy
 - PostSnap
 4. Repeat Step 3 for any additional processes that you want to remove.
 5. Click **OK**.
-

RENAME A SUBCLIENT

Before You Begin

- You can rename a subclient at any time. However, we recommend that you don't rename a subclient while a data protection or archive operation is running on that subclient.
- In cases where a subclient is renamed using the same name as a deleted subclient, the system will append a Unix time stamp to the deleted subclient's name in data protection job history reports and views to distinguish the two subclients. For example, `subclientname_1104257351`.

Required Capability: See Capabilities and Permitted Actions

▶ To rename a subclient:

1. From the CommCell Browser, right-click the subclient that you want to rename, and then click **Properties** from the shortcut menu.
2. From the Subclient Properties (General) tab, or the QR Agent Subclient Properties (General) tab, type the new name in the **Subclient Name** field, and

then click **OK**.

The CommCell Browser updates the subclient with its new name. The new name will also be reflected in any associated schedules and reports.

SET THE NETWORK BANDWIDTH AND NETWORK AGENTS FOR A DATA PROTECTION OPERATION

Before you Begin

- Do not modify the network bandwidth and network agents for a subclient or instance that is being backed up.

Required Capability: Capabilities and Permitted Actions

▶ To Set the Network Bandwidth and Network Agents for a Data Protection Operation:

- From the CommCell Browser, right-click a subclient and then click **Properties**.
For the DB2, DB2 DPF, Informix, Oracle, Oracle RAC, SAP, or Sybase iDataAgent, right-click an instance and then click **Properties**.
- Click the **Storage Device** Data Transfer Option tab.
For the QR Agent:
 - To control network bandwidth settings, use the Throttle Network Bandwidth section in the General tab of the Subclient Properties dialog box.
 - To control the number of network agents, you must create a `nQRNetworkAgents` registry key.
- Enter a number of **Network Agents** that must be used to perform data protection operations on the subclient/instance.
- Click the **Throttle Network Bandwidth (MB/HR)** option and then enter the throughput as needed. Note that throttling is done on a per Network Agent basis.
- Click **OK** to save the changes.

This task is now complete.

VIEW DATA PATHS ASSOCIATED WITH A SUBCLIENT

Required Capability: See Capabilities and Permitted Actions

▶ To view data paths:

- From the CommCell Browser, right-click the subclient whose data paths you want to view, then click **Properties** from the shortcut menu.
 - Click the Storage Device tab of the Subclient Properties dialog box.
 - From the **Data [or Logs] Storage Policy** tab, click **Show Data Paths** to view the data paths used by the subclient to access the storage media for data protection operations. Click **Close** to exit the Data Paths dialog box.
 - Click **OK** to exit the Subclient Properties Storage Device tab.
-

VIEW SUBCLIENT CONTENT

Required Capability: See Capabilities and Permitted Actions

▶ To view content of a subclient:

- From the CommCell Browser, right-click the subclient whose content you want to view, then click **Properties**.
 - From the Subclient Properties dialog box, click the **Content** tab (or **Databases** tab for Lotus Notes) to view the contents of the subclient.
 - Click **OK** to close the dialog box.
-

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Backup Job History

Topics | How To | Related Topics

Overview

Items That Were Backed Up

Items That Failed

Pruning Backup History Information

Supported Features

Content Indexing History Information

OVERVIEW

You can view the backup and restore history of *iDataAgents*, *BackupSets/Instances*, and subclients.

The **Backup Job History Filter** dialog box allows you view detailed, historical information about backup jobs. Once you have chosen your filter options, they are displayed in the **Backup Job History** window.

For information on Job Details displayed in the Job History, see [Viewing Job Information](#).

From this window, you can right-click a backup job to:

- Browse the data backed up by the backup set or instance from the **Backup Job History** window. This is provided as right-click option for each job. (This menu option, when selected, initiates the **Browse Options** dialog box preset with the values needed to browse the data.)
 - Browse the snapshots created during SnapProtect backup
 - View items that failed during the backup job
 - View details of the backup job
 - View files that were not indexed during a backup job that performed content indexing
 - View associated media
 - View events of the backup job
 - View a list of items that were backed up
 - View a list of items that were moved to media for a SnapProtect backup job
 - View the log files of the backup job.
 - View the RMAN log of an Oracle backup job.
 - View the BRTools log of a SAP for Oracle job. You can view the BRTools log for only those jobs that were initiated from the CommCell Console.
-

ITEMS THAT WERE BACKED UP

The **View backup file list** option allows you to view a list of the files that were backed up during a backup job, along with the data sizes of each backed up file. The **View backed up messages** option allows you to view a list of messages that were backed up by using, along with the alias name, display name, email address, sender name, and recipient of each message.

From these windows you can conduct searches based on a particular string, allowing to find particular files quickly and easily.



It is not recommended that this option is used to view a very large list of items that were backed up (such as lists that total over 100,000 items). It is suggested that the Browse option is used to find a list of backed up items in such cases.

See [View the Items That Were Protected During a Data Protection Operation](#) for step-by-step instructions.

ITEMS THAT FAILED

The items that failed for a data protection operation include individual files that may fail the job even though a particular job completed successfully. You can determine the degree of success for these jobs using this window.

Filters can be used in conjunction with the "Items That Failed" list on the data protection Job History Report to eliminate backup or archive failures by excluding items which consistently fail that are not integral to the operation of the system or applications. Some items fail because they are locked by the operating system or application and cannot be opened at the time of the data protection operation. This often occurs with certain system-related files and database

application files.

Also, keep in mind that you will need to run a full backup after adding failed files to the filter in order to remove them.



A listing of files and folders that failed is not available for the Quick Recovery Agent, or the Image Level and Image Level ProxyHost iDataAgents. These agents do not perform a file level backup/copy.

Certain application related files can never be backed up by the File System iDataAgent due to the nature of the data. For example, Microsoft SQL Server database files cannot be backed up by the File System iDataAgent. In this and other similar circumstances, consider entering files such as these as exclusions in the corresponding subclient filter.

See [View the Items That Failed For a Data Protection Operation](#) for step-by-step instructions.

PRUNING BACKUP HISTORY INFORMATION

You can prune backup history information based on the number of days established in the **Days to keep the backup job histories** option from the **Media Management Configuration (Service Configuration)** dialog box available in the **Control Panel**.



If you have installed the SQL Server iDataAgent, do not use the stored procedure **sp_delete_backuphistory**, **sp_delete_database_backuphistory** and **sp_delete_backup_and_restore_history** provided by Microsoft clean up backup history. By default backup history is automatically pruned from the CommServe database and the Microsoft SQL Server, as necessary.

SUPPORTED FEATURES

- NAS iDataAgents do not support the ability to view items that failed.
- The Image Level and Image Level ProxyHost iDataAgents do not support the ability to Browse the data of a selected backup job in Backup Job History.

CONTENT INDEXING HISTORY INFORMATION

Content Indexing history can also be viewed of iDataAgents, BackupSets/Instances, and subclients. The following information is displayed:

ITEMS THAT WERE SUCCESSFULLY CONTENT INDEXED

You can view the list of items that were successfully content indexed during a Content Indexing operation for a particular job. for step-by-step instructions, see [View the Items that Were Successfully Content Indexed](#).

CONTENT INDEXING FAILURES

Content Indexing failures allows you to look at the messages, files and documents that could not be indexed during a content indexing operation. Content Indexing looks at each file (of the supported data types) and indexes its contents allowing advanced searches of backed up/archived/migrated data.

Files that were not indexed, (perhaps because the file's content could not be read) are added to the Content Indexing Failures list, and are viewable from the [View Content Index \(Failed Items\)](#) option in the Job History window. For step-by-step instruction, see [View the Items that Failed to Content Index](#).

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View the Items that Were Not Indexed During Content Indexing

View the Items that Were Successfully Content Indexed

Resubmit a Backup Job

VIEW BACKUP JOB HISTORY

▶ To view backup history:

1. From the CommCell Browser, right-click the entity (client computer, iDataAgent, backup set or subclient) whose backup history you want to view, click **View**, and then click **View Backup History**.
2. From the Backup History filter window select the filter options, if any, that you want to apply, and then click OK. The system displays the Backup Job History window.
3. Click **OK**.

VIEW THE ITEMS THAT WERE PROTECTED DURING A DATA PROTECTION OPERATION



This option is available for File System-like agents.

Required Capability: none required

▶ To view the list of items that were protected during a data protection operation.

1. From the CommCell Browser, right-click the entity whose history of data protection operations you want to view, click **View**, and then click the necessary options to view a job history.
2. From the Job History Filter dialog box, select the filter options, if any, that you want to apply, and then click **OK**.
3. From the Job History window, right-click the operation whose list of protected items you want to view, and then select **View backup file list/View Backed Up Messages**. The **Backup file List** window displays a list of the backed up files/messages that were included in the backup job. You can use the **Search** option to find items in the window.
4. Click **File -> Exit**.
5. Click **Close** from the **Job History** window.

VIEW THE ITEMS THAT FAILED FOR A DATA PROTECTION OPERATION



A listing of files and folders that failed is not available for the Quick Recovery Agent, nor the Image Level and Image Level ProxyHost iDataAgents. These agents do not perform a file level backup/copy.

▶ To view the list of items that failed for a data protection operation:

1. From the CommCell Browser, right-click the entity whose history of data protection operations you want to view, click **View**, and then click to view a job history.
2. From the Job History Filter dialog box, select the filter options, if any, that you want to apply, and then click **OK**.
3. From the Job History window, right-click the operation whose list of failed items you want to view, and then select **View Failed Items**. The **Unsuccessful Backup Files** window (for DataArchiver Agents, **Items On Which Archive Failed**) displays those items that failed. If no items failed, a message to that effect is displayed.
4. Click **Close**.

VIEW JOB HISTORY DETAILS

Required Capability: See Capabilities and Permitted Actions

▶ To view the details of a job history:

1. From the CommCell Browser, right-click the entity (e.g., subclient, client computer, etc.) whose job history you want to view, click **View**, and then click job history.
2. From the Job History Filter dialog box, select the filter options that you want to apply and click **OK**.

3. From the Data Management Job History window, right-click the job whose job details you want to view, and then click **View Job Details**.
4. The Job Details dialog box appears, displaying detailed job history in General, Details, Phase Details and Attempts tabs for the selected job.
5. Click **OK**.



If viewing the details of a job with a pending or failed status, the **Reason for Job Delay** field will contain an Error Code, which, if clicked, will launch the customer support website displaying troubleshooting article(s) related to the specific issue.

VIEW THE MEDIA OR MOUNT PATHS OF A JOB HISTORY

▶ To view media or mount paths associated with a job history:

1. From the CommCell Browser, right-click the entity (e.g., subclient, client computer, etc.) whose job history you want to view, click **View**, and then select the appropriate history.
2. From the Job History window select the filter options, if any, that you want to apply, and then click **OK**.
3. From the job history window, right-click the backup whose media or mount paths you want to view, and then click **View Media**.
4. The Media Used By Job ID window displays a list of media or mount paths used by the operation.
5. Click **OK**.

VIEW THE EVENTS OF A JOB HISTORY

Required Capability: See Capabilities and Permitted Actions

▶ To view the events associated with a job:

1. From the CommCell Browser, right-click the entity (e.g., subclient, client computer, etc.) whose job history you want to view, click **View**, and then click **Job History**.
2. From the Job History Filter dialog box, select the filter options that you want to apply and click **OK**.
3. From the Data Management Job History window, right-click the job whose job details you want to view, and then click **View Events**.
4. The All Found Events window gets displayed. If no events were found for the backup, a message is displayed to that effect.
5. Click **Close**.

VIEW THE ITEMS THAT WERE MOVED TO MEDIA DURING SNAPPROTECT BACKUP



This option is available for the SnapProtect Backup.

▶ To view the list of items that were moved to tape during SnapProtect Backup.

1. From the CommCell Browser, right-click the entity whose history of data protection operations you want to view, click **View**, and then click the necessary options to view a job history.
2. From the Job History Filter dialog box, select the filter options, if any, that you want to apply, and then click **OK**.
3. From the Job History window, right-click the operation whose list of items moved to media you want to view, and then select **View Backup Copy file listing**. The **Backup file List** window displays a list of the backed up files that were included in the backup copy job. You can use the **Search** option to find items in the window.



- To view the files moved to media for a backup copy job, right-click the SnapProtect backup job corresponding to the Backup Copy job and select **View Backup Copy file listing**.
- View backup items will not display anything for a Backup Copy job.

4. Click **File -> Exit**.
5. Click **Close** from the **Job History** window.

VIEW THE LOG FILES OF A JOB HISTORY

Required Capability: See Capabilities and Permitted Actions

► To view the log files of a Job History:

1. From the CommCell Browser, right-click the entity whose job history you want to view, and then click to view a job history.
2. From the job history filter window select the filter options, if any, that you want to apply, and then click **OK**.
3. From the job history window, right-click the job whose log files you want to view, and then click **View Logs**.
4. The contents of the log file related to the selected job history are displayed in the **Log File for Job n** window.

VIEW THE ITEMS THAT WERE SUCCESSFULLY CONTENT INDEXED



This option is available for operations that performed content indexing.

► To view the list items that were not indexed during content indexing:

1. From the CommCell Browser, right-click the entity whose operations you want to view, click **View**, and then click the necessary options to view a job history.
2. From the Job History Filter dialog box, select the filter options, if any, that you want to apply, and then click **OK**.
3. From the Job History window, right-click the job for which you want to view the successfully content indexed items, select **View Content Index**, and click **Successful Items**.
4. Click **Close**.
5. Click **Close** from the **Job History** window.

VIEW THE ITEMS THAT FAILED TO CONTENT INDEX



This option is available for operations that performed content indexing.

► To view the list of items that failed to content index:

1. From the CommCell Browser, right-click the entity whose operations you want to view, click **View**, and then click the necessary options to view a job history.
2. From the Job History Filter dialog box, select the filter options, if any, that you want to apply, and then click **OK**.
3. From the Job History window, right-click the job for which you want to view the list of items failed to content index, select **View Content Index**, and click **Failed Items**.
4. Click **Close**.
5. Click **Close** from the **Job History** window.

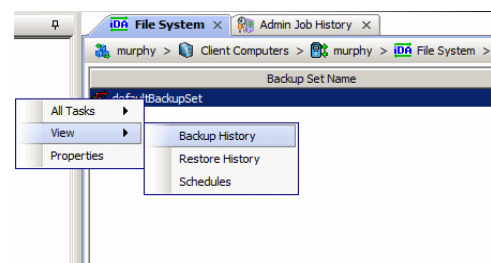
RESUBMIT A BACKUP JOB

► To resubmit a backup job:

1. From the CommCell Browser, right-click the subclient whose backup history you want to view, click **View**, and then click **View Backup History**.

Additionally, you can view the backup history for a client computer, iDataAgent, or backup set. However, the dialogs displayed may be different.

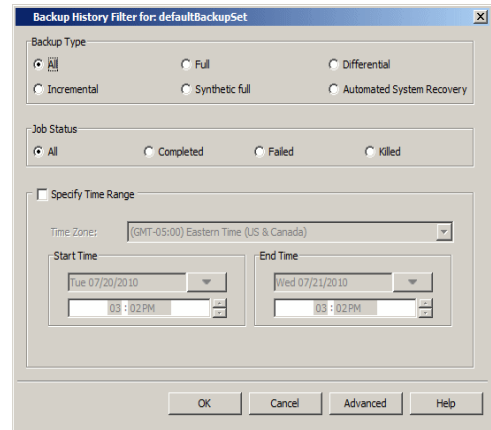
Note, if viewing the backup history for a client computer, right-click the computer name and select **Job History**.



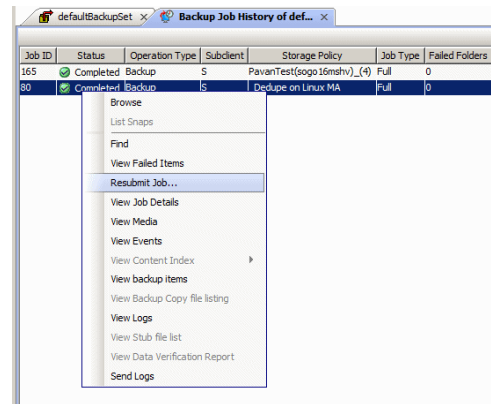
2. From the Backup History filter window select the filter options, if any, that you want to apply, and then click OK. The system displays the Backup Job History window.

Note: If viewing the job history for a client computer, ensure that the **Backup** radio button is selected.

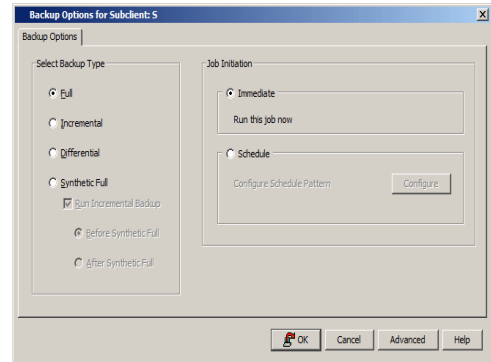
3. The Backup Job History window displays with the specified filter options.
4. Right-click on any job, and select **Resubmit Job**.



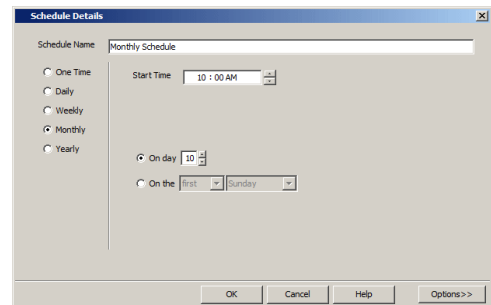
5. From the Backup Options dialog box, select the job options appropriate for the job you want to restart.



6. If you need to run the backup operation immediately, select **Immediate** from the **Job Initiation** tab. Go to step 11.
7. If you need to schedule the restore operation, select **Schedule** from the Job Initiation tab and click **Configure**.
8. From the **Schedule Details** dialog box that appears, select the appropriate scheduling options.
Click **Options** to view the Advanced Schedule Options dialog box.

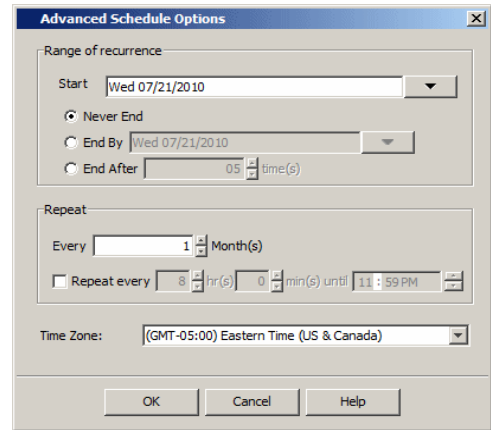


9. From the **Advanced Schedule Options** dialog box:
 - **Range of recurrence:** Specify the date on which you want this schedule to take effect.



- **Repeat:** Select the value for which you want to run the job repeatedly on the day in which the job is scheduled to run.
- **Time Zone:** Select a specific time zone from which the job schedule time will be based.

Click **OK** to close the **Advanced Schedule Options** dialog box.



10. Click **OK** to close the **Schedule Details** window.
11. Click **OK** to close the job restart window.

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Restore Job History

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OVERVIEW

The **Restore History Filter** dialog box allows you to view detailed, historical information about restore jobs.

For information on Job Details displayed in the Job History, see [Viewing Job Information](#).

Once you have chosen your filter options, they are displayed in the **Restore Job History** window. From this window you can right-click a restore job to:

- View Restore Items; items in the job that were **Successful**, **Failed**, **Skipped** or **All**. These items, if any, will be listed in the **Restored Files** window.
 - View Job Details of the restore job. The job details will be listed in the **Job Details** window.
 - View Events of the restore job. The job events will be listed in the **All Found Events** window.
 - View Log files of the restore job. The job log files will be listed in the **Log File** window.
 - View the RMAN Log of an Oracle restore job. The RMAN Log will be listed in the **Oracle Restore Log** window.
 - View the BRTools log of a SAP for Oracle restore job. You can view the BRTools log for only those jobs that were initiated from the CommCell Console.
-

ITEMS THAT ARE RESTORED

When viewing files that are restored in the **Restored Files** window, each of the files is listed with the restore status level appended at the end of the file path. The possible status levels are: `RESTORED`, `FAILED` and `OLDER`.

Successfully restored files will be listed with `RESTORED` appended to the file path. If files are not restored/recovered due to errors, the file paths will be appended with `FAILED`. Under some circumstances, the system may not restore/recover certain files because they are older versions of the same files already present in the files system; these files are appended with the word `OLDER`.

SUPPORTED FEATURES

Consider the following.

- NAS iDataAgents do not support the ability to view failed/successful item lists.
 - Restore Job History will not display Oracle `rman_util` jobs at the instance level.
-

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[View the Events of a Job History](#)

[View the Media of a Job History](#)

[View the Log Files of a Job History](#)

VIEW RESTORE JOB HISTORY

▶ To view the restored items associated with a job:

1. From the CommCell Browser, right-click the entity (e.g., subclient, client computer, etc.) whose job restore history you want to view, click **View**, and then click **Restore History**.

2. From the Job History filter window, select the filter options, if any, that you want to apply, and then click **OK**.
 3. From the Job History window, right-click the job whose restored items you want to view; click **View Restore Items**, and select from the type of items to view: **Successful**, **Failed**, **Skipped** or **All**.
 4. The **Restored Files** window will display the selected type of restored items for the job.
 5. Click **OK**.
-

VIEW THE EVENTS OF A JOB HISTORY

Required Capability: See Capabilities and Permitted Actions

▶ To view the events associated with a job:

1. From the CommCell Browser, right-click the entity (e.g., subclient, client computer, etc.) whose job history you want to view, click **View**, and then click **Job History**.
 2. From the Job History Filter dialog box, select the filter options that you want to apply and click **OK**.
 3. From the Data Management Job History window, right-click the job whose job details you want to view, and then click **View Events**.
 4. The All Found Events window gets displayed. If no events were found for the backup, a message is displayed to that effect.
 5. Click **Close**.
-

VIEW THE MEDIA OR MOUNT PATHS OF A JOB HISTORY

▶ To view media or mount paths associated with a job history:

1. From the CommCell Browser, right-click the entity (e.g., subclient, client computer, etc.) whose job history you want to view, click **View**, and then select the appropriate history.
 2. From the Job History window select the filter options, if any, that you want to apply, and then click **OK**.
 3. From the job history window, right-click the backup whose media or mount paths you want to view, and then click **View Media**.
 4. The Media Used By Job ID window displays a list of media or mount paths used by the operation.
 5. Click **OK**.
-

VIEW THE LOG FILES OF A JOB HISTORY

Required Capability: See Capabilities and Permitted Actions

▶ To view the log files of a Job History:

1. From the CommCell Browser, right-click the entity whose job history you want to view, and then click to view a job history.
 2. From the job history filter window select the filter options, if any, that you want to apply, and then click **OK**.
 3. From the job history window, right-click the job whose log files you want to view, and then click **View Logs**.
 4. The contents of the log file related to the selected job history are displayed in the **Log File for Job n** window.
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