

Quick Start Guide - Object Link

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Terminology

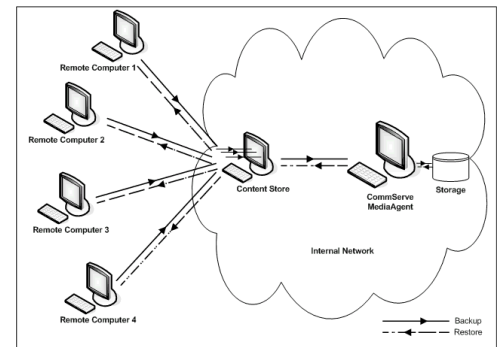
INTRODUCTION

Object Link provides a versatile data repository solution that can be integrated with a wide variety of client components. The powerful architecture provides flexible implementation options to suit diverse functional domains. The Object Link provides a web service interface through which it can be accessed.

You can deploy/implement Object Link in one of the following ways:

- Create your own user interface that implements the web service to connect to the Object Link. This acts as the front-end application through which you back up your data.
- Integrate the web service into your application so that the application data can be backed up to the Object Link seamlessly.
 - The software provides a ready-to-use integration with SAP Archive software. You can link the SAP Archive software to Object Link such the Object Link can be used as a SAP Archive repository.
- Use the standard user interface available with the Calypso suite.

As the Object Link is supported by the CommServe and MediaAgent at the backend, it provides sophisticated storage management features such as encryption, compression, deduplication, retention, and data aging.



KEY FEATURES

Object Link offers the following key features:

MULTI-LEVEL RETENTION

By default, all backup data is retained indefinitely. However, you can remove data that is no longer needed for the future to free up space on the media for new backups. This can be achieved by defining a retention period for the backup data. Object Link offers flexible data retention capability at multiple levels.

Retention can be defined at the following levels:

- Documents/Folders - retention at the granular level applicable to individual documents/folders.
- Site - retention at the site level applicable to all the data stored in the site.
- Storage Policy - retention at the storage policy level applicable to all sites associated with the storage policy.

This multi-level retention control provides the ability to define retention at different hierarchical levels in the document repository. The method used to retain your data will depend upon the needs of your environment.

CONTENT INDEXING

Content Indexing provides the ability to content index and search both your file server/desktop data and protected/archived data for data discovery and other purposes enabling Compliance Officers, Administrators and End-Users to search and restore file system and application data.

Similar to data retention, content indexing can also be defined at multiple levels. Content Indexing rules can be set at the document level as well the site level. This provides flexible content indexing capability.

FULL RANGE OF BACKUP AND RECOVERY OPTIONS

The content store iDataAgent in conjunction with the UNIX File System iDataAgent automatically perform incremental backups of the content residing within the Object Link repositories.

An incremental backup is extremely beneficial because it contains only data that is new or has changed since the last backup, regardless of the type. On average, incremental backups consume far less media and place less of a burden on resources than full backups.

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 Object Link 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 sent to e-mail recipients without user intervention.

For more information on Job Management refer to: File System Archive Job Management.

SPACE MANAGEMENT ALERT TYPE

MODIFY LOW WATERMARK

You can establish a low watermark for each disk library. The low watermark is the minimum amount of free space at which the low watermark warning should be generated. If the amount of free space, for all the combined mount paths, reaches or falls below the low watermark, the system logs a message in the Event Viewer and generates the *Insufficient Storage Alert*, if configured.

THRESHOLDS FOR MANAGED DISK SPACE

Using Managed Disk Space data on disks can be retained as long as possible without running out of disk capacity and affecting future data protection operations. Managed Disk Space provides a way to prune data according to disk capacity in addition to the existing retention criteria which is usually defined by number of days as well as full cycles of data. This adds another layer of retention parameter in addition to specified days/cycles.

Two disk capacity thresholds for managed disk space can be defined. They are:

- A threshold (in percentage) for starting the data aging operation (upper limit)
- A threshold (in percentage) for stopping the data aging (lower limit)

When disk capacity reaches a high threshold, e.g., 85%, older data automatically qualify for removal. They are removed from the disk if they meet their retention criteria and have been copied to appropriate secondary copies. The aging process automatically stops when the disk capacity reaches a low threshold, e.g., 70%.

Once the managed disk is set up the process runs automatically without user intervention to manage disk capacity. Data protection operations are retained on disk longer than usual providing the benefits of disk storage without having to spend manual efforts to manage the disk capacity.

TERMINOLOGY

The Object Link documentation uses the following terminology:

CLIENT	The computer in which the agent is installed and contains the data that will be protected.
SITE	The data path for the content repository on the server (Object Link Client) to which data will be uploaded for data protection.

System Requirements - Object Link

The following requirements are for the Object Link:

OPERATING SYSTEM

LINUX

Red Hat Enterprise Linux/CentOS 5.2 with glibc 2.5.x

HARD DRIVE

1 GB minimum of hard disk space for installing the software.

1 TB of free disk space is required for job result directory.

50 MB of free disk space is required for log directory.

MEMORY

4 GB RAM minimum required; 8 GB RAM recommended

Swap space = 2*RAM size

PROCESSOR

Intel Pentium or compatible processors

PERIPHERALS

DVD-ROM drive

Network Interface Card

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 - Linux File System *iDataAgent*.

NETWORK

TCP/IP Services configured on the computer.

The following will be automatically installed during the installation of this software if it is not already installed:

- Apache Tomcat Server, Version 6.x
- PostgreSQL, Version 8.4.x

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

Deployment - Install the Object Link

WHERE TO INSTALL THE SOFTWARE

The Content Store software is installed on the computer which satisfies the minimum requirements specified in System Requirements.

INSTALLATION

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

- Method 1: Install Software from the CommCell Console - to install remotely on a client computer.
- Method 2: Install the Object Link - Unix - to install directly on Unix client computer.

WHERE TO GO FROM HERE

Once you install the software you must add the client and create a site from the CommCell Console. This is explained in Configuration - Object Link.

SEE ALSO

System Requirements - Provides complete information on system requirements.

Install Object Link

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Install Requirements

Before You Begin

Install Procedure

- Getting Started
- Select Components for Installation
- Base Software Installation
- Enable Global Filters
- Client Group Selection
- Storage Policy Selection

Post-Install Considerations

INSTALL REQUIREMENTS

The following procedure describes the steps involved in installing the Object Link and the Unix File System *iDataAgent*.

The Object Link is installed on the computer from which the Agent secures data. (This computer is referred to as the *Client* computer in this install procedure.) A PostgreSQL server database and Apache Tomcat will be automatically installed while installing the software.

Verify that the computer in which you wish to install the software satisfies the minimum requirements specified in System Requirements - Object Link and System Requirements - Linux File System *iDataAgent*.

Review the following Install Requirements before installing the software:

GENERAL

- Review Install Considerations before installing the software.
- Agents should be installed only after the CommServe and at least one MediaAgent have been installed in the CommCell. Also, keep in mind that the CommServe and MediaAgent must be installed and running (but not necessarily on the same computer), before you can install the Agent.
- Ensure there is an available license on the CommServe for the Agent.
- Verify that you have the Software Installation Disc that is appropriate to the destination computer's operating system.

RED HAT LINUX

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

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

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

```
192.168.1.111 bluesky localhost
```

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

```
127.0.0.1 localhost
```

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

```
192.168.1.111 bluesky
```

BEFORE YOU BEGIN

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

INSTALL PROCEDURE

GETTING STARTED

1. Place the software installation disc for the Unix platform into the disc drive.
You can also install the product using a disc drive mounted on another computer on the network.
 - On Solaris, double-click the `cvpkgadd` program from the File Manager window.
 - On other Unix platforms, open the Terminal window, navigate to the software installation disc and then enter `./cvpkgadd`.
2. The product banner and other information is displayed.

Press **Enter** to continue.

3. Read the license agreement. Type **y** and press **Enter** to continue.
4. Enter the number corresponding to the setup task you want to perform.

NOTES

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

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

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

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

Press **Enter** to continue

NOTES

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

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

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

NOTES

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

7. Specify the client name for the computer.

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

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]

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

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

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

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

Your choice: [1]

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

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

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

Please specify the client name for this machine.

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

Physical Machine Client name: [angel]

SELECT COMPONENTS FOR INSTALLATION

8. Enter the number corresponding to the **CVGxOBSRV** module.

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

NOTES

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

Install Calypso on physical machine client.company.com

Select the Calypso module that you would like to install

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

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

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

BASE SOFTWARE INSTALLATION

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

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

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

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

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.

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

NOTES

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

Press **Enter** to continue.

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

NOTES

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

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

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

13. Specify the location for the log files.

NOTES

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

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

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

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

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

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

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

NOTES

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

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

specify how you want to get this pack.

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

1) Download from the software provider website.

2) Use the one in the installation media

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

Your choice: [1] 2

Keep Your Install Up to Date - Latest Service Pack

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

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

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

Press <ENTER> to continue ...

Please specify where you want us to install Calypso binaries.

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

..

Calypso will be installed in /opt/calypso.

Press ENTER to continue ...

Please specify where you want to keep Calypso log files.

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

Log Directory: [/var/log]

..

Calypso log files will be created in /var/log/calypso/Log_Files.

Press ENTER to continue ...

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

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

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

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

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

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

Please enter the port numbers.

Port Number for CVD : [8600]

Port Number for EvMgrC: [8602]

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 **No** and then press **Enter** to continue.

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

NOTES

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

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

NOTES

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

Click **Enter** to continue.

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

CommServe Host Name:

Enter your CommCell user name and password:

User Name :

Password :

Press <ENTER> to continue ...

ENABLE GLOBAL FILTERS

19. Type the appropriate number for configuring Global Filters for the default subclient and press Enter to continue.

NOTES

- Select **Use Cell level Policy** to inherit the global filter policy configuration set for the CommCell, i.e., if the **Use Global Filters on All Subclients** option is selected in the **Global Filters** dialog box (from the CommCell Console's Control Panel), then this policy will be applied to the default subclient as well. If is not selected, then the global filters will not be applied to the default subclient.
- Select **Always use Global filters** to always apply the global filters policy to the default subclient regardless of the policy set for the CommCell.
- Select **Do not use Global filters** to disregard applying the global filters to the default subclient regardless of the policy set for the CommCell.

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

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

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

CLIENT GROUP SELECTION

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

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

NOTES

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

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

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

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

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

+-----+

IMPORTANT:

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

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

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

+-----+

21. Press **Enter** to continue.

NOTES

- Schedules help ensure that the data protection operations for the Agent are automatically performed on a regular basis without user intervention. For more information, see Scheduling.

STORAGE POLICY SELECTION

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

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

NOTES

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

23. Type the path or accept the default path for storing the database.

Provide a password for super-user to access the database and press **Enter** to continue.

24. Type the port number or accept the default port number to connect the Server and then press **Enter** to continue.

25. Type the port number or accept the default port number to run the web services and then press **Enter** to continue.

26. Type or accept the default URL for webservice and then press **Enter** to continue.

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

The installation is now complete.

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

Storage Policy: [3]

Please specify the directory where OBJECTSERVER Database will be installed.

Database Installation Directory: [/opt]

Please provide a password for the database superuser.

A locked Unix user account will be created if not present.

Password:

Re-enter the password for confirmation:

Password:

Please select the port number the server should listen on.

Port: [5432]

Creating DataBase for the ObjectServer IDA...done.

Database created successfully.

Please provide a port number for the webservice to run.

Port: [8080]

Please provide URL of webservice.

Webservice URL: [angel.company.com]

Tomcat installed successfully.

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

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

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

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

Your choice: [1]

POST-INSTALL CONSIDERATIONS

GENERAL

Install post-release updates or Service Packs that may have been released after the release of the software. When you are installing a Service Pack, ensure that it is the same version as the one installed in the CommServe Server. Alternatively, you can enable Automatic Updates for quick and easy installation of updates in the CommCell component.

Configuration - Object Link

Basic | **Advanced**

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Overview

Add a Client

Create a Site

OVERVIEW

Once Object Link is installed, you must configure it as a repository before files can be uploaded for data protection. To configure Object Link, complete the following tasks:

- Add a Object Link Client to your CommCell so it can support data protection, deduplication and content indexing operations.
- Define the sites (repositories) where your data will reside on the server.

Refer to the following sections for step-by-step instructions.

ADD A CLIENT

This section describes how to add a client for the Content Store iDataAgent in order to define the repository on the server.

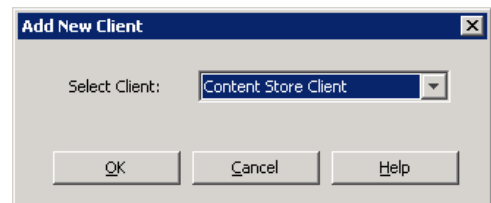
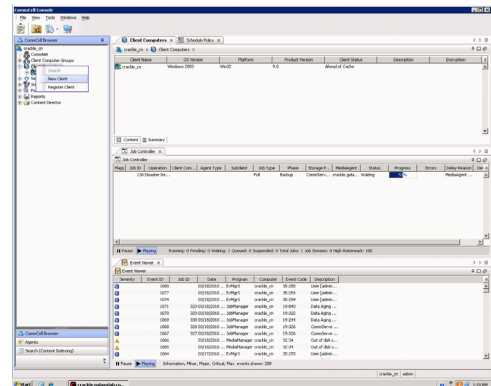
PREREQUISITES

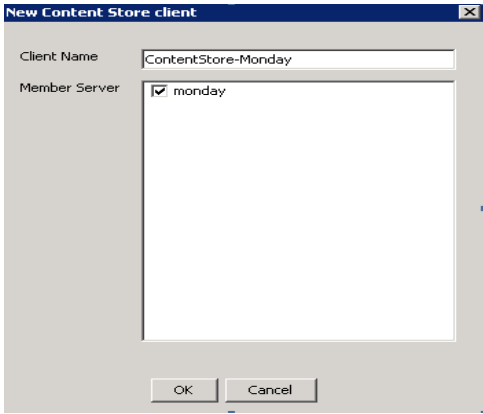
The content store iDataAgent requires the following licenses:

- *iDataAgent for Linux File System* - This license is consumed during the installation of the content store iDataAgent software.
- *Content Store* - This license is consumed when the client is configured from the CommCell Console.

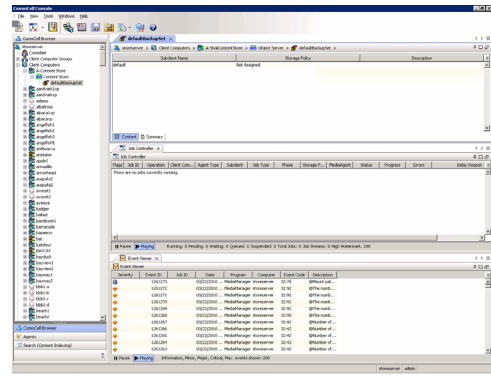
To add a client:

- From the CommCell Browser, navigate to **Client Computers**
 - Right-click on the client computer node, and select **New Client**.
- From the **Add New Client** dialog box, select **Content Store Client**.
 - Click **OK**.
- From the **New Content Store Client** dialog box, enter name of the Content Store client, which is how it will appear in the CommCell Console.
 - Select the member server, which is the client computer on which the Content Store iDataAgent is installed.
 - Click **OK**.





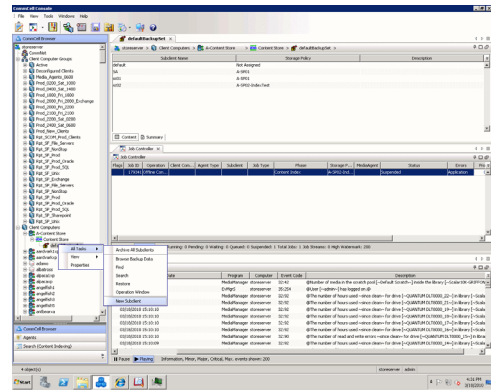
- The Content Store client will now appear as a client computer node in the CommCell Browser.



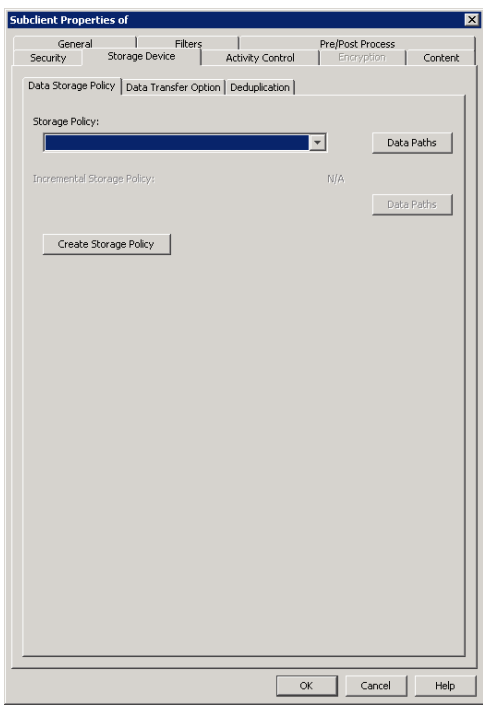
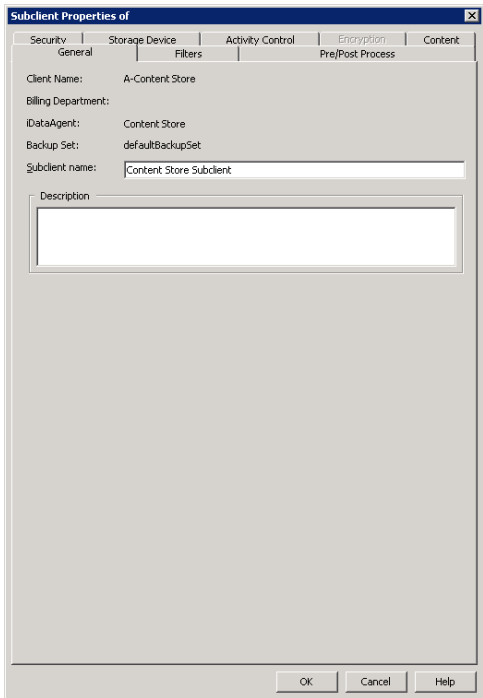
CREATE A SITE

You need to first create a subclient before you create a site. Follow the steps given below to create a Object Link subclient and link it to the defined site:

- From the CommCell Browser, navigate to **Client Computers | Content Store**
 - Right-click the **default BackupSet | All Tasks | New Subclient**



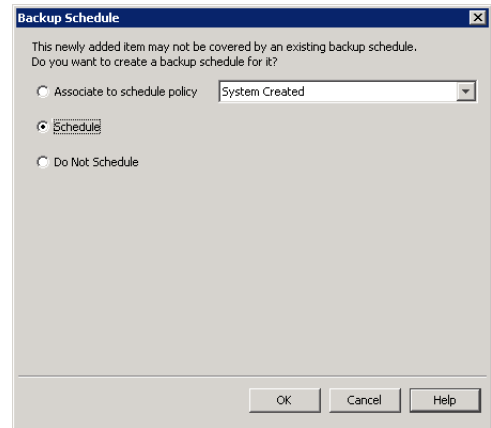
- From **Subclient Properties | General**, enter the name of the subclient and a description if desired.
 - Select the **Storage Device** tab.



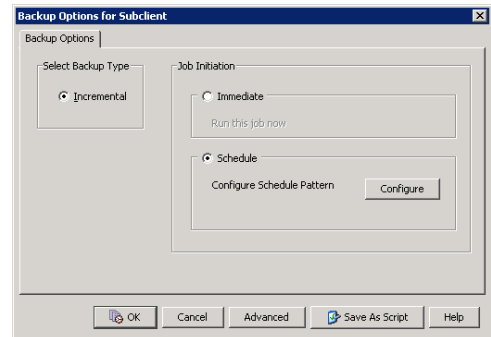
3.
 - From the **Data Storage Policy** tab, select the storage policy to associate with the new subclient.
 - If necessary, click the **Create Storage Policy** button to create a new storage policy for this subclient.
 - Click **OK** to save the subclient.
 - Note that the subclient created has no content, since it has not yet been linked to a site.

4.
 - Once the Content Store subclient is defined, the **Backup Schedule** dialog box is automatically launched so that you can create the schedule for the data protection operations.
 - Select **Schedule** from the options provided to specifically schedule the backup for the Content Store subclient.
 - Click **OK**.

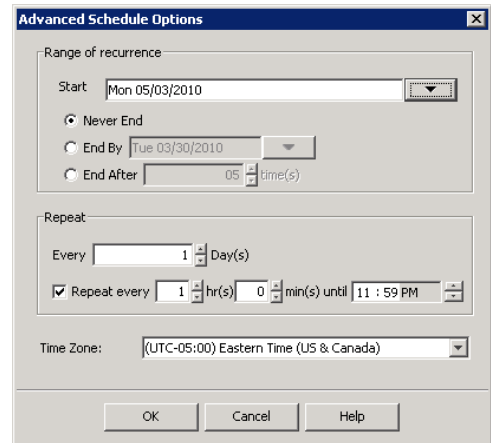
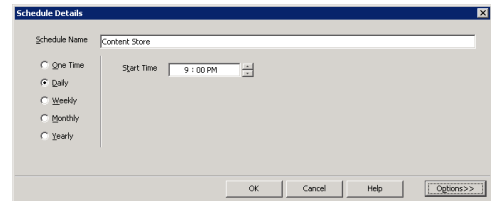
5. From the **Backup Options** dialog box, click **Configure** to create the schedule pattern.



- 6.
- From the **Schedule Details** dialog box, select the type of schedule.
 - You can create a daily schedule for the backup operations of the Content Store subclient, which only supports incremental backups. An incremental backup is extremely beneficial because it contains data that is new or has changed since the last backup, consuming less media.
 - Click **Options**.

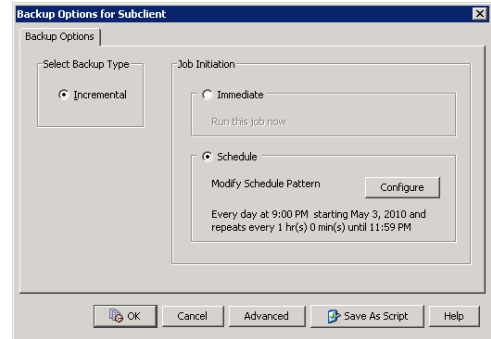


- 7.
- From the **Advanced Schedule Options** dialog box, select the pattern options.
 - With incremental backups, you can schedule backups to occur hourly by selecting the Repeat field, and specifying the values accordingly.
 - Click **OK**.



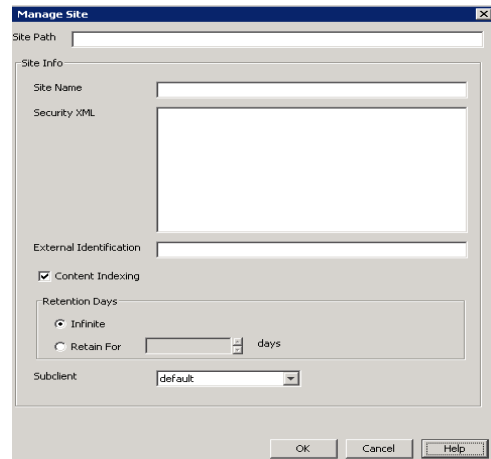
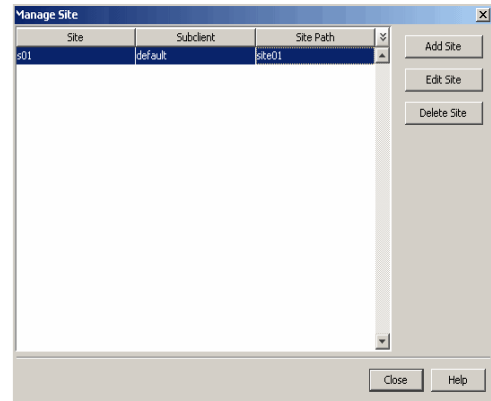
- 8.
- The defined schedule and pattern will appear on the **Backup Options** dialog box.
 - Click **OK**.

9.
 - From the CommCell Browser, navigate to **Client Computers | Content Store**
 - Right-click the **Content Store |DataAgent | All Tasks | Manage Site**
 - The **Manage Site** dialog box appears with the following information:
 - **Site:** Displays the name of the site
 - **Subclient:** Displays the name of the subclient associated with this site
 - **Site Path:** Displays the URL or path to the site
 - Click the **Add Site** button to define a content repository.

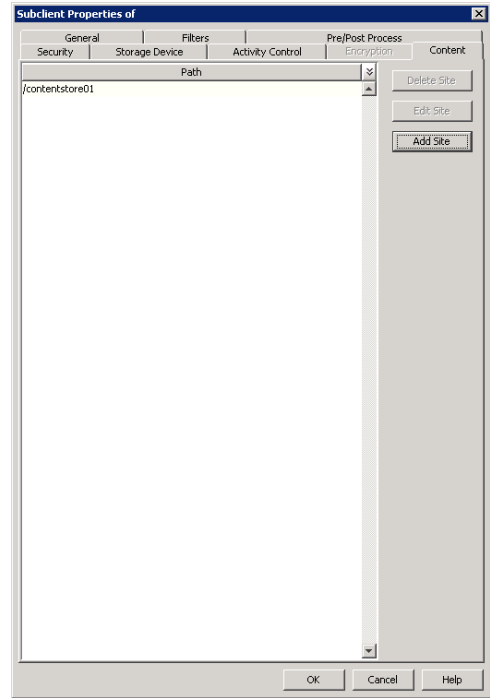


10.
 - From the **Add Site** dialog Box, enter the following information:
 - **URL:** Enter the directory path of the site. This is the repository on the server where the files will be uploaded. Note that the URL must be entered in the following format: `/finance_site1`.
 - **Site Name:** Enter the friendly name for the site.
 - **Security XML:** is required for the site that is created. Below is an illustration for SAP:


```
<?xml version="1.0" ?><SapCS_SAPCSDocHeader docStatus="running" boundary="test Content Repository" docProt="crud" /></SapCS_SAPCSDocHeader>
```
 - In the XML string above:
 - The **docStatus** must always be in the "running" mode.
 - The **boundary** can be any valid string so that the xml format is fixed. For example: "test content repository".
 - The **docProt** value can be a blank string, c, r, u, d or any combination of 'crud'.
 - **External Identification:** Enter the third party identifier here.
 - **Retention Days:** Specify the retention period for the site. The retention period will apply to all the contents within the repository. Note that this retention period can be overwritten by the subclient's associated storage policy copy's defined retention if defined for a longer period, unless it is overwritten by pinning the job.
 - **Infinite** (selected)
 - **Retain For** [] days
 - **Subclient:** Displays a list of the available subclients, select the one to be associated with this site. The site will be added in the selected subclient.
 - Click **OK**.



11.
 - To verify if the site you added is displayed, go to the **Path** windowpane of the **Subclient Properties - Content** tab.
 - Click **OK**.
 - The Content Store subclient is linked to the defined site as the repository.



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