Quick Start Guide - Sybase iDataAgent

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Overview - Sybase iDataAgent

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Introduction

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Terminology

INTRODUCTION

The Sybase iDataAgent provides an unique, simplified end-to-end backup and recovery solution for Sybase system and user databases in your enterprise. In addition to complete protection of the system databases which contain user database characteristics, file locations etc., it also provides more granular backup and recovery of your enterprise's data, related administration files and transaction logs.

KEY FEATURES

FULL RANGE OF BACKUP AND RECOVERY OPTIONS

The Sybase iDataAgent provides the flexibility to backup the Sybase server which consists of system and user databases in different environments. This is very essential since the Sybase system and user databases are always subject to constant changes.

You can perform a full or transaction log backup of the entire Sybase Server at any point of time. The following section describes the backups that can be performed in different environments.

DATABASE BACKUPS

You can backup both the system and user-defined databases. You can comprehensively backup all the databases in an instance or schedule backups for the individual databases. You can also auto-discover new databases to comprehensively manage the backup of all databases in your environment.

TRANSACTION LOG BACKUPS

You also have the facility to backup only the transaction logs when the database is online. These logs can be applied to an online backup and recover the database to the current point-in-time. A transaction log backup contains only the new changes since the full or another transaction log backup. Each time a transaction log is backed up it is truncated to the exact time of the backup. No checkpoint is issued at

Storage Device

this time, therefore dirty pages are not written to disk before or after a transaction log backup. Any transactions that are not completed at the time a transaction log backup is performed are rolled back during a restore involving a transaction log backup.

TRANSACTION LOG BACKUP OF A DAMAGED DATABASE

If a database fails and any data is lost, you will want to restore it to the point of failure. Sybase iDataAgent allows you to capture all transaction log events that occurred after the last backup job was performed.

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

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 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

Install the Sybase iDataAgent

WHERE TO GO NEXT

Walks you through the process of installing the Sybase iDataAgent.

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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.

TERMINOLOGY

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

CLIENT	The computer in which the <i>i</i> DataAgent is installed and contains the data to be secured.	
INSTANCE	The Sybase Server to be used for the backup and restore operations.	
SUBCLIENT	The Sybase databases to be backed up.	
DEVICE	A physical storage locations in a disk such as a partition that is dedicated to holding the Sybase database.	

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System Requirements - Sybase *i*DataAgent

System Requirements | Supported Features

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

APPLICA	TION/OPERATING SYSTEM	PROCESSOR
SYBASE A	SE 15.7 64-BIT ON:	
AIX	AIX 7.1	Power PC (Includes IBM System p)
	AIX 6.1	Power PC (Includes IBM System p)
HP-UX	HP-UX 11i v3 (11.31)	Itanium
	HP-UX 11i v3 (11.31)	PA-RISC
LINUX	RED HAT ENTERPRISE LINUX	
	Red Hat Enterprise Linux 5.5, 5.6, 5.7 and 5.8	
	RED HAT ENTERPRISE LINUX/CENTOS	
	Red Hat Enterprise Linux/CentOS 6.x	x64
	SUSE LINUX (SLES)	
	SuSE Linux 11.x with glibc 2.9.x and above	Intel Pentium, Itanium, x64 or compatible processors
SOLARIS	Solaris 9 with a minimum of Service Packs 111711-16, 117560-06 and 111722-05	Sparc5 or higher recommended
	Solaris 10.x	x64
WINDOWS	WINDOWS 2008	
	Microsoft Windows Server 2008 R2 Editions	All Windows-compatible processors supported
SYBASE A	SE 15.7 32-BIT ON:	
WINDOWS	WINDOWS 2008	
	Microsoft Windows Server 2008 R2 Editions	All Windows-compatible processors supported
SYBASE A	SE 15.5 64-BIT ON:	
AIX	AIX 7.1	Power PC (Includes IBM System p)
	AIX 6.1	Power PC (Includes IBM System p)
	AIX 5.3 with technology level 6 (or higher) and runtime library xlC.rte 8.0.0.0 or higher	Power PC (Includes IBM System p)
HP-UX	HP-UX 11i v3 (11.31)	Itanium
	HP-UX 11i v3 (11.31)	PA-RISC
	HP-UX 11i v2 (11.23)	PA-RISC
	HP-UX 11i v2 (11.23)	Itanium
.INUX	RED HAT ENTERPRISE LINUX/CENTOS	
	Red Hat Enterprise Linux/CentOS 6.x	x64
	Red Hat Enterprise Linux/CentOS 5.x	x64
	Red Hat Enterprise Linux/CentOS 4.x	x64
	SUSE LINUX (SLES)	

	SuSE Linux 11.x with glibc 2.6.x	x64	
	SuSE Linux 10.x with glibc 2.4.x	x64	
SOLARIS	Solaris 9 with a minimum of Service Packs 111711-16, 117560-06 and 111722-05	Sparc5 or higher recommended	
	Solaris 10.x	x64	
WINDOWS	WINDOWS 2008		
	Microsoft Windows Server 2008 R2 Editions	All Windows-compatible processors supported	
SYBASE A	SE 15.5 32-BIT ON:		
LINUX	RED HAT ENTERPRISE LINUX/CENTOS		
	Red Hat Enterprise Linux/CentOS 6.x	Intel Pentium or compatible processors	
	Red Hat Enterprise Linux/CentOS 5.x	Intel Pentium or compatible processors	
	Red Hat Enterprise Linux/CentOS 4.x	Intel Pentium or compatible processors	
	SUSE LINUX (SLES)		
	SuSE Linux 11.x with glibc 2.6.x	Intel Pentium or compatible processors	
	SuSE Linux 10.x with glibc 2.4.x	Intel Pentium or compatible processors	
SOLARIS	Solaris 9 with a minimum of Service Packs 111711-02	Sparc5 or higher recommended	
WINDOWS	WINDOWS 2008		
	Microsoft Windows Server 2008 R2 Editions	All Windows-compatible processors supported	
	WINDOWS 2003 Microsoft Windows Server 2003 32-bit Editions with a minimum of Service Pa	ck All Windows-compatible processors supported	
SYBASE A	Microsoft Windows Server 2003 32-bit Editions with a minimum of Service Page 2	ck All Windows-compatible processors supported	
	Microsoft Windows Server 2003 32-bit Editions with a minimum of Service Page 1	ck All Windows-compatible processors supported Power PC (Includes IBM System p)	
	Microsoft Windows Server 2003 32-bit Editions with a minimum of Service Page 2 SE 15.0.X 32-BIT/64-BIT ON:		
AIX	Microsoft Windows Server 2003 32-bit Editions with a minimum of Service Page 2 SE 15.0.X 32-BIT/64-BIT ON: AIX 6.1 64-bit AIX 5.3 64-bit with technology level 6 and runtime library xlC.rte 8.0.0.0 or	Power PC (Includes IBM System p)	
AIX	Microsoft Windows Server 2003 32-bit Editions with a minimum of Service Page 2 SE 15.0.X 32-BIT/64-BIT ON: AIX 6.1 64-bit AIX 5.3 64-bit with technology level 6 and runtime library xlC.rte 8.0.0.0 or higher HP-UX 11i v3 (11.31)	Power PC (Includes IBM System p) Power PC (Includes IBM System p)	
AIX	Microsoft Windows Server 2003 32-bit Editions with a minimum of Service Page 2 SE 15.0.X 32-BIT/64-BIT ON: AIX 6.1 64-bit AIX 5.3 64-bit with technology level 6 and runtime library xlC.rte 8.0.0.0 or higher	Power PC (Includes IBM System p) Power PC (Includes IBM System p) Itanium	
AIX	Microsoft Windows Server 2003 32-bit Editions with a minimum of Service Page 2 SE 15.0.X 32-BIT/64-BIT ON: AIX 6.1 64-bit AIX 5.3 64-bit with technology level 6 and runtime library xIC.rte 8.0.0.0 or higher HP-UX 11i v3 (11.31) HP-UX 11i v3 (11.31)	Power PC (Includes IBM System p) Power PC (Includes IBM System p) Itanium PA-RISC	
AIX HP-UX	Microsoft Windows Server 2003 32-bit Editions with a minimum of Service Page 2 SE 15.0.X 32-BIT/64-BIT ON: AIX 6.1 64-bit AIX 5.3 64-bit with technology level 6 and runtime library xlC.rte 8.0.0.0 or higher HP-UX 11i v3 (11.31) HP-UX 11i v3 (11.31) HP-UX 11i v2 (11.23)	Power PC (Includes IBM System p) Power PC (Includes IBM System p) Itanium PA-RISC PA-RISC	
SYBASE A AIX HP-UX LINUX	Microsoft Windows Server 2003 32-bit Editions with a minimum of Service Page SE 15.0.X 32-BIT/64-BIT ON: AIX 6.1 64-bit AIX 5.3 64-bit with technology level 6 and runtime library xlC.rte 8.0.0.0 or higher HP-UX 11i v3 (11.31) HP-UX 11i v3 (11.31) HP-UX 11i v2 (11.23) HP-UX 11i v2 (11.23)	Power PC (Includes IBM System p) Power PC (Includes IBM System p) Itanium PA-RISC PA-RISC	
AIX HP-UX	Microsoft Windows Server 2003 32-bit Editions with a minimum of Service Par 2 SE 15.0.X 32-BIT/64-BIT ON: AIX 6.1 64-bit AIX 5.3 64-bit with technology level 6 and runtime library xIC.rte 8.0.0.0 or higher HP-UX 11i v3 (11.31) HP-UX 11i v3 (11.31) HP-UX 11i v2 (11.23) HP-UX 11i v2 (11.23) RED HAT ENTERPRISE LINUX/CENTOS	Power PC (Includes IBM System p) Power PC (Includes IBM System p) Itanium PA-RISC PA-RISC Itanium	
AIX HP-UX	Microsoft Windows Server 2003 32-bit Editions with a minimum of Service Page SE 15.0.X 32-BIT/64-BIT ON: AIX 6.1 64-bit AIX 5.3 64-bit with technology level 6 and runtime library xlC.rte 8.0.0.0 or higher HP-UX 11i v3 (11.31) HP-UX 11i v3 (11.31) HP-UX 11i v2 (11.23) HP-UX 11i v2 (11.23) RED HAT ENTERPRISE LINUX/CENTOS Red Hat Enterprise Linux/CentOS 5.x	Power PC (Includes IBM System p) Power PC (Includes IBM System p) Itanium PA-RISC PA-RISC Itanium Intel Pentium, x64 or compatible processors	
AIX HP-UX	Microsoft Windows Server 2003 32-bit Editions with a minimum of Service Page SE 15.0.X 32-BIT/64-BIT ON: AIX 6.1 64-bit AIX 5.3 64-bit with technology level 6 and runtime library xlC.rte 8.0.0.0 or higher HP-UX 11i v3 (11.31) HP-UX 11i v3 (11.31) HP-UX 11i v2 (11.23) HP-UX 11i v2 (11.23) RED HAT ENTERPRISE LINUX/CENTOS Red Hat Enterprise Linux/CentOS 5.x Red Hat Enterprise Linux/CentOS 4.x	Power PC (Includes IBM System p) Power PC (Includes IBM System p) Itanium PA-RISC PA-RISC Itanium Intel Pentium, x64 or compatible processors	
AIX HP-UX	Microsoft Windows Server 2003 32-bit Editions with a minimum of Service Par 2 SE 15.0.X 32-BIT/64-BIT ON: AIX 6.1 64-bit AIX 5.3 64-bit with technology level 6 and runtime library xlC.rte 8.0.0.0 or higher HP-UX 11i v3 (11.31) HP-UX 11i v3 (11.31) HP-UX 11i v2 (11.23) RED HAT ENTERPRISE LINUX/CENTOS Red Hat Enterprise Linux/CentOS 5.x Red Hat Enterprise Linux/CentOS 4.x SUSE LINUX (SLES)	Power PC (Includes IBM System p) Power PC (Includes IBM System p) Itanium PA-RISC PA-RISC Itanium Intel Pentium, x64 or compatible processors Intel Pentium, x64 or compatible processors	
AIX HP-UX	Microsoft Windows Server 2003 32-bit Editions with a minimum of Service Page 2 SE 15.0.X 32-BIT/64-BIT ON: AIX 6.1 64-bit AIX 5.3 64-bit with technology level 6 and runtime library xlC.rte 8.0.0.0 or higher HP-UX 11i v3 (11.31) HP-UX 11i v3 (11.31) HP-UX 11i v2 (11.23) HP-UX 11i v2 (11.23) RED HAT ENTERPRISE LINUX/CENTOS Red Hat Enterprise Linux/CentOS 5.x Red Hat Enterprise Linux/CentOS 4.x SUSE LINUX (SLES) SuSE Linux 11.x with glibc 2.6.x	Power PC (Includes IBM System p) Power PC (Includes IBM System p) Itanium PA-RISC PA-RISC Itanium Intel Pentium, x64 or compatible processors Intel Pentium, x64 or compatible processors	
AIX HP-UX LINUX	Microsoft Windows Server 2003 32-bit Editions with a minimum of Service Par 2 SE 15.0.X 32-BIT/64-BIT ON: AIX 6.1 64-bit AIX 5.3 64-bit with technology level 6 and runtime library xlC.rte 8.0.0.0 or higher HP-UX 11i v3 (11.31) HP-UX 11i v3 (11.31) HP-UX 11i v2 (11.23) RED HAT ENTERPRISE LINUX/CENTOS Red Hat Enterprise Linux/CentOS 5.x Red Hat Enterprise Linux/CentOS 4.x SUSE LINUX (SLES) SuSE Linux 11.x with glibc 2.6.x SuSE Linux 10.x with glibc 2.4.x	Power PC (Includes IBM System p) Power PC (Includes IBM System p) Itanium PA-RISC PA-RISC Itanium Intel Pentium, x64 or compatible processors	
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HP-UX LINUX SOLARIS	Microsoft Windows Server 2003 32-bit Editions with a minimum of Service Par 2 SE 15.0.X 32-BIT/64-BIT ON: AIX 6.1 64-bit AIX 5.3 64-bit with technology level 6 and runtime library xlC.rte 8.0.0.0 or higher HP-UX 11i v3 (11.31) HP-UX 11i v3 (11.31) HP-UX 11i v2 (11.23) RED HAT ENTERPRISE LINUX/CENTOS Red Hat Enterprise Linux/CentOS 5.x Red Hat Enterprise Linux/CentOS 4.x SUSE LINUX (SLES) SuSE Linux 11.x with glibc 2.6.x SuSE Linux 10.x with glibc 2.4.x Solaris 9 with a minimum of Service Packs 111711-02 Solaris 10.x with a minimum of SunOS (Sparc) Patch 119963-14	Power PC (Includes IBM System p) Power PC (Includes IBM System p) Itanium PA-RISC PA-RISC Itanium Intel Pentium, x64 or compatible processors Sparc5 or higher recommended	

Microsoft Windows Server 2003 Editions with a minimum of Service Pack 1

All Windows-compatible processors supported

CLUSTER - SUPPORT

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

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

HARD DRIVE

WINDOWS

674 MB minimum of hard disk space for Calypso and Job Results

10 MB of additional hard disk space for log file growth

4 KB for Job Results

LINUX

584 MB minimum of hard disk space for Calypso and Job Results

1 MB for Job Results

SOLARIS

2.73 GB minimum of hard disk space for Calypso and Job Results

34 MB for Job Results

MEMORY

64 MB RAM per stream/drive 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.

MISCELLANEOUS

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

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

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

NETWORK

TCP/IP Services configured on the computer.

SELINUX

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

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

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

File Name	Content of the File
<directory>/<file_name>.te</file_name></directory>	The content of the file should be as follows:
where:	policy_module(<name>,<version>)</version></name>
<pre><directory> is /usr/share/selinux/devel</directory></pre>	##########################

<file_name> is the name of the Unix file, created to save the
policy module statement. It is a good idea to use the same
name for policy module and the file.

For example: When you are creating a policy module for backup_IDA application, you can use the following file name: backup_IDA.te

where:

<name> is the name of the policy module. You can give any unique name to the policy module, such as a process or application name.

Eversion> is the version of the policy module. It can be any number, such as 1.0.0.

For Example: While creating a policy module for the backup_IDA application, you can use the following content.

policy module (backup IDA, 1.0.0)

<directory>/<file_name>.fc

where:

<directory> is /usr/share/selinux/devel

<file_name> is the name of the Unix file, created to save the
policy module statement. It is a good idea to use the same
name for policy module and the file.

For example: When you are creating a policy module for backup_IDA application, you can use the following file name: backup_IDA.fc

The content of the file should be as follows:

Note that the following list of files is not exhaustive. If the process fails to launch, check /var/log/messages. Also, if required, add it to the following list of files.

/opt/<software installation directory>/Base/libCTreeWrapper.so -- gen_context
(system_u:object_r:texrel_shlib_t,s0)

/opt/<software installation directory>/Base/libCVMAGuiImplgso -- gen_context
(system u:object r:texrel shlib t,s0)

/opt/<software installation directory>/Base/libdb2locale.so.1 -- gen_context
(system u:object r:texrel shlib t,s0)

/opt/<software installation directory>/Base/libdb2osse.so.1 -- gen_context
(system_u:object_r:texrel_shlib_t,s0)

/opt/<software installation directory>/Base/libDb2Sbt.so -- gen_context
(system_u:object_r:texrel_shlib_t,s0)

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

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

/opt/<software installation directory>/Base/libIndexing.so -- gen_context
(system u:object r:texrel shlib t,s0)

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

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

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

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

 $[{\tt root}] \ \# \ {\tt restorecon} \ \ -{\tt R} \ / {\tt opt} / {\tt software} \ {\tt installation} \ {\tt directory} {\tt >}$

SELinux is now configured to work with this application.

SUPPORTED FILE SYSTEMS

All the File Systems that are supported by your Operating system

The raw devices supported by your Operating system

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 Deployment on Windows - Sybase iDataAgent



WHERE TO INSTALL

Install the Sybase iDataAgent on a computer on which the Sybase server resides, and satisfies the minimum requirements specified in the System Requirements.

PLANNING YOUR INSTALLATION

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

INSTALLATION

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

METHOD 1: INTERACTIVE INSTALL

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

METHOD 2: INSTALL SOFTWARE FROM COMMCELL CONSOLE

Use this procedure to install remotely on a client computer.

METHOD 1: INTERACTIVE INSTALL

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

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

3. Select the required language.

Click **Next**.

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

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

BEFORE YOU BEGIN

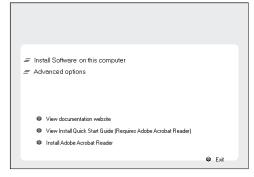
Download Software Packages

Download the latest software package to perform the install.

Verify System Requirements

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

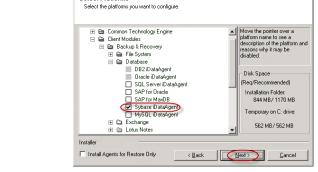




5. Select I accept the terms in the license agreement.

 Expand Client Modules | Backup and Recovery | Database, and then click Sybase iDataAgent.

Click Next.

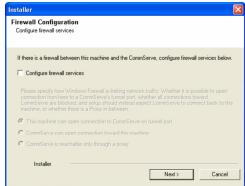


Select Platforms

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

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

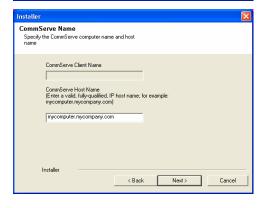
If firewall configuration is not required, click ${\bf Next.}$



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

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

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



Setup will configure the communication paths.

Setup will configure the communication paths.

Select a client name

Select a client name

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

audi.mycompany.com

IP Address(es) for the selected host.

Installer

(Back Next.) Cancel

10. Click Next.

Firewall Configuration
Configure firewall services

You selected not to configure Firewall settings. However, setup detected that Windows Firewall may be enabled for the following profiles:

Public-Profile
Domani*Profile
Standard*Profile

Do you want setup to disable Windows Firewall for all profiles?
Note: It will require immediate reboot of the system.

C Yes, disable Windows Firewall for all profiles.

No, do not disable Windows Firewall.

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

Click Next.

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

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

12. Verify the default location for software installation.

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

Click Next.

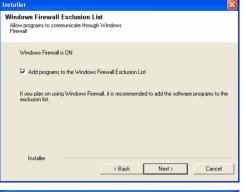
- Do not install the software to a mapped network drive.
- Do not use the following characters when specifying the destination path:

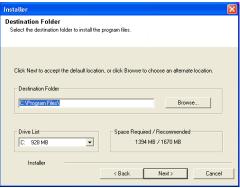
It is recommended that you use alphanumeric characters only.

13. Select a Client Group from the list.

Click Next.

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





Client Group Selection
Select a client group for the client.

The Client Group is a logical grouping of client machines which have the same associations at various levels like Schedule Policy, Activity Centrol, Security and Reports.

Client group:

None Selected client, group

Installer

| Next > Cancel |

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

Schedule Install of Automatic Updates

Schedule Install of Automatic Updates

Once
Time: 08.31.12 PM **

Wednesday Tuesday

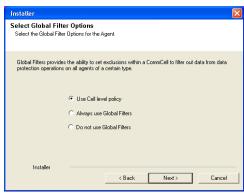
Finday Saturday

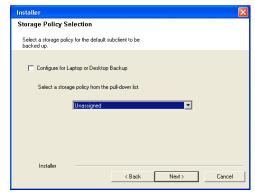
Finday Saturday

Installer

Sanday

Installer





14. Click Next.

15. Click Next.

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

If you do not have Storage Policy created, this message will be displayed. Click ${f Next}.$

You can create the Storage Policy later in step 21.

17. Click Browse to select the path to Sybase ASE Library Path.

The Sybase ASE (Adaptive Server Enterprise) server library is generally located under the Sybase ASE server install directory.

Click Next.

18. Click Next.

19. Click **Next** to continue.

20. Click **Reboot Now** to reboot the computer.

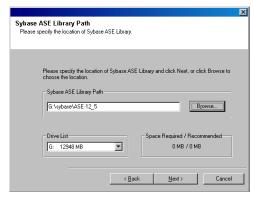


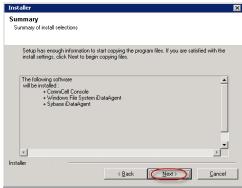
If you already have a storage policy selected in step 16, proceed to the ${\bf Configuration}$ section.

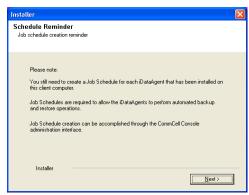
If you do not have Storage Policy created, continue with the following step.

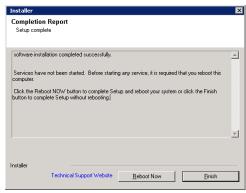
- **21.** To create a storage policy, you must have configured a library in the CommCell.
 - If you do not already have a library configured, go to Disk Library Creation.
 - If you have a library configured, go to Storage Policy Creation.

DISK LIBRARY CREATION:









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

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

Click Next.

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

- 4 Click Next
- 5. Click Finish.

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

STORAGE POLICY CREATION:

- 1. From the CommCell Browser, navigate to Policies.
- 2. Right-click the Storage Policies and then click New Storage Policy.
- 3. Follow the prompts displayed in the Storage Policy Wizard. The required options are mentioned below:
 - Select the Storage Policy type as Data Protection and Archiving and click Next.
 - o Enter the name in the **Storage Policy Name** box and click **Next**.
 - From the Library list, click the name of a disk library to which the primary copy should be associated and then click Next.
 - Ensure that you select a library attached to a MediaAgent operating in the current release.
 - From the MediaAgent list, click the name of a MediaAgent that will be used to create the primary copy and then click Next.
 - $\circ~$ For the device streams and the retention criteria information, click Next to accept default values.
 - O Select **Yes** to enable deduplication for the primary copy.
 - From the MediaAgent list, click the name of the MediaAgent that will be used to store the Deduplication store.

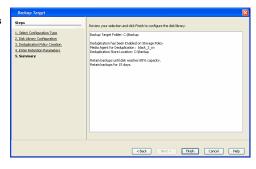
Type the name of the folder in which the deduplication database must be located in the Deduplication Store Location or click the Browse button to select the folder and then click **Next**.

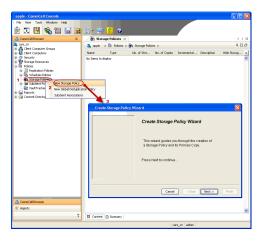
 $\circ\;$ Review the details and click Finish to create the Storage Policy.

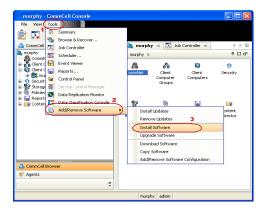
This will create a storage policy. Click the ${\sf Next}$ ${\blacktriangleright}$ button available at the bottom of the page to continue.

METHOD 2: INSTALL SOFTWARE FROM COMMCELL CONSOLE

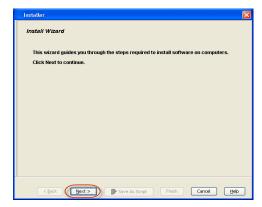
 From the CommCell Browser, select Tools | Add/Remove Software | Install Software.



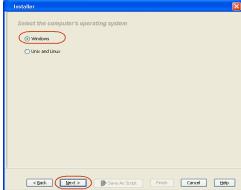




3.



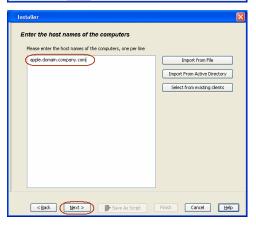
Select Windows.
Click Next.

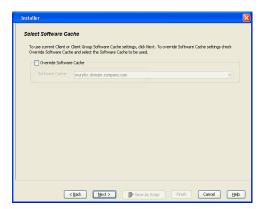


4. Select Manually Select Computers.
Click Next.



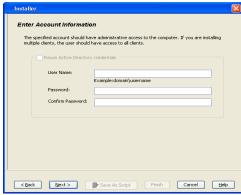
5. Enter the fully qualified domain name of the computer on which SQL Server resides.
For example: apple.domain.company.com
Click Next.





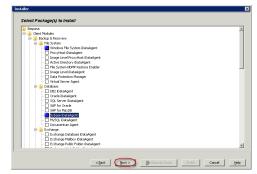
Specify User Name and Password that must be used to access the client computer.Click Next.

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

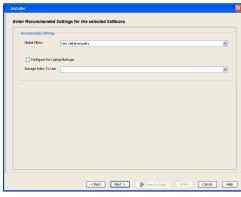


8. Select Sybase iDataAgent.

Click Next.



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



10. In the **Sybase ASELibrary Path** box, type the path to the Sybase ASE Library.

The Sybase ASE(Adaptive Server Enterprise) server library is generally located under the Sybase ASE server install directory.

✓ Auto discover instances Sybase ASELibrary Path C:\sybase\15.0.3\ ASE-15_0\lib < Back Next > Seve As Script Finish Cancel Help Click Reboot (if required) and then click Next.

11.

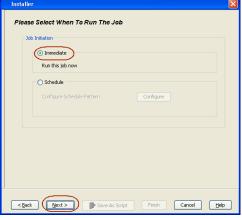
When Reboot (if required) is selected, the install program will automatically reboot the client computer and resume the installation.



12. Click Immediate.

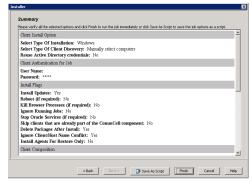
Click Next.

13. Click Finish.

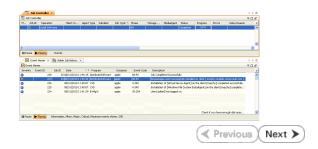


Enter the Install Options for the selected Software

✓ Install Update Reboot (Frequired) Kill Browser Processes (if required) Ignore Running Jobs



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



ADDITIONAL INSTALLATION METHODS

Custom Package

Create a compact software package for quick deployment to multiple clients

Remote Install

Deploy the software from CommCell Console on multiple clients.

Silent Install

Deploy the software silently on multiple clients.

Getting Started Deployment on a UNIX Computer - Sybase iDataAgent

✓ Previous Next ➤

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

Click Next > to continue with the deployment.

WHERE TO INSTALL

Install the software on a UNIX computer on which the Sybase server resides, and satisfies the minimum requirements specified in the System Requirements. For Solaris, software can be installed on one of the following:

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

INSTALLATION

BELOKE 100 BEGIL

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

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

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

2.

Use the following options depending upon on your environment:

 On Global Zone or Unix machine, run the following command to mount the cd:

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

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

./cvpkgadd

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

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

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

Connect to Non-Global Zone terminal

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

./cvpkgadd

3. The product banner and other information is displayed.

Press Enter.

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

BEFORE YOU BEGIN

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

Verify System Requirements

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

6. Press **Enter**.

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.

8. Press Enter.

9. Type the number associated with the **Sybase** *i***DataAgent** and press **Enter**.

10. A confirmation screen will mark your choice with an "X".

Type **d** for **Done**, and press **Enter**.

- 11. Press Enter.
- **12.** 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.
- 13. Press Enter.

3) Exit this menu

Your choice: [1]

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

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

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

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

Your choice: [1]

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

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

Please specify the client name for this machine.

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

Physical Machine Client name: [angel]

Install Calypso on physical machine 172.19.99.62

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

- [] 1) MediaAgent [1301] [CVGxMA]
- [] 2) UNIX File System iDataAgent [1101] [CVGxIDA]
- [] 3) Sybase iDataAgent [1202] [CVGxSybIDA]

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

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

Install Calypso on physical machine 172.19.99.62

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

- [] 1) MediaAgent [1301] [CVGxMA]
- [X] 2) UNIX File System iDataAgent [1101] [CVGxIDA]
- [X] 3) Sybase iDataAgent [1202] [CVGxSybIDA]

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

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

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

14.

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:

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

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

If you do not want to assign a group to software, type no, press Enter and proceed to step 18.

17. Type the Group name and then press Enter.

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

> This screen is displayed if you do not assign any group to the software and type no in step 16.

19. This prompt is relevant only when you install on Solaris. Press **Enter** to accept the default value for Number of Streams.

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

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 $% \left(1\right) =\left(1\right) \left(1\right) \left($ provider website.

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

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

Please specify where you want us to install Calypso binaries.

It must be a local directory and there should be at least 176MB of free space available. All files will be installed in a "calypso" subdirectory, so if you enter "/opt", the files will actually be placed into "/opt/calypso".

Installation Directory: [/opt]

Please specify where you want to keep Calypso log files.

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

Log Directory: [/var/log]

Most of Software processes run with root privileges, but some are launched by databases and inherit database access rights. To make sure that registry and log files can be written to by both kinds of processes we can either make such files world-writeable or we can grant write access only to processes belonging to a particular group, e.g. a "calypso" or a "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 $\hbox{not to assign a dedicated group to Software processes, you}\\$ 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: dba

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

Access Permissions for Other Users.Installer will assign full access rights to root user and its belonging group for all installed Calypso files and its processes.For any other users, you can specify the access permissions now. However, since you chose not to assign a dedicated group $\frac{1}{2}$ in previous step, make sure you specify sufficient access rights for other users if you are also planning to install Calypso agents involving third party software protection.

- $[{\rm X}]$ 1) Allow read permission to other users $[{\rm X}]$ 2) Allow write permission to other users
- $[{\tt X}]$ 3) Allow execute permission to other users

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

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

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 $\frac{1}{2}$ time. We need to make sure that you have enough semaphores 20. Press **Enter** if you do not want the changes to be updated automatically.

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

22. Press Enter.

You will see this prompt if you have accepted the default **no** and pressed **Enter** in step 20.

23. 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 press **Enter**.

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

If this computer is separated from the CommServe by firewall(s), type $\bf Yes$ and then press $\bf Enter$.

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**.

Ensure that the CommServe is accessible before typing the name; otherwise the installation will fail.

26. Press Enter.

27. Type the number associated with the Client Group and press **Enter**.

This screen will be displayed only if Client Groups are configured for the CommCell.

28. A confirmation screen will mark your choice with an "X".

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_semms1=8570 (was 7930) Do you want us to apply these changes now? [no]

Changes saved into /etc/system.gal.1744

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_shmsy=640
set semsys:shminfo_shmseg=640
set semsys:seminfo_semmns=640
set semsys:seminfo_semms=640
set semsys:seminfo_semmn=640
set semsys:seminfo_sem

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]

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.

[] 1) Unix

[] 2) DR

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

Enter number(s)/one of "a,n,r,q,d,>,<,?" here: 1

Client Group(s) is currently configured on CommServe cs.company.com. Please choose the group(s) that you want

Type **d** for done with the selection, and press **Enter** to continue.

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

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

You can create the Storage Policy later in step 37.

- **30.** Type the Sybase user ID and press **Enter**
- **31.** Type the name of the user group for Sybase and press **Enter**.
- **32.** Type the name of the Sybase Adaptive server and press **Enter**.
- **33.** Type the name of the Sybase home directory and press **Enter**.
- **34.** Type the name of the Sybase ASE directory and press **Enter**.

The Sybase ASE (Adaptive Server Enterprise) server library is generally located under the Sybase ASE server install/home directory.

35. Type the name of the Sybase OCS variable and press Enter.

You can view the location of this variable in sybase.env file residing in home directory.

Listing the values that you entered.

36. Type **3** to the **Exit** option and press **Enter**.

The installation is now complete.

If you already have a storage policy selected in step 29, proceed to the ${\bf Configuration}$ section.

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

- 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**.

to add this client client.company.com to.

[X] 1) Unix

[] 2) DR

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

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

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]

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..

Adjusting modes and permissions of files

Successfully installed Calypso

Please enter SYBASE user ID [sybase]:

Please enter user group for sybase [sybase]:

Please enter SYBASE home directory: /test2/sybase/sybase12.5 64

Please enter the SYBASE SERVER Name: cross mc

Please enter the SYBASE ASE directory: ASE-12 5

Please enter the SYBASE OCS variable: OCS-12 5

Values input are:

SYBASE_USER=sybase
SYBASE_GRP =sybase
CXDIR =/opt/Calypso/Base
SYBASE_SERVER =cross_mc
SYBASE_1etest2/sybase/sybase12.5_64
SYBASE_ASE =/test2/sybase/sybase12.5_64/ASE-12_5
SYBASE_DCS =/test2/sybase/sybase12.5_64/ASE-12_5
SYBAIBPATH =/test2/sybase/sybase12.5_64/ASE-12_5/lib

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

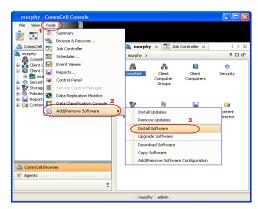
Your choice: [1] 3

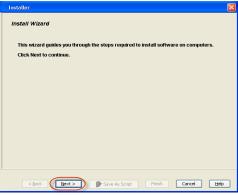


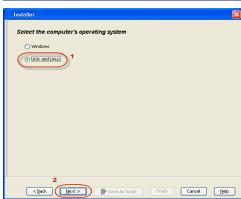
- $\circ\;$ Enter the name in the Storage Policy Name box and click Next.
- From the **Library** list, click the name of a disk library to which the primary copy should be associated and then click **Next**.
 - Ensure that you select a library attached to a MediaAgent operating in the current release.
- From the MediaAgent list, click the name of a MediaAgent that will be used to create the primary copy and then click Next.
- For the device streams and the retention criteria information, click Next to accept default values.
- O Select **Yes** to enable deduplication for the primary copy.
- o 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

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





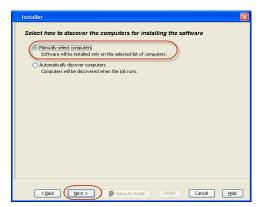


2. Click Next.

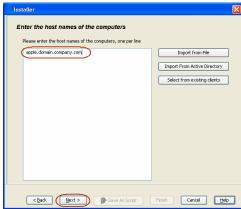
3. Select Unix and Linux.

Click Next.

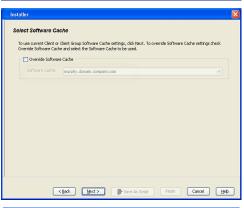
4. Select Manually Select Computers.



5. Enter the fully qualified domain name of the computer on which SQL Server resides.
For example: apple.domain.company.com
Click Next.

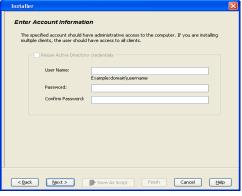


6. Click Next.



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

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



8. Select Sybase iDataAgent.

Select Package(s) to Install

Select Package(s) to Install

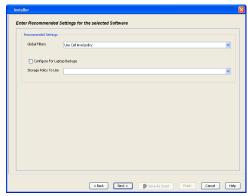
Select Package(s) to Install

Select Package(s) to Install

Select Package(s)

Out Models

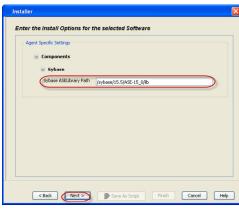
From Storage Policy to use list, click storage policy.
 Click Next.



10. In the **Sybase ASELibrary Path** box, type the path to the Sybase ASE Library.

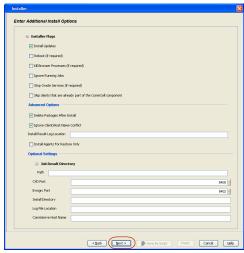
The Sybase ASE (Adaptive Server Enterprise) server library is generally located under the Sybase ASE server install directory.

Click Next.



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

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



12. Click Immediate.

Installer

Please Select When To Run The Job

Job Initiation

Run this job now

Schedule

Configure Schedule Pattern

Configure

Configure

Seve As Script

Finish

Cancel Help

Installer

Summary

Flease very of the selected options and dick Friesh to run the job immediately or click Save As Sorpt to save the do options as a sorpe.

Client Install Option

Select Type Of I Client Discovery: Manually select computers

Reuse Active Directory credentials: No

Client Authentication for Job

User Name: root

Deservant: ****

Install Epiage

Install Updates: Yes

Reboot off required): No

Kill Browser Processes (if required): No

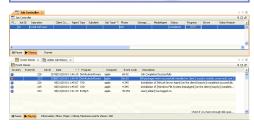
Ignore Kunning Jobs: No

Stip Clients that are already part of the CommCell component: No

Delete Packages After Install: Yes

Cancel Help

Friesh Cancel Help



Syb_install.sh

For example:

root@clientlnx#./Syb install.sh



13. Click Finish.

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

15. Once the Sybase *i*DataAgent is installed from CommCell Console, run this command from <calypso >/*i*DataAgent on the client computer.

ADDITIONAL INSTALLATION METHODS

Custom Package

Create a compact software package for quick deployment to multiple clients

Remote Install

Deploy the software from CommCell Console on multiple clients.

Silent Install

Deploy the software silently on multiple clients.

Getting Started Deployment on a UNIX Cluster - Sybase iDataAgent

✓ Previous Next ➤

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

Click Next ➤ to begin Configuration.

WHERE TO INSTALL

BEFORE YOU BEGIN

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

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

Verify System Requirements

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

INSTALLING THE SYBASE IDATAAGENT IN UNIX CLUSTERED ENVIRONMENT

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

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

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.
- 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]

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

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

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: [2]
8.	Type the name of the computer that you want to configure or its corresponding IP address and press Enter .	Please enter the hostname or IP address of the virtual machine being installed. It can be either short or long; the only requirement is that it must be resolvable by the name services configured on this machine
		WARNING: You should follow this path ONLY if this host participates in a cluster and you really want to install Calypso on the virtual machine. This is NOT how most people will use Calypso.
		If you got into this screen by mistake, hit ^C and restart
		cvpkgadd. Virtual Machine Host Name:devm.mycompany.com
0	Duogo Enteru	
9.	Press Enter .	Virtual Machine Client Name Please specify the client name for this machine.
		It does not have to be the network host name: you can
		enter any word here without spaces. The only requirement is that it must be unique on the CommServe.
		Virtual Machine Client Name: [devm]
10.	Specify the network interface that you want to associate with the physical machine and press Enter .	Even though it is a virtual machine that you are installing now, we still have to ask you to provide hostname and client name for the physical node.
	This prompt appears only when the Unix File System <i>i</i> DataAgent is not installed on the physical node.	Network interfaces with the following IPs are available on your system. Please select the one that you want to be associated with Calypso physical machine. The interface should be static, and should not get disabled in case of cluster failover.
		1) mackrel71 2) mackrel 3) mackrel1
		Interface number: [1] 2
11.	Verify the name of the physical interface and make any required changes. Then press ${f Enter}.$	Please verify the physical interface name below. Make it as complete (with fully qualified domain name) as possible.
		Physical Hostname: [mackrel]
12.	Enter a node name for the physical machine and press Enter .	Even though you are installing Calypso on a virtual machine, we still need to ask you to provide a node name for the physical machine.
		It does not have to be the network host name: you can enter any word here without spaces. The only requirement is that it must be unique on the CommServe.
		Physical Machine Node Name: [mackrel]
13.	Type the number associated with the Sybase <i>i</i> DataAgent and press Enter .	Install Calypso on physical machine mackrell
		Please select the Calypso module(s) that you would like to install. $ \\$
		[] 1) MediaAgent [1301] [CVGxMA]
		[] 2) UNIX File System iDataAgent [1101] [CVGxIDA] [] 3) Sybase iDataAgent [1202] [CVGxSybIDA]
		[a=all n=none r=reverse q=quit d=done >=next <=previous ?
		=help]
		<pre>Enter number(s)/one of "a,n,r,q,d,>,<,?" here:3</pre>
14.	A confirmation screen will mark your choice with an "X".	Install Calypso on physical machine mackrell
	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]
		[X] 3) Sybase iDataAgent [1202] [CVGxSybIDA]
		[a=all n=none r=reverse q=quit d=done >=next <=previous ? =help]
4-	Duran Fraham	Enter number(s)/one of "a,n,r,q,d,>,<,?" here:d
15.	Press Enter .	Do you want to use the agents for restore only without consuming licenses? [no]
16.	Type the appropriate number to install the latest software scripts and press Enter .	Installation Scripts Pack provides extra functions and latest support and fix performed during setup time. Please specify how you want to get this pack.
	 Select Download from the software provider website to download the latest software scripts. Make sure you have internet access. 	If you choose to download it from the website now, please

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

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

17. Press Enter.

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

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

Do not use the following characters when specifying the path:

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

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

If you do not want to assign a group to software, type **no**, press **Enter** and proceed to step 22.

21. Type the **Group name** and then press **Enter**.

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

This screen is displayed if you do not assign any group to software and type ${\bf no}$ in step 20.

make sure you have internet connectivity at this time. This process may take some time depending on the internet connectivity.

- 1) Download from the software provider website.
- 2) Use the one in the installation media
- 3) Use the copy I already have by entering its unix path

Your choice: [1] 2

Keep Your Install Up to Date - Latest Service Pack

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

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

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

Please specify where you want us to install Calypso binaries.

It must be a local directory and there should be at least 176MB of free space available. All files will be installed in a "calypso" subdirectory, so if you enter "/opt", the files will actually be placed into "/opt/calypso".

Installation Directory: [/opt]

Please specify where you want to keep Calypso log files.

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

Log Directory: [/var/log]

Most of Software processes run with root privileges, but some are launched by databases and inherit database access rights. To make sure that registry and log files can be written to by both kinds of processes we can either make such files world-writeable or we can grant write access only to processes belonging to a particular group, e.g. a "calypso" or a "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] $% \begin{center} \end{center} \begin{center} \end{c$

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: dba

REMINDER

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

Access Permissions for Other Users Installer will assign full access rights to root user and its belonging group

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

23. This prompt is relevant only when you install on Solaris. Press **Enter** to accept the default value for **Number of Streams**.

You can type the ${\bf Number\ of\ Streams}$ that you plan to run at the same time and then press ${\bf Enter}.$

- 24. Press **Enter** if you do not want the changes to be updated automatically.
 - If you want the changes to be made automatically, type Yes and then
 press Enter.
 - You will come across this prompt when you install the software on the earlier versions of Solaris.
- 25. Press Enter.
- 26. Press Enter.

You will see this prompt if you have accepted the default **no** and pressed **Enter** in step 24.

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

Type a network TCP port number for the Client Event Manager Service (EvMgrC) and press ${\bf Enter}$.

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

If this computer is separated from the CommServe by firewall(s), type **Yes** and then press **Enter**.

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

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

Ensure that the CommServe is accessible before typing the name; otherwise the installation will fail.

30. Press Enter.

```
[X] 1) Allow read permission to other users
```

- [X] 2) Allow write permission to other users
- [X] 3) Allow execute permission to other users

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

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

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_semmns=10320 (was 9680) set semsys:seminfo_semmni=8570 (was 7930) set semsys:seminfo_semms1=8570 (was 7930) Do you want us to apply these changes now? [no]
```

Changes saved into /etc/system.gal.1744

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_shmmni=640 set semsys:shminfo_shmseq=640 set semsys:seminfo_semmni=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 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

Type the number associated with the **Unix File System** iDataAgent and press 31. Enter.

32. A confirmation screen will mark your choice with an "X".

Type d for Done, and press Enter.

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

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

You can create the Storage Policy later in step 41.

- 34. Type the Sybase user ID and press Enter
- 35. Type the name of the user group for Sybase and press Enter
- 36. Type the name of the Sybase Adaptive server and press **Enter**.
- Type the name of the Sybase home directory and press **Enter**. 37.
- Type the name of the Sybase ASE directory and press Enter. 38.

The Sybase ASE (Adaptive Server Enterprise) server library is generally located under the Sybase ASE server install directory.

39. Type the name of the Sybase OCS variable and press **Enter**.

Listing the values that you entered.

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

The installation is now complete.

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

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

- 41. 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

default subclient? [1]

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.

- [] 2) DR

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

Enter number(s)/one of "a,n,r,q,d,>,<,?" here: 1

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.

[X] 1) Unix

[] 2) DR

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

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

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]

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 ..

Adjusting modes and permissions of files

Successfully installed Calypso

Please enter SYBASE user ID [sybase]:

Please enter user group for sybase [sybase]:

Please enter SYBASE home

directory: /test2/sybase/sybase12.5_64

Please enter the SYBASE SERVER Name: cross_mc

Please enter the SYBASE_ASE directory: ASE-12_5

Please enter the SYBASE OCS variable: OCS-12 5

Values input are:

SYBASE_USER=sybase SYBASE_GRP =sybase CXDIR =/opt/Calypso/Base SYBASE SERVER =cross_mc SYBASE =/test2/sybase/sybase12.5_64 SYBASE ASE =/test2/sybase/sybase12.5 64/ASE-12 5 SYBASE OCS =/test2/sybase/sybase12.5 64/OCS-12 5

SYBLIBPATH =/test2/sybase/sybase12.5_64/ASE-12_5/lib Calypso is currently configured on virtual machine

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

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

Your choice: [4]

devmc.company.com.



are mentioned below:

- Select the Storage Policy type as Data Protection and Archiving and click
- $\circ\;$ 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**.
- $\circ\;$ Review the details and click Finish to create the Storage Policy.

✓ Previous Next ➤

Getting Started Configuration - Sybase iDataAgent

✓ Previous Next >

🚴 scranton64 > 🐧 Client Computers > 🏗 stortek > 🗓

Browse

Browse Browse

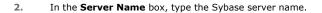
New Sybase Server

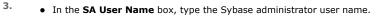
Server Properties

Local administrator with Sybase sysadmin role:

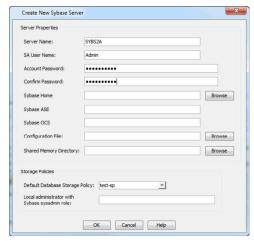
Once the Sybase iDataAgent is installed, configure the Sybase Server and subclient as follows:

- From the CommCell Browser, navigate to **Client Computers | <Client>**.
 - Right-click **Sybase**, point to **All Tasks**, and then click **New Sybase Server**.



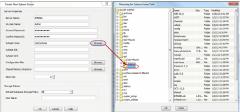


- In the **Account Password** box, type the account password for the Sybase administrator user account.
- In the **Confirm Password** box, re-type the password.

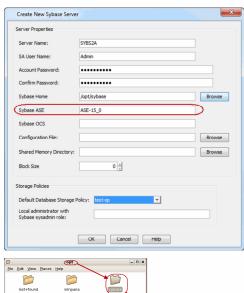


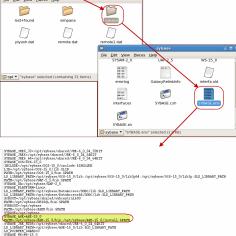
OK Cancel Help

 In the Sybase Home box, type the path to the Sybase application. Alternatively, click Browse to select the location.



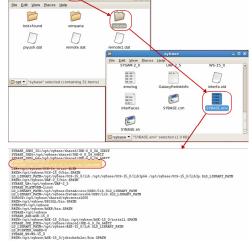
 In the Sybase ASE box, type the directory name where you installed Adaptive Server Enterprise (ASE) environment variable. You can view the location of this directory in sybase.env file residing in home directory.





Control Note Sphoal Service

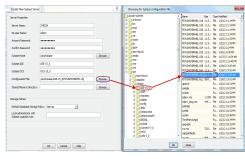
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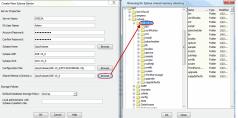
In the **Sybase OCS** box, type the Sybase Open Client Server (OCS)environment variable.

You can view the path to this variable in sybase.env file residing in home directory.

 In the Configuration File box, type the path to the configuration file. Alternatively, click Browse to select the location.



8. In the **Shared Memory Directory** box, type the location of the directory where you specify the shared memory file name. When you start an Adaptive Server, it creates a shared memory file that resides in the home directory. for example: /opt/sybase/ASE-15_0. Alternatively, click **Browse** to select the location.

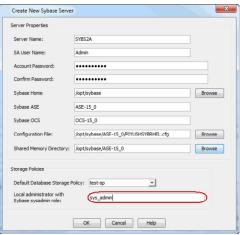


9. In the **Default Database Storage Policy** box, select the storage policy name.



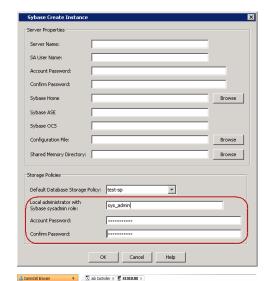
10. For Unix:

- In the Local administrator with Sybase sysadmin role box, type the user name of the local system administrator with Sybase sysadmin role privileges.
- Click **OK**.

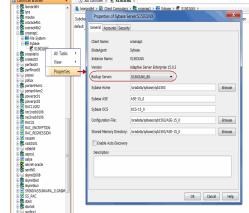


For Windows:

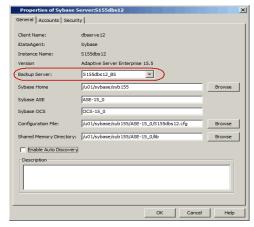
- In the Local administrator with Sybase sysadmin role box, type the user name of the local system administrator with Sybase sysadmin role privileges.
- In the **Account Password** box, type the password for the user account.
- In the **Confirm Password** box, re-type the password.
- Click OK.



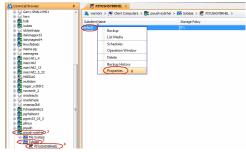
- From the CommCell Browser, navigate to Client Computers | <Client> | Sybase iDataAgent.
 - Right-click the <Instance>, and then click Properties.



- Select the **Backup Server** from the list.
 - Click OK.



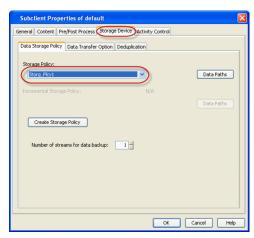
- From the CommCell Browser, navigate to Client Computers | <Client> | Sybase | <Instance>.
 - Right-click the **default Subclient**, and then click **Properties**.



• Click the **Storage Device** tab.

- In the **Storage Policy** box, select the storage policy.
- Click OK.

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





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



Getting Started Backup - Sybase iDataAgent

WHAT GETS BACKED UP

Sybase system databases

Sybase user databases

Transaction logs

All the File Systems that are supported by your Operating system

The raw devices supported by your Operating system

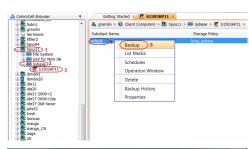
WHAT DOES NOT GET BACKED UP

Sybase application files

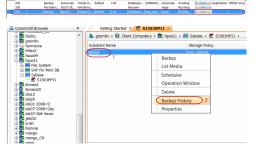
Operating system data

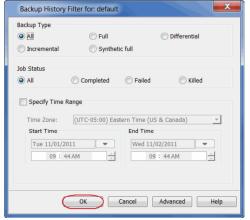
Use the File System iDataAgent to back up the above mentioned components.

- From the CommCell Browser, navigate to Client Computers | <Client> | Sybase | <Instance>.
 - Right-click the default subclient and click Backup.
- Click **Full** as backup type and then click **Immediate**.
 - Click OK.
- 3. You can track the progress of the job from the **Job Controller** window of the CommCell console.
- Once the job is complete, view the job details from the Backup History. Right-click the Subclient and select Backup History.
- 5. Click OK.



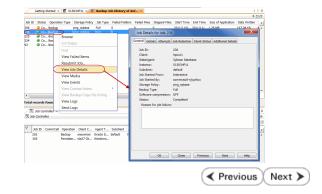






- **6.** Right-click the job to:
 - Browse the database that was backed up.

- View Failed Items.
- Resubmit the job.
- View job details.
- View media associated with the job.
- View events associated with the job.
- View or send the log file that is associated with the job.

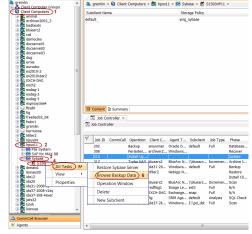


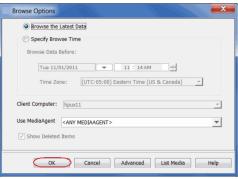
Getting Started Restore - Sybase iDataAgent



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

- From the CommCell Browser, navigate to Client Computers | <Client> |
 Subase
 - Right-click the <Instance>, point to All Tasks, and then click Browse Backup Data.







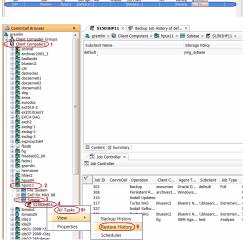


2. Click OK.

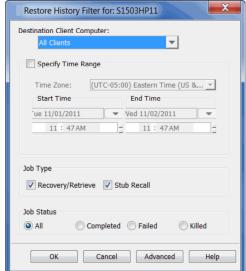
- In the right pane of the Browse window, click the <**Instance**> and select a database.
 - Click Recover All Selected.
- 4. Click OK.

5. You can monitor the progress of the restore job in the **Job Controller**.

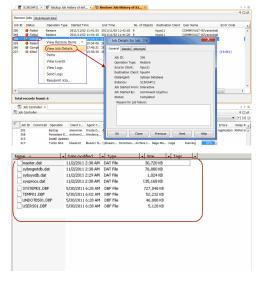
Once the restore job has completed, right-click the agent or <instance>, point to View and click Restore History.



7. Click OK.



- **8.** 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 and send Log files of the restore job
 - View Paths
 - Resubmit the restore job
- Once the database is restored, verify that the restored database is available in the original location.



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

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

✓ Previous Next >>