Quick Start - Solaris File System iDataAgent

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Overview - Unix/Linux File System iDataAgents

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Terminology

WHERE TO GO NEXT

Linux

Walks you through the process of installing and configuring the File System *i*DataAgent for Linux.

AIX

Walks you through the process of installing and configuring the File System *i*DataAgent for AIX

FreeBSD

Walks you through the process of installing and configuring the File System $i{\rm DataAgent}$ for FreeBSD.

HPUX

Walks you through the process of installing and configuring the File System $i {\rm DataAgent}$ for HPUX.

Solaris

Walks you through the process of installing and configuring the File System $i{\rm DataAgent}$ for Solaris.

Tru64

Walks you through the process of installing and configuring the File System *i*DataAgent for Tru64.

INTRODUCTION

Calypso software provides a simplified end-to-end protection of file system data residing on all the Unix computers in your enterprise. In addition to complete protection of file system data for disaster recovery, it also provides a robust and comprehensive backup and recovery solution with significant speed performance and efficient use of disk and tape drives. It also assists you in full system rebuilds and eliminates recovery failures.

KEY FEATURES

The Unix File System iDataAgents offers the following key features:

SIMPLIFIED DATA MANAGEMENT

The Unix File System *i*DataAgents enables easy management of all the UNIX systems in your environment, by providing a singular approach to manage the data using the same unified console and infrastructure.

POINT-IN-TIME RECOVERY

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

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.

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.

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

SRM FOR UNIX FILE SYSTEM

SRM is integrated with UNIX File System iDataAgent to provide several advanced reporting capabilities for your backups. When enabled, backup jobs collect details on the file systems currently being used or not used, the memory and hardware resources consumed, storage usage, and granular file-level analytics.

SRM reports include detailed information on the state of your file system data, including free space, used space, file count, file sizes, directory structure, and many other useful statistics.

In addition, **SRM summaries** provide a graphical, real-time representation of usage information such as memory and CPU utilization. Optional file-level analytics provides even more granular details at the file-level for optimizing your storage resources.

SRM integration with UNIX File System iDataAgent can be easily enabled with your backups to take advantage of these features.

1-TOUCH

1-Touch recovery helps to recover a crashed system in the least amount of time. By automatically rebuilding the operating system, you can recover systems with defective components such as inaccessible volumes or crashed disks. You don't need to reinstall the individual software packages or operating systems manually.

ONEPASS AGENT

The OnePass Agent is an integrated File System agent which backs up and archives the qualified data. It reclaims backup storage space when files and stubs are deleted on the primary storage.

CONTENT INDEXING AND SEARCH

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

DESKTOP BROWSE

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

TERMINOLOGY

The Unix File System documentation uses the following terminology:

CLIENT	The computer in which the <i>i</i> DataAgent is installed and contains the data to be secured.
BACKUP SET	A group of subclients which includes all of the data backed up by the <i>i</i> DataAgent.
SUBCLIENT	The Unix file system data to be backed up.

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System Requirements - Solaris File System iDataAgent

AIX HP-UX FreeBSD Linux Solaris Tru64 Supported Features

The following are the requirements for Solaris File System *i*DataAgent:

OPERATING SYSTEM

		T ROCESSOR		
SOLARIS	Solaris 9	Sparc5 or higher recommended		
	Solaris 11.x	Sparc5 or higher recommended		
	Solaris 11.x	x64		
	Solaris 10.x with a minimum of SunOS (Sparc) Patch 119963-14	Sparc5 or higher recommended		
	Solaris 10.x (OpenSolaris supported)	x64		
	Solaris 10.x (Flying Zones supported)	Sparc5 or higher recommended		

PROCESSOR

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

750 MB minimum of hard disk space for software

100 MB of additional hard disk space for log file growth

500 MB of reserved hard disk space for the Job Results directory

1 GB of temp space required for install or upgrade (where the temp folder resides)

For information on space requirements to install/upgrade the File System and service pack, see Service Pack - System Requirements.

MEMORY

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

Swap space = 2*RAM size

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.

PERIPHERALS

DVD-ROM drive Network Interface Card

MISCELLANEOUS

NETWORK

TCP/IP Services configured on the computer.

SUPPORTED FILE SYSTEMS

Unix File System (UFS) VERITAS File System (VxFS) VERITAS Cluster File System (VxCFS) Zettabyte File System (ZFS)

VOLUME MANAGERS

Veritas Volume Manager (VxVM) 5.0 or higher

Solaris Volume Manager (SVM)

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

Getting Started - Solaris File System - Deploying in a Global Zone or Solaris Server



Use the following steps to install the File System iDataAgent on a Global Zone or a Solaris Server.

WHERE TO INSTALL

Install the software directly on the computer that you wish to protect. This can be one of the following:

- Solaris Servers
- Computer hosting the global zone

It is recommended to install the software on the global zone to protect non-changing or static data on non-global zones. If the data is dynamic or contains application data, install the software on the non-global zone.

Make sure the computer 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.

If you are installing the software from CD, run the following command to mount the 2. CD:

mount -r -F hsfs /dev/sr0 /cdrom

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

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

./cvpkgadd

The product banner and other information is displayed.

Press Enter.

3.

6.

4. Read the license agreement. Type y and press Enter.

If your computer is 32-bit, press Enter.

Press Enter. 5.

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

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

1) Install data protection agents on this computer

2) Advance options

3) Exit this menu

Your choice: [1]

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) 32 bit

2) 64 bit

Your choice: [1]

7. Press Enter.

procedure.

Certain Calypso packages can be associated with a virtual

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Download Software Packages

Download the latest software package to perform the install.

System Requirements

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

BEFORE YOU BEGIN

 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 Unix File System *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.

It is recommended to download the latest Service pack(s). Type **Yes** and press **Enter** to automatically install the available updates during installation.

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 angel

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

[] 1) MediaAgent [1301] [CVGxMA]

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

[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:2

Install Calypso on physical machine angel

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

[] 1) MediaAgent [1301] [CVGxMA]

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

[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

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 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 Calvpso 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 most of software processes and inherit database access rights. To make sure that registry and log files can be written to by both kinds of processes we can either make such files world-writeable or we can grant write access only to processes belonging to a particular group, e.g. a "calypso" or a "dba" group.

We highly recommend now that you create a new user group and enter its name in the next setup screen. If you choose not to assign a dedicated group to Software processes, you will need to specify the access permissions later.

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

REMINDER

Press <ENTER> to continue ...

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]

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 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 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_semmsl=8570 (was 7930) Do you want us to apply these changes now? [no]

Changes saved into /etc/system.gal.1744

You will see this prompt if you have accepted the default no and pressed Enter in the Press <ENTER> to continue. above step.

21. Press Enter.

Oracle's "dba" group here. Group name: sky1

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

Number of Streams

Press Enter if you do not want to apply the changes now.

time and then press Enter.

Press Enter to accept the default value for Number of Streams.

- If you want to apply the changes now, type **Yes** and then press **Enter**.
 - You will come across this prompt when you install the software on the earlier versions of Solaris.

You can type the Number of Streams that you plan to run at the same

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15.

17.

18.

19.

20.

Press Enter.

Press Enter again.

- 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 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.

Type the Group name and press Enter.

- 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.

22.	Press Enter . You will see this message if you have accepted the default answer and pressed Enter in step 20.	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_shmsed=640 set semsys:seminfo_shmsed=640 set semsys:seminfo_semmn=640 set semsys:seminfo_semms=640 set maxusers=256 Press <enter> to continue.</enter></pre>		
23.	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]		
24.	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.			
25.	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		
26.	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 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]		
27.	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 have not created a storage policy, 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 29.	Adjusting modes and permissions of files		
		Successfully installed Calypso		
28.	Type 3 and press Enter .	Certain Calypso packages can be associated with a virtual IP, or in other words, installed on a "virtual machine" belonging to some cluster. At any given time the virtual machine's services and IP address are active on only one of the cluster's servers. The virtual machine can "fail- over" from one server to another, which includes stopping services and deactivating IP address on the first server and activating the IP address/services on the other server.		
		Currently you have Calypso installed on physical node 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: [3]

If you already selected a storage policy in step 27, proceed to the Configuration 5 section.

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

- 1. From the CommCell Browser, navigate to Policies.
 - 2. Right-click the Storage Policies and then click New Storage Policy.
 - 3. Follow the prompts displayed in the Storage Policy Wizard. The required options are mentioned below:
 - o Select the Storage Policy type as Data Protection and Archiving and click Next.
 - 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.

- gent 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.

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

METHOD 2: INSTALL SOFTWARE FROM COMMCELL CONSOLE

For sudo users, Service Pack 4B (or higher) must be available in the CommServe cache before performing the install. See Configure Download Software for step-by-step instruction on downloading the latest software or updates.

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ummary CommCel Job Controller murphy Client C

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





0	From the	MediaAgent	list, click	the nam	e of a l	MediaA

₽ 🗆 ð



29.

4. Select Manually Select Computers ,and then 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 **Unix File System** *i***DataAgent** will be installed on this client computer. Click **Next**.

6. Click Next.

O Windows
Linix and Linux
2 < Back (<u>Heat ></u>) → Save As Script Finish Cancel Help
Installer Select how to discover the computers for installing the software
Manually select computers
Software will be installed only on the selected list of computers. Automatically discover computers
Computers will be discovered when the job runs.
< Bock 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
Import From Active Directory Select from existing clents
Select from existing clents
Select from existing clents Select from existing clents
Select from existing clents Select from existing clents Cencel Bed Installer
Select from existing clents Select from existing clents
Select from existing clents Select from existing clents Select from existing clents Select Software Cache Installer Select Software Cache To use named Clent or Clent Group Software Cache settings check Corrents Software Cache settings, cled lost. To override Software Cache settings check
Select from existing clents Select from existing clents
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Installer

×

7. Type the **User Name** and **Password** of client computer who has administrator or sudo privileges.

Click Next.

 If a SUDO user has been created for root access then use visudo to change /etc/sudoers, so that this user can SUDO into ssh without being prompted for the password. Change the **/etc/sudoers** by commenting the following lines.

• For Sudo users with restricted privileges, in order to gain privilege to install the software remotely, you need to have **/bin/sh** added to the permission section in the sudoers file.

On SuSE Linux:

- Defaults targetpw # ask for the password of the target user i.e. root
- ALL ALL=(ALL) ALL # WARNING! Only use this together with 'Defaults targetpw'!

On Red Hat Enterprise Linux/CentOS:

• Defaults requiretty

8. Select Unix File System iDataAgent.

Click Next.

•	Select Client Group from Available and click
	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.

Add.

10. Click Next.

9.

h										
			Save As Script							
	< Back	Next >	Save As Script	Finish C						
	Law Market									
	Installer									
	Select Package(s) to Install									
	Cert Model Cert Model Cert Model File Cert Model Cert File Cert Cert									
	E Calle System	n He System DataAnent								
	- File St	istem NDMP Restore Enabl Host iDataAgent	er							
	- Image - Novel	Level DataAgent OES File System DataAge	nt							
	- Novel	OES Groupwise DataBase OES Directory Services	DataAgent							
	E C Database	Level ProxyHost iDataAge	int							
	06210	lataAgent L DataAgent res DataAgent entum (DataAgent e DataAgent ii DataAgent ii DataAgent ar Oracle ar MaxDB								
	- Docum	ventum iDataAgent a DukaAgent								
	- Oracle	e DataAgent x Oracle								
	😑 🔂 Lotus Nob	w MaxDB								
	Lotus	» Notes Database iDataAge Notes Document iDataAge o Mailbox Archiver Agent	nt nt							
	Domin 	o Malbox Archiver Agent idules								
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	,									
		0	< Back Next >	Save As Script Finish						
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		e Services (if required)								
		that are already part of	the CommCell component							
	Advanced Op	ations								
		kages After Install								
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		ions for other users								
	Ignore Clie	nt/Host Name Conflict								
		nts For Restore Only								
	Optional Set	ings								

CVD Port

Install Director

Enter Account Information

and

The specified account should have root level access and SSH login pr multiple clients, the user should have access to all clients.

Example:username(root or Administrator)

ancel Help

Cancel Help

Cancel Help

8400 +

< Back Next > Save As Script Finish Cancel Help

Quick Start - Solaris File System iDataAgent

Click Next.

12. Click Finish.

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

Please Select When To Run The Job	
Please select when to Run the Job	
Job Initiation	
(Immediate	
Run this job now	
Point dies job norm	
🔘 Schedule	
Configure Schedule Pattern Configure	
<back (next="">) Save As Script Finish Cancel Help</back>	
	'
Installer	X
Summary	
Please verify all the selected options and click Finish to schedule the job or click Save As Soript to save the job options as a script.	
Select Type Of Installation: Only and Linux Select Type Of Client Discovery: Manually select computers	
Reuse Active Directory credentials: No Client Authentication for Job	
User Name: ass Password: ****	
Passwort: """ Install Flags	
Install Updates: Yes Reboot (if required): No	
Kill Browser Processes (if required): No	
Ignore Running Jobs: No Stop Oracle Services (if required): No	
Skip clients that are already part of the CommCell component: No Delete Packages After Install: Yes	
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Getting Started - Solaris File System - Deploying in a Non-Global Zone

< Previous Next >

SKIP THIS PAGE IF YOU ARE NOT INSTALLING THIS AGENT ON A NON-GLOBAL ZONE.

Click Next > to continue with the deployment.

Use the following steps to install the File System iDataAgent on a Non Global Zone.

WHERE TO INSTALL

Install the software directly on the computer that you wish to protect on a Non-Global Zone.

It is recommended to install the software on the global zone to protect non-changing or static data on non-global zones. If the data is dynamic or contains application data, install the software on the non-global zone.

Make sure the computer 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. Mount the installation package on the non-global zone.

 ${\tt mkdir < Non-Global \ Zone \ root \ location > / < Non-Global \ Zone \ local \ directory > }$

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.

RELATED TOPICS

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

System Requirements

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

Firewall

Provides comprehensive information on firewall.

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

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

1) Install data protection agents on this computer

2) Advance options

3) Exit this menu

Your choice: [1]

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) 32 bit

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

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

interface name and continue.

Press Enter.

as default, and then press Enter.

7. Press Enter.

8.

9.

2) 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 angel

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

[] 1) MediaAgent [1301] [CVGxMA]

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

[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:2

Install Calypso on physical machine angel

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

[] 1) MediaAgent [1301] [CVGxMA]

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

[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>

Do you want to use the agents for restore only without consuming licenses? $\left[\text{no} \right]$

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 $% \left({{{\boldsymbol{x}}_{i}}} \right)$

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

10. Type the number associated with the Unix File System *i*DataAgent and press Enter.

If you have only one network interface, press $\ensuremath{\textbf{Enter}}$ to accept the default network

If you have multiple network interfaces, enter the interface name that you wish to use

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

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.

It is recommended to download the latest Service pack(s). Type **Yes** and press **Enter** to automatically install the available updates during

provider website. installation. 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 15. Press Enter to accept the default path. binaries. • If you want to specify a different path, type the path and then press Enter. It must be a local directory and there should be at least ITOMB 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". • 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 read/write access to NFS Installation Directory: [/opt] 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: !@#\$%^&*():/?\ Press Enter to accept the default location. Please specify where you want to keep Calypso log files. 16. 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 • 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. "/var/log/calypso/Log_Files". Log Directory: [/var/log] Please enter the name of the group which will be assigned 17. Type a network TCP port number for the Communications Service (CVD) and press to all Software files and on behalf of which all Software Enter. processes will run. Type a network TCP port number for the Client Event Manager Service (EvMgrC) and In most of the cases it's a good idea to create a press Enter. dedicated "calypso" group. However, if you're planning to use Oracle iDataAgent or SAP Agent, you should enter Oracle's "dba" group here. Group name: skyl REMINDER If you are planning to install Calypso Informix, DB2, PostgreSQL, Sybase or Lotus Notes iDataAgent, please make "skyl". Press <ENTER> to continue ... Most of Software processes run with root privileges, but 18. Type **Yes** and press **Enter**. some are launched by databases and inherit database access rights. To make sure that registry and log files can be written to by both kinds of processes we can either make such files world-writeable or we can grant write access only to processes belonging to a particular group, e.g. a "calypso" or a "dba" group. We highly recommend now that you create a new user group and enter its name in the next setup screen. If you choose not to assign a dedicated group to Software processes, you will need to specify the access permissions later. If you're planning to backup Oracle DB you should use "dba" group. Would you like to assign a specific group to Software? [yes] 19. Type the Group name and press Enter. Please enter the name of the group which will be assigned to all Software files and on behalf of which all Software Press Enter again. processes will run. In most of the cases it's a good idea to create a dedicated "calypso" group. However, if you're planning to use Oracle iDataAgent or SAP Agent, you should enter Oracle's "dba" group here. Group name: skyl REMINDER If you are planning to install Calypso Informix, DB2, PostgreSQL, Sybase or Lotus Notes iDataAgent, please make sure to include Informix, DB2, etc. users into group "sky1". Press <ENTER> to continue ...

Number of Streams

You can type the **Number of Streams** that you plan to run at the same time and then press **Enter**.

Press Enter to accept the default value for Number of Streams.

20.

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 22.

23.

24.

25.

26.

27.

28.

Press Enter.

above step.

Press Enter.

in step 21.

Enter.

press Enter.

Press Enter.

and shared memory segments configured in /etc/system.

Number of streams [10]

21. Press Enter if you do not want to apply the changes now.

- If you want to apply the changes now, type Yes and then press Enter.
- You will come across this prompt when you install the software on the earlier versions of Solaris.

You will see this message if you have accepted the default answer and pressed Enter

Type a network TCP port number for the Communications Service (CVD) and press

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

If this computer is separated from the CommServe by firewall(s), type

For firewall options and configuration instructions, see Firewall

Ensure that the CommServe is accessible before typing the name;

Enter the number associated with the storage policy you want use and press Enter.

If you do not wish to configure the firewall services, press Enter.

Configuration and continue with the installation.

Type the fully qualified CommServe host name and press **Enter**.

Yes and then press Enter.

otherwise the installation will fail.

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 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 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_semmni=8570 (was 7930)
set semsys:seminfo_semmsl=8570(was 7930)
Do you want us to apply these changes now? [no]

Changes saved into /etc/system.gal.1744

You will see this prompt if you have accepted the default **no** and pressed **Enter** in the Press <ENTER> to continue.

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').

set shmsys:shminfo_shmmax=4199304
set shmsys:shminfo_shmmin=1
set semsys:shminfo_shmmai=640
set semsys:seminfo_semmas=640
set semsys:seminfo_semmas=640
set semsys:seminfo_semmas=640
set maxusers=256
Press <ENTER> to continue.

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

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

Please enter the port numbers.

Port Number for CVD : [8400]

Port Number for EvMgrC: [8402]

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

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

CommServe Host Name: mycommserve.company.com

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

1) Use Cell level policy

2) Always use Global filters

3) Do not use Global filters

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

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.

There seem to be no Storage Policies configured on the CommServe. Before you can run any backups of this IDA, you

You may not be prompted for user input.

You can create the Storage Policy later in step 30.

Type 3 to the Exit option and press Enter.
 The installation is now complete.

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

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

Currently you have Calypso installed on physical node 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: [3]



30.

If you already have a storage policy selected in step 28, proceed to the Configuration section.

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

- 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.
 - 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.

METHOD 2: INSTALL SOFTWARE FROM COMMCELL CONSOLE

For sudo users, Service Pack 4B (or higher) must be available in the CommServe cache before performing the install. See Configure Download Software for step-by-step instruction on downloading the latest software or updates.

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



2. Click Next.

3. Select **Unix and Linux**, and then click **Next**.

4. Select Manually Select Computers ,and then click Next.

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5. Enter the fully qualified domain name of the computer in which you wish to install. For example: apple.domain.company.com

The **Unix File System** *i***DataAgent** will be installed on this client computer. Click **Next**. 6. Click Next.

7. Type the User Name and Password of client computer who has administrator or sudo privileges.

Click Next.

- If a SUDO user has been created for root access then use visudo to change /etc/sudoers, so that this user can SUDO into ssh without being prompted for the password. Change the /etc/sudoers by commenting the following lines.
- For Sudo users with restricted privileges, in order to gain privilege to install the software remotely, you need to have **/bin/sh** added to the permission section in the sudoers file.

On SuSE Linux:

- Defaults targetpw # ask for the password of the target user i.e. root
- ALL ALL=(ALL) ALL # WARNING! Only use this together with 'Defaults targetpw'!

On Red Hat Enterprise Linux/CentOS:

• Defaults requiretty

8. Select Unix File System iDataAgent.

Click Next.



9.	•	Select	Client	Group	from	Available	and	click	Add.
----	---	--------	--------	-------	------	-----------	-----	-------	------

apple.domain.company.com	Import from File
approvement in company, room	
	Import From Active Directory
	Select from existing clients
< Back Next > Save As Script	Finish Cancel Help
E Bark E Bark vs Souhr	Calcel
lastellas	
Installer	×
Select Software Cache	
To use current Client or Client Group Software Cache settings, click Next. 1 Override Software Cache and select the Software Cache to be used.	To override Software Cache settings check
Override Software Cache	
Software Cache: murphy.domain.company.com	<u> </u>
< Back Next > Save As Scrip	t Finish Cancel Help
Installer	
Enter Account Information	
The specified account should have root level access and SSH i	ogin permission. If you are installing
The specified account should have root level access and SSH multiple clients, the user should have access to all clients.	
Reuse Active Directory credentials	
User Name: root Example:username(root or A	dministrator)
Password:	
Confirm Password:	
<back next=""> Save As Script</back>	Finish Cancel Help

Installer

Enter the host names of the computers

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. Click Next.

11. Select Immediate. Click Next.

12. Click Finish.

Installer	
Enter Recommended Settings for the selected Software	
Recommended Settings	
Client Groups	
Available: Selected:	
Laptop Add >	
Laptop Group	
Labop_group	
Add All >>	
< <remove all<="" th=""></remove>	
Global Filters Use Cell level policy	
Use can ever poky	
Configure For Laptop Backups	
Storage Policy to use	
Subclent Policy to use	
< Back Next > Sove As Script Finish Cancel Help	
Installer 🛛	
Enter Additional Install Options	
a provide a spectra a	
🕤 Installer Flags	
Instal Updates	
Reboot (Frequired)	
Kill Browser Processes (if required)	
Ignore Running Jobs	
Stop Oracle Services (if required)	
Skip clents that are already part of the CommCell component	
Advanced Options	
Delete Packages After Install	
Listen only on the network interface used as hostname	
Do not load WA driver in to kernel this time	
Number Of Streams	
Unix Group	
Access permissions for other users	
Ignore Client/Host Name Conflict	
Install Agents For Restore Only	
Optional Settings	
G Job Result Directory	
Path	
CYD Port BH00	
Evengre Port 8402	
Install Directory	
CommServe Host Name	
< Back Next > Save As Script Finish Cancel Help	
Installer 🛛	
Please Select When To Run The Job	
Job Initiation	
() Immediate	
Run this job now	
O Schedule	
Configure Schedule Pattern Configure	
1	
<back (next="">) Save As Script Finish Cancel Help</back>	

- Summary

 Base only life his stands group and did Prach to schools the play or did Save A6 Stopt to save the play optimum of the school group and did Prach to schools the play or did Save A6 Stopt to save the play optimum of the school group and the school group of Override Software Cache: No Select Type Of Installation: Copy packages to remote machine Components Selected Components To Install: UNIX File System iDataAgent <Back Next > Save As Script Phish Cancel Help iler ×
 Aub Controller ×

 Aub Controller

 In. Job ID

 Operation
 Clerk Co... Agent Type Subclerk 3bb Typer ¹ Phase Storage ... Media/gent Status Progress Dirors K
 H Passe Playing Purnin
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 20 20 20 0010/200 000 Computer Event Code Der 0 08/31/2010 11:45:07 CVD 08/31/2010 11:45:07 CVD 08/31/2010 11:45:07 CVD 08/31/2010 11:41:39 EvMar5 4:345 4:345 35:254 Installation of [Wrbaal Server -Installation of [Windows File S User [odwin] has logged on. 226 225 224 apple apple apple II Pause Floring Information, Neor, Hajor, Critical, Maximum events shows: 200 Previous Next >
- **13.** You can track the progress of the job from the **Job Controller** or **Event Viewer** window.

Getting Started - Solaris File System - Deployment on a Cluster

Previous Next >

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

Click Next > to continue with the deployment.

WHERE TO INSTALL

Install the software from the active node in the cluster group. Make sure the cluster group satisfies the minimum requirements specified in the System Requirements.

Follow the steps given below to install the File System iDataAgent in a Clustered Environment.

BEFORE YOU BEGIN

Download Software Packages

Download the latest software package to perform the install.

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

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.

 If you are installing the software from CD, run the following command to mount the CD:

mount -r -F hsfs /dev/sr0 /cdrom

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

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

- ./cvpkgadd
- 3. The product banner and other information is displayed.

Press Enter.

4. Read the license agreement. Type **y** and press **Enter**.

If your computer is 32-bit, 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.

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 "fail-over" from one server to another, which includes stopping services and deactivating IP address on the first server and activating the IP address/services on the other server.

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

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

1) Install on a physical machine

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

7. Press Enter.

procedure.

6.

8.	If you have only one network interface, press Enter to accept the default network	Physical Machine Host Name
	interface name and continue.	Network interfaces with the following IPs have been found
	If you have multiple network interfaces, enter the interface name that you wish to use as default, and then press Enter .	available on your system. One of these interfaces should be associated with the physical machine being installed. It will also be used by the CommServe to initiate
	The interface names and IP addresses depend on the computer in which the software is installed and may be different from the example shown.	connections 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 Simpana Java GUI.
		Please select the correct network interface below.
		1) angel.company.com
		2) abc.company.com
		Interface number: [1]
9.	Press Enter.	Physical Machine Host Name
		Please verify the physical machine interface name below. Make it as complete (with fully qualified domain name) as possible.Physical Machine Host Name: [angel.company.com]
10.	Press Enter.	Please specify the client name for this machine.
		It does not have to be the network host name: you can enter any word here without spaces. The only requirement is that it must be unique on the CommServe.
		Physical Machine Client name: [angel]
11.	Type the number associated with the Unix File System iDataAgent and press	Install Calypso on physical machine angel
	Enter.	Please select the Calypso module(s) that you would like to install.
		[] 1) MediaAgent [1301] [CVGxMA]
		[] 2) UNIX File System iDataAgent [1101] [CVGxIDA]
		[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:2</pre>
12.	A confirmation screen will mark your choice with an "X".	Install Calypso on physical machine angel
	Type d for Done , and press Enter .	Please select the Calypso module(s) that you would like to install.
		[] 1) MediaAgent [1301] [CVGxMA]
		[X] 2) UNIX File System iDataAgent [1101] [CVGxIDA]
		<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>
13.	Press Enter .	Do you want to use the agents for restore only without consuming licenses? [no]
14.	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
	 Select Download from the software provider website to download the latest software scripts. Make sure you have internet access. 	specify how you want to get this pack.
	 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. 	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.
	 Select Use the copy I already have by entering its unix path, to 	1) Download from the software provider website.
	specify the path if you have the software script in an alternate	2) Use the one in the installation media
	location.	3) Use the copy I already have by entering its unix path
		Your choice: [1] 2
15.	Press Enter.	Keep Your Install Up to Date - Latest Service Pack
	It is recommended to download the latest Service pack(s). Type Yes and press Enter to automatically install the available updates during installation.	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]
16.	Press Enter to accept the default path.	Please specify where you want us to install Calypso binaries.
	• If you want to specify a different path, type the path and then press Enter .	It must be a local directory and there should be at least 176MB of free space available. All files will be installed

Your choice: [1]

• 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 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:

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

17. Press **Enter** to accept the default location.

Type the Group name and press Enter.

time and then press Enter.

earlier versions of Solaris.

Press Enter to accept the default value for Number of Streams.

Press Enter if you do not want to apply the changes now.

You can type the Number of Streams that you plan to run at the same

• If you want to apply the changes now, type **Yes** and then press **Enter**.

• You will come across this prompt when you install the software on the

- 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.

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]

18. Type Yes and press Enter.

Press Enter again.

19.

20.

21.

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 "dba" group.

We highly recommend now that you create a new user group and enter its name in the next setup screen. If you choose not to assign a dedicated group to Software processes, you will need to specify the access permissions later.

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

Group name: skyl

REMINDER

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

Press <ENTER> to continue ...

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 time. We need to make sure that you have enough semaphores and shared memory segments configured in /etc/system.

Number of streams [10]

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 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 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_semmni=8570 (was 9680)
set semsys:seminfo_semmni=8570 (was 7930)
Do you want us to apply these changes now? [no]

Changes saved into /etc/system.gal.1744

22. Press Enter.

You will see this prompt if you have accepted the default **no** and pressed **Enter** in the Press <ENTER> to continue. above step.

23.	Press Enter . You will see this message if you have accepted the default answer 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_shmmni=640 set semsys:seminfo_shmmn=640 set semsys:seminfo_semmni=640 set semsys:seminfo_semmni=640 set maxusers=256 Press <enter> to continue.</enter></pre>
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 . Ensure that the CommServe is accessible before typing the name;	Please specify hostname of the CommServe below. Make sure the hostname is fully qualified, resolvable by the name services configured on this machine.
	otherwise the installation will fail.	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 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 appropriate number to select the Client Group and press Enter . This screen will be displayed only if Client Groups are configured for the CommCell	Client Group(s) is currently configured on CommServe mycommserve.company.com. Please choose the group(s) that you want to add this client angel.company.com to. The selected group(s) will be marked (X) and can be deselected if you enter the same number again. After you are finished with the selection, select "Done with the Selection".
		[] 1) Unix
		[] 2) DR
		[a=all n=none r=reverse q=quit d=done >=next <=previous ? =help]s
		<pre>Enter number(s)/one of "a,n,r,q,d,>,<,?" here: 2</pre>
29.	A confirmation screen will mark your choice with an " X ". Type d for Done , 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. The selected group(s) will be marked (X) and can be deselected if you enter the same number again. After you are finished with
		the selection, select "Done with the Selection".
		[] 1) Unix
		[X] 2) DR
		[a=all n=none r=reverse q=quit d=done >=next <=previous ? =help]s
		<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 41.	Adjusting modes and permissions of files
		Successfully installed Calypso
31.	Type 2 to install Unix File System <i>i</i> DataAgent on a Virtual machine , and press	Cluster Support
51.	Enter.	Certain Calypso packages can be associated with a virtual IP, or in other words, installed on a "virtual machine" belonging to some cluster. At any given time the virtual machine's services and IP address are active on only one of the cluster's servers. The virtual machine can "fail- over" from one server to another, which includes stopping services and deactivating IP address on the first server and activating the IP address/services on the other server.
		Currently you have Calypso installed on physical node 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
	TC	Your choice: [2]
32.	If you have only one network interface, press Enter to accept the default network interface name and continue.	Virtual Machine Host Name Please enter the hostname or IP address of the virtual
	If you have multiple network interfaces, enter the interface name that you wish to use as default, and then press Enter .	machine being installed. It can be either short or long:
	The interface names and IP addresses depend on the computer in which the software is installed and may be different from the example shown.	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.
		The name to be entered will be used by certain Calypso CommServe to talk to this
		virtual machine. Datapipe Interface Pairs used for the backup data traffic can be customized later in the Calypso Java GUI.
		If you got into this screen by mistake, hit ^C and restart $\ensuremath{\text{cvpkgadd}}$.
		Virtual Machine Host Name: docm.company.com
33.	Type the Virtual Machine Client Name, and 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: [docm]
34.	Type the number associated with the Unix File System iDataAgent and press Enter.	Install Calypso on virtual machine docm
	Litter	Please select the Calypso module(s) that you would like to install.
		[] 1) MediaAgent [1301] [CVGxMA]
		[] 2) UNIX File System iDataAgent [1101] [CVGxIDA]
		>) >>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>
		[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:2</pre>
35.	A confirmation screen will mark your choice with an "X".	Install Calypso on virtual machine docm
	Type d for Done , and press Enter .	Please select the Calypso module(s) that you would like to install.
		[] 1) MediaAgent [1301] [CVGxMA]
		<pre>[x] 2) UNIX File System iDataAgent [1101] [CVGxIDA]</pre>
		>) >>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>
		=help] Enter number (a) (one of "a p r g d) $\langle 2$ " here d
		<pre>Enter number(s)/one of "a,n,r,q,d,>,<,?" here:d</pre>

36.	Press Enter .	Do you want to use the agents for restore only without consuming licenses? [no]
37.	Specify the path for the Job Results directory, and press Enter	Calypso Job Results Directory Please specify the name for the JobResults directory.Since you are installing Calypso
	If Job Results directory does not exist, it prompts you to create it. Type \mathbf{Yes} to create it.	on a virtual machine, the JobResults directory must reside on a shared disk and should have at least 20MB of free space available. The directory will be used to store intermediate data that should be passed from one backup phase to another.
		JobResults Directory:
38.	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 as shown in step 41.	Adjusting modes and permissions of files
		Successfully installed Calypso
20		Calypso is currently configured on the following
39.	Type 4 to the Exit option and press Enter .	virtual/physical machines.
	The installation is now complete.	Now you have an option of either installing certain Calypso on another virtual machine
		or adding a new package to the existing installations.1) Add a new package to PM angle(angel.mycompany.com)
		2) Add a new package to VM docm (docm.mycompany.com)
		3) Install Calypsopackages on a new virtual machine
		4) Exit this menu
		Your choice: [1] 4
40.	Type 3 to the Exit option, and press Enter .	Install a new Instance?
		Calypso now supports the concept of instances, each of which can be installed to a separate CommServe and be totally independent of others. Instances are not the same as the virtual machines on a cluster, in fact, you will be given a choice to configure one or more virtual machines later. Contrary to previous releases of Calypso (6.1 and older), all virtual machines installed on the same host now share the same set of binaries and the same set of services.
		Instances, on the other hand, have unique set of binaries and services and one situation where it is useful is when you want to back up the same host to several CommServes.
		You already have one instance configured.
		 Add agents to existing Instance001 going to CS mycommserve.company.com
		2) Create a new instance of Calypso
		3) Exit this menu
		Your choice: 3
CHOICE	If you already selected a storage policy in step 30, proceed to the Configuration section.	
	If you do not have Storage Policy created, follow the procedure given below.	
41.	1 From the CommColl Provisor, pavigate to Palisian	apple Committel Comple
	From the CommCell Browser, navigate to Policies . Bight click the Sterner Policies and then click New Sterner Policy	Image: Strange Parkets Image: Strange Parkets Image: Strange Parkets
	 Right-click the Storage Policies and then click New Storage Policy. Follow the ground disclosed in the Storage Policy. Winned The ground action of the storage Policy. 	to description to description to description to be description to

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

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



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

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

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

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Getting Started - Solaris File System - Deployment on a Veritas Cluster

< Previous Next >

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

Click Next > to begin Configuration

WHERE TO INSTALL

Install the software on the Solaris computer where you have application data and is part of Veritas Cluster.

Follow the steps given below to install the File System *i*DataAgent in a Veritas Clustered Environment.

RELATED TOPICS

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

System Requirements

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

Firewall

Provides comprehensive information on firewall.

INSTALLING THE SOLARIS FILE SYSTEM IDATAAGENT - VERITAS CLUSTERED ENVIRONMENT

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. If you are installing the software from CD, run the following command to mount the CD:

mount -r -F hsfs /dev/sr0 /cdrom

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

Type the number associated with the Veritas Cluster Agents and press Enter.

./cvpkgadd

- The product banner and other information is displayed. Press Enter.
- 4. Read the license agreement. Type **y** and press **Enter**.
- 5. Type 2 and press Enter.

6.

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

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

1) Install data protection agents on this computer

2) Advance options

3) Exit this menu

Your choice: [1]

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

```
[Record and Play]
1) Create a recording of user selections (Record Mode
2) Play a recorded install on this computer
[Custom Package Creator]
3) Create a custom install package
[De-coupled Installer]
4) Pre-install software Components [De-couple Mode]
[Integrated File Archiver]
5) File System iDataAgent with Archiving Enabler
[Customized Cluster Agents]
6) Veritas Cluster Agents
[Third Party Connector]
7) Symantec NetBackup Agent
8) NetApp Snap Manager for Oracle
9) NetApp Snap Manager for SAP/Oracle
[Done]
10) Exit this menu
Your choice: [1] 6
```

This machine supports both 32 bit and 64 bit binaries. By

Please note that 64 bit binary set currently only support

default, we will install 32 bit binary set that has full support for all the modules included in this package.

- 7. Enter the number corresponding to the binaries that you wish to install.
 - Select 32 bit when installing on a 32-bit computer.
 - When installing on a 64-bit computer, if this is the first package, determine whether you want to install 32-bit binaries or 64 bit

1) All platforms (32 bit)

limited modules.

	binarios	2) FS and MA only (64 bit)
	binaries. 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.	Your choice: [1] >>> User answer was "1"
	Note that when the first component is installed using 64-bit binaries, you cannot subsequently install another component using 32-bit. (Or vice-versa.)	
8.	Type the number corresponding to the VCS service group and press Enter .	Please select one service group from the list below: 1) AIXVCS 2) ClusterService Service Group: [1]
9.	Type 2 and press Enter .	Please select physical or virtual machine to install: 1) Install Calypso on a physical machine ibmaix21 2) Install Calypso on a virtual machine AIXVCS 3) Exit this menu Your choice: [1] >>> User answer was "2"
10.	Type appropriate number to select client host name and press Enter .	Please select the client hostname or IP address below. 1) aix61cluster.mydomain.mycompany.com Interface number: [1] >>> User answer was "1".
11.	Type the number associated with the Unix File System <i>i</i>DataAgent and press Enter .	<pre>Install Calypso on physical machine client.company.com Select the Calypso module that you would like to install [] 1) Media Agent [1301] [CVGxMA] [] 2) UNIX FileSystem iDataAgent [1101] [CVGxIDA]</pre>
12.	A confirmation screen will mark your choice with an "X".	Install Calypso on physical machine client.company.com
	Type d for Done , and press Enter .	<pre>Select the Calypso module that you would like to install [] 1) Media Agent [1301] [CVGxMA] [X] 2) UNIX FileSystem iDataAgent [1101] [CVGxIDA] >) >>>> NEXT PAGE >>>>> [a=all n=none r=reverse q=quit d=done >=next <=previous ? =help] Enter number(s)/one of "a,n,r,q,d,>,<,?" here: d</pre>
13.	Press Enter.	Do you want to use the agents for restore only without consuming licenses? [no]
14.	 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. 	 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. Download from the software provider website. Use the one in the installation media Use the copy I already have by entering its unix path Your choice: [1] 2
15.	Press Enter.	Keep Your Install Up to Date - Latest Service Pack Latest Service Pack provides extra functions and latest

It is recommended to download the latest Service pack(s). Type **Yes** and press **Enter** to automatically install the available updates during installation.

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

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

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

Press Enter to 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 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:

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

Press Enter to accept the default location. 17.

- 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.

18. Type Yes and press Enter.

19. Type the Group name and press Enter.

Press Enter again.

Press Enter to accept the default value for Number of Streams. 20.

> You can type the **Number of Streams** that you plan to run at the same time and then press Enter.

- 21. Press Enter if you do not want to apply the changes now.
 - If you want to apply the changes now, type Yes and then press Enter.
 - · You will come across this prompt when you install the software on the earlier versions of Solaris.

22. Press Enter.

> You will see this prompt if you have accepted the default no and pressed Enter in the Press <ENTER> to continue. above step.

23. Press Enter.

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 It must be a local directory and there should be at leasy 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 "dba" group.

We highly recommend now that you create a new user group and enter its name in the next setup screen. If you choose not to assign a dedicated group to Software processes, you will need to specify the access permissions later.

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

Group name: skyl

REMINDER

If you are planning to install Calypso Informix, DB2, PostgreSQL, Sybase or Lotus Notes iDataAgent, please make sure to include Informix, DB2, etc. users into group "sky1".

Press <ENTER> to continue ...

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 time. We need to make sure that you have enough semaphores and shared memory segments configured in $/{\tt etc}/{\tt system}.$

Number of streams [10]

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 Calypso programs. Please review the changes below and answer "yes" if you want us to apply them to answer "yes" if you want us to apply them to the /tc/system file. Otherwise, the installation will 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_semmsl=8570 (was 7930) Do you want us to apply these changes now? [no]

Changes saved into /etc/system.gal.1744

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 You will see this message if you have accepted the default no and pressed Enter in the backups may fail (the message in logs is 'could not step 20. start the pipeline'). set shmsys:shminfo_shmmax=4199304
set shmsys:shminfo_shmmin=1 set semsys:shminfo_shmnni=640
set semsys:shminfo_shmseg=640
set semsys:seminfo_semms=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 24. 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] If you do not wish to configure the firewall services, press Enter. Is there a firewall between this client and the CommServe? 25. [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. Please specify hostname of the CommServe below. Make sure 26. Type the fully qualified CommServe host name and press Enter. the hostname is fully qualified, resolvable by the name services configured on this machine. Ensure that the CommServe is accessible before typing the name; otherwise the installation will fail. CommServe Host Name: mycommserve.company.com 27. Specify the path for the Job Results directory, and press Enter Please specify the name for the JobResults directory. Since you are installing Calypso on a virtual machine, the JobResults directory must reside on a shared disk and If Job Results directory does not exist, it prompts you to create it. Type Yes to create it. should have at least 20MB of free space available. The directory will be used to store intermediate data that should be passed from one backup phase to another. JobResults Directory: Commcell Level Global Filters are set through Calypso 28 Type the appropriate number to select the **Client Group** and 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 This screen will be displayed only if Client Groups are configured for the CommCell default subclient. There are three options you can choose to set the filters. 1) Use Cell level policy 2) Always use Global filters 3) Do not use Global filters Please select how to set the Global Filters for the default subclient? [1] Client Group(s) is currently configured on CommServe cs.company.com. Please choose the group(s) that you want 29. A confirmation screen will mark your choice with an "X". to add this client client.company.com to. The selected Type d for Done, and press Enter. group(s) will be marked (X) and can be deselected if you enter the same number again. After you are finished with This screen will be displayed only if Client Groups are configured for the the selection, select "Done with the Selection". CommCell. [] 1) Unix [] 2) DR [] 3) DKS [a=all n=none r=reverse q=quit d=done >=next <=previous ? =help] Enter number(s)/one of "a,n,r,q,d,>,<,?" here: 2</pre> Enter the number corresponding to the storage policy through which you want to back Please select one storage policy for this IDA from the 30. up the File System iDataAgent and then press Enter. list below: 1) SP_StandAloneLibrary2_2 SP_Library3_3
 SP_MagLibrary4_4 4) fornax_fornax_HWCmp
5) ranger_ranger_HWCmp
6) fornax_fornax_ClntCmp 7) fornax_fornax_MACmp
8) fornax_fornax_NoCmp

Storage Policy: [1]

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

There seem to be no Storage Policies configured on the

You may not be prompted for user input.

You can create the Storage Policy later in step 32.

31. Type 3 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

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.

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

2) Install Calypso on a virtual machine

3) Exit

Your choice: [1]



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

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

32.



- 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.
 - 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.



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Getting Started - Solaris File System Configuration

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CONFIGURATION

1.

2.

з.

Once installed, follow the steps given below to assign a storage policy with the default subclient.

- From the CommCell Browser, navigate to Client Computers | <Client> | File System | defaultBackupSet.
 - Right-click the default subclient and then click Properties.

In the Storage Policy box, select a Storage Policy name.





1. Click Create Storage Policy.

• Click the Storage Device tab.

Click Next > to continue.

• Click OK.

storage policy.

2. Follow the prompts displayed in the Storage Policy Wizard. The required options are mentioned below:

If you do not have Storage Policy created, follow the step given below to create a

- Select the Storage Policy type as Data Protection and Archiving and click Next.
- Enter the name in the Storage Policy Name box and click Next.
- From the **Library** list, click the name of a disk library to which the primary copy should be associated and then click **Next**.

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

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

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

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

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Getting Started - Solaris File System Backup

WHAT GETS BACKED UP	WHAT DOES NOT GET BACKED UP
FILE SYSTEMS	By default, the following file systems are automatically skipped during backups:
Unix File System (UFS)	• nfs
VERITAS File System (VxFS)	• hsfs
VERITAS Cluster File System (VxCFS)	 autofs mvfs
Zettabyte File System (ZFS)	 lofs
Extended attributes in the VxFS, UFS, and ZFS file systems	• tmpfs
In a zone environment, Loopback File System (LOFS) is backed up by default. If you do not want to backup LOFS file system, you can exclude it by Configuring Filters For Backups.	procctfs
VOLUME MANAGERS	
Veritas Volume Manager (VxVM) 5.0 or higher	
Solaris Volume Manager (SVM)	
FILE SYSTEM ELEMENTS	Files with mandatory locks - these files are not backed up by default. See Configuring Backups For Locked Files to backup files with mandatory locks.
Files with holes	Files for which the file path or file name contains more than 1024 characters
Files with Advisory Locks	
Raw device files	
Symbolic links that are browsed or manually added to the data contents	
Files with names containing non-ASCII characters as long as the appropriate locales are set	
Shares with Macintosh File System data	

PERFORM A BACKUP

Once the storage policy is configured, you are ready to perform your first backup.

The following section provides step-by-step instructions for performing your first backup:

- 1. From the CommCell Browser, navigate to Client Computers | <*Client*> | File System | defaultBackupSet.
 - Right-click the default subclient and click Backup.



• Click OK.



(Previous) Next >)

- **3.** You can track the progress of the job from the **Job Controller** window of the CommCell console.
- 4. Once the job is complete, view the job details from the **Backup History**. Right-click the **Subclient** and select **Backup History**.

5. Click **OK**.

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



Getting Started - Solaris File System Restore

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PERFORM A RESTORE

It is recommended that you perform a restore operation immediately after your first full backup to understand the process. The following section explains how to restore the **etc** folder to a new location.

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

- з.
- Expand the **defaultBackupSet** and navigate to **etc** folder.
- Select the etc folder.
- Click Recover All Selected.
- 4.

5.

Clear the **Overwrite Files** and **Restore to same folder** options.
Specify the destination path by clicking **Browse** button.

This will ensure that the existing files are not overwritten.

• Click OK.

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	Browse Backup Data)6
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Browse Options	
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- Click the Job Initiation tab.
 - Select Immediate to run the job immediately.
 - Click OK.

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

8. Click OK.

- 9. You can view the following details about the job by right-clicking the job: • View Restore Items
 - You can view them as Successful, Failed, Skipped or All.
 - View Job Details
 - View Events of the restore job.
 - View Log files of the restore job
- Once the File System is restored, verify that the restored files/folders are available in [parc02] # 1s /.metacity 10. the restore destination provided during step 4.

etc

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

Restore Options for All Selected Items
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Quick Start - Solaris File System iDataAgent

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

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