Quick Start Guide - Oracle *i*DataAgent

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Overview - Oracle iDataAgent

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Introduction

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INTRODUCTION

The Oracle *i*DataAgent provides an unique, simplified end-to-end backup and recovery solution for Oracle data in your enterprise. In addition to complete protection of the entire Oracle database, it provides more granular backup and recovery of specific data files and logs. The product can be used to perform both full system rebuilds and granular recovery of the data.

KEY FEATURES

FULL RANGE OF BACKUP AND RECOVERY OPTIONS

The Oracle *i*DataAgent provides the flexibility to backup the Oracle database in different environments. This is very essential since the Oracle database is always subject to constant changes.

You can perform a full or incremental backup of the entire database or individual datafiles/ tablespaces, or archive logs at any point of time. The following section describes the backups that can be performed in different environments.

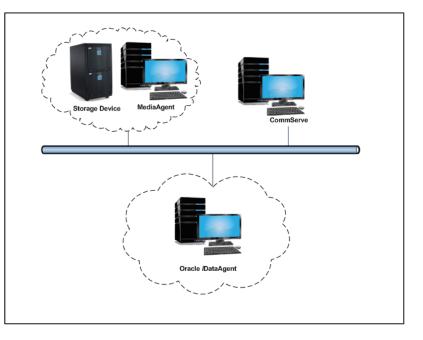
OFFLINE BACKUP

When the database is shutdown and not available for use, you can perform a full backup of the database without the logs. This is especially used when the data is consistent and there are no transactions in the database.

ONLINE BACKUP

In cases, when you cannot bring down the database to perform an offline backup, you can use the online backup method. Here, you can perform full or incremental backups when the database is online and in ARCHIVELOG mode. This is very useful when you want to perform a point-in-time restore of the database.

You also have the facility the backup only the archive logs when the database is online. These logs can be applied to an online backup to recover the database to the current point-in-time.



You can also protect the non-database files and profiles using the appropriate File System iDataAgent.

SELECTIVE ONLINE FULL BACKUP

This *i*DataAgent allows you to backup and store copies of valid data from a source copy of a specific storage policy to all or one active secondary copy within a storage policy providing for a better tape rotation. An online full backup job is copied to a selective copy, if the full backup job cycle completes successfully thereby allowing you to select, store and protect your valuable data on a secondary copy for future restores in a more viable and economic mode.

BACKUP AND RECOVERY FAILOVERS

In the event that a MediaAgent used for the backup or recovery operation fails, it is automatically resumed on alternate MediaAgents. In such cases, the backup or restore job will not restart from the beginning, but will resume from the point of failure. This is especially useful for backups and restores of large amount of file system data.

WHERE TO GO NEXT

Install the Oracle *i***DataAgent** Walks you through the process of installing the Oracle *i*DataAgent. In the event, that a network goes down, the backup and recovery jobs are resumed on alternate data paths. Similarly, in the event of a device failure, the jobs are automatically switched to alternate disk and tape drives.

EFFICIENT JOB MANAGEMENT AND REPORTING

You can view and verify the status of backup and recovery operations from the Job Controller and Event Viewer windows within the CommCell Console. You can also track the status of the jobs using Reports, which can be saved and easily distributed. Reports can be generated for different aspects of data management. You also have the flexibility to customize the reports to display only the required data and save them to any specified location in different formats. For example, you can create a backup job summary report to view at-a-glance the completed backup jobs.

In addition, you can also schedule these reports to be generated and send them on email without user intervention.

BLOCK LEVEL DEDUPLICATION

Deduplication provides a smarter way of storing data by identifying and eliminating the duplicate items in a data protection operation.

Deduplication at the data block level compares blocks of data against each other. If an object (file, database, etc.) contains blocks of data that are identical to each other, then block level deduplication eliminates storing the redundant data and reduces the size of the object in storage. This way dramatically reduces the backup data copies on both the disk and tapes.

ADD-ON COMPONENTS

SNAPPROTECT BACKUP

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

TERMINOLOGY

The Oracle *i*DataAgent documentation uses the following terminology:

CLIENT	The computer in which the <i>i</i> DataAgent is installed and contains the data to be secured.
INSTANCE	The Oracle database to be used for the backup and restore operations.
SUBCLIENT	The Oracle data to be backed up.

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New Features - Oracle iDataAgent

NEW FEATURES FOR ORACLE /DATAAGENT

SUPPORT FOR BACK UP AND RESTORE OF ORACLE 12C, INCLUDING CONTAINER AND PLUGGABLE DATABASES

Oracle 12c is now supported, including backing up and restoring container databases (CDB) and pluggable databases (PDB).

DATA PROTECTION OPERATIONS

- For Oracle and Oracle RAC iDataAgents, you can now assign tags to a specific backup operation in order to facilitate restore based on the assigned tag. For more information, Learn more...
- Oracle RMAN scripts for backup and restore operations can now be viewed and edited from the CommCell Console. Learn more...
- For archive log backups, you now have the facility to disable the log switch of current log files.

Learn more ...

- Oracle instances can now be automatically or manually discovered for backups. Learn more....
- Multiple copies of data or log backups are now supported from the CommCell Console.

Learn more...

DATA RECOVERY OPERATIONS

- You can now restore the control file and SP file from a specific backup piece from the CommCell Console. Learn more...
- Oracle archive log files can be restored based on tags from the CommCell Console. Learn more...
- Oracle RMAN scripts for backup and restore operations can now be viewed and edited from the CommCell Console. Learn more...
- When performing table level restore, you now have the facility to select the dependent and referenced tables of the selected tables for the restore operation. You can also choose to include triggers, constraints, indexes, grants, stored procedures, or other external parameters (such as COMPRESSION or PARALLEL) on the selected tables for the restore operation. Learn more...
- You can resubmit Oracle restore jobs from the Job History window without the need to reconfigure the job with the same options. If required, you can also modify the existing configuration and resubmit the job. Learn more...
- During Oracle restore operations, the restore and recover processes are run as separate RMAN run blocks and hence when resumed, the job is restarted from the last failed RMAN run block. Learn more...

SNAPPROTECT

ADDITIONAL SNAPPROTECT SUPPORT FOR THE ORACLE IDATAAGENT

- SnapProtect can now be utilized to perform ASM (Automatic Storage Management) and RMAN backups.
- In addition, SnapProtect now supports RMAN based Movement to Tape allowing you to use Recovery Manager (RMAN) for the movement to media operation.
- Table Level restores of SnapProtect data is now supported.

Learn more...

ADDITIONAL SNAP ENGINE SUPPORT FOR SNAPPROTECT

The following Snapshot Engines are now supported for SnapProtect:

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

SNAP TEST TOOL

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

MULTI-STREAMING FOR SNAPPROTECT

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

VOLUME MANAGER SUPPORT

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

ADDITIONAL SNAPPROTECT SUPPORT FOR UNIX

SnapProtect support on Unix has been extended to include the following platforms, file system, and volume manager types:

- HP-UX
- Sun Volume Manager
- Solaris Local Zones
- Zettabyte File System (ZFS)

COMMAND LINE INTERFACE

Oracle third party command line operations can now be executed from the Oracle Enterprise Manager application.

NEW COMMCELL FEATURES SUPPORTED FOR ORACLE IDATAAGENT

DEPLOYMENT

CUSTOM PACKAGE

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

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

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

INSTALL FROM THE COMMCELL CONSOLE

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

UNINSTALL FROM THE COMMCELL CONSOLE

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

SCHEDULE POLICY

A data protection schedule policy can now be created for this specific agent. For more information, see Agent-Specific Data Protection Schedule Policy.

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System Requirements - Oracle iDataAgent

System Requirements Supported Features

The following requirements are for the Oracle *i*DataAgent:

APPLICATION/OPERATING SYSTEM

PROCESSOR

LINUX	ORACLE LINUX	
	Oracle Linux 6.x with glibc 2.12.x	x64
	Oracle Linux 5.x with glibc 2.5.x	x64
	RED HAT ENTERPRISE LINUX/CENTOS	
	Red Hat Enterprise Linux/CentOS 6.x with glibc 2.12.x	x64, Power PC or compatible processors
	Red Hat Enterprise Linux/CentOS 5.x with glibc 2.5.x	x64, Power PC or compatible processors
OLARIS	Solaris 11.x	x64, Sparc5 (or higher recommended)
	Solaris 10.x	x64, Sparc5 (or higher recommended)
VINDOWS	WINDOWS 2008	
	Microsoft Windows Server 2008 Editions with a minimum of Service Pack 1* *Core Editions not supported	
DRACLE 1	0G/11G (R1, R2 OR HIGHER) DATABASES (ENTERPRISE C	DR STANDARD EDITION) ON:
лх	AIX 7.1	Power PC (Includes IBM System p)
	AIX 6.1	Power PC (Includes IBM System p)
	AIX 5.3	Power PC (Includes IBM System p)
IP-UX	HP-UX 11i v3 (11.31)	Itanium
	HP-UX 11i v3 (11.31)	PA-RISC
	HP-UX 11i v2 (11.23)	PA-RISC
	HP-UX 11i v2 (11.23)	Itanium
INUX	ORACLE LINUX	
	Oracle Linux 6.x with glibc 2.12.x	Intel Pentium, x64 or compatible processors
	Oracle Linux 5.x with glibc 2.5.x	Intel Pentium, x64 or compatible processors
	Oracle Linux 4.x with a minimum of glibc 2.3.4	Intel Pentium, x64 or compatible processors
	RED FLAG LINUX	
	Red Flag Linux 4.x with a minimum of glibc 2.3.4	Intel Pentium or compatible processors
	RED HAT ENTERPRISE LINUX/CENTOS	
	Red Hat Enterprise Linux/CentOS 6.x with glibc 2.12.x	Intel Pentium, Itanium, x64, Power PC (Includes IBM Syste p) or compatible processors
	Red Hat Enterprise Linux/CentOS 5.x with glibc 2.5.x	Intel Pentium, Itanium, x64, Power PC (Includes IBM Syste p) or compatible processors
	Red Hat Enterprise Linux/CentOS 4.x with a minimum of glibc 2.3.4	Intel Pentium, Itanium, x64, Power PC (Includes IBM Syste p) or compatible processors
	SUSE LINUX (SLES)	

SuSE Linux 11.x with glibc 2.9.x and above

Intel Pentium, Itanium, x64, Power PC (Includes IBM System

		p) or compatible processors
	SuSE Linux 10.x with glibc 2.4.x	Intel Pentium, Itanium, x64, Power PC (Includes IBM System p) or compatible processors
Z-LINUX	RED HAT ENTERPRISE LINUX	
	Red Hat Enterprise Linux 6.x	s390x 64-bit
	Red Hat Enterprise Linux 5.x	s390x 64-bit
	Red Hat Enterprise Linux 4.x	s390x 64-bit
	SUSE LINUX (SLES)	
	SuSE Linux 11.x Enterprise Server	s390x 64-bit
	SuSE Linux 10.x Enterprise Server	s390x 64-bit
SOLARIS	Solaris 11.x	x64, Sparc5 (or higher recommended)
	Solaris 10.x	x64, Sparc5 (or higher recommended)
WINDOWS	WINDOWS 2008	
	Microsoft Windows Server 2008 Editions with a minimum of Service Pack 1* *Core Editions not supported	All Windows-compatible processors supported
	Microsoft Windows Server 2008 Editions with a minimum of Service Pack 1*	
	*Core Editions not supported	
	WINDOWS 2003	
	Microsoft Windows Server 2003 Editions with a minimum of Service Pack 1	All Windows-compatible processors supported

CLUSTER - SUPPORT

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

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

HARD DRIVE

1 GB of minimum disk space is required for installing the software.
 256 MB of free disk space is required for job result directory.
 256 MB of free disk space is required for log directory.

MEMORY

WINDOWS

32 MB RAM per stream/drive minimum required beyond the requirements of the operating system and running applications

AIX, HP-UX, LINUX, SOLARIS AND TRU64

64 MB RAM per stream/drive minimum required beyond the requirements of the operating system and running applications

Swap space = 2*RAM size

EXPRESS DATABASE EDITION SUPPORT

Express Editions of Oracle 10g/11g (R2) Databases are supported on all operating systems supported by the Oracle application server.

ORACLE EXADATA DATABASE MACHINE SUPPORT

Oracle Exadata Database Machine is supported on the following Oracle Database versions:

- Oracle 11g (11.1.0.7)
- Oracle 11g R2 (11.2.0.1 or higher)

SOLARIS ZONES/CONTAINERS SUPPORT

Data Protection of data residing on global and non-global zones is supported.

For a comprehensive list of supported components, see Unix Virtualization.

AIX LPAR/WPAR SUPPORT

Data protection on Logical Partitioning (LPAR) and Workload Partitioning (WPAR) is supported.

PERIPHERALS

DVD-ROM drive

Network Interface Card

MISCELLANEOUS

The File System *i*DataAgent will be automatically installed during installation of this software, if it is not already installed. For System Requirements and install information specific to the File System *i*DataAgents, refer to:

- System Requirements Microsoft Windows File System iDataAgent
- System Requirements AIX File System *i*DataAgent
- System Requirements HP-UX File System iDataAgent
- System Requirements Linux File System iDataAgent
- System Requirements Solaris File System iDataAgent
- System Requirements Tru64 File System iDataAgent

The operating system must have been installed with at least the user level software option selected.

NETWORK

TCP/IP Services configured on the computer.

SELINUX

If you have SELinux enabled on the client computer, create the SELinux policy module as a root user before performing a backup. The SELinux Development package must be installed on the client.

To create an SELinux policy module, perform the following steps as user "root":

1. Create the following files in the /usr/share/selinux/devel directory:

File Name	Content of the File		
<directory>/<file_name>.te</file_name></directory>	The content of the file should be as follows:		
where:	policy_module(<name>,<version>)</version></name>		
<directory> is /usr/share/selinux/devel</directory>	#######################################		
stille_names is the nume of the onix me, created to save the	where:		
policy module statement. It is a good idea to use the same name for policy module and the file.	<name> is the name of the policy module. You can give any unique name to the policy module, such as a process or application name.</name>		
For example: When you are creating a policy module for backup IDA application, you can use the following file name:	<pre><version> is the version of the policy module. It can be any number, such as 1.0.0.</version></pre>		
backup_IDA.te	For Example: While creating a policy module for the backup_IDA application, you can use the following content.		
	policy_module(backup_IDA,1.0.0)		
<directory>/<file_name>.fc</file_name></directory>	The content of the file should be as follows:		
where:	Note that the following list of files is not exhaustive. If the process fails to launch, check /var/log/messages. Also, if required, add it to the following list of files.		
<pre><directory> is /usr/share/selinux/devel <file_name> is the name of the Unix file, created to save the policy module statement. It is a good idea to use the same name for policy module and the file.</file_name></directory></pre>	<pre>/opt/<software directory="" installation="">/Base/libCTreeWrapper.so gen_context (system_u:object_r:texrel_shlib_t,s0)</software></pre>		
	<pre>/opt/<software directory="" installation="">/Base/libCVMAGuiImplgso gen_context (system_u:object_r:texrel_shlib_t,s0)</software></pre>		
For example: When you are creating a policy module for backup_IDA application, you can use the following file name: backup IDA.fc	/opt/ <software directory="" installation="">/Base/libdb2locale.so.1 gen_context (system_u:object_r:texrel_shlib_t,s0)</software>		
	<pre>/opt/<software directory="" installation="">/Base/libdb2osse.so.1 gen_context (system_u:object_r:texrel_shlib_t,s0)</software></pre>		
	/opt/ <software directory="" installation="">/Base/libDb2Sbt.so gen_context (system_u:object_r:texrel_shlib_t,s0)</software>		

/opt/<software installation directory>/Base/libdb2trcapi.so.1 -- gen_context (system_u:object_r:texrel_shlib_t,s0) /opt/<software installation directory>/Base/libDrDatabase.so -- gen_context (system_u:object_r:texrel_shlib_t,s0) /opt/<software installation directory>/Base/libIndexing.so -- gen_context (system_u:object_r:texrel_shlib_t,s0) /opt/<software installation directory>/Base/libSnooper.so -- gen_context (system_u:object_r:texrel_shlib_t,s0)

2. Create the policy file from command line. Use the following command. Ensure that you give the following commands in the /usr/share/selinux/devel directory.

[root]# make backup_IDA.pp Compiling targeted backup_IDA module /usr/bin/checkmodule: loading policy configuration from tmp/backup_IDA.tmp /usr/bin/checkmodule: policy configuration loaded /usr/bin/checkmodule: writing binary representation (version 6) to tmp/backup_IDA.mod Creating targeted backup_IDA.pp policy package rm tmp/backup_IDA.mod tmp/backup_IDA.mod.fc [root]# semodule -i backup_IDA.pp [root]#

3. Execute the policy module. Use the following command:

[root]# restorecon -R /opt/<software installation directory>

SELinux is now configured to work with this application.

DISCLAIMER

Minor revisions and/or service packs that are released by application and operating system vendors are supported by our software but may not be individually listed in our System Requirements. We will provide information on any known caveat for the revisions and/or service packs. In some cases, these revisions and/or service packs affect the working of our software. Changes to the behavior of our software resulting from an application or operating system revision/service pack may be beyond our control. The older releases of our software may not support the platforms supported in the current release. However, we will make every effort to correct the behavior in the current or future releases when necessary. Please contact your Software Provider for any problem with a specific application or operating system.

Additional considerations regarding minimum requirements and End of Life policies from application and operating system vendors are also applicable

Supported Features - Oracle iDataAgent

System Requirements Supported Features

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

FEATURE	SUB-FEATURE	SUPPORT	Comments
ADVANCED BACKUP/ARCHIVE OPTIONS	Data tab - Catalog	~	
ADVANCED BACKOF/ARCHIVE OF HONS	Data tab - Create New Index		
	Data tab - Verify Synthetic Full		
	Job Retry tab	~	
	Media tab - Allow other Schedule to use Media Set		
	Media tab - Mark Media Full on Success	~	
	Media tab - Reserve Resources Before Scan		
	Media tab - Start New Media	~	
	Startup tab	~	
	VaultTracking tab	~	
	Comments	~	Includes several additional options in the Backup Archive Logs, Delete Archive Logs, Custom RMAN Script, and Oracle Options tabs.
ADVANCED FILE SYSTEM IDATAAGENT OPTIONS	Automatic File System Multi- Streaming		
	On Demand Data Protection Operation	~	
	Restore by Jobs		
	Restore Data Using a Map File		
	Comments	~	For On Demand Data Protection Operations , see On Demand Instances.
ALERTS AND MONITORING	Global Alerts	~	
	Job-Based Alerts*	>	
	Comments		
AUTOMATIC UPDATES	Automatic Updates	~	
	Comments		
BACKUP/ARCHIVE OPTIONS	Differential Backup		
·	Full Backup	~	
	Incremental Backup	>	
	Other Backup Types		
	Synthetic Full Backup		
	Comments	~	
BACKWARD COMPATIBILITY	Version 7 Version 8	•	
	Version 9		
	Comments		
BROWSE	Browse from Copy Precedence	~	
	Browse the Latest Data	>	
	Exclude Data Before Find		
	Full Backup Transparent Browse		
	Image Browse	~	
	No Image Browse	>	
	Page Size	>	
	Specify Browse Path	~	
	Specify Browse Time	~	
	Subclient Browse Use MediaAgent		
	View All Versions	-	

	Comments	~	Additionally, Browse Database Tables is supported.
CLUSTERING	Netware cluster		
	Unix Cluster	✓	
	Windows - Microsoft Cluster	✓	
	(MSCS)		
	Windows - Non-Microsoft Cluster		
	Comments		
COMMAND LINE INTERFACE	Command Line Interface	~	
	Comments	~	
COMMAND LINE INTERFACE - SPECIFIC COMMANDS	Qcreate - Backup set/SubClient	•	
	Qcreate - Instance	✓	
	Qdelete - Backup set/Subclient	✓	
	Qdelete - Client/Agent	✓	
	Qlist globalfilter		
	Qmodify - instance	✓	
	Qoperation - Backup	~	
	Opperation - move	~	
	Qoperation - Restore		
	Comments	-	b>Qcreate backupset and Qdelete backupset are a
			supported.
COMMCELL MIGRATION	CommCell Migration	~	
	Comments	~	CommCell Migration is not supported with SnapProte backup when using Data Replicator snapshot engine
CONTENT INDEXING	Offline Content Indexing		
CONTENT INDEXING	Comments		
	Basic Retention Rules	~	
DATA AGING	basic Retention Rules		
	Extended Retention Rules	~	
	Unique Data Aging Rules	~	
	Comments	✓	Extended Retention Rules are supported for
			offline/selective online fulls.
DATA CLASSIFICATION ENABLER	Data Classification Enabler		
DATA CLASSIFICATION ENABLER	Comments		
	Client Compression	~	
DATA COMPRESSION	chefte compression	-	
	Hardware Compression	 Image: A start of the start of	
	MediaAgent Compression	 Image: A set of the set of the	
	Comments		
	Data Encryption Support	~	
DATA ENCRYPTION			
	Third-party Command Line	✓	
	Encryption Support		
	Comments		
DATA MULTIPLEXING	Multiplexing	~	
	Comments		
	MediaAgent Deduplication	~	
DEDUPLICATION			
	Source Deduplication	✓	
	Comments		
ERASE BACKUP/ARCHIVED DATA	Erase Data by Browsing		
	Erase Stubs		
	Comments		
	Global Filters		
GLOBAL FILTERS			
	Comments		
INSTALLATION	Custom Package	~	
	Decoupled Install	~	
	Remote Install		
	Restore Only Agents		
	Silent Install		
	Comments	•	Decoupled Install is supported on Unix; not supported on Windows.

	1 1		1
			To install this agent as restore only, see Restoring Oracle, SAP for Oracle, SAP for MaxDB as Restore Onl
INSTALLING 32-BIT COMPONENTS ON A MICROSOFT WINDOWS X64 PLATFORM	Install 32-bit On x64		
MICROSOFT WINDOWS X04 PLATFORM	Comments		
	Not Restartable		
OB RESTART - DATA PROTECTION			
	Restarts from the Beginning Restarts from the Beginning of the		
	Database		
	Restarts from the Point-of-Failure	✓	
	Comments	~	Third-party command line operations and selective online full backup jobs are Not Restartable . Offline backup jobs Restart from the Beginning .
	Not Restartable		onine backap jobs Restart nom the beginning .
OB RESTART - DATA RECOVERY			
	Restarts from the Beginning Restarts from the Beginning of the		
	Database		
	Restarts from the Point-of-Failure	✓	
	Comments	~	Third-party command line operations are Not Restartable .
IST MEDIA	List Media Associated with a Specific Backup Set or Instance	~	
	List Media Associated with Index		
	List Media Associated with Specific		
	Files and/or Folders		
	List Media Associated with Specific Jobs		
	Comments	~	
IULTI INSTANCING	Multi Instance	•	
	Comments	\checkmark	Supported on Unix; not supported on Windows.
			Multi Instancing is not supported for SnapProtect Backup.
PRE/POST PROCESSES	Pre/Post Process with Data Protection and Recovery	v	
	Comments		
RESTORE/RECOVER/RETRIEVE DESTINATIONS	Cross-Application Restores (Different Application version)		
	Cross-Platform Restores - Different Operating System		
	Cross-Platform Restores - Same Operating System - Different Version	~	
	In-place Restore - Same path/	✓	
	destination - Same Client Out-of-place Restore - Different path/ destination	✓	
	Out-of-place Restore - Same path/	~	
	destination - Different Client		
	Restore Data Using a Map File		
	Restore to Network Drive /NFS- Mounted File System		
	Comments	~	See Advanced Restore - Oracle iDataAgent for this iDataAgent.
RESTORE/RECOVER/RETRIEVE OPTIONS	Automatic Detection of Regular Expressions		
	Filter Data From Recover Operations		
	Rename/ Redirect Files on Restore	~	
	Restore Data Using Wildcard Expressions		
	Restore Data with Pre/Post Processes	~	
	Restore from Copies	~	
	Skip Errors and Continue		
	Use Exact Index		
	Use MediaAgent	\checkmark	
	Comments		

RESTORE/RECOVER/RETRIEVE OVERWRITE OPTIONS	Overwrite Files		
	Overwrite if file on media is newer		
	Restore only if target exists		
	Unconditional Overwrite		
	Unconditionally overwrite only if		
	target is a DataArchiver stub		
	Comments		
SCHEDULE POLICY	Agent Specific Data Protection Schedule Policy	~	
	All Agent Types Schedule Policy	~	
	Comments		
STORAGE POLICIES	Incremental Storage Policy*	~	
	Standard Storage Policies	\checkmark	
	Comments	~	Incremental Storage Policy does not support Transaction Log backups for this agent.
STORAGE POLICY COPIES	Data Verification	~	
	Job Based Pruning	~	
	Manual Retention	~	
	Mark Job Disabled	~	
	Selective Copy	~	
	Comments	~	Selective Copy is supported for Selective Online and Offline Fulls.
SUBCLIENT POLICIES	SubClient Policy		
	Comments		
UPGRADE	Netware - Local		
	Unix - Remote (Push)		
	Unix/Linux/Macintosh - Local	\checkmark	
	Unix/Linux/Macintosh - Silent		
	Upgrade from CommCell Console	~	
	Windows - Local	~	
	Windows - Remote (Push)	~	
	Windows - Silent	~	
	Comments		
USER ADMINISTRATION AND SECURITY	Backup Set/Archive Set		
	Subclient		
	Comments		

Additional features are listed below:

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

Getting Started Deployment on Windows - Oracle *i*DataAgent



WHERE TO INSTALL

Install the Oracle iDataAgent on the Oracle server. This computer should satisfy the minimum requirements specified in the System Requirements.

PLANNING YOUR INSTALLATION

The Oracle *i*DataAgent installation may require a system reboot if a pending rename operation from a previously installed application is found in the operating system, hence, plan your installation at a convenient time.

INSTALLATION

The software can be installed using one of the following methods:

METHOD 1: INTERACTIVE INSTALL

Use this procedure to directly install the software from the installation package or a network drive.

METHOD 2: INSTALL SOFTWARE FROM COMMCELL CONSOLE

Use this procedure to install remotely on a client computer.

METHOD 1: INTERACTIVE INSTALL

- 1. Log on to the client computer as Administrator or as a member of the Administrator group on that computer.
- 2. Run Setup.exe from the Software Installation Package.

Select the option to install software on this computer.

the software is being installed.

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

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

3. Select the required language.

Click Next.

4.

Select the language you will use during installation.	
Next > Cano	el
<i>☴</i> Install Software on this computer <i>☴</i> Advanced options	
View documentation website	

Install Adobe Acrobat Reader

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

BEFORE YOU BEGIN

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

Verify System Requirements

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

🖨 Exi

6. Expand Client Modules | Backup and Recovery | Database and then click Oracle *i*DataAgent.

Click Next.

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

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

If firewall configuration is not required, click Next.

8.	Enter the fully qualified domain name of the $\ensuremath{\textbf{CommServe Host Name}}.$
	Click Next.

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

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

Please specify how Windows Firewall is limiting network tra connection from here to a CommServe's tunnel port, wheth CommServe are blocked, and setup should instead expect machine, or whether there is a Proxy in between.	
C This machine can open connection to CommServe on tu	innel port
C CommServe can open connection toward this machine	
C CommServe is reachable only through a proxy	
Installer	Next > Cancel
staller	×
ommServe Name Specify the CommServe computer name and host name	
CommServe Client Name	
CommServe Host Name [Enter a valid, fully-qualified, IP host name; for exam mycomputer.mycompany.com]	iple:
mycomputer.mycompany.com	

< Back

Next>

Cancel

License Agreement

Installer

Select Platforms

Installer

Installer

nstaller

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

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

Select the platforms you want to configure.

Client Modules
 Backup & Recovery
 File System
 Database

Install Agents for Restore Only

Firewall Configuration Configure firewall services

Configure firewall services

a Database
DB2 iDataAgent
DB2 iDataAgent
DataAgent
SQL Server iDataAge
SAP for Oracle
SAP for MaxDB
Charace Database

Sybase iDataAgent

End User License and Limited Warranty Agreement Software Release 9.0.0 (including Microsoft® SQL ServerTM 2008 Enterprise Edition, SQL ServerTM 2008 Enterprise Edition, SQL ServerTM 2008 Enterprise Edition Environment)

< Back

< <u>B</u>ack

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

Next > Cancel

Move the pointer over a platform name to see a description of the platform and reasons why it may be disabled.

Temporary on C: drive:

483 MB/ 483 MB

Cancel

X

Disk Space (Req/Recommended) Installation Folder: 560 MB/ 918 MB

<u>N</u>ext >

^

×

9. Click Next.

		Installer
		Communication Interface Name Setup will configure the communication paths.
		Select a client name
		Select an interface name that this computer will use to communicate with the CommServe
		audi mycompany.com
		Installer < Back Next> Cancel
10.	Select Add programs to the Windows Firewall Exclusion List , to add CommCell programs and services to the Windows Firewall Exclusion List.	Installer Vindows Firewall Exclusion List
	Click Next.	Allow programs to communicate through Windows Firewall
	This option enables CommCell operations across Windows firewall by adding CommCell programs and services to Windows firewall exclusion list.	Windows Firewall is ON
	It is recommended to select this option even if Windows firewall is disabled. This will allow the CommCell programs and services to function if the Windows firewall is enabled at a later time.	If you plan on using Windows Firewall, it is recommended to add the software programs to the exclusion list.
		Installer < Back Cancel
11.	Verify the default location for software installation.	Installer
	Click Browse to change the default location.	Destination Folder
	Click Next.	Select the destination folder to install the program files.
	 Do not install the software to a mapped network drive. Do not use the following characters when specifying the destination path: /:*?"<>> # 	Click Next to accept the default location, or click Browse to choose an alternate location. Destination Folder CMPtogram Filest Biowse
	It is recommended that you use alphanumeric characters only.	Drive List C. 928 MB Installer C. 928 MB C. 92
12.	Select a Client Group from the list.	Installer
	Click Next.	Client Group Selection Select a client group for the client.
	This screen will be displayed if Client Groups are configured in the CommCell Console.	The Client Group is a logical grouping of client machines which have the same associations at various levels like Schedule Policy, Activity Control, Security and Reports.
		Client group: None Selected client_group
		Installer < Back Cancel
13.	Click Next.	

X

×

X

14. Click Next.

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

If you do not have Storage Policy created, this message will be displayed. Click **Next**.

You can create the Storage Policy later in step 22.

Installer	\mathbf{X}				
Schedule Install of Auto					
Choose when you want to schedule an install of the downloaded updates.					
Schedule Install of Auto	omatic Updates				
C Once					
Weekly	Time: 08:31:12 PM				
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	C Wednesday C Thursday				
	C Friday C Saturday				
	C Sunday				
Installer					
	< Back Next > Cancel				
Installer	X				
Select Global Filter Opti	ions				
Select the Global Filter Option	s for the Agent.				
Global Filters provides the abi	lity to set exclusions within a CommCell to filter out data from data gents of a certain type.				
protection operations on all a	genis or a certain type.				
U:	se Cell level policy				
C Al	ways use Global Filters				
C Do	o not use Global Filters				
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	<back next=""> Cancel</back>				
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16. Click Next.

Stop the Oracle services by clicking the $\ensuremath{\mathsf{Service}}$ $\ensuremath{\mathsf{Control}}$ $\ensuremath{\mathsf{Manager}}$ button.

Shul	le Instance Shutdown down the Oracle database instances to properly II Oracle Media Library
Inste	I Oracle Media Library
	Please shut down all Oracle database instances before setup copies files. Be advised, that if you do not stop the Oracle services, the Oracle Media Management library will not be installed until you reboot.
	You can stop the Dracle services by clicking the Service Control Manager button below.
	After you have stopped the Dracle services click Next to continue with the
	installation.
	Service Control Manager
	Next > Cancel
Dele	le Cleanup ORASBT.DLL te or Rename any instances of ORASBT.DLL on ystem
	Setup will now search all the locations specified in the SYSTEM PATH environment variable to find any occurrences of ORASBT.dll.
	Please either rename or delete these occurrences so that Oracle iDataAgent can use the correct ORASBT.dll.
	orasht.dll' was not found on this system. Please click NEXT button to continue
	Delete All ORASBT, dli
	Rename All ORASBT.dll
	Confirm
	< <u>Back</u> <u>N</u> ext>Cancel
Insta	lon
Sum	
Sum	mary of install selections
	Setup has enough information to start copying the program files. If you are satisfied with the stall settings, click. Next to begin copying files.
	skali sekilings, olick herk to begin copying nes.
	<u>^</u>
	Institution Path - CAProgram Files
h	lestination Path = C:VProgram Files\ iommServe Host = mycomputer.mycompany.com terface Name = audi.mycompany.com
J	lient = audi ob:Results Path = C:\Program Files\JobResults liobal Filters = Use Cell level policy
	Installer < Back Next > Cancel
Instal	er
?	Before starting any software services, this computer will require a reboot after completion of Setup.
Instal	er
	dule Reminder schedule creation reminder
	Please note: You still need to create a Job Schedule for each iDataAgent that has been installed on
	this client computer.
	Job Schedules are required to allow the iDataAgents to perform automated backup and restore operations.
	Job Schedule creation can be accomplished through the CommCell Console administration interface.
	Installer

17. Click Next.

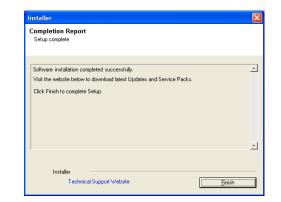
Click **Search ORASBT.dll** button to search for any existing ORASBT.dll file. If found, rename or delete the ORASBT.dll file.

18. Click Next.

19. Click OK.

20. Click Next.

21. Click Finish.





22.

If you already have a storage policy selected in step 15, proceed to the ${\bf Configuration}$ section.

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

To create a storage policy, you must have configured a library in the CommCell.

- If you do not already have a library configured, go to Disk Library Creation.
- If you have a library configured, go to Storage Policy Creation.

DISK LIBRARY CREATION:

- 1. From the CommCell Console, click the **Backup Target** button on **EZ Operations Wizard**.
- 2. Click Disc Library (For backup to disc) and click Next.
- 3. Click Use Local Disk.

Type the name of the folder in which the disc library must be located in the **Enter backup destination folder** box or click the **Browse** button to select the folder.

Click Next.

If you click the **Use Network Share** option you will be prompted for the credentials (user name and password) to access the share.

- 4. Click Next.
- 5. Click Finish.

This will create a library and Storage Policy. Click the Next > button available at the bottom of the page to continue.

STORAGE POLICY CREATION:

- 1. From the CommCell Browser, navigate to Policies.
- 2. Right-click the Storage Policies and then click New Storage Policy.
- 3. Follow the prompts displayed in the Storage Policy Wizard. The required options are mentioned below:
 - Select the Storage Policy type as Data Protection and Archiving and click Next.
 - $\circ~$ Enter the name in the Storage Policy Name box and click Next.
 - From the Library list, click the name of a disk library to which the primary copy should be associated and then click Next.

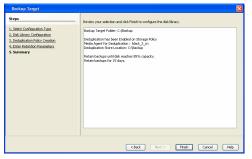
Ensure that you select a library attached to a MediaAgent operating in the current release.

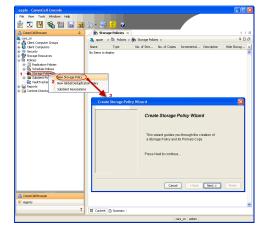
- From the **MediaAgent** list, click the name of a MediaAgent that will be used to create the primary copy and then click **Next**.
- For the device streams and the retention criteria information, click **Next** to accept default values.
- $\circ~$ Select Yes to enable deduplication for the primary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

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

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

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





METHOD 2: INSTALL SOFTWARE FROM COMMCELL CONSOLE

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

2. Click Next.

3. Select Windows. Click Next.

4. Select Manually Select Computers. Click Next.

murphy - CommCell Console	
File View Tools	
🚔 📩 Summary	
Browse & Recover	
CommCell Job Controller	🚴 murphy × 💽 Job Controller × 🛛 4 🕨 🗉
Comm	murphy > P 🗆 🗗
Common Scheduler	A & Q 🔿
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	murphy admin
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Install Wizard	
This wizard guides you through the stor	ps required to install software on computers.
Click Next to continue.	
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< Book (Mext >) > So	ve As Script Finish Cancel Help
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5. Enter the fully qualified domain name of the computer on which SQL Server resides. For example: apple.domain.company.com

Click Next.

6. Click Next.

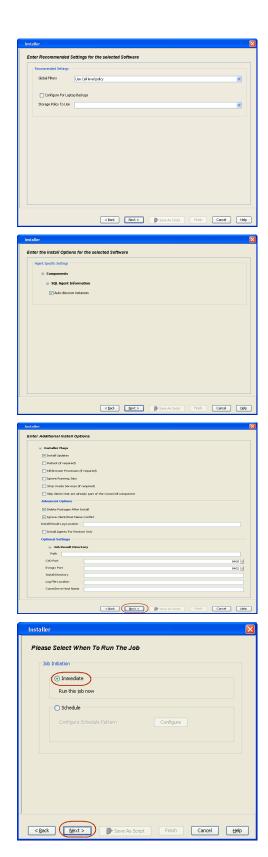
 Specify User Name and Password that must be used to access the client computer. Click Next.

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

8. Select Oracle *i*DataAgent. Click Next.

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	Import From Active Directory
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Enter Account Information The specified account should have administrative access to al clients. Prove Active Directory condentials Prove Active Directory condentials Password: Confirm Pa	e
Exter Account information In specified account should have administrative access to all clents. International information Brase Active Decicory conductive User Name: Password: Confirm Password: Confirm Password: Sever As Script: International information Sever As Script: Sev	Printh Cancel Help

9. From Storage Policy to use list, click storage policy. Click Next.



10. Click Next.

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

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

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

12. Click Immediate. Click Next.

13. Click Finish.

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ummary			
ase verify all the selected options and click Finish to run	he job immediately or click Save As Script to save th	ne job options as a script.	
lient Install Option			^
elect Type Of Installation: Windows			
ielect Type Of Client Discovery: Manually s Exclude discovery of computers with SRM ag			
Section discovery of computers with SKM ag Seuse Active Directory credentials: No	nts already installed: Tes		
lient Authentication for Job			
Iser Name: IDCLAB/administrator			
assword: ****			
nstall Flags			-
nstall Updates: Yes			
Reboot (if required): No Cill Browser Processes (if required): No			
gnore Running Jobs: No			
top Oracle Services (if required): No			
ikip clients that are already part of the Com Delete Packages After Install: No	nCell component: No		
gnore Client/Host Name Conflict: Yes			
nstall Agents For Restore Only: No			
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14. You can track the progress of the job from the **Job Controller** or **Event Viewer** window.

ADDITIONAL INSTALLATION METHODS

Custom Package

Create a compact software package for quick deployment to multiple clients

Remote Install

Deploy the software from CommCell Console on multiple clients.

Installing Restore only Agents

Setup a client in the CommCell for restore purposes

Silent Install

Deploy the software silently on multiple clients.

Getting Started Deployment on a Windows Cluster - Oracle iDataAgent



SKIP THIS PAGE IF YOU ARE NOT INSTALLING THIS AGENT ON A WINDOWS CLUSTER.

Click Next > to continue with the deployment.

WHERE TO INSTALL

Install the Oracle *i*DataAgent on the Oracle server that you want to protect and is part of a Cluster which satisfies the minimum requirements specified in the System Requirements.

BEFORE YOU BEGIN

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

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

PLANNING YOUR INSTALLATION

The Oracle *i*DataAgent installation may require a system reboot if a pending rename operation from a previously installed application is found in the operating system, hence, plan your installation at a convenient time.

INSTALLING THE ORACLE IDATAAGENT IN WINDOWS CLUSTERED ENVIRONMENT

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

Click Next.

4.

Select the language you will use during installation.			
English (United States)			
Г	<u>N</u> ext >	<u>[</u>	Cance
-		_	
<i>≡</i> Install Software on this computer			
≓ Install Software on this computer ≓ Advanced options			
I Advanced options			
 Advanced options View documentation website 			
Advanced options View documentation website View Install Quick Start Guide (Requires Adobe Acrob	at Reader)		
 Advanced options View documentation website 	at Reader)		

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

Select the option to install software on this computer.

the software is being installed.

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

6.	Select Configure a Virtual Server.
	Click Next.

 Select the disk group in which the virtual server resides. Click Next.

8. Expand Client Modules | Backup and Recovery | Database and select Oracle *i*DataAgent.

Click Next.

allor 6	
aller	×
ense Agreement	
lease read the following License Agreement. Press ie PAGE DOWN key to view the entire agreement.	
End User License and Limited Warranty Agreement	
Software Release 9.0.0	
(including Microsoft® SQL Server™ 2008 Enterprise Edition, SQL Server™	
2008 Express Edition and Windows Pre-Installation Environment)	
Eud Hoav I ianuna Aavaawaut	
I accept the terms in the license agreement.	
C I do not accept the terms in the license agreement.	
Installer	1
< Back Next > Cancel	
aller	X
uster Type Selection Configure the Physical Node or a Virtual Server	
Configuration Options	
C Configure the Physical node	
C Configure a ⊻irtual server	
< Back Next> Cancel	
aller	×
rtual Server Selection	
Select the virtual server you would like to configure	
Choose from the following list of disk groups	
configured on this cluster.	
2003ClusterVMS	
<back next=""> Cancel</back>	
<back next=""> Cancel</back>	
< <u>Back</u> Next> Cancel	
	×
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Alter Image: Second	
aller Iect Platforms elect the platforms you want to configure.	
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alter Image: Second	

< Back Next > Cancel

🔲 Install Agents for Restore Only

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

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

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

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

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

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

Specify the name of the **Cluster Group Client**. 11. Click Next.

12. Select the name of the Physical Machine from drop-down list. Click Next.

Installer		≤
Firewall Configura		
Configure firewall serv	uces	
If there is a firewall be	etween this machine and the CommServe, configure firewall services below.	
Configure firewall		
Conligue newal	30141003	
Please specify how	Windows Firewall is limiting network traffic. Whether it is possible to open	
connection from her CommServe are blo	re to a CommServe's tunnel port, whether all connections toward icked, and setup should instead expect CommServe to connect back to this	
machine, or whethe	r there is a Proxy in between.	
C This machine car	n open connection to CommServe on tunnel port	
C CommServe can	open connection toward this machine	
C CommServe is rea	achable only through a proxy	
Installer		
	Next > Cancel	
× 11		
nstaller		
CommServe Nam	e ve computer name and host	
name	ve computer name and nost	
CommServe	e Client Name	
CommServe	e Host Name	
(Enter a vali	id, fully-qualified, IP host name; for example:	
mycomputer	r.mycompany.com)	
mycompute	er. mycompany. com	
Installer		
	< Back Next > Cancel	1
la sta lla s		
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Communication In		
Communication In	nterface Name ne communication paths.	X
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Communication In Setup will configure th Installer Installer Communication In	re communication paths: Select a client name Select an interface name that this computer will use to communicate with the CommServe audi.mycompany.com audi.mycompany.com IP Address(es) for the selected host.	× .

Select Add programs to the Windows Firewall Exclusion List, to add CommCell 13. programs and services to the Windows Firewall Exclusion List.

Click Next.

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

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

14.

15.

16.

	Windows Firewall Exclusion List Allow programs to communicate through Windows Firewall
	Windows Firewall is ON
	Add programs to the Windows Firewall Exclusion List
	If you plan on using Windows Firewall, it is recommended to add the software programs to the exclusion list.
	Installer Cancel
Verify the default location for software installation.	Installer
Click Browse to change the default location.	Destination Folder Select the destination folder to install the program files.
Click Next.	
 Do not install the software to a mapped network drive. Do not use the following characters when specifying the destination path: : * ? " < > # It is recommended that you use alphanumeric characters only. 	Click Next to accept the default location, or click Browse to choose an alternate location. Destination Folder Space Required / Recommended C 928 MB Installer Keack Next > Cancel
Verify the default location for Job Results Path.	Installer
Click Browse to change the default location.	Job Results Path
Click Next.	Select the location on a shared drive to store Job Results files for this client computer.
	Click Next to accept the default location, or click Browse to choose an alternate location. Job Results Path
Select a Client Group from the list.	Installer
Click Next.	Client Group Selection Select a client group for the client.
This screen will be displayed if Client Groups are configured in the CommCell Console.	Select a clearly group to the cleark. The Cleart Group is a logical grouping of cleart machines which have the same associations at various levels like Schedule Policy. Activity Control, Security and Reports. Client group: None Selected
	None Selected client_group

nstaller

Installer

Next > Cancel

< Back

X

17. Click Next. 18. Click Next.

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

If you do not have Storage Policy created, this message will be displayed. Click **Next**.

You can create the Storage Policy later in step 31.

Installer	\mathbf{X}				
Schedule Install of Automatic Updates					
Choose when you want to sch downloaded updates.	edule an install of the				
Schedule Install of Auto	imatic Updates				
C Once					
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· woony	Monday C Tuesday				
	⊂ Wednesday ⊂ Thursday				
	C Friday C Saturday				
	C Sunday				
Installer					
	<back next=""> Cancel</back>				
Installer	×				
Select Global Filter Opti					
Select the Global Filter Option					
Global Filters provides the abi	ity to set exclusions within a CommCell to filter out data from data				
protection operations on all a	lity to set exclusions within a CommCell to filter out data from data gents of a certain type.				
(• Us	e Cell level policy				
	vays use Global Filters				
() Do	not use Global Filters				
Installer					
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Storage Policy Selectio Select a storage policy for the backed up. Configure for Laptop of Select a storage policy Installer Installer Storage Policy Selectio Select a storage policy for the backed up.	default subclient to be				

20. Click Next.

Stop the Oracle services by clicking the $\ensuremath{\mathsf{Service}}$ $\ensuremath{\mathsf{Control}}$ $\ensuremath{\mathsf{Manager}}$ button.

Oracle Instance Shutdown Shutdown the Dracle database instances to properly install Oracle Media Library	Shutdown the Oracle database instances to properly				
Please shut down all Oracle database instances before setup copies files. Be advised, that if you do not stop the Oracle services, the Oracle Media					
Management library will not be installed until you reboot. You can stop the Oracle services by clicking the Service Control Manager button below.					
After you have stopped the Oracle services click Next to continue with the installation.					
Service Control Manager					
Next > Cance	.l				
Oracle Cleanup ORASBT.DLL					
Delete Rename any instances of ORASBT.DLL on the system					
Setup will now search all the locations specified in the SYSTEM PATH environment variable to find any occurrences of ORASBT.dll.					
Please either rename or delete these occurrences so that Oracle iDataAgent can use the correct ORASBT.dll.					
Torabbidit was not found on this system. Please click Search ORASBT.dll Delete All ORASBT.dll Rename All ORASBT.dll Confirm	1				
Cance	ł				
Installer	ſ				
Summary Summary of install selections					
Setup has enough information to start copying the program files. If you are satisfied with the install settings, click Next to begin copying files.	,				
Destination Path = C.\Program Files\ CommServe Host = mpcomputer.mpcompany.com Interface Name = audi.mpcompany.com Clernt = audi Job Results Path = C.\Program Files\JobResults Global Filters = Use Cell level policy					
Installer Cance					
Installer Before starting any software services, this computer will require a reboot after complet of Setup.	tion				
Installer					
Would you like to install the software on remaining nodes on the cluster?	Would you like to install the software on remaining nodes on the cluster?				
Yes No					
	-				

21. Click Next.

Click **Search ORASBT.dll** button to search for any existing ORASBT.dll file. If found, rename or delete the ORASBT.dll file.

22. Click Next.

23. Click **OK**.

24. Click Yes.

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

Once you complete your selections, click Next.

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

26. Specify User Name and Password for the Domain Administrator account Information to perform the remote install on the cluster nodes you selected in the previous step.

Click Next.

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

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

Click Advanced Settings to specify any of the following:

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

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

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

Click Next.

- If any node installation fails, you must manually install the software on that node once the current installation is complete. See Manually Installing the Software on a Passive Node for step-by-step instructions.
- The message displayed on your screen will reflect the status of the selected nodes, and may look different from the example.

adde
dee Selected Nodes Configured Nodes VMCLUSTERT VMCLUSTERT VMCLUSTERT Next> Cano Mentificitator account information Next> Cano Administrator account information ain Account Information
Administrator account information wide domain administrator account ain Account Information ain Accou
Administrator account information wide domain administrator account ain Account Information ain Accou
Administrator account information wide domain administrator account ain Account Information ain Account Information ain Account Information ain Account Information ain Account Information ain Account Information
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Mexit > Cano
Mexit > Cano
Administrator account information wide domain administrator account ain Account Information ain Account Information ar Name [cDDMAIN\USER>]: BVAdministrator count Password:
Administrator account information wide domain administrator account ain Account Information ain Account Information ar Name [cDDMAIN\USER>]: BVAdministrator count Password:
Mext> Cano administrator account information ovide domain administrator account ain Account Information ain Account Information ain Account Information ain Account Information count Information count Password:
Idministrator account information ovide domain administrator account ain Account Information ar Name (<ddmain\user>): .8\Administrator count Password:</ddmain\user>
Idministrator account information ovide domain administrator account ain Account Information ar Name (<ddmain\user>): .8\Administrator count Password:</ddmain\user>
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< Back Next > Cancel
top remote install at any time. Installed clients will not be uninstalled. Clients in
vill continue installation, but their results will not show correctly.
ame Client Status Start Time End Time Result Description
successfully: 0 Left to install: 1
ime: 0 sec Estimated time left: 10 min 0 sec
aller
ed Settings Stop
umber of simultaneous remote machines to run Setup: 10 🛫 machines
ne to wait for Setup to start on each remote machine: 2 📩 minutes
o wait for Setup to complete on each remote machine: 15 🚊 minutes
OK
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of remote install ving software (Version) were selected to be installed:
of remote install ving software (Version) were selected to be installed:

30. Click Finish.





31.

If you already have a storage policy selected in step 19, proceed to the **Configuration** section.

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

- To create a storage policy, you must have configured a library in the CommCell.
- If you do not already have a library configured, go to Disk Library Creation.
- If you have a library configured, go to Storage Policy Creation.

DISK LIBRARY CREATION:

- From the CommCell Console, click the Backup Target button on EZ Operations Wizard.
- 2. Click Disc Library (For backup to disc) and click Next.
- 3. Click Use Local Disk.

Type the name of the folder in which the disc library must be located in the **Enter backup destination folder** box or click the **Browse** button to select the folder.

Click Next.

If you click the **Use Network Share** option you will be prompted for the credentials (user name and password) to access the share.

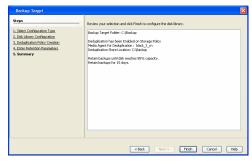
- 4. Click Next.
- 5. Click Finish.

This will create a library and Storage Policy. Click the Next > button available at the bottom of the page to continue.

STORAGE POLICY CREATION:

- 1. From the CommCell Browser, navigate to Policies.
- 2. Right-click the Storage Policies and then click New Storage Policy.
- 3. Follow the prompts displayed in the Storage Policy Wizard. The required options are mentioned below:
 - Select the Storage Policy type as Data Protection and Archiving and click Next.
 - $\circ~$ Enter the name in the Storage Policy Name box and click Next.
 - From the Library list, click the name of a disk library to which the primary copy should be associated and then click Next.

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



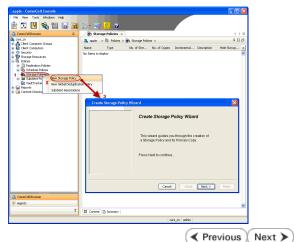
current release.

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

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

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

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



Getting Started Deployment on a UNIX Computer - Oracle *i*DataAgent

< Previous Next >

SKIP THIS PAGE IF YOU ARE NOT INSTALLING THIS AGENT ON A UNIX COMPUTER.

Click Next > to continue with the deployment.

WHERE TO INSTALL

Install the software on a UNIX computer on which Oracle Database application resides, and satisfies the minimum requirements specified in the System Requirements.

For Solaris, software can be installed on one of the following:

- Unix computer hosting the global zone on which Oracle Database application resides, and satisfies the minimum requirements specified in the System Requirements.
- Unix computer in a non global zone on which Oracle Database application resides, and satisfies the minimum requirements specified in the system requirements.

INSTALLATION

The software can be installed using one of the following methods:

METHOD 1: INTERACTIVE INSTALL

Use this procedure to directly install the software from the installation package or a network drive.

METHOD 2: INSTALL SOFTWARE FROM COMMCELL CONSOLE

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

METHOD 1: INTERACTIVE INSTALL

1. Logon to the client computer as **root** or as a sudo user.

If you are installing the software using a sudo user account, make sure that sudo user account is configured on this computer. For more information, see FAQ - Install.

- 2.
- Use the following options depending upon on your environment:
 - On Global Zone or Unix machine, run the following command to mount the cd:

mount -t iso9660,udf /dev/cdrom /mnt/cdrom

Run the following command from the Software Installation Package or mount point:

./cvpkgadd

• On a Non-Global Zone, run the following commands to mount the cd:

mkdir <Non-Global Zone root location>/<Non-Global Zone local
directory>

mount -F lofs <Global zone software Install package mount point> <Non-Global Zone root location>/<Non-Global Zone local directory>

Connect to Non-Global Zone terminal

Run the following command from the Software Installation Package or mount point:

./cvpkgadd

- 3. The product banner and other information is displayed.
 - Press Enter.
- 4. Read the license agreement. Type y and press Enter.
- 5. Press Enter.

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.

BEFORE YOU BEGIN

Download Software Packages

Download the latest software package to perform the install.

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

- If your computer is 32-bit, or if you want to install 32-bit binaries on 64-bit computer, press Enter.
 - If your computer is 64-bit, and want to install 64-bit binaries, type **2**, and then press **Enter**.
 - This prompt is displayed only when you are installing on AIX, HP-UX, or Solaris computers.
 - You can determine this by verifying whether all the components that you wish to install in this computer are supported in 64-bit in System Requirements
 - Note that when the first component is installed using 64-bit binaries, you cannot subsequently install another component using 32-bit. (Or vice-versa.)

7. Press Enter.

1) Install data protection agents on this computer

- 2) Advance options
- 3) Exit this menu

Your choice: [1]

32 or 64?

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 MS 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 "failover" 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]

Install Calypso on physical machine 172.19.99.62

Please select the Calypso module(s) that you would like to install.

[] 1) MediaAgent [1301] [CVGxMA]

[] 2) UNIX File System iDataAgent [1101] [CVGxIDA]

[] 3) Oracle iDataAgent [1204] [CVGxOrIDA]

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

Enter number(s)/one of "a,n,r,q,d,>,<,?" here:3

Install Calypso on physical machine 172.19.99.62

Please select the Calypso module(s) that you would like to install.

[] 1) MediaAgent [1301] [CVGxMA]

[] 2) UNIX File System iDataAgent [1101] [CVGxIDA]

[X] 3) Oracle iDataAgent [1204] [CVGxOrIDA]

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

8. 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 interface name that you wish to use as default, and then press **Enter**.

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

9. Press Enter.

10. Type the number associated with the **Oracle** *i***DataAgent** and press **Enter**.

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

- 12. Press Enter.
- 13. Type the appropriate number to install the latest software scripts and press **Enter**.
 - Select **Download from the software provider website** to download the latest software scripts. Make sure you have internet access.
 - Select Use the one in the installation media to install the software scripts from the package or share from which the installation is currently being 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.
- 14. Press Enter.

15. Press **Enter** to accept the default path.

- If you want to specify a different path, type the path and then press **Enter**.
- If you want to install the software binaries to an NFS shared drive, specify the directory on which you have mounted the NFS file system and then press **Enter**.

In order to make sure that the client computer has ${\tt read/write}$ access to NFS shared drive, review the steps described in Installing Software Binaries to an NFS Shared Drive.

Do not use the following characters when specifying the path:

!@#\$%^&*():/?\

- **16.** Press **Enter** to accept the default location.
 - Enter a path to modify the default location and press **Enter**.
 - All the modules installed on the computer will store the log files in this directory.

17. Type Yes and press Enter.

18.

If you do not want to assign a group to software, type $\mathbf{no},$ press \mathbf{Enter} and proceed to step 19.

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

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

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]

Please specify where you want us to install Calypso binaries.

It must be a local directory and there should be at least 176 MB 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]

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]

Most of Software 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 "oinstall" 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 Software processes, you will need to specify the access permissions later.

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

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

Please enter the name of the group which will be assigned to all Software files and on behalf of which all Software 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 "oinstall" group here.

Group name: oinstall

REMINDER

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

19. Type **d** for done with the selection and press **Enter**.

Type the Group name and then press Enter.

Access Permissions for Other Users.Installer will assign

	This screen is displayed if you do not assign any group to the software and type no in step 17.	<pre>full access rights to root user and its belonging group for all installed Calypso files and its processes.For any other users, you can specify the access permissions now. However, since you chose not to assign a dedicated group in previous step, make sure you specify sufficient access rights for other users if you are also planning to install Calypso agents involving third party software protection. [X] 1) Allow read permission to other users [X] 2) Allow write permission to other users [X] 3) Allow execute permission to other users a=all n=none r=reverse q=quit d=done >=next <=previous ? =help] Enter number(s)/one of "a,n,r,q,d,>,<,?" here: d</pre>	
		Enter number (s)/one of $a, n, r, q, u, /, c$ here: u	
20.	This prompt is relevant only when you install on Solaris. Press Enter to accept the default value for Number of Streams .	Number of Streams	
	You can type the Number of Streams that you plan to run at the same time and then press Enter .	IMPORTANT : Please read install document "Configure Kernel Parameters - Unix/Macintosh" from "Books Online" before you start configuring kernel parameters. Please enter the total number of streams that you plan to run at the same time. We need to make sure that you have enough semaphores and shared memory segments configured in /etc/system.	
		Number of streams [10]	
21.	Press Enter if you do not want the changes to be updated automatically.	We now need to modify the /etc/system configuration file on this computer. It is done to make sure that there will	
	• If you want the changes to be made automatically, type Yes and then press Enter .	be enough shared memory and semaphores available for Calypso programs. Please review the changes below and answer "yes" if you want us to apply them to the /etc/system file. Otherwise, the installation will	
	 You will come across this prompt when you install the software on the earlier versions of Solaris. 	proceed, the changes will be saved to some other file, and you will have to apply them manually.	
		set shmsys:shminfo_shmmni=8570 (was 7930) set shmsys:shminfo_shmseg=8420 (was 7780) set semsys:seminfo_semmns=10320 (was 9680) set semsys:seminfo_semmni=8570 (was 7930) set semsys:seminfo_semms1=8570(was 7930) Do you want us to apply these changes now? [no]	
22.	Press Enter .	Changes saved into /etc/system.gal.1744	
		Press <enter> to continue.</enter>	
23.	Press Enter . You will see this prompt if you have accepted the default no and pressed Enter in step 21.	Although a 'no' answer can be selected to this question during install, the user should make sure the min requirements (below) for shared memory are met, otherwise the backups may fail (the message in logs is 'could not start the pipeline').	
		<pre>set shmsys:shminfo_shmmax=4199304 set shmsys:shminfo_shmmin=1 set semsys:shminfo_shmmin=640 set semsys:shminfo_shmseg=640 set semsys:seminfo_semmn=640 set semsys:seminfo_semmn=640 set maxusers=256</pre>	
		Press <enter> to continue.</enter>	
24.	Type a network TCP port number for the Communications Service (CVD) and press Enter .	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 .	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 : [8400]	
		Port Number for EvMgrC: [8402]	
25.	If you do not wish to configure the firewall services, press Enter .	Is there a firewall between this client and the CommServe? [no]	
	If this computer is separated from the CommServe by firewall(s), type Yes and then press Enter .		
	For firewall options and configuration instructions, see Firewall Configuration and continue with the installation.		
26.	Type the fully qualified CommServe host name and press Enter .	Please specify hostname of the CommServe below. Make sure the hostname is fully qualified, resolvable by the name	
	Ensure that the CommServe is accessible before typing the name; otherwise the installation will fail.	services configured on this machine.	
		CommServe Host Name: mycommserve.company.com	
27.	Press Enter .	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	

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		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]
28.	Type the number associated with the Client Group and press Enter .	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.
	This screen will be displayed only if Client Groups are configured for the CommCell.	[] 1) Unix
		[] 2) DR
		[a=all n=none r=reverse q=quit d=done >=next <=previous ?
		=help]
		<pre>Enter number(s)/one of "a,n,r,q,d,>,<,?" here: 1</pre>
29.	A confirmation screen will mark your choice with an "X".	Client Group(s) is currently configured on CommServe
	Type d for done with the selection, and press Enter to continue.	cs.company.com. Please choose the group(s) that you want to add this client client.company.com to.
		[X] 1) Unix
		[] 2) DR
		[a=all n=none r=reverse q=quit d=done >=next <=previous ? =help]
		<pre>Enter number(s)/one of "a,n,r,q,d,>,<,?" here: d</pre>
30.	Enter the number associated with the storage policy you want use and press Enter.	Please select one storage policy for this IDA from the list below:
		1) SP_StandAloneLibrary2_2
		2) SP_Library3_3
		3) SP_MagLibrary4_4
		Storage Policy: [1]
	If you do not have Storage Policy created, this message will be displayed. You may not be prompted for user input.	There seem to be no Storage Policies configured on the CommServe. Before you can run any backups of this IDA, you will need to install a MediaAgent, create a Storage Policy and assign it to all subclients
	You can create the Storage Policy later in step 31.	Adjusting modes and permissions of files
		Successfully installed Calypso
31.	Type 3 to the Exit option and press Enter .	Certain Calypso packages can be associated with a virtual
	The installation is now complete.	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 angel.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 angel.company.com
		2) Install Calypso on a virtual machine

3) Exit

Your choice: [1] 3

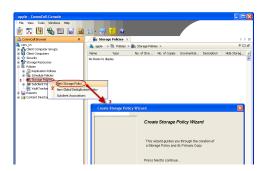
If you already have a storage policy selected in step 30, proceed to the Configuration section.

If you do not have Storage Policy created, follow the procedure given below.

32.

1. From the CommCell Browser, navigate to **Policies**.

- 2. Right-click the **Storage Policies** and then click **New Storage Policy**.
- 3. Follow the prompts displayed in the Storage Policy Wizard. The required options are mentioned below:
 - Select the Storage Policy type as Data Protection and Archiving and click Next.
 - $\circ~$ Enter the name in the Storage Policy Name box and click Next.
 - From the **Library** list, click the name of a disk library to which the primary copy should be associated and then click **Next**.



Ensure that you select a library attached to a $\ensuremath{\mathsf{MediaAgent}}$ operating in the current release.

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

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

 $\circ~$ Review the details and click Finish to create the Storage Policy.

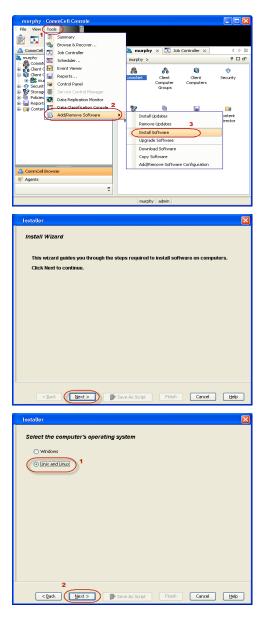
METHOD 2: INSTALL SOFTWARE FROM COMMCELL CONSOLE

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

2. Click Next.

3. Select Unix and Linux. Click Next.

4. Select Manually Select Computers. Click Next.



5. Enter the fully qualified domain name of the computer in which you wish to install. For example: apple.domain.company.com The Oracle iDataAgent will be installed on this client computer. Click Next.

6. Click Next.

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

Select how to discover the computers for installing the software
Manualy select computers
Software will be installed only on the selected list of computers. Automatically discover computers
Computers will be discovered when the job runs.
< Back
< Back (Next >) Save As Script Finish Cancel Help
Installer 🛛
Enter the host names of the computers
Please enter the host names of the computers, one per line
apple.domain.company.com
Import From Active Directory
Select from existing clents
< Back Next > Save As Script Finish Cancel Belp
Installer
Select Software Cache
Select Software Cache Touse current Cliert or client Graup Software Cache settings, del Next. To override Software Cache estings check. Override Software Cache and setti the Software Cache to be used.
Select Software Cache Touse current Clerk or Clerk Group Software Cache settings, did. Next. To override Software Cache settings check. Override Software Cache and select the Software Cache to be used.
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Select Software Cache Touse current Clear or Clear Group Software Cache actings, del Nex. To override Software Cache and select the Software Cache to be used. Coverde Software Cache Soft

8. Select Oracle *i*DataAgent. Click Next.

- 9.
- Select **Client Group** from **Available** and click **Add**. Do not add more than one Client Group.
- Select a **Storage Policy** from the drop-down list. Click **Next**.
 - Select the **Configure for Laptop or Desktop Backup** option to install **Backup Monitor** utility. This utility allows you to view the backup job summary from the client computer without opening the CommCell Console. See Monitor Laptop User for more information.
- **10.** In the **Unix Group** box, type the Unix group name to which the oracle user belongs to.
 - Click Next.

11. Select Immediate. Click Next.

🗟 🛄 Client Modules	
😑 😂 Backup & Recovery	<u> </u>
🖶 🙆 File System 20 UNIX File System iDal	taAgint
File System NDMP Re	istore Enabler
Image Level DataAg Novel OES File Syste	ent
Novell OES Hie Syste	e DataBase iDataAgent
Image Level ProxyHo	Services ost DataAgent
Database Deli DetaAgent MySQL iDataAgent	
MySQL iDataAgent PostGres iDataAgent	
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Oracle DataAgent	
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	< Back Ment > P Save As Script Finish Cancel Help
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Enter Recommended Setti	ings for the selected Software
Recommended Settings	
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Available:	Selected:
Lantop	Add >
Laptop Backup Laptop Group	
Laptop_Group	< Remove
	Add All >>
	<< Remove All
Global Filters	Use Cell level polcy
Configure For Laptop Ba	sdups
 Storage Policy to use 	× 1
Subclient Policy to use	
Subclienc Policy to use	×
(<back next=""> Save As Script Finish Cancel Help</back>
staller	
Enter Additional Install Opti	0.05
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< Back Next > Save As Script Finish Cancel Help

X

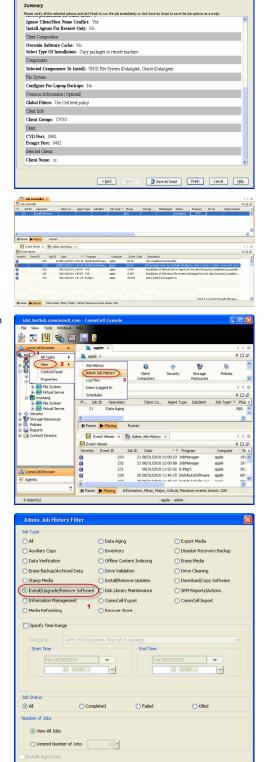
Quick Start Guide - Oracle iDataAgent

12. Click Finish.

- **13.** You can track the progress of the job from the **Job Controller** or **Event Viewer** window.
- 14. Once the job is complete, right-click the **CommServe** computer, click **View** and then click **Admin Job History**.

15. Select Install/Upgrade/Remove Software. Click OK.

- **16.** You can view the following details about the job by right-clicking the job:
 - Items that succeeded during the job
 - Items that failed during the job
 - Details of the job
 - Events of the job
 - Log files of the job



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Job Type	Job ID	Status	Start Time	End Time		Error C	Storag	Auton	Legal	Legal
istal Software	20	Complete	View Job Details	11	admin			ца	N/A	NIA.
			Resubmit Job View Events							
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			View Logs							
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Previous Next >

ADDITIONAL INSTALLATION METHODS

Custom Package

Create a compact software package for quick deployment to multiple clients

Decoupled Install

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

Remote Install

Deploy the software from CommCell Console on multiple clients.

Installing Restore only Agents

Setup a client in the CommCell for restore purposes

Silent Install

Deploy the software silently on multiple clients.

Getting Started Deployment on a UNIX Cluster - Oracle iDataAgent



SKIP THIS PAGE IF YOU ARE NOT INSTALLING THIS AGENT ON A UNIX CLUSTER.

Click Next > to begin Configuration.

WHERE TO INSTALL

Install the software on a client computer that you want to protect and is part of a Cluster which satisfies the minimum requirements specified in the System Requirements.

BEFORE YOU BEGIN

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

Verify System Requirements

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

INSTALLING THE ORACLE IDATAAGENT IN UNIX CLUSTERED ENVIRONMENT

- 1. Logon to the active node as **root**.
- If your are installing the software from CD, run the following command to mount the CD:

• If your computer is 32-bit, or if you want to install 32-bit binaries on 64-bit

• If your computer is 64-bit, and want to install 64-bit binaries, type 2, and then

This prompt is displayed only when you are installing on AIX, HP-UX,

• You can determine this by verifying whether all the components that

 Note that when the first component is installed using 64-bit binaries, you cannot subsequently install another component using 32-bit. (Or

you wish to install in this computer are supported in 64-bit in System

mount -t iso9660,udf /dev/cdrom /mnt/cdrom

Run the following command from the Software Installation Package or mount point:

./cvpkgadd

computer, press Enter.

or Solaris computers.

Requirements

vice-versa.)

press Enter.

- The product banner and other information is displayed.
- **4.** Read the license agreement. Type **y** and press **Enter**.

Press Enter.

5. Press Enter.

3.

6.

7.

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

Exit this menu
 Your choice: [1]

32 or 64?

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 MS only(64 bit)

Your choice: [1]

Type 2, and press Enter to install on a computer which is part of a Cluster. Certain Calypso pack IP, or in other word belonging to some cl

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

Page 43 of 55

		2) Install on a virtual machine
		3) Exit
		Your choice: [2]
8.	Type the name of the computer 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.
		If you got into this screen by mistake, hit ^C and restart copkgad.
		Virtual Machine Host Name:devm.mycompany.com
9.	Press Enter .	Virtual Machine Client Name
		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: [devm]
10.	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.
	This prompt appears only when the Unix File System <i>i</i> DataAgent 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
11.	Verify the name of the physical interface and make any required changes. Then press $\ensuremath{\textbf{Enter}}$.	Please verify the physical interface name below. Make it as complete (with fully qualified domain name) as possible.
		Physical Hostname: [mackrel]
12.	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]
13.	Type the number associated with the Oracle <i>i</i> DataAgent and press Enter .	Install Calypso on physical machine 172.19.99.62
		Please select the Calypso module(s) that you would like to install.
		[] 1) MediaAgent [1301] [CVGxMA]
		[] 2) UNIX File System iDataAgent [1101] [CVGxIDA] [] 3) Oracle iDataAgent [1204] [CVGxOrIDA]
		=help] Enter number(s)/one of "a,n,r,q,d,>,<,?" here:3
14.	A confirmation screen will mark your choice with an "X".	Install Calypso on physical machine 172.19.99.62
	Type d for Done , and press Enter .	Please select the Calypso module(s) that you would like to install.
		[] 1) MediaAgent [1301] [CVGxMA]
		[] 2) UNIX File System iDataAgent [1101] [CVGxIDA]
		[X] 3) Oracle iDataAgent [1204] [CVGxOrIDA]
		<pre>[a=all n=none r=reverse q=quit d=done >=next <=previous ? =help]</pre>
		<pre>Enter number(s)/one of "a,n,r,q,d,>,<,?" here:d</pre>
15.	Press Enter .	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 .	Installation Scripts Pack provides extra functions and latest support and fix performed during setup time. Please specify how you want to get this pack.
	 Select Download from the software provider website to download the latest software scripts. Make sure you have internet access. 	If you choose to download it from the website now, please

Page 44 of 55

- Select **Use the one in the installation media** to install the software scripts from the package or share from which the installation is currently being 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.

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

17. Press Enter.

18.

Press Enter to accept the default path.

- If you want to specify a different path, type the path and then press **Enter**.
- If you want to install the software binaries to an NFS shared drive, specify the directory on which you have mounted the NFS file system and then press **Enter**.

In order to make sure that the client computer has ${\tt read/write}$ access to NFS shared drive, review the steps described in Installing Software Binaries to an NFS Shared Drive.

Do not use the following characters when specifying the path:

!@#\$%^&*():/?\

19. Press Enter to accept the default location.

- Enter a path to modify the default location and press **Enter**.
- All the modules installed on the computer will store the log files in this directory.

20. Type Yes and press Enter.

If you do not want to assign a group to software, type $\mathbf{no},$ press \mathbf{Enter} and proceed to step 22.

21. Type the Group name and then press Enter.

22. Type **d** for done with the selection and press **Enter**.

This screen is displayed if you do not assign any group to software and type **no** in step 20.

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]

Please specify where you want us to install Calypso binaries.

It must be a local directory and there should be at least 176MB 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]

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]

Most of Software 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 "oinstall" 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 Software processes, you will need to specify the access permissions later.

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

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

Please enter the name of the group which will be assigned to all Software files and on behalf of which all Software 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 "oinstall" group here.

Group name: oinstall

REMINDER

If you are planning to install Calypso Informix, DB2, PostgreSQ1, Sybase or Lotus Notes iDataAgent, please make sure to include Informix, DB2, etc. users into group "oinstall".

Access Permissions for Other Users Installer will assign full access rights to root user and its belonging group for all installed Calypso files and its processes. For any other users, you can specify the access permissions now. However, since you chose not to assign a dedicated group in previous step, make sure you specify sufficient access rights for other users if you are also planning to install Calypso agents involving third party software protection.

[X] 1) Allow read permission to other users [X] 2) Allow write permission to other users [X] 3) Allow execute permission to other users a=all n=none r=reverse q=quit d=done >=next <=previous ? =help] Enter number(s)/one of "a,n,r,q,d,>,<,?" here: d</pre> 23. This prompt is relevant only when you install on Solaris. Press Enter to accept the Number of Streams default value for Number of Streams. IMPORTANT : Please read install document "Configure Kernel Parameters - Unix/Macintosh" from "Books Online" before you start configuring kernel parameters. Please enter the total number of streams that you plan to run at the same You can type the Number of Streams that you plan to run at the same time and then press Enter. time. We need to make sure that you have enough semaphores and shared memory segments configured in /etc/system. Number of streams [10] 24. Press Enter if you do not want the changes to be updated automatically. We now need to modify the /etc/system configuration file on this computer. It is done to make sure that there will be enough shared memory and semaphores available for • If you want the changes to be made automatically, type **Yes** and then Calypso programs. Please review the changes below and answer "yes" if you want us to apply them to the /etc/system file. Otherwise, the installation will press Enter. · You will come across this prompt when you install the software on the proceed, the changes will be saved to some other file, and earlier versions of Solaris. you will have to apply them manually. set shmsys:shminfo_shmmni=8570 (was 7930) set shmsys:shminfo_shmseg=8420 (was 7780) set semsys:seminfo_semmns=10320 (was 9680) set semsys:seminfo_semmni=8570 (was 7930) set semsys:seminfo_semms1=8570 (was 7930) Do you want us to apply these changes now? [no] 25. Press Enter. Changes saved into /etc/system.gal.1744 Press <ENTER> to continue. Although a 'no' answer can be selected to this question 26. Press Enter. during install, the user should make sure the min You will see this prompt if you have accepted the default no and pressed Enter in requirements (below) for shared memory are met, otherwise the backups may fail (the message in logs is 'could not step 24. start the pipeline'). set shmsys:shminfo_shmmax=4199304 set shmsys:shminfo_shmmin=1
set semsys:shminfo_shmmni=640 set semsys:shminfo_shmseg=640 set semsys:seminfo_semmns=640
set semsys:seminfo_semmni=640 set semsys:seminfo_semmsl=640 set maxusers=256 Press <ENTER> to continue. Every instance of Calypso should use a unique set of 27. Type a network TCP port number for the Communications Service (CVD) and press network ports to avoid interfering with other instances Enter. running on the same machine. Type a network TCP port number for the Client Event Manager Service (EvMgrC) and The port numbers selected must be from the reserved port press Enter. number range and have not been registered by another application on this machine. Please enter the port numbers. Port Number for CVD : [8400] Port Number for EvMgrC: [8402] Is there a firewall between this client and the CommServe? 28. If you do not wish to configure the firewall services, press Enter. [no] If this computer is separated from the CommServe by firewall(s), type Yes and then press Enter. For firewall options and configuration instructions, see Firewall Configuration and continue with the installation. 29. Type the fully qualified CommServe host name and press Enter. Please specify hostname of the CommServe below. Make sure the hostname is fully qualified, resolvable by the name Ensure that the CommServe is accessible before typing the name; services configured on this machine. otherwise the installation will fail. CommServe Host Name: mycommserve.company.com Commcell Level Global Filters are set through Calypso 30. Press Enter. 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

- Client Group(s) is currently configured on CommServe Type the number associated with the Unix File System iDataAgent and press 31. cs.company.com. Please choose the group(s) that you want Enter. to add this client client.company.com to. [] 1) Unix [] 2) DR [a=all n=none r=reverse q=quit d=done >=next <=previous ? =help] Enter number(s)/one of "a,n,r,g,d,>,<,?" here: 1</pre> Client Group(s) is currently configured on CommServe 32. A confirmation screen will mark your choice with an "X". cs.company.com. Please choose the group(s) that you want Type d for Done, and press Enter. to add this client client.company.com to. [X] 1) Unix [] 2) DR [a=all n=none r=reverse q=quit d=done >=next <=previous ? =help] Enter number(s)/one of "a,n,r,q,d,>,<,?" here: d</pre> 33. Please select one storage policy for this IDA from the
 - Enter the number associated with the storage policy you want use and press Enter.

If you do not have Storage Policy created, this message will be displayed. You may not be prompted for user input.

You can create the Storage Policy later in step 35.

34. Type 4 to the Exit option and press Enter.

The installation is now complete.

CommServe. Before you can run any backups of this IDA, you will need to install a MediaAgent, create a Storage Policy and assign it to all subclients.. Adjusting modes and permissions of files Successfully installed Calypso

list below:

2) SP_Library3_3 3) SP MagLibrary4 4 Storage Policy: [1]

1) SP_StandAloneLibrary2_2

default subclient? [1]

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

There seem to be no Storage Policies configured on the

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

1) Add a new package to hpuxmcl.company.com

- Install Calypso on the physical machine
 Install Calypso on another virtual machine
- 4) Exit

Your choice: [4]

If you already have a storage policy selected in step 33, proceed to the Configuration section.

If you do not have Storage Policy created, follow the procedure given below.

- 35.
- 1. From the CommCell Browser, navigate to Policies.
- 2. Right-click the Storage Policies and then click New Storage Policy.
- 3. Follow the prompts displayed in the Storage Policy Wizard. The required options are mentioned below:
 - $\circ~$ Select the Storage Policy type as $\ensuremath{\text{Data}}$ $\ensuremath{\text{Protection}}$ and $\ensuremath{\text{Archiving}}$ and click Next.
 - Enter the name in the Storage Policy Name box and click Next.
 - $\circ~$ From the $\mbox{Library}$ list, click the name of a disk library to which the primary copy should be associated and then click Next.

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

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

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

apple - CommCell Console		
File View Tools Windows Help		
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📤 CommCell Browser 🛛 🖗	🚡 Storage Policies 🛛	4.1
🚴 cars_cn 🗄 💦 Client Computer Groups	👗 apple > 🛅 Policies > 🔂 Storage Policies >	P 🗆
B Q Clent Computers	Name Type No. of Stre No. of Copies Incremental Description	Hide Storag
Security Security Storage Resources	No Items to display	
Policies Policies Policies		
Schedule Policies		
1 Storage Policies		
R VaultTracker 2 Mana Global Darker		
Reports Subclient Associat		
	3	
	Create Storage Policy Wizard	
	Create Storage Policy Wizard	
	This wizard guides you through the creation of a Storage Policy and its Primary Copy.	
	Press Next to continue	
	Piebo rouse contained.	
	Cancel < Book Next >	Rnish
A Control Browner	4 · · · · · · · · · · · · · · · · · · ·	
Agents		
	III Content 🔁 Summary	

 $\circ~$ Review the details and click Finish to create the Storage Policy.

Previous Next >

1.

2.

з.

Getting Started Configuration - Oracle iDataAgent

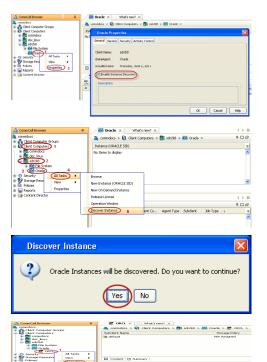
Once the Oracle *i*DataAgent is installed, configure the instance and subclient as follows:

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

• From the CommCell Browser, navigate to Client Computers | < Client >.

• Right-click Oracle, point to All Tasks and then click Discover Instance.

- Right-click Oracle and then click Properties.
- Select the Enable Instance Discovery check box.



Click Yes.

From the CommCell Browser, navigate to Client Computers | <Client>|Oracle.
Right-click the <Instance> and then click Properties.

Automatic instance discovery will not detect the manually created databases. If Instances are not discovered, create an instance manually. See Enabling Automatic Instance Discovery and Manually Adding an Instance for more information.

- 5. On Windows clients:
 - Click Change.
 - In the **User Account** box, enter the user name to access the Oracle application.
 - In the Password box, enter the password for the user account.
 - In the Confirm Password box, re-confirm the password.

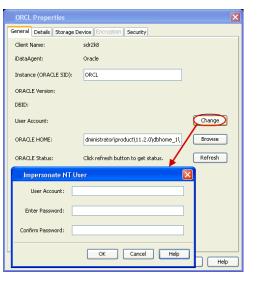
• Click OK.

Skip this step if you have a Unix client.

6.

- Click the Storage Device tab.
 - In the Storage Policy used for user command backup of data box, select a storage policy name.

If you do not have a storage policy created, go to step 10 to create a storage policy.



ORCL Properties	
General Details Storage Device Encryption Se	
Command Line Backup Log Backup Data Trans	fer Option Deduplication
Storage Policy used for user co	mmand backup of data:
DiskLibrary1(commdocs)_(1) Storg_Picy1	
	OK Cancel Help
ORCL Properties	X
General Details Storage Device Encryption Se	scurity
Command Line Backup Log Backup Data Trans	fer Option Deduplication
Storage Policy used for all A	rchive Log backups:
DiskLibrary1(commdocs)_(1)
Storg_Plcy1 Number of Archive Log Back	up streams:
	OK Cancel Help
committees	Client Computere > 📴 edr2kii > 🛺 Oracle > 🛒 ORCL >
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O Do not convert to Full. Ensure that Full backu	o is performed as soon as possible.
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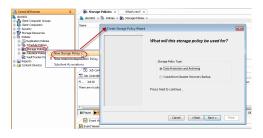
- Click the Logs Backup tab.
 - In the Storage Policy used for all Archive Log backups box, select a storage policy name.
 - Click OK.

If you do not have a storage policy created, go to step 10 to create a storage policy.

- From the CommCell Browser, navigate to Client Computers | <Client> | Oracle | <Instance>.
 - Right-click the default subclient and then click **Properties**.
- **9.** Click the **Storage Device** tab.
 - In the **Data Storage Policy** list, select a Storage Policy name.
 - Click **OK** to convert the next backup as a full backup.
 - Click OK.

Click Next \blacktriangleright to continue. If you do not have Storage Policy created, follow the step given below to create a storage policy.

- **10.** Create a Storage Policy:
 - 1. Click Create Storage Policy.
 - Follow the prompts displayed in the Storage Policy Wizard. The required options are mentioned below:
 - Select the Storage Policy type as Data Protection and Archiving and click Next.
 - $\circ~$ Enter the name in the Storage Policy Name box and click Next.
 - From the **Library** list, click the name of a disk library to which the primary copy should be associated and then click **Next**.
 - Ensure that you select a library attached to a MediaAgent operating in the current release.
 - From the **MediaAgent** list, click the name of a MediaAgent that will be used to create the primary copy and then click **Next**.
 - $\circ\;$ For the device streams and the retention criteria information, click Next to accept default values.
 - Select **Yes** to enable deduplication for the primary copy.
 - From the **MediaAgent** list, click the name of the MediaAgent that will be used to store the Deduplication store.
 - Type the name of the folder in which the deduplication database must be located in the Deduplication Store Location or click the Browse button to select the folder and then click **Next**.
 - Review the details and click **Finish** to create the Storage Policy.





Getting Started Backup - Oracle iDataAgent

WHAT GETS BACKED UP	WHAT DOES NOT GET BAC	KED UP
	Oracle application files associate	ed with the Oracle installation.
files (*.ctl) Archived redo logs	Use the File System <i>i</i> components.	DataAgent to back up the above mentioned
Oracle Managed Files (OMF)		
Parameter files (SP File)		
 From the CommCell Browser, navigate to Client Con <instance>.</instance> Right-click the default subclient and click Backup. 	mputers <i><client></client></i> Oracle	A granted browner C mick x B granted C Mick Conclus Fore C Mick Con
 Click Full as backup type and then click Immediate Click OK. 	3.	Sackap Optimers X Beschap Optimers X Select Exclusion Type Image: Select Exclusion Type Oracle Incommental Level Image: Select Exclusion Type Sackap Of SEC (SKQ), OPEN Retriest
3. You can track the progress of the job from the Job Cor CommCell console.	ntroller window of the	/∑] Microsete x (1) II (∑) Microsete x € 0.0
 Once the job is complete, view the job details from the the Subclient and select Backup History. Click OK. 	Backup History. Right-click	Image: Control Image: Control Image: Control Image: Con
		Incremental C Synthetic full Job Status All Completed Failed Specify Time Range Time Zone: (GMT-08:00) Pacific Time (US & Canada) Y Start Time Fond Time Y Start Time Fond Time
 6. Right-click the job to: Browse the database that was backed up. View RMAN Logs. Resubmit the job. View job details. View media associated with the job. View events associated with the job. View or send the log file that is associated with the job. 	job.	Image: space of the space

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Getting Started Restore - Oracle iDataAgent

< Previous Next >

As restoring your backup data is very crucial, it is recommended that you perform a restore operation immediately after your first full backup to understand the process. The following section explain the steps for restoring a database.

- 1. From the CommCell Browser, navigate to **Client Computers | <***Client***> |** Oracle.
 - Right-click the <*Instance*>, point to **All Tasks**, and then click **Browse Backup Data**.
- 2. Click OK.

- In the right pane of the Browse window, click the <Instance> and select all the entities.
 - Click Recover All Selected.
- 4. Click Advanced.

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- Click the **Options** tab.
 - In the **Reset Logs** box, select **None**.
 - Select the Switch Database mode for Restore checkbox.
 - Click OK.

6. Click OK.

- 7. You can monitor the progress of the restore job in the **Job Controller**.
- 8.

Once the restore job has completed, right-click the agent and click **View | Restore History**.

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9. Click **OK**.

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- **10.** You can view the following details about the job by right-clicking the job:
 - View Restore Items
 - You can view them as Successful, Failed, Skipped or All.
 - View Job Details
 - View Events of the restore job.
 - View Log files of the restore job
 - View number of objects
 - View Rman Logs
- **11.** Once the database is restored, verify that the restored database and log files are available in the original location.

CONGRATULATIONS - YOU HAVE SUCCESSFULLY COMPLETED YOUR FIRST BACKUP AND RESTORE.

If you want to further explore this Agent's features read the **Advanced** sections of this documentation.

