# Quick Start - SAP for MaxDB iDataAgent

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#### **Key Features**

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#### Terminology

# INTRODUCTION

Calypso software provides a simplified end-to-end data protection for large scale SAP environments. It helps deliver a robust and comprehensive backup and recovery with significant speed performance and efficient use of disk and tape drives. It also assists you in full system rebuilds and eliminates recovery failures.

# **KEY FEATURES**

The SAP iDataAgents offers the following key features:

#### FULL RANGE OF BACKUP AND RECOVERY OPTIONS

The SAP agents provide the flexibility to backup the SAP for Oracle database in different environments. This is very essential since SAP data is always subject to constant changes.

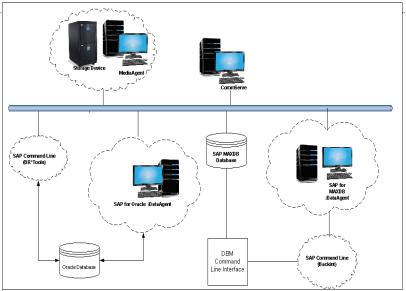
You can perform a full or incremental backup of the entire database or individual data files/ table spaces, or archive logs at any point of time. The following section describes the backups that can be performed in different environments.

#### OFFLINE BACKUP

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

#### ONLINE BACKUP

In cases, when you cannot bring down the database to perform an offline backup, you can use the online backup method. Here, you can perform full or incremental backups when the database is online and



in ARCHIVELOG mode. This is very useful when you want to perform a point-in-time restore of the database.

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

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

### SELECTIVE ONLINE FULL BACKUP

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

### SNAPPROTECT BACKUP

SAP for Oracle *i*DataAgent works in conjunction with hardware snapshot engines to create a point-in-time snapshot of the data to be used for various data protection operations. This is an efficient way of backing up live data and it facilitates frequent point-in-time backups and faster recovery time.

## COMMAND LINE SUPPORT

Data protection and recovery operations can be initiated from the SAP command line as per SAP requirements. The iDataAgent is fully integrated with the

Oracle database using BRTOOLS and with the SAP MAXDB database through DBM CLI, a database management tool provided by SAP and supports backup and restore operations of database and parameter files using BACKINT interface from SAP Command Line.

In addition to SAP command line, you can also perform data protection and recovery operations from the command line interface using qcommands. You also have the facility to save the operations as a script file and execute them from the command line at a later point of time.

### **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 on large SAP databases.

In the event, that a network goes down, the backup and recovery jobs are resumed on alternate data paths. Similarly, in the event of a device failure, the jobs are automatically switched to alternate disk and tape drives.

### EFFICIENT JOB MANAGEMENT AND REPORTING

You can view and verify the status of SAP 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. Y

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 SAP 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 SAP for Oracle database to be used for the backup and restore operations.
SUBCLIENT	The SAP data to be backed up.
DBM CLI	DBM CLI (DBM Command Line Interface) is a Database Management Tool supplied with every SAP MAXDB that is used to perform backup and restore operations.
BACKINT	Backint is an interface program that allows DBM CLI to communicate with SAP MAXDB using streams/pipes to perform backup and restore operations.

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# System Requirements - SAP for MAXDB iDataAgent

System Requirements Supported Features

The following requirements are for the SAP for MAXDBiDataAgent:

APPLICA	TION/OPERATING SYSTEM	PROCESSOR
SAP MAXI	DB 7.5, 7.6, 7.7, 7.8 AND 7.9 ON:	
AIX	AIX 7.1	Power PC (Includes IBM System p)
	AIX 6.1	Power PC (Includes IBM System p)
	AIX 5.3	Power PC (Includes IBM System p)
IP-UX	HP-UX 11i v3 (11.31)	Itanium
	HP-UX 11i v3 (11.31)	PA-RISC
	HP-UX 11i v2 (11.23)	PA-RISC
	HP-UX 11i v2 (11.23)	Itanium
INUX	RED HAT ENTERPRISE LINUX/CENTOS	
	Red Hat Enterprise Linux/CentOS 6.x with glibc 2.12.x	Intel Pentium, Itanium, x64, Power PC (Includes IBM Systen p) or compatible processors
	Red Hat Enterprise Linux/CentOS 5.x with glibc 2.5.x	Intel Pentium, Itanium, x64, Power PC (Includes IBM Systen p) or compatible processors
	Red Hat Enterprise Linux/CentOS 4.x with a minimum of glibc 2.3.4	Intel Pentium, Itanium, x64, Power PC (Includes IBM Systen p) or compatible processors
	SUSE LINUX (SLES)	
	SuSE Linux 11.x with glibc 2.9.x and above	Intel Pentium, Itanium, x64, Power PC (Includes IBM Systen p) or compatible processors
	SuSE Linux 10.x with glibc 2.4.x	Intel Pentium, Itanium, x64, Power PC (Includes IBM Systen p) or compatible processors
OLARIS	Solaris 11.x	x64, Sparc5 (or higher recommended)
	Solaris 10.x	x64, Sparc5 (or higher recommended)
VINDOWS	WINDOWS 2008	
	Microsoft Windows Server 2008 Editions with a minimum of Service Pack $1^*$ *Core Editions not supported	All Windows-compatible processors supported
	WINDOWS 2003	
	Microsoft Windows Server 2003 Editions with a minimum of Service Pack 1	All Windows-compatible processors supported

# **CLUSTER - SUPPORT**

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

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

# HARD DRIVE

# WINDOWS

111 MB minimum of hard disk space for software/ 498 MB recommended

100 MB of additional hard disk space for log file growth

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

# UNIX

220 MB minimum of hard disk space for software

# MEMORY

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

Swap space = 2\*RAM size

# SOLARIS ZONES/CONTAINERS SUPPORT

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

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

# AIX LPAR/WPAR SUPPORT

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

# PERIPHERALS

DVD-ROM drive Network Interface Card

# **MISCELLANEOUS**

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

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

# NETWORK

TCP/IP Services configured on the computer.

#### SELINUX

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

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

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

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

backup_IDA application, you can use the following file name:	(system_u:object_r:texrel_shlib_t,s0)
backup_IDA.fc	/opt/ <software directory="" installation="">/Base/libdb2osse.so.1 gen_context (system_u:object_r:texrel_shlib_t,s0)</software>
	/opt/ <software directory="" installation="">/Base/libDb2Sbt.so gen_context (system_u:object_r:texrel_shlib_t,s0)</software>
	<pre>/opt/<software directory="" installation="">/Base/libdb2trcapi.so.1 gen_context (system_u:object_r:texrel_shlib_t,s0)</software></pre>
	/opt/ <software directory="" installation="">/Base/libDrDatabase.so gen_context (system_u:object_r:texrel_shlib_t,s0)</software>
	/opt/ <software directory="" installation="">/Base/libIndexing.so gen_context (system_u:object_r:texrel_shlib_t,s0)</software>
	/opt/ <software directory="" installation="">/Base/libSnooper.so gen_context (system_u:object_r:texrel_shlib_t,s0)</software>

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

[root]# make backup\_IDA.pp

Compiling targeted backup\_IDA module

/usr/bin/checkmodule: loading policy configuration from tmp/backup\_IDA.tmp

/usr/bin/checkmodule: policy configuration loaded

/usr/bin/checkmodule: writing binary representation (version 6) to tmp/backup\_IDA.mod

Creating targeted backup\_IDA.pp policy package

rm tmp/backup\_IDA.mod tmp/backup\_IDA.mod.fc

[root]# semodule -i backup\_IDA.pp

[root]#

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

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

SELinux is now configured to work with this application.

#### DISCLAIMER

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

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

# **Getting Started - Deploying on Windows**



The SAP for MaxDB iDataAgent is used to protect SAP for MaxDB databases. Follow the steps given below to install the SAP for MaxDB iDataAgent.

# INSTALLATION

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

#### **METHOD 1: INTERACTIVE INSTALL**

Use this procedure to install directly on Windows client computer.

#### METHOD 2: INSTALL SOFTWARE FROM COMMCELL CONSOLE

Use this procedure to remotely install on Windows client computer.

# **METHOD 1: INTERACTIVE INSTALL**

- **1.** Run **Setup.exe** from the **Software Installation Disc** on Windows client computer where the SAP application resides.
- 2. Select the required language.

Click Next.

3.	Select the	ontion t	o install	software	on	this	computer
	Jelect the	option t	.0 mstan	Solumber	UII	uns	computer

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

	≓ Install Software on this con	muter		
	Advanced options	ipulei		
	View documentation website	•		
	🖨 View Install Quick Start Guid	de (Requires Adobe	Acrobat Reader)	
	🖨 Install Adobe Acrobat Read	er		
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				0 Elix
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**BEFORE YOU BEGIN** 

System Requirements

**Download Software Packages** 

Select the language you will use during installation

Download the latest software package to perform the install.

.

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

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

5. Expand Client Modules | Backup & Recovery | Database and select SAP for MaxDB.

Click Next.

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- 6. Click **YES** to install Microsoft .NET Framework package.
  - This prompt is displayed only when Microsoft .NET Framework is not installed.
  - Once the Microsoft .NET Framework is installed, the software automatically installs the Microsoft Visual J# 2.0 and Visual C++ redistributable packages.
- 7. If this computer and the CommServe is separated by a firewall, select the **Configure** firewall services option and then click Next.

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

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

8.	Enter the fully qualified domain name of the <b>CommServe Host Name</b> .
	Click Next.

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

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

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

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Select Platforms	
Select the platforms	you want to configure.
B C1	Move the pointer over a
	Technology Engine platform name to see a description of the platform and
	reasons why it may be
	aAgent Modules disabled.
🖃 🕒 Client Mo	odules Disk Server
	ent Indexing and Search
	Based Search & Browse Installation Folder:
🖭 🗅 Archi	ive Management 0 MB/ 0 MB
	inuousDataReplicator Temporary on C: drive:
	acting Modules
🗉 🗅 Tools	V UMB/UMB
Installer	Special Registry Keys In Use
Install Agents for F	Restore Only < Back Next > Cancel
,	
Installer	
Setup will	now install Microsoft .NET Framework for the selected platforms.
Click Yes	s' to continue. Choosing "No' will exit the Setup. In such a case, you may resume
	er at any time.
	Yes No
Installer	
Firewall Configu	Iration
Configure firewall se	rvices
If there is a firewall	between this machine and the CommServe, configure firewall services below.
Configure firewa	all services
Please specify ho	w Windows Firewall is limiting network traffic. Whether it is possible to open
CommServe are b	view of the second seco
	her there is a Proxy in between.
This machine c	an open connection to CommServe on tunnel port
C CommServe ca	in open connection toward this machine
C CommServe is i	reachable only through a proxy
Installer	
	Next > Cancel
Installer	X
CommServe Nar	ne
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CommServe Nar Specify the CommSr name CommServ CommServ Enter a v mycomput Installer Installer Communication	ne erve computer name and host ve Client Name ve Host Name Keinty-company.com iter mycompany.com iter mycompany.com iter mycompany.com iter mycompany.com Select Name the communication paths. Select a client name
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CommServe Nar Specify the CommSr name CommServ CommServ Enter a v mycomput Installer Installer Communication	The erve computer name and host ve Client Name add, fully-qualified, IP host name; for example: add, fully-qualified, IP host name; fo
CommServe Nar Specify the CommSr name CommServ CommServ Enter a v mycomput Installer Installer Communication	The erve computer name and host ve Client Name ve Host Name add, fully qualified, IP host name; for example: er mycompany.com ter mycompany.com ter mycompany.com ter mycompany.com ter communication paths. Select a client name Exercice Select a niterface name that this computer will use to communicate with the CommServe undimycompany.com undimycompany.c
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CommServe Nar Specify the CommSr name CommServ CommServ Enter a v mycomput Installer Installer Communication	The erve computer name and host ve Client Name ve Host Name add, fully-qualified, IP host name: for example: ce:mycompany.com ter.mycompany.com ter.mycompany.com ter.mycompany.com ter.mycompany.com Select a client name Example: Select a client name Example: Select a ninterface name that this computer will use to communicate with the CommServe sed.mycompany.com set of the

#### 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.

**11.** Verify the default location for software installation.

 $\label{eq:click} Click \ \textbf{Browse} \ to \ change \ the \ default \ location.$ 

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.

#### **12.** Select a Client Group from the list.

#### Click Next.

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

nstaller	
Windows Firewa	all Exclusion List
Allow programs to c	communicate through Windows
Firewall	
Windows Firew	vall is ON
Add progra	ms to the Windows Firewall Exclusion List
If you plan on a exclusion list.	using Windows Firewall, it is recommended to add the software programs to the
exclusion list	
Installer	
	< Back Next > Cancel
nstaller	
Destination Fold	er
	on folder to install the program files.
Click Next to acc	ept the default location, or click Browse to choose an alternate location.
Destination Fold	ler
C:\Program File	Browse
	DIOWSC
Drive List	Space Required / Recommended
C: 928 MB	✓ 1394 MB / 1670 MB
JC. 320 MB	1334 MD 7 1070 MD
Installer	
	< Back Next > Cancel
	<back next=""> Cancel</back>
nstaller	<back next=""> Cancel</back>
nstaller Client Group Sel Select a client group	ection
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15. Select a Storage Policy. Click Next.

If you do not have Storage Policy created, this message will be displayed. Click  ${\bf OK}.$ 

You can create the Storage Policy later in step 20.

 Enter the location to create SAP MAXDB Config Files. You can Click **Browse** to select the location. Click **Next**.

Installer	X
Select Global Filter Options	
Select the Global Filter Options for the Agent.	
	_
Global Filters provides the ability to set exclusions within a CommCell to filter out data from data	
protection operations on all agents of a certain type.	
<ul> <li>Use Cell level policy</li> </ul>	
C Always use Global Filters	
C Do not use Global Filters	
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Installer	Ξ,
< Back Next > Cancel	
Installer	×
Storage Policy Selection	
Select a storage policy for the default subclient to be	
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Configure for Laptop or Desktop Backup	
Select a storage policy from the pull-down list.	
Unassigned	
Installer	=,
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Installer Storage Policy Selection	
Select a storage policy for the default subclient to be backed up.	
Configure for Laptop or Desktop Backup	
Installer < Back Next > Cancel	=
Installer	×
SAP MAX DB Config Files Path	
Select the location to create SAP MAX DB Config Files.	
Please select the Destination folder (with no spaces in the directory name) needed to locate the configuration files needed for the external Backup interface and click	
<next>, or click <browse> to choose the location.</browse></next>	
SAP MAX DB Config Files Path	
D:\Maxdb	
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D: 154032 MB 10 MB / 10 MB	
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Installer	
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Summary of install selections	
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install settings, click Next to begin copying files.	
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19. Click Finish.



If you already have a storage policy selected in step 15, click the **Next** button available on the bottom of the page to proceed to the **Configuration** section.

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

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

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

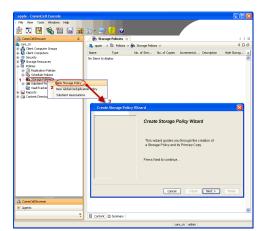
- From the **MediaAgent** list, click the name of a MediaAgent that will be used to create the primary copy and then click **Next**.
- $\circ\;$  For the device streams and the retention criteria information, click Next to accept default values.
- $\circ~$  Select Yes to enable deduplication for the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

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

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

# METHOD 2: INSTALL SOFTWARE FROM COMMCELL CONSOLE

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



2. Click Next.

3. Select Windows. Click Next.

4. Select Manually Select Computers. Click Next.

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Summary	
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5. Enter the fully qualified domain name of the Windows client computer where the MaxDB database resides.

For example: apple.domain.company.com

The SAP for MaxDB iDataAgent will be installed on this client computer.

6. Click Next.

 Specify UserName and Password of the computer. Click Next.

8. Select SAP for MaxDB. Click Next.

Installer	×
Enter the host names of t	he computers
Please enter the host names of t	he computers, one per line
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	Import From Active Directory
	Select from existing clients
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10. Type the SAP MASDB Configuration Path. Click Next.

11. Click Next.

12. Select Immediate. Click Next.

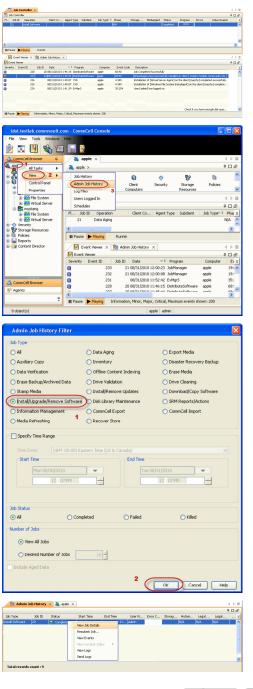
13. Click Finish.

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

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

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



# **Getting Started - Deploying in a Global Zone or Unix Servers**

< Previous Next >

# WHERE TO INSTALL

Install the software directly on the computer hosting the global zone or the Unix Server that you wish to protect. Make sure the computer satisfies the minimum requirements specified in the System Requirements.

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

Use the following steps to install the SAP for MaxDB iDataAgent on the following:

- Global Zone or a Solaris Server
- Any other supported Unix Server

### INSTALLATION

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

METHOD 1: INTERACTIVE INSTALL

Use this procedure to install the software directly on Unix client computer.

#### METHOD 2: INSTALL SOFTWARE FROM COMMCELL CONSOLE

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

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

# **METHOD 1: INTERACTIVE INSTALL**

- 1. Run the following command from the Software Installation Disc: ./cvpkgadd
- The product banner and other information is displayed.
   Press Enter.
- 3. Read the license agreement. Type y and press Enter.

If your computer is 32-bit, press Enter.

Press Enter.

# **RELATED TOPICS**

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

Provides comprehensive information on firewall.

Firewall

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

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

1) Install data protection agents on this computer

- 2) Advance options
- 3) Exit this menu

Your choice: [1]

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 platform (32 bit)

2) FS and MA only (64 bit)

Your choice: [1]

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

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

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

1) Install on a physical machine

6. Press Enter.

procedure.

5.

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

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

#### NOTES

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

9. Type the appropriate number to install SAP for MaxDB iDataAgent. A confirmation screen will mark your choice with an "X".

Type d for Done, and press Enter.

#### 10. Press Enter.

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

#### NOTES

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

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

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

#### 12. Press Enter.

provider website. If you decide to download it from the website now, please make sure you have internet connectivity at this time. connectivity. Do you want to download the latest service pack now? [no] Please specify where you want us to install Calypso 13. Press Enter to accept the default path and continue, or binaries. Enter a path to modify the default path and press Enter. It must be a local directory and there should be at least NOTES • Do not use the following characters when specifying the path: Installation Directory: [/opt] !@#\$%^&\*():/?\ Press Enter to accept the default location for the log files and continue, or 14. Please specify where you want to keep Calypso log files. It must be a local directory and there should be at least Enter a path to modify the default location and press Enter. 100MB of free space available. All log files will be created in a "calypso/Log\_Files" subdirectory, so if you NOTES

• All the modules installed on the computer will store the log files in this directory.

2) Install on a virtual machine

3) Exit

Your choice: [1]

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

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

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

Please specify the client name for this machine.

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

Physical Machine Client name: [angel]

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

- install. 1) MediaAgent [1301] [CVGxMA]
- ProxyHost iDataAgent [1102] [CVGxProxyIDA]
- ] 3) Documentum iDataAgent [1126] [CVGxDctmIDA] ] 4) Oracle iDataAgent [1204] [CVGxOrIDA]

- 5 SAP for Oracle [1205] [CVGxOcSAP]
  6 SAP for MaxDB [1206] [CVGxSAPMAXDB]
  7 Informix iDataAgent [1201] [CVGxIfIDA]
- 8) Sybase iDataAgent [1202] [CVGxSybIDA] 9) DB2 iDataAgent [1207] [CVGxDB2]
- 10) MySQL iDataAgent [1208] [CVGxMySQL]
- 11) PostGres iDataAgent [1209] [CVGxPostGres]
  - 12) Lotus Notes Database iDataAgent [1051]
- [CVGxLndhTDA] [ ] 13) Lotus Notes Document iDataAgent [1052]
- [CVGxLndocIDA]

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

Enter number(s)/one of "a,n,r,q,d,>,<,?" here: 6</pre>

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

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

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

1) Download from the software provider website.

2) Use the one in the installation media

3) Use the copy I already have by entering its unix path Your choice: [1] 2

Keep Your Install Up to Date - Latest Service Pack

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

This process may take some time depending on the internet

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".

enter "/var/log", the logs will actually be placed into "/var/log/calypso/Log\_Files".

		Log Directory: [/var/log]
15.	Type <b>no</b> .	Most of Software processes run with root privileges, but
	NOTES	some are launched by databases and inherit database access rights. To make sure that registry and log files can be
	• If entering <b>Yes</b> , go to Step 17.	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]
16.	Type <b>d</b> for done.	Access Permissions for Other Users
		Installer will assign full access rights to root user and its belonging group for all installed Software 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 Software agents involving third party software protection.
		<ul><li>[X] 1) Allow read permission to other users</li><li>[X] 2) Allow write permission to other users</li></ul>
		[X] 3) Allow execute permission to other users
		<pre>[a=all n=none r=reverse q=quit d=done &gt;=next &lt;=previous ? =help] Enter number(s)/one of "a,n,r,q,d,&gt;,&lt;,?" here:</pre>
17.	If you indicated <b>Yes</b> in Step 15., you will be prompted for the group name that must	Please enter the name of the group which will be assigned
	be used to launch processes.	to all Software files and on behalf of which all Software processes will run.
	Enter the group name and then press <b>Enter</b> .	In most of the cases it's a good idea to create a dedicated "calypso" group. However, if you're planning to
	<ul> <li>NOTES</li> <li>See your Unix systems administrator for assistance in creating a user group.</li> </ul>	use Oracle iDataAgent or SAP Agent, you should enter Oracle's "dba" group here.
		Group name: dba
		REMINDER
		If you are planning to install Calypso Informix, DB2, PostgreSQL, Sybase or Lotus Notes iDataAgent, please make sure to include Informix, DB2, etc. users into group "dba".
18.	Type a network TCP port number for the Communications Service (CVD) and press Enter.	Every instance of Calypso should use a unique set of network ports to avoid interfering with other instances
	Type a network TCP port number for the Client Event Manager Service (EvMgrC) and	running on the same machine.
	press <b>Enter</b> .	The port numbers selected must be from the reserved port number range and have not been registered by another application on this machine.
		Please enter the port numbers.
		Port Number for CVD : [8600]
		Port Number for EvMgrC: [8602]
19.	If this computer and the CommServe is separated by a firewall, type <b>Yes</b> and then press <b>Enter</b> .	Is there a firewall between this client and the CommServe? [no]
	For firewall options and configuration instructions, see Firewall Configuration and continue with the installation.	
	If you do not wish to configure the firewall services, type $\ensuremath{\text{No}}$ and then press $\ensuremath{\text{Enter}}$ .	
20.	Type the fully qualified domain name for <b>CommServe Host Name</b> and press <b>Enter</b> .	Please specify hostname of the CommServe below. Make sure
	NOTES	the hostname is fully qualified, resolvable by the name services configured on this machine.
	• Ensure that the CommServe is accessible before typing the name; otherwise the installation will fail.	CommServe Host Name:
21.	Press Enter.	Commcell Level Global Filters are set through Calypso

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 Type the number of a Client Group and press Enter. cs.company.com. Please choose the group(s) that you want A confirmation screen will mark your choice with an "X". Type **d** for done with the to add this client client.company.com to. The selected group(s) will be marked (X) and can be deselected if you selection, and press Enter to continue. enter the same number again. After you are finished with NOTES the selection, select "Done with the Selection". • This screen will be displayed only if Client Groups are configured for the CommCell. [] 1) Unix []2) DR [a=all n=none r=reverse q=quit d=done >=next <=previous ? =help] Enter number(s)/one of "a,n,r,q,d,>,<,?" here: 2</pre> Enter the number corresponding to the storage policy through which you want to back Please select one storage policy for this IDA from the list below: up the External Data Connector and press Enter. 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 If you do not have Storage Policy created, this message will be displayed. CommServe. Before you You may not be prompted for user input. can run any backups of this IDA, you will need to install a MediaAgent, create a Storage Policy and assign it.. You can create the Storage Policy later in step 25. Adjusting modes and permissions of files Successfully installed Calypso Certain Calypso packages can be associated with a virtual IP, or in other words, installed on a "virtual machine" Type 3 to the Exit option and press Enter. belonging to some cluster. At any given time the virtual machine's services and IP address are active on only one The installation is now complete. 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 Currently you have Calypso installed on physical node stone.company.com. Now you have a choice of either adding another package to

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.

Add another package to stone.company.com
 Install Calypso on a virtual machine
 Exit

Your choice: [1]

If you already have a storage policy selected in step 23, click the Next button available on the bottom of the page to proceed to the Configuration section.

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

25.

4

22.

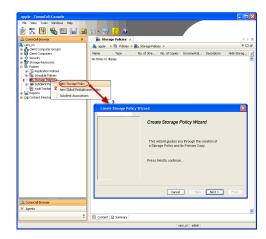
23.

24.

- 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.
- Select **Yes** to enable deduplication for the primary copy.
- From the **MediaAgent** list, click the name of the MediaAgent that will be used



to store the Deduplication store.

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

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

# METHOD 2: INSTALL SOFTWARE FROM COMMCELL CONSOLE

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

2. Click Next.

3. Select Unix and Linux. Click Next.

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4. Select Manually Select Computers. Click Next.

5. Enter the fully qualified domain name of the computer in which you wish to install. For example: apple.domain.company.com The SAP for MaxDB *i*DataAgent will be installed on this client computer. Click Next.

6. Click Next.

7. Specify UserName and Password of client computer. Click Next.

Installer	×
Select how to discover the computers for instal	ling the software
<ul> <li>Manually select computers</li> <li>Software will be installed only on the selected list of computers</li> </ul>	Pers .
Automatically discover computers	
Computers will be discovered when the job runs.	
< Back Next > Save As Script	Finish Cancel Help
Installer	X
Enter the host names of the computers	
Please enter the host names of the computers, one per line	
apple.domain.company.com	Import from File
	Import From Active Directory
	Select from existing clients
< Back Next > Save As Script	Finish Cancel Help
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8. Select SAP for MaxDB . Click Next.

- 9.
- Select **Client Group** from **Available** and click **Add**. Do not add more than one Client Group.
- Select a **Storage Policy** from the drop-down list. Click **Next**.

10. Type the SAP MaxDB Configuration Path. Click Next.

11. Click Next.

# 12. Select Immediate. Click Next.

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13. Click Finish.

- You can track the progress of the job from the  ${\bf Job}\ {\bf Controller}$  or  ${\bf Event}\ {\bf Viewer}$ 14. window.
- Once the job is complete, right-click the  ${\bf CommServe}$  computer, click  ${\bf View}$  and then click  ${\bf Admin \ Job \ History}.$ 15.

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User Name: root Password: ****	
Install Flags	
Install Updates: Yes Reboot (if required): N	
Kill Browser Processes Ignore Running Jobs:	(if required): No
Stop Oracle Services (i	required): No
Delete Packages After	ready part of the CommCell component: No Install: Yes
Listen only on the netw Do not load WA driver	work interface used as hostname: No in to kernel this time: No
Number Of Streams: 0	
Access permissions for Ignore Client/Host Nar	other users: 0 ne Conflict: Yes
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16. Select Install/Upgrade/Remove Software. Click **OK**.

Admin Job History Filter		
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<ul> <li>Auxiliary Copy</li> </ul>	O Inventory	O Disaster Recovery Backup
O Data Verification	Offline Content Indexing	C Erase Media
C Erase Backup/Archived Data	O Drive Validation	O Drive Cleaning
🚫 Stamp Media	O Install/Remove Updates	O Download/Copy Software
Install/Upgrade/Remove Softwa	Disk Library Maintenance	SRM Reports/Actions
O Information Management	O CommCell Export	O CommCell Import
O Media Refreshing	O Recover Store	
Specify Time Range		
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Start Time	End Time	
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**17.** You can view the following details about the job by right-clicking the job:

- Items that succeeded during the job
- Items that failed during the job
- Details of the job
- Events of the job
- Log files of the job

Previous Next >

# **Getting Started - Deploying in a Non-Global Zone**

# WHERE TO INSTALL

Install the software on each of the non-global zones where you have application data.

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

# INSTALLATION

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

**METHOD 1: INTERACTIVE INSTALL** 

Use this procedure to install the software directly on Unix client computer.

#### METHOD 2: INSTALL SOFTWARE FROM COMMCELL CONSOLE

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

# **METHOD 1: INTERACTIVE INSTALL**

**1.** Mount the installation disc on the non-global zone.

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

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

Connect to Non-Global Zone terminal

 Run the following command from the Software Installation Disc: ./cvpkgadd

The product banner and other information is displayed.
 Press Enter.

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

5. Press Enter.

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

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

7. Press Enter.

# **RELATED TOPICS**

System Requirements

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

#### Firewall

Provides comprehensive information on firewall.

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

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

1) Install data protection agents on this computer

- 2) Advance options
- 3) Exit this menu

Your choice: [1]

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 platform (32 bit)

2) FS and MA only (64 bit)

Your choice: [1]

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

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

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

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

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

#### NOTES

- The interface name and IP addresses depend on the computer in which the software is installed and may be different from the example shown.
- 9. Press Enter.
- 10. Type the appropriate number to install **SAP for MaxDB** iDataAgent. A confirmation screen will mark your choice with an "X".

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

#### Press Enter. 11.

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

#### NOTES

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

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

- Select Use the one in the installation media, to install the software scripts from 2) Use the one in the installation media the disc or share from which the installation is performed.
- Select Use the copy I already have by entering its unix path, to specify the path if you have the software script in an alternate location.

#### Press Enter. 13.

14. Press Enter to accept the default path and continue, or Enter a path to modify the default path and press Enter.

NOTES

- Do not use the following characters when specifying the path: !@#\$%^&\*():/?\
- 15. Press Enter to accept the default location for the log files and continue, or Enter a path to modify the default location and press Enter.

NOTES

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 GUT

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

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

Please specify the client name for this machine.

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

Physical Machine Client name: [angel]

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

- 1) MediaAgent [1301] [CVGxMA]
- ] 2) ProxyHost iDataAgent [1102] [CVGxProxyIDA] ] 3) Documentum iDataAgent [1126] [CVGxDctmIDA]
- 4) Oracle iDataAgent [1204] [CVGxOrIDA] 5) SAP for Oracle [1205] [CVGxOrSAP] 6) SAP for MaxDB [1206] [CVGxSAPMAXDB]

- 7) Informix iDataAgent [1201] [CVGxIfIDA]
   8) Sybase iDataAgent [1202] [CVGxSybIDA]
- 9 DB2 iDataAgent [1207] [CVGxDB2]
  10) MySQL iDataAgent [1208] [CVGxMySQL]
- 11) PostGres iDataAgent [1209] [CVGxPostGres] | 12) Lotus Notes Database iDataAgent [1051]
- [CVGxLndbIDA] ] 13) Lotus Notes Document iDataAgent [1052]
- [CVGxLndocIDA]
- [a=all n=none r=reverse g=guit d=done >=next <=previous ? =help]

Enter number(s)/one of "a,n,r,q,d,>,<,?" here: 6</pre>

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 The second second at the second secon connectivity.

1) Download from the software provider website.

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

22.

Press Enter.

	• All the modules installed on the computer will store the log files in this directory.	"/var/log/calypso/Log_Files".
		Log Directory: [/var/log]
16.	Type no. NOTES • If entering Yes, go to Step 18.	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]
17.	Type <b>d</b> for done.	Access Permissions for Other Users
		Installer will assign full access rights to root user and its belonging group for all installed Software 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 Software agents involving third party software protection.
		<ul><li>[X] 1) Allow read permission to other users</li><li>[X] 2) Allow write permission to other users</li><li>[X] 3) Allow execute permission to other users</li></ul>
		<pre>[a=all n=none r=reverse q=quit d=done &gt;=next &lt;=previous ? =help] Enter number(s)/one of "a,n,r,q,d,&gt;,&lt;,?" here:</pre>
18.	If you indicated <b>Yes</b> in Step 16., you will be prompted for the group name that must be used to launch processes.	Please enter the name of the group which will be assigned to all Software files and on behalf of which all Software
	Enter the group name and then press Enter.	processes will run.
	<ul><li>NOTES</li><li>See your Unix systems administrator for assistance in creating a user group.</li></ul>	In most of the cases it's a good idea to create a dedicated "calypso" group. However, if you're planning to use Oracle iDataAgent or SAP Agent, you should enter Oracle's "dba" group here.
		Group name: dba
		REMINDER
		If you are planning to install Calypso Informix, DB2, PostgreSQL, Sybase or Lotus Notes iDataAgent, please make sure to include Informix, DB2, etc. users into group "dba".
19.	Type a network TCP port number for the Communications Service (CVD) and press <b>Enter</b> .	Every instance of Calypso should use a unique set of network ports to avoid interfering with other instances running on the same machine.
	Type a network TCP port number for the Client Event Manager Service (EvMgrC) and press <b>Enter</b> .	The port numbers selected must be from the reserved port number range and have not been registered by another application on this machine.
		Please enter the port numbers.
		Port Number for CVD : [8600]
		Port Number for EvMgrC: [8602]
20.	If this computer and the CommServe is separated by a firewall, type <b>Yes</b> and then press <b>Enter</b> .	Is there a firewall between this client and the CommServe? [no]
	For firewall options and configuration instructions, see Firewall Configuration and continue with the installation.	
	If you do not wish to configure the firewall services, type <b>No</b> and then press <b>Enter</b> .	
21.	Type the fully qualified domain name for <b>CommServe Host Name</b> and press <b>Enter</b> .	Please specify hostname of the CommServe below. Make sure the hostname is fully qualified, resolvable by the name
	NOTES	services configured on this machine.
	<ul> <li>Ensure that the CommServe is accessible before typing the name; otherwise the installation will fail.</li> </ul>	CommServe Host Name:

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 Type the number of a Client Group and press Enter. cs.company.com. Please choose the group(s) that you want A confirmation screen will mark your choice with an "X". Type **d** for done with the to add this client client.company.com to. The selected group(s) will be marked (X) and can be deselected if you selection, and press Enter to continue. enter the same number again. After you are finished with NOTES the selection, select "Done with the Selection". • This screen will be displayed only if Client Groups are configured for the CommCell. [] 1) Unix []2) DR [a=all n=none r=reverse q=quit d=done >=next <=previous ? =help] Enter number(s)/one of "a,n,r,q,d,>,<,?" here: 2</pre> Enter the number corresponding to the storage policy through which you want to back Please select one storage policy for this IDA from the list below: up the External Data Connector and press Enter. 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 If you do not have Storage Policy created, this message will be displayed. CommServe. Before you You may not be prompted for user input. can run any backups of this IDA, you will need to install a MediaAgent, create a Storage Policy and assign it.. You can create the Storage Policy later in step 26. Adjusting modes and permissions of files Successfully installed Calypso Certain Calypso packages can be associated with a virtual IP, or in other words, installed on a "virtual machine" Type 3 to the Exit option and press Enter. belonging to some cluster. At any given time the virtual machine's services and IP address are active on only one The installation is now complete. 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 Currently you have Calypso installed on physical node stone.company.com. Now you have a choice of either adding another package to

the existing installation or configure Calypso on a

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

virtual machine for use in a cluster.

Your choice: [1]

If you already have a storage policy selected in step 24, click the Next button available on the bottom of the page to proceed to the Configuration section.

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

26.

4

23.

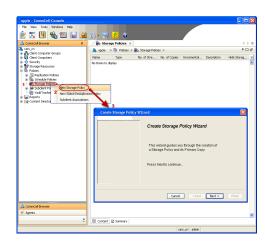
24.

25.

- 1. From the CommCell Browser, navigate to Policies.
- 2. Right-click the Storage Policies and then click New Storage Policy.
- 3. Follow the prompts displayed in the Storage Policy Wizard. The required options are mentioned below:
  - o Select the Storage Policy type as Data Protection and Archiving and click Next.
  - 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.
- Select **Yes** to enable deduplication for the primary copy.
- From the MediaAgent list, click the name of the MediaAgent that will be used



to store the Deduplication store.

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

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

# METHOD 2: INSTALL SOFTWARE FROM COMMCELL CONSOLE

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

2. Click Next.

3. Select Unix and Linux. Click Next.

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4. Select Manually Select Computers. Click Next.

5. Enter the fully qualified domain name of the computer in which you wish to install. For example: apple.domain.company.com The SAP for MaxDB *i*DataAgent will be installed on this client computer. Click Next.

6. Click Next.

7. Specify UserName and Password of client computer. Click Next.

Installer	
Select how to discover the computers for installing the software	
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8. Select SAP for MaxDB . Click Next.

- 9.
- Select **Client Group** from **Available** and click **Add**. Do not add more than one Client Group.
- Select a **Storage Policy** from the drop-down list. Click **Next**.

10. Type the SAP MaxDB Configuration Path. Click Next.

11. Click Next.

# 12. Select Immediate. Click Next.

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Select Package(s) to Install
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13. Click Finish.

- You can track the progress of the job from the  ${\bf Job}\ {\bf Controller}$  or  ${\bf Event}\ {\bf Viewer}$ 14. window.
- Once the job is complete, right-click the  ${\bf CommServe}$  computer, click  ${\bf View}$  and then click  ${\bf Admin \ Job \ History}.$ 15.

Installer 🛛
Please Select When To Run The Job
Job Initiation
Immediate     Run this lob now
Run this job now
O Schedule
Configure Schedule Pattern Configure
Installer
Summary Please verify all the selected options and click Finish to run the job immediately or click Save As Script to save the job options as a script.
Client Install Option
Select Type Of Installation: Unix and Linux Select Type Of Client Discovery: Manually select computers
Reuse Active Directory credentials: No Client Authentication for Job
User Name: root Password: ****
Install Flags
Install Updates: Yes Reboot (if required): No
Kill Browser Processes (if required): No Ignore Running Jobs: No
Stop Oracle Services (if required): No Skip clients that are already part of the CommCell component: No
Delete Packages After Install: Yes Listen only on the network interface used as hostname: No
Do not load WA driver in to kernel this time: No Number Of Streams: 0 Access permissions for other users: 0
Access permissions for other users: 0 Ignore Client/Host Name Conflict: Yes
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16. Select Install/Upgrade/Remove Software. Click **OK**.

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

# **Getting Started - SAP for MaxDB Configuration**

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# CONFIGURATION

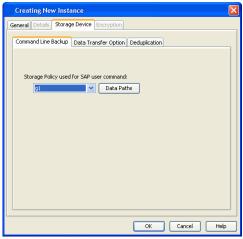
Once the SAP for MaxDB iDataAgent is installed, you need to configure an Instance and associate the SAP MaxDB database with the *i*DataAgent to facilitate backups. Each instance references a MaxDB database.

The following sections provide the necessary steps required to create and configure these components for a first backup of a MAxDB database.

- From the CommCell Browser, navigate to Client Computers |<Client> | SAP for MaxDB.
  - Right-click SAP for MaxDB | All Tasks and click New Instance.
- 2.
- Enter the Instance name in SAP MaxDB Instance text field
  - Enter a description about the instance.

Constance     Constance	
Creating New Instance	
General Details Storage Device Encryption         Client Computer:       saplab         DataAgent:       SAP for MAX DB         SAP MAX DB Instance:       FESTI         Description	
OK Cancel	Help

**3.** Click the **Storage Device** tab, and then click **Command Line Backup** tab to select the storage policy for backups from the list of existing storage policies.



#### 5. Click **OK** to save the instance.

#### 6. Configure the backup device:

Configure the backup device as a medium and define the path for stream/pipe that is used for the storage media.

For Windows Client :

Log in to the database and run the following command from the dbm client interface:

dbmcli -d <database name> -u <UserName,Password>

Enter the commands for defining the path of stream/pipe.

Windows pipes must be specified in the form \\. \pipe\[pipe name]

#### Example:

dbmcli -d certl -u DBM,DBM wherein certl = Database name DBM,DBM = UserName,Password

medium\_put BackData2\mem1
\\.\pipe\pipe mem1 PIPE DATA 0 0 NO NO '' BACK

For Unix Client:

Log in to the database using the following command from dbm client interface: dbmcli -d <database name> -u <UserName,Password>

Enter the adjacent commands for defining the path of stream/pipe.

You can specify any file path as a pipe and create the pipes in the operating system.

#### 7. Associate the SAP MAXDB database:

#### For Windows Client :

Run the command from the dbm client interface to associate the SAP MAXDB database with the product software.

For Unix Client:

- Run the commands from dbm client interface to associate the SAP MAXDB database with the product software.
- Configure the shared library path in the .profile file from the root directory.

#### 8. Configure the parameter file:

Ensure to include the CVInstanceName parameter name followed by the name of the instance. Include the CVClientName parameter, followed by the name of the client. Also, ensure to set the number of streams for the backup. For Selective Online Full Backups, include the selectiveOnlineFull parameter in the parameter file and set the parameter value to **1** to enable a selective online full backup from the client. To disable this capability, set the parameter value to **0**.

For Windows Client:

The parameter file is located under the SAP MAXDB config file directory that you provide during installation.

For Unix Client

The parameter files is located under the

medium put BackPages2\mem1

\\.\pipe\pipe\_mem3 PIPE PAGES 0 0 NO NO '' BACK

medium\_put BackLog\mem1

\\.\pipe\pipe\_mem5 PIPE LOG 0 0 NO NO '' BACK

medium\_put CompleteF\mem1

\\.\pipe\pipe\_mem5 PIPE File 0 0 NO NO '' BACK

-- wherein BackData2,BackPages2,BackLog,CompleteF = backup devices

#### Example:

bird:/opt/sdb# dbmcli -d cert1 -u DBM,DBM

wherein cert1 = Database name

DBM, DBM = UserName, Password

medium put BackData2\mem1

/space/sdb/data/cert1/files/pipe\_mem1 PIPE DATA 0 0
NO NO '' BACK

medium put BackPages2\mem1

/space/sdb/data/cert1/files/pipe\_mem3 PIPE PAGES 0 0
NO NO '' BACK

medium\_put BackLog\mem1

/space/sdb/data/cert1/files/pipe\_mem5 PIPE LOG 0 0
NO NO '' BACK

medium put CompleteF\mem1

/space/sdb/data/cert1/files/complete FILE DATA 0 0 YES

-- wherein BackData2,backPages2,BackLog,CompleteF = backup devices

dbm\_configset -raw BSI\_ENV

\<software install path>\SapMaxDbAgent\backint.conf

dbm configset -raw BSI ENV

/<software install path>/SapMaxDbAgent/backint.conf dbm\_configset -raw set\_variable\_0 LD\_LIBRARY\_PATH= /<software install path>/Base dbm configset -raw set variable 1 SHLIB PATH=

/<software install path>/Base

#### For AIX and HP-UX:

SHLIB PATH=/<software install path>

/Base:/<software install path>/Base64

export SHLIB PATH

#### For Linux and Solaris:

LD LIBRARY PATH=/<software install path>

/Base:/<software install path>/Base64

export LD\_LIBRARY\_PATH

#### For Example:

numstreams (Modify "numstreams" for Multiple streams
backup)

- 1
- CvInstanceName

Instance001

CvClientName

magnum\_SN

SelectiveOnlineFull

(To Enable Selective Online Full give its value as 1. To disable

<software\_install\_folder>/SapMaxDbAgent.

0)

1

 $\texttt{CV\_restCopyPrec}$  ( To enable a restore from a secondary copy,

add the  $\texttt{CV\_restCopyPrec}$  parameter followed by the copy precedence number to <code>2</code>)

2

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# **Getting Started - SAP for MAXDB Backup**

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## **PERFORM A BACKUP**

After configuring your Instance, BACKINT interface, and parameter file, you are ready to perform your first backup.

#### WHAT GETS BACKED UP

The SAP for MAXDB iDataAgent backs up the following types of data:

- All the database files.
- Log Files.
- Configuration Files which include Parameter files (param file).

#### WHAT DOES NOT GET BACKED UP

The SAP for MaxDB iDataAgent does not backup the MaxDB application files associated with the MaxDB installation.

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

#### PERFORM OFFLINE (COLD) FULL BACKUP

1. Open the DBM Command line Interface and verify the status of the database.

```
#> dbmcli -d CERT1 -u dbm,dbm -uUTL
dbmcli on CERT1>db_state
OK
State
ADMIN
```

2. For offline backup, MAXDB should be in admin (cold) state. If DB is not in this mode, execute the following command

#> dbmcli -d CERT1 -u dbm,dbm db cold

- 3. Type the command to execute the offline full backup
  - #> dbmcli -d CERT1 -u dbm,dbm -uUTL -c backup start BackData2 Migration

4. The backup should complete without any errors.

ok

Return Code 0

#### PERFORM ONLINE (WARM) FULL BACKUP

1. Open the DBM Command line Interface and verify the status of the database.

```
#> dbmcli -d CERT1 -u dbm,dbm -uUTL
dbmcli on CERT1>db_state
OK
State
ONLINE
```

2. For online backup, MAXDB should be in online (warm) state. If DB is not in this mode, execute the command

#> dbmcli -d < DBsid > -u dbm,dbm db\_warm

3. Type the command to execute the online full backup

# dbmcli -d CERT1 -u dbm,dbm -uUTL -c backup\_Start BackData2 Recovery

The backup should complete without any errors.

ok

Return Code 0

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# **Getting Started - SAP for MaxDB Restore**

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# **PERFORMING A RESTORE**

н.

It is recommended that you perform a restore operation immediately after your first full backup to understand the process.

You can perform a basic restore operation to restore and recover an entire database. The following section provides step-by-step instructions for running your first basic restore:

1.	Open the DBM Command line Interface and verify the status of the database.	#> dbmcli -d CERT1 -u dbm,dbm -uUTL
		dbmcli on CERT1>db_state
		OK
		State
		ADMIN
2.	MAXDB should be in admin (cold) state to perform a basic restore operation. If the database is in online (warm) mode, execute the command.	#> dbmcli -d CERT1 -u dbm,dbm db_cold
3.	Type the command to check all backup IDs. The command should return OK.	# dbmcli -d CERT1 -u dbm,dbm -uUTL
		dbmcli on CERT1>backup_ext_ids_get BackData2
		OK
4.	Type the command to list all the External Backup ID's. The command should return OK and display a list of all External Backup ID's.	dbmcli on CERT1>backup_ext_ids_list
		ОК
		END
		AVAILABLE CERT1 SAP_0_46
		/space/sdb/data/cert1/files
		/pipe_mem1 DATA MIGRATION 2005-11-05 16:11:49  AVAILABLE CERT1 SAP_0_46
		/space/sdb/data/cert1/files
_	<b>T</b>	/pipe_mem2 DATA MIGRATION 2005-11-05 16:11:49  dbmcli on CERT1>
5.	Type the command to execute the restore of entire database.	
		recover_start BackData2
		DATA ExternalBackupID "CERT1 SAP_0_46
		/space/sdb/data/cert1/files/pipe_mem1,
		CERT1 SAP_0_46
		/space/sdb/data/cert1/files/pipe_mem2"
	The restore should complete without any errors.	dbmcli on CERT1>exit
		ОК
6.	You can monitor the progress of the restore job in the <b>Job Controller</b> or <b>Event</b> <b>Viewer</b> window of the CommCell Console.	▲ dranki direver     ● </th

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|| Pause || Playing Running: 1 Pending: 0 Walting: 0 Queued: 0 Suspended: 0 Total Jobs: 1 Job Streams: 1 High Watemark: 100

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💣 defaultBackupSet

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7. Once the restore job has completed, right-click the entity (e.g. agent, instance) and click **View** | **Restore History**.

If the entity chosen is the client computer, click **View** | **Job History**.

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 Client Co...

 Agent Type
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 Destination Client Computer: All Clients ~ Specify Time Range Start Time End Time /ed 11/10/2010 🔹 nu 11/11/2010 🗨 03:46 AM -03 : 46 AM Job Type Recovery/Retrieve Stub Recall Job Status 📀 All ○ Completed ○ Failed 🔘 Killed ОК Cancel Advanced Help

8. Click OK.

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.

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Quick Start - SAP for MaxDB iDataAgent