

Laptop Backup - Administrator Guide (Macintosh)

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Defining Download Privilege to Laptop Owners

Enabling Secured Access for Web Search Client

Launching App for Backup Monitor

License Requirements

Modifying the Documentation Link for Backup Monitor

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Overview - Laptop Backup (DLO)

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The Laptop Backup (DLO) feature enables you to protect data residing on laptops and desktops used in remote locations. Laptop Backup offers the following key features:

- Quick & Automated Backups: Seamless backups using automatic schedules based on network connectivity.
- Improved Resource Utilization: Deduplication technology, coupled with intelligent backup scheduling dramatically improves the ability to protect distributed data with optimized disk resources.
- Network Optimized Backups: Backups over any network LAN, WAN or VPN with dynamic bandwidth throttling.
- Anytime, Anywhere Access: Instant access to data using any web browser.
- Integrated Security Features: Full encryption at all stages and secured network access (HTTPS) used together for data security.
- Automated Customization Based on Business Rules: Ability to configure additional settings, such as encryption, content indexing before performing the backups.





Prepare CommCell - Laptop Backup

Prepare CommCell Firewall Using Proxy Firewall Without Proxy

Perform the following configurations on CommServe to enable laptop backup:

1. Create Storage Policy

Overview

- 2. Create a Client Group for Laptops
- 3. Configure Additional Settings Before Laptops Execute The First Backup
- 4. Create a Client Group for MediaAgent
- 5. Create a Schedule Policy
- 6. Create a Subclient Policy

PRE-REQUISITES

Ensure you have the following before performing the configuration:

- CommServe and MediaAgent software must be installed on the computer.
- Service Pack 12 (or higher) installed on the CommServe and MediaAgent.
- Disk Libraries must be configured.

CREATE STORAGE POLICY

The Storage Policy act as a channel for backup and restore operations. It will map data from its original location to the physical media. Follow the steps given below to create a storage policy for the laptop backup:

Create Installation Package

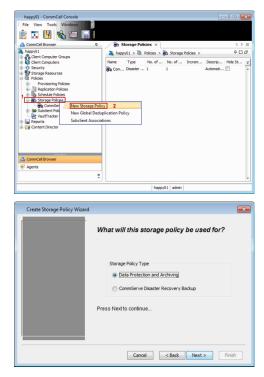
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1. From the CommCell Browser, navigate to **Policies** right-click the **Storage Policies** node, and then click **New Storage Policy**.





3. Specify the name of the Storage Policy and click Next.

Note down the Storage Policy name.

This is needed later to assign storage policy to subclient during Create Subclient Policy.

Incremental Storage Policy	
Press Next to continue	
Cancel < Back Next > Finish	
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for this primary copy	
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Cancel < Back Next > Finish	
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Please enter the storage policy name

Laptop_SP

Storage Policy Name:

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Create Storage Policy Wizard

- 4. • In the Library list, select the default library to which the Primary Copy should be associated.
 - Click Next.

5. In the **MediaAgent** list, select a MediaAgent. Click Next.

6. Click Next.

7. Click Next.

> Make Sure that Enable Client Side Deduplication is selected.

8.	Verify	Name	and	MediaAgent	Name.

Click Browse to specify location for Deduplication Store.

Click Next.

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

10. You can view the storage policy in the Storage Policies node.

Create Storage Policy Wizard	
-	
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Create Storage Policy Wizard	
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CREATE A CLIENT GROUP FOR LAPTOPS

The client computer group is a logical grouping of client computers. Client Computer Group definition help to define options to the entire group instead of the individual clients. Follow the steps given below to create a client group for the laptops which you want to backup:

11. From the CommCell Browser, right-click Client Computer Groups node, and click New Group.



- **12.** In the Group Name box, specify the name as Laptop Backup.
 - Click OK.

You can create an additional group and name it as **Waiting Room**. This group may be used as a staging area to configure any additional setting for the clients before performing the first backup. You can configure encryption, content indexing, client side deduplication etc for the client using command line scripts.

Group Name: Laptop Backup	
Description:	
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CONFIGURE ADDITIONAL SETTINGS BEFORE LAPTOPS EXECUTE THE FIRST BACKUP

You can configure several additional settings for laptops before allowing them to backup for the first time. For example:

- Enable Client Level Encryption
- Enable Content Indexing
- Enable Client Side Deduplication

Follow the steps given below to configure any additional settings:

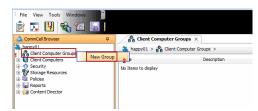
- **13.** Use the following steps to download the script needed for this task:
 - $\circ~$ Click the Download~Now button located on the right.
 - Select a location to save the .zip file.
 - $\circ\;$ Navigate to the location of the .zip file and unzip the file.
 - Modify the script to select the additional settings which you want to configure.
 - Schedule a task to run this script after a specific time interval. You can use Windows Task Scheduler to schedule this task.

When the user installs the **Installation Package** on a laptop, the laptop will be added to the **Waiting Room** client group. This script will configure the additional settings for the laptops in the waiting room and then move the laptop from the **Waiting Room** group to **Laptop Backup** group. After the laptop moves to the **Laptop Backup** group, the backups will be performed as per the schedule policy.

CREATE A CLIENT GROUP FOR MEDIAAGENT

The MediaAgent monitors the transfer of data between client computer and media. Follow the steps given below to create a client group for all the MediaAgents which will be used for the backup and restore:

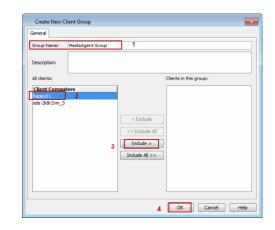
14. From the CommCell Browser, right-click **Client Computer Groups** node, and click **New Group**.



- **15.** In the **Group Name** box, specify the name for the MediaAgent group.
 - Add the MediaAgents to the group by clicking **Include** button.
 - Click OK.

Add the MediaAgents which are not installed on the same CommServe computer and used for backing up the clients data.





CREATE SCHEDULE POLICY

When multiple clients or tasks require similar operations to be scheduled you can create a schedule policy as a scheduling template and attach it to the respective client or task in the CommCell.

Use the following steps to create a schedule policy.

- 16. From the CommCell Browser, navigate to Policies.
 - Right-click Schedule Policies node and then click Add.

- 17. In the Name box, specify the name of the Schedule Policy.
 - Click Add button.

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File View Tools Windows	
🛆 CommCell Browser 🛛 🖗	😚 Client Computer Groups 🛪 🔠 Schedule Policies 🗴 🔄 4 🕨 🗉
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Client Computer Groups	Total Schedule Policies: 2 Filter Show All - [+] [X]
HediaAgent Group H	Schedule Policy Type Agent Type Description s
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- In the **Schedule Name** box, enter a name of the schedule pattern.
 - Select Automatic and Click OK.

18.

Automatic backup schedule does not perform synthetic full backups.

Backup Task Optio	ns 🗾
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	Not Optors Reckaton Optors Laptop Backup Schedul
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	(tytors>>
	OK Cancel Advanced Hep

 New Schedule Policy

 General Associations Alert

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 Select All

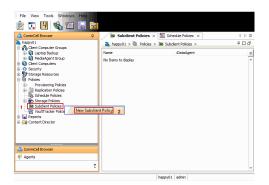
 Clear All

 OK

 Cancel

 Save As Script

 Help



Click Associations tab.
 Select the Laptop Backup as a client group.
 Click OK.

CREATE SUBCLIENT POLICY

- 20. From the CommCell Browser, navigate to Policies.
 - Right-click Subclient Policies node, and click New Subclient Policy.

- In the Name box, enter the name of the subclient policy.
 - In the iDataAgent list, select Unix File System.

Note down the Subclient Policy **Name**. This is needed later during Custom Package creation. 22. The display pane will display default subclient.

23. Assign a **Storage Policy** for a subclient created in step 3 during Create Storage Policy.

24. Select the subclient and then click **Edit**.

Create New Subclient Policy	.
General Association	
Name:	
iDataAgent:	
Subclient VetWare File System	Storage Policy 😵 🛛 Add
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Create New Subclient Policy	X
General Association	
Name: Laptop Unix Sub Policy	
iDataAgent: Unix File System 👻	
Subclient Type	Storage Policy 😵 🛛 Add
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• Click the **Content** tab.

• Click Browse and expand the Unix File System node.

- Select the required backup content location, e.g. Documents and click Add.
- Click Close.

The contents (e.g. word processing documents, digital photos, music files and so on) of folders (e.g. Documents, Music, Videos, etc,.) specified in the above location will be backed up.

The Administrator must request the users to copy the files and folders to be backed up to this folder.

26. Click OK.

27. Click **OK**.

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Setup Firewall Using Proxy - Laptop Backup

Overview

Prepare CommCell

Firewall Using Proxy **Firewall Without Proxy Create Installation Package** Web Access

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SKIP THIS STEP IF YOU ARE NOT USING PROXY SERVER

Click Next > to Continue.

When CommCell components are separated by a firewall, the components must be configured with the connection route to reach each other across the firewall. Once configured, the components seamlessly communicate across the firewall for all data management operations such as backup, browse, restore, etc.

The following sections explain the steps involved in operating through a GatewayProxy:

- 1. Preconfigure the GatewayProxy
- Configure Firewall on Client Group 2.
- 3. Configure Firewall on CommServe
- Configure Firewall on MediaAgent 4.
- 5. Install on GatewayProxy
- Verify the GatewayProxy 6.

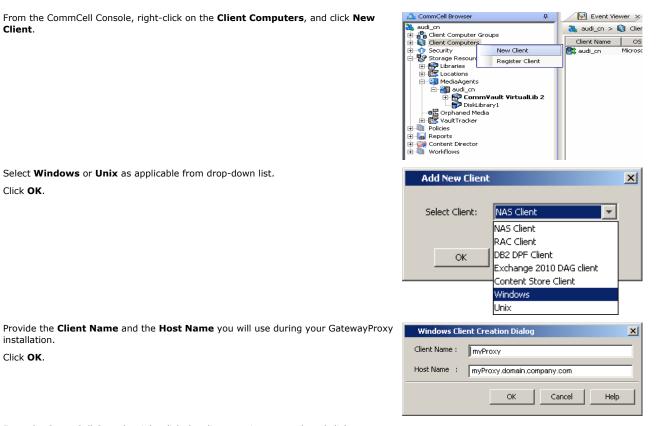
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installation.

PRECONFIGURE THE GATEWAYPROXY

Follow the steps below to create and configure a placeholder for the GatewayProxy on your CommServe computer before installing it.

From the CommCell Console, right-click on the Client Computers, and click New 1. Client.



2. Select Windows or Unix as applicable from drop-down list. Click OK.

- Click OK.
- From the CommCell Console, right-click the client you just created, and click 4. Properties.

Click the Firewall Configuration tab. 5. Select Configure Firewall Settings box.

6. Click the Incoming Ports tab.

> Select Listen for tunnel connections on port and enter port number on which the GatewayProxy will listen from the CommServe.

View View View Volumitations View Volumitations Volumitati
Client Computer Proved Settings Configure Frewall Settings Incoming Conductors Incoming Ports Outgoing Routes Options Summary Specify here the list of remice dents or groups that cannot open direct connections to this client or can open them only on restricted ports. Connections from Group/Client State Add Delete Edit
OX Cancel Help
Client Computer Properties for myProxy X General Frewall Configuration Incoming Constitution Incoming Connections Incoming Ports Outgoing Routes Options Turnel HTTP/HTTPS Port Incoming ports Additional incoming ports may be open for faster data transport: From Incoming Incoming ports Additional incoming ports may be open for faster data transport: From Incoming Incoming Ports Additional incoming ports may be open for faster data transport: From Incoming Incoming Ports
OK Cancel Help

🔔 CommCell Browser

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Agent Typ

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7. Click Options tab.

Clear Lock down CommCell.

Select This computer is in DMZ and will work as proxy. Click OK.

Client Computer Propertie				
General Firewall Configuration				
💟 Configure Firewall Setting	5			
Incoming Connections Incomin	g Ports Outgoing Routes	Options Sum	mary	
Keep-alive Interval, seconds:	300 🖞			
Tunnel Init Interval, seconds:	14			
Incoming tunnel protocol	Accept HTTP and HTTP	5 -		
Lock down CommCell		_		
Bind all services to open p				
▼ This computer is in DMZ a	nd will work as a proxy			

CONFIGURE FIREWALL ON CLIENT GROUP

8. From CommCell Browser, navigate to Client Computer Groups, select and rightclick the Laptop Backup group and click Properties.

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Client Group "Laptop Backup"	
General Activity Control Security Firewall	Configuration
Terretor Conseller a series of	
Incoming Connections Incoming Ports Out	going Routes Options Summary
Specify here the list of remote clients or gro	une that cannot open direct connections
to this client or can open them only on restr	icted ports.
Connections from Group/Client	State × Add
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- 9. Click Firewall Configuration tab.
 - Select Configure Firewall Settings box.
 - Click Add button.

- **10.** Select **GatewayProxy** computer from **From** drop-down list.
 - Select **Blocked** from **State** drop-down list.
 - Click OK.

11. Select Outgoing Routes tab. Click Add.

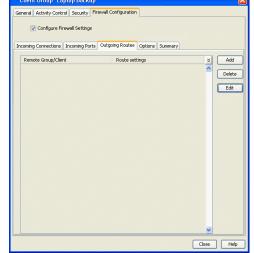
12.

- Select the **CommServe** from the **Remote Group/Client** drop-down list.
- Select Via Proxy.
- Select GatewayProxy computer from Remote Proxy drop-down list.
- Click OK.

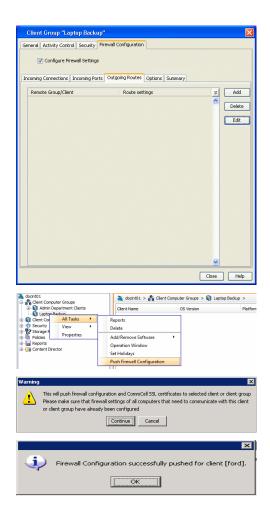
If MediaAgents are installed on separate computer, repeat the steps described above and select the **MediaAgent group** in the **Remote Group/Client** list.

13. Click OK.

Connections to (Laptop Ba 🔀				
From	MediaAgents 🛛 🗸 🗸			
State	cvdv004454_cn			
State	cvdv005349_cn			
	DelgadoMacbook_CN			
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ОК	myProxy			
	MediaAgent Group	-		
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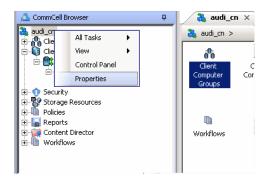
ite settings	
Remote Group/Client gamma_cn	V
Route Type	
O Direct O Via Gateway O Via Proxy	
Tunnel Connection Protocol	
HTTP OHTTPS	
Force all data (along with control) traffic	into the tunnel
Gateway Settings	
Gateway Hostname:	
Gateway Tunnel Port: 443 ±	
Additional destination port mapping:	
GW Port:	8400 -
Destination Port:	8400 -
Add Delete	
Add	
Proxy Settings	
Remote Proxy: cvproxygateway_CN	v
	OK Cancel Help



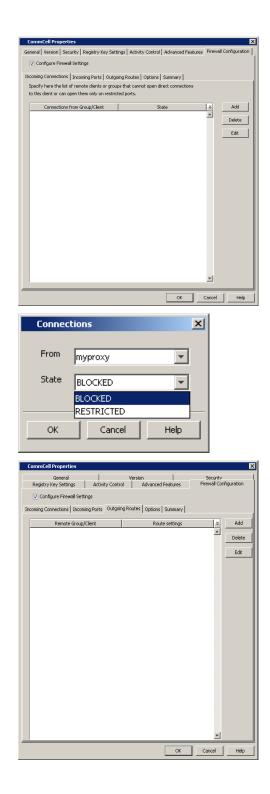
- **14.** From the CommCell Browser, navigate to **Client Computer Groups**.
 - Right-click the Laptop Backup group and point All Tasks and then click Push Firewall Configuration.
- 15. Click Continue.
- The specified configuration is saved.
 The firewall configuration was pushed successfully.
- 17. The newly added clients will automatically be registered in the client group and will hence inherit the firewall settings established in the client group.

CONFIGURE FIREWALL ON COMMSERVE

18. From the CommCell Console, right-click the CommServe computer and click **Properties**.



- **19.** Click the **Firewall Configuration** tab.
 - Select Firewall Configuration Settings box.
 - Click Add.



- **20.** Select **GatewayProxy** computer from **From** drop-down list.
 - Select **Blocked** from **State** drop-down list.
 - Click OK.
- Click the **Outgoing Routes** tab.
 - Click Add.

- Select the GatewayProxy computer in Remote Group/Client.
 - Click OK.

23. Click Add.

ite settings				
Remote Group/Client myprox	y		3	
Route Type				
Direct Via Gateway	🔿 Via Pro×	y		
Tunnel Connection Protocol				
enne onnes				
Force all data (along with	control) tra	affic into th	e tunnel	
Gateway Settings				
Gateway Hostname:				
Gateway Tunnel Port:	443	<u>-</u>		
Additional destination port map		W Port:	Desti	nation Port:
GW Port: 8	3400 -			
· · ·	3400 🗧			
Add Dele	te			
Proxy Settings Remote Proxy: cvproxywin		~		
	ОК	C.	ancel	Help
General	Version		Sec	
General Registry Key Settings Activity Contr	Version		Sec	
	Version ol Adva	anced Features	Sec	
General Registry Key Settings Activity Contr I Configure Firewall Settings	Version ol Adva ng Routes Op	anced Features	Sector Firewa	uritv Il Configuration
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General Registry Key Settings Activity Contr Configure Firewall Settings sming Connections Incoming Ports Outgoi	Version ol Adva ng Routes Op	anced Features	Sector Firewa	xitv I configuration Add Delete Edk

- Select the Laptop Backup client group from the Remote Group/Client dropdown list.
 - Select Via Proxy.
 - Select GatewayProxy computer from Remote Proxy drop-down list.
 - Click OK.

25. Click OK.

26. From the CommCell Console right-click the CommServe computer, click All Tasks, and click Push Firewall Configuration.

27. Click Continue.

28. Click **OK**.

Route Type	oup/Client client	T
O Direct	🔿 Via Gateway 🔎	Via Proxy
-Tunnel Con	nection Protocol	
C HTTP	C HTTPS	
Force -	all data (along with co	ntrol) traffic into the tunnel
Gateway S		
Gateway H	Hostname:	
Gateway '	Tunnel Port;	443 🗶
Additional d	estination port mappin	ng: GW Port: Destination Port:
GW Port	840	
Destinati	ion Port: 840	0 🗲
Add	Delete	
-Proxy Setti		
	oxy: myproxy	v
		OK Cancel Help
	_	
CommCell Prope	rties	
Gener Registry Key Set	al tings Activity Control	Version Security Advanced Features Firewall Configuration
💟 Configure Fir		
coming Connection	ns Incoming Ports Outgoing R	Routes Options Summary
Remo	te Group/Client	Route settings 🛛 🕹 Add
		OK Cancel Help
CommCell B	rowser	₽ / 🚴 audi_cn ×
audi_cr	All Tasks View	Disaster Recovery Backup
Clie		DP Pectore
Clie	Control Panel	DR Restore
Clie		Data Aging
Clie Clie Clie Clie	Control Panel Properties	Data Aging
Clie Clie Clie Security Storage	Control Panel Properties / Resources	Data Aging Add/Remove Software
Clie Clie Security Storage Policies	Control Panel Properties Resources	Data Aging Add/Remove Software Send Log Files
Clie	Control Panel Properties Resources t Director	Data Aging Add/Remove Software Send Log Files Event Search CommCell Migration Push Firewall Configuration
Clie Clie Clie Security Storage Policies Reports	Control Panel Properties Resources t Director	Data Aging Add/Remove Software Send Log Files Event Search CommCell Migration
Clie Clie Clie Security Storage Policies Reports Content	Control Panel Properties Resources t Director	Data Aging Add/Remove Software Send Log Files Event Search CommCell Migration Push Firewall Configuration
Clie Clie Clie Security Storage Policies Reports	Control Panel Properties Resources t Director	Data Aging Add/Remove Software Send Log Files Event Search CommCell Migration Push Firewall Configuration



CONFIGURE FIREWALL ON MEDIAAGENT

SKIP THIS SECTION IF MEDIAAGENT IS SAME AS COMMSERVE

29. From the CommCell Console, navigate to **Storage-Resource | MediaAgents**, select and right-click **<media_agent>** and click Properties

- **30.** Click the **Firewall Configuration** tab.
 - Select Configure Firewall Settings box.
 - From the Incoming Connections tab, click Add.

- In the **From** field, select the GatewayProxy computer.
 - In the State field, select Blocked.
 - Click OK.

31.

32. Click the Outgoing Routes tab. Click Add.

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🚵 audi_cn	uter Groups		🤼 audi_cn	> 😵 Sto
Client Comp	outers			rary
audi_cn) Guataan		CommVau	ult VirtualLib
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🗄 👈 🥎 Security				
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Orphan	acl Detect De	vices		
庄 🕕 Policies	All Tasks		•	
😟 🔚 Reports 吏 🧊 Content Dir	View		•	
🗄 🛅 Workflows	Release li	ense for Meo	lia Agent	
	Delete Me	dia Agent		
	Properties	;		
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MediaAgent Properties				×
General Associated Storage I	Control Cal Policies Regis	alog try Key Settings	Version Firewall Conf	Security iguration
😨 Configure Firewall Set				·
	ming Ports Outgoing Routes			
	note clients or groups that can	not open direct conn	ections	
to this clent or can open o	hem only on restricted ports.			
Connections from	Group/Client	State	×	Add
			<u> </u>	Delete
				Edit
			*	
			OK Cancel	Help
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State	BLOCKED		-	
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	LOCKED			
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MediaAgent Properties		x
General Control	Catalog Version	Security Firewall Configuration
Associated Storage Policies	Registry Key Settings	rirewaii coninguration
Configure Firewall Settings		
Incoming Connections Incoming Ports Outgoing	Routes Options Summary	
Remote Group/Client	Route settings	× Add
		Delete
		Edit
	OK	Cancel Help

- **33.** Specify the route from **MediaAgent Group** to the GatewayProxy in **Remote Group/Client** drop-down list.
 - Click OK.

34. Click Add.

Remote Group/Client	/proxy	-	
Route Type			
📀 Direct 🔿 Via Gatew	ay 🔿 Via P	roxy	
Tunnel Connection Proto	ol		
● HTTP ○ HTTPS			
🦳 Force all data (along	with control	traffic into the	tunnel
Gateway Settings			
Gateway Hostname:			
Gateway Tunnel Port:	4	13 📕	
Additional destination por	t mapping:	G₩ Port;	Destination Por
GW Port:	8400 🚽		
Destination Port:	8400		
Add	Delete		
Duran California			
Proxy Settings Remote Proxy: cvproxy	avin	-	
Kellinge Frexy, Technoxy	YVIII		

General	oerties							
	Control	,1	Catalog		rsion	_	Secu	ritv
Associated SI	torage Policies		Registry Key Sett	ings		Firewall C	.onngura	tion
💟 Configure Fire	wall Settings							
coming Connections	s Incoming Ports O	utgoing Ro	outes Options	Summary				
Remo	ote Group/Client	1	R	ute setting	ß		×	Ad
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Remote Gr	oup/Client clie	ent			ж -	Cance	el	He
ute setting Remote Gr Route Type	oup/Client clie	ent				Cance		He
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Remote Gr Route Type O Direct Tunnel Con	oup/Client clie	ay 💽			-			He

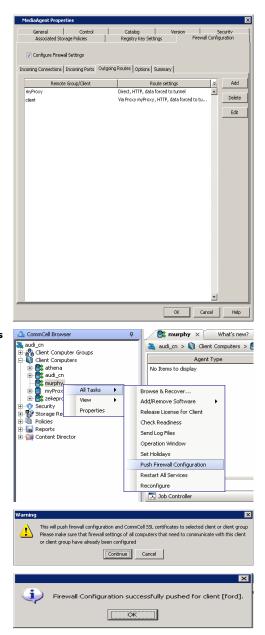
- **35.** Select the client computer in **Remote Group/Client**.
 - Select Via Proxy.
 - Select the GatewayProxy in **Remote Proxy**.
 - Click OK.

Remote Group/Client clien	t		3
Route Type			
C Direct C Via Gateway	📀 Via F	Proxy	
Tunnel Connection Protocol			
C HTTP C HTTPs			
Force all data (along wi	th control) traffic into th	e tunnel
Gateway Settings			
Gateway Hostname:			
Gateway Tunnel Port:	4	43 📕	
- Additional destination port m	apping:	GW Port:	Destination Port
GW Port:	8400 🗧	4	_
Destination Port:			
Descination Ports	8400 🛓	1	
Add D	elete		
Proxy Settings			
Remote Proxy: myproxy		_	

36. Click OK.

The **Outgoing Routes** tab must display two routes: the route from MediaAgent to the proxy and the route from MediaAgent to the client through the proxy.

The MediaAgent is configured to receive communication from the client through the GatewayProxy.



37. From the CommCell Console, right-click the MediaAgent computer and click **All Tasks** | **Push Firewall Configuration**.

The MediaAgent is configured to receive communication from the client through the GatewayProxy.

Click Continue.

39. Click OK.

38.

You are now ready to install the **GatewayProxy**.

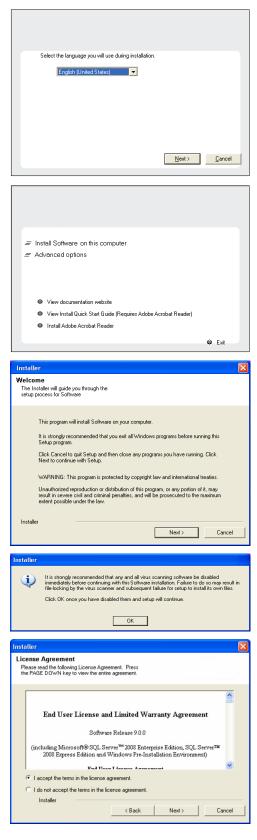


Install the CommCell client software using one of the following methods on GatewayProxy computer:

- Install GatewayProxy for Windows Client
- Install GatewayProxy for Unix Client

INSTALL GATEWAYPROXY FOR WINDOWS CLIENT

- 1. Run Setup.exe from the Software Installation Disc in the GatewayProxy computer.
- 2. Select the required language.
 - Click Next.



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

NOTES

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

4. Click Next.

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

7. Expand Client Modules | Backup & Recovery | File System and select Windows File System *i*DataAgent.

Click Next.

Select the Configure Firewall Services box.
 Select CommServe can open connection toward this machine and click Next.

9. Enter the name of the computer in **CommServe client name** field. Click **Next**.

10. Click Next.

11.	Specify a local port number through which the Client/MediaAgent will receive communication from the CommServe.

Click	Next.
-------	-------

Installer Select Platforms Select the platforms yo		
	ou want to configure.	
= C i		Move the pointer over a
🖃 🗅 Common Te		platform name to see a description of the platform and
		reasons why it may be
🛨 🗎 MediaA	gent Modules	disabled.
E 🗅 Client Modu		Disk Space
	Necovery Indexing and Search	(Req/Recommended)
🗉 🗅 Web Ba	ased Search & Browse	Installation Folder:
E Carchive	Management ousDataReplicator	0 MB/ 0 MB
	ousDatamepiicator	Temporary on C: drive:
🗉 🗅 Support	ting Modules	0 MB/ 0 MB
E Ca Tools		Special Registry Keys In Use
Installer		Special negisity keys in use
Install Agents for Re	store Only < Back	Next> Cancel
Installer		
Firewall Configura		the standard and the st
Configure firewall servi	ces	
If there is a firewall be	tween this machine and the CommSe	erve, configure firewall services below.
		and a second second
Configure firewall	services	
	and the second second	10 Ave 11 AV
connection from her	Windows Firewall is limiting network to e to a CommServe's tunnel port, whe	ther all connections toward
CommServe are blo machine, or whether	cked, and setup should instead expe r there is a Proxy in between.	ct CommServe to connect back to this
	open connection to CommServe on	
CommServe can	open connection toward this machine	
CommServe is rea	achable only through a proxy	
Installer		
		<u>N</u> ext > <u>C</u> ancel
Installer		×
CommServe Name		
Specity the CommServ name	e computer name and host	
CommServe	Client Name	
audi		
,		
Installer		
Installer	< <u>B</u> ack	Next > Cancel
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Installer Communication In Setup will configure th	terface Name e communication paths. Select a client name East of Select an interface name that this communicate with the CommServe east inycompany.com	computer will use to

- 12. Specify the port numbers to be used by the Bull Calypso Communications Service (CVD) and Bull Calypso Client Event Manager (EvMgrc) Services. Click **Next**.
 - Valid range for the port number is between 1024 and 65000.
 - Ensure that the port numbers specified here are within the valid range and are not used by any other services.

13. Click Next.

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

Click Next.

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

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

Configure firewall servi	rtion en	a.
tunnel connection fro Please specify a loca	an not connect CommServe directly, setup will need to configure reverse on the CommServe to this machine. If port number to listen on below. nnel toward this client has to be configured in the "Dutgoing" section of th Properties.	
	Properties.	
Installer	< Back	
Installer		
Port Number Selec Please specify the port this instance.	crum numbers you want to use for	1
	Please enter CVD port number:	
	Please make sure that selected ports are within valid range and are not being used by another application.	
Installer	< Back Next> Cance	
		-
Installer Firewall Configura	tion	
Provide CommCell cert		
	ilicate folder	8
If you have checked Proxy, you need to p	In cate folder I Lockdown CommCell in the firewall properties of the CommServe or rovide path to the directory with CommCell HTTPS certificate below. se obtained by injint-folding CommServe name in the Java GUI, and > 'Export Firewall Certificate' popup menu item.	19 A.
If you have checked Proxy, you need to p	I'Lockdown CommCell' in the firewall properties of the CommServe or rovide path to the directory with CommCell HTTPS certificate below.	>
If you have checked Proxy, you need to p This certificate can b selecting 'All Tasks'	I'Lockdown CommCell' in the firewall properties of the CommServe or rovide path to the directory with CommCell HTTPS certificate below.)
If you have checked Proxy, you need to p This certificate can t selecting All Tasks	I'Lockdown CommCell' in the firewall properties of the CommServe or rovide path to the directory with CommCell HTTPS certificate below. be obtained by right-clicking CommServe name in the Java GUI, and > Taxport Firewall Certificate' popup menu item.	
If you have checked Proxy, you need to p This certificate can t selecting All Tasks' Certificate Folder	Lockdown CommCell in the firewall properties of the CommServe or rovide path to the directory with CommCell HTTPS certificate below. e obtained by right-clicking CommServe name in the Java GUI, and > Export Freewall Certificate' popup menu item. Browse	
If you have checked Proxy, you need to p This cetificate can t selecting All Tasks' Certificate Folder Installer	I Lockdown CommCell in the firewall properties of the CommServe or rovide path to the directory with CommCell HTTPS certificate below. the obtained by right-clicking CormServe name in the Java GUI, and > Export Frewall Certificate' popup menu item. Browse (Reck Next) Cance	
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If you have checked Proxy, you need to p This cetificate can t selecting All Tasks' Cetificate Folder Installer Installer Mindows Firewall Windows Firewall	I Lockdown CommCell in the firewall properties of the CommServe or rovide path to the directory with CommCell HTTPS certificate below. the obtained by right-clicking CormServe name in the Java GUI, and > Export Firewall Certificate' popup menu item. Browse (Back Next > Cance Exclusion List municate through Windows is ON	
If you have checked Proy, you need to p This cetificate can t selecting All Tasks' Cetificate Folder Installer Installer Mindows Firewall Allow programs to com Firewall If Add programs If you plan on usin	I Lockdown CommCell in the firewall properties of the CommServe or rovide path to the directory with CommCell HTTPS certificate below. the obtained by right-clocking CommServe name in the Java GUI, and > Export Firewall Certificate' popup menu item. Browse (gook Next > Cance Exclusion List municate through Windows	
If you have checked Prow, you need to p This cetificate can t selecting All Tasks ¹ . Cetificate Folder Installer Installer Mindows Firewall Allow programs to com Firewal Windows Firewall	I Lockdown CommCell in the firewall properties of the CommServe or rovide path to the directory with CommCell HTTPS certificate below. the obtained by right-clicking CommServe name in the Java GUI, and > Export Firewall Certificate' popup menu item. Blowse Rectuation List municate through Windows is ON to the Windows Firewall Exclusion List	
If you have checked Proy, you need to p This cetificate can t selecting All Tasks' Certificate Folder Installer Installer Mindows Firewall Allow programs to com Firewall If Add programs If you plan on usin	I Lockdown CommCell in the firewall properties of the CommServe or rovide path to the directory with CommCell HTTPS certificate below. the obtained by right-clicking CommServe name in the Java GUI, and > Export Firewall Certificate' popup menu item. Blowse Rectuation List municate through Windows is ON to the Windows Firewall Exclusion List	the

15. Click Next.

Verify the default location for software installation.
 Click **Browse** to change the default location.

Click Next.

- Do not install the software to a mapped network drive.
- Do not use the following characters when specifying the destination path:
 - /:*?"<>|#

It is recommended that you use alphanumeric characters only.

17. Click Next.

18. Click Next.

19.	Click	Next.

Installer	X
Download and Install	Latest Update Packs
Download and Install the la pack from the software pro-	itest service pack and post
Pack nom die soliwale blo	THEFT TYCEONC.
_	
	est update pack(s)
Make sure you have interr depending on download sp	net connectivity at this time. This process may take some time
depending on download s	peeu.
Installer	<back next=""> Cancel</back>
Installer	
Destination Folder	a ta in tallata ana ana Gara
Select the destination folde	er to install the program files.
Click Next to accept the	default location, or click Browse to choose an alternate location.
Destination Folder	
C:\Program Files\	Browse
Drive List	Space Required / Recommended
C: 928 MB	▼ 1394 MB / 1670 MB
Installer	
	<back next=""> Cancel</back>
Inetallor	
Installer Schedule Install of Au	rtomatic Undates
Schedule Install of Au Choose when you want to	
Schedule Install of Au	
Schedule Install of Au Choose when you want to	
Schedule Install of Au Choose when you want to downloaded updates.	schedule an install of the
Schedule Install of Au Choose when you want to downloaded updates.	schedule an install of the
Schedule Install of Au Choose when you want to downloaded updates.	schedule an install of the Automatic Updates
Schedule Install of Au Choose when you want to downloaded updates.	schedule an install of the
Schedule Install of Au Choose when you want to downloaded updates.	schedule an install of the Automatic Updates
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20. Click Next.

Click Next.

21.

22. Click Finish.

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	Configure for Laptop or Desktop Backup
	Select a storage policy from the pull-down list.
	Unassigned 🔽
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	ummary of install selections
	Setup has enough information to start copying the program files. If you are satisfied with the install settings, click Next to begin copying files.
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INSTALL GATEWAYPROXY FOR UNIX CLIENT

- **1.** Place the **Software Installation Disc** on a GatewayProxy computer.
- 2. Run the following command from the Software Installation Disc: ./cvpkgadd
- The product banner and other information is displayed.
 Press Enter to continue.

- 4. Read the license agreement. Type **y** and press **Enter** to continue.
- 5. Press Enter.

7. Press Enter.

8. Press Enter.

9. Press Enter.

Type the appropriate number to install Unix File System iDataAgent.
 A confirmation screen will mark your choice with an "X".
 Type d for Done, and press Enter.

11. Press Enter.

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

13. Press Enter.

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

Advanced 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) Advanced 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]

Install Calypso on physical machine 172.19.99.62

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

[] 1) MediaAgent [1301] [CVGxMA]>

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

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

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

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

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

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

1) Download from the software provider website.

2) Use the one in the installation media

3) Use the copy I already have by entering its unix path 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. 14. Press Enter to accept the default path and continue, or

Enter a path to modify the default path and press Enter.

Do not use the following characters when specifying the path: !@#\$%^&*():/?\

- 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.
- 16. Press Enter.

17.	Type the Group name and press Enter.
	Press Enter again.

 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.

- **19.** If this computer and the CommServe is separated by a firewall, type **Yes** and then press **Enter**.
- 20. Type 2 to select CommServe can open connection toward us option and press Enter.

You can download the latest service pack from software provider website.

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

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

Please specify where you want us to install Calypso binaries.

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

Installation Directory: [/opt]

Please specify where you want to keep Calypso log files.

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

Log Directory: [/var/log]

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

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

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

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

Please enter the name of the group which will be assigned to all Software files and on behalf of which all Software processes will run.

In most of the cases it's a good idea to create a dedicated "calypso" group. However, if you're planning to use Oracle iDataAgent or SAP Agent, you should enter Oracle's "dba" group here.

Group name: skyl

REMINDER

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

Press <ENTER> to continue ...

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? $\left[\text{no}\right]$ Yes

Please specify now how your firewall is limiting network traffic. Whether it's possible to open connection from here to a CommServe's tunnel port, whether all connections toward CommServe are blocked, and we should instead expect CommServe to connect back to us, or whether there is a proxy in between.

1) This machine can open connection to CommServe on a tunnel port

2) CommServe can open connections toward us

3) CommServe is reachable only through a proxy

Please specify client name of the CommServe below.

Your choice: [1]

21. Enter the client name of the CommServe computer in place of **CommServe Client**

Name. Name. Name. Press Enter. Elements Element			
 Secold a load part number through which the Clert/Mediadgent will receive the set construction from the Commission. Press Enter. <l< th=""><th></th><th>Name.</th><th>CommServe Client Name: mycompany</th></l<>		Name.	CommServe Client Name: mycompany
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 A press Enter. Fress Enter. Fre	22.	communication from the CommServe.	to configure a reverse tunnel connection from the CommServe to us. Please enter a local port number to listen on below, then go to CommServe and create a persistent tunnel toward this client in the [outgoing] section of FwConfigLocal.txt. When finished, return to
 Press Enter. Press Enter.<			
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 Press Enter. Are you send to the first of the first	23.	Press Enter.	properties of the CommServe or Proxy, you need to provide path to the directory with CommCell HTTPS certificate
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Your choice: [1]			2) Install Calypso on a virtual machine
			Your choice: [1]

VERIFY THE GATEWAYPROXY

1. From the Proxy Computer, ensure that **This computer is in DMZ and will work as a proxy** is selected in the **Firewall Configuration** | **Options** tab.

ieneral Firewall Configuration						
Configure Firewall Settings						
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Bind all services to open po	ts only					
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2. Right-click the GatewayProxy computer and click All Tasks | Push Firewall Configuration.

Setup Firewall Without Proxy - Laptop Backup

Overview

rview Pi

Prepare CommCell

Firewall Using Proxy Firewall Without Proxy Create Installation Package

Previous Next >

Web Access

SKIP THIS STEP IF YOU ARE USING PROXY SERVER

Click Next > to Continue.

When CommCell components are separated by a firewall, the components must be configured with the connection route to reach each other across the firewall. Once configured, the components seamlessly communicate across the firewall for all data management operations such as backup, browse, restore, etc.

The following sections explain the steps involved in operating the direct connection setup, where the client opens tunnel connection toward the CommServe and the MediaAgent:

- 1. Configure Firewall On CommServe
- 2. Configure Firewall On MediaAgent
- 3. Configure Firewall On Client Group

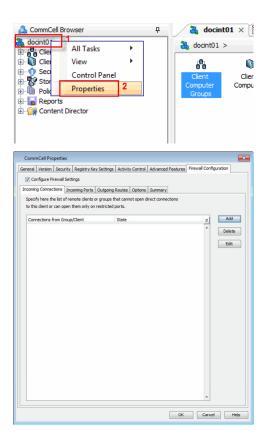
BEFORE YOU BEGIN

Review the following considerations before you begin:

- Make a note of the port configuration on your firewall and substitute them appropriately in the following instructions.
- Microsoft Internet Information Services (IIS) uses port number 443 by default. So if you have IIS running on a computer, then you will not be able to use port 443 for firewall configuration on that computer.

CONFIGURE FIREWALL ON COMMSERVE

1. From the CommCell Console, right-click the CommServe computer and click **Properties**.



Select Configure Firewall Settings box.

• Click the Firewall Configuration tab.

• Click Add.

3.

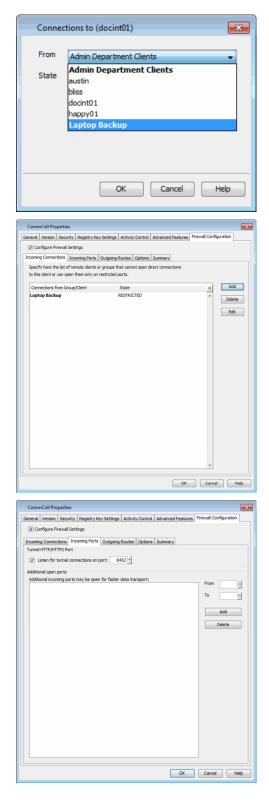
2.

- From the From list, click the Laptop Backup client group.
 - From the **State** list, click **Restricted**.
 - Click OK.

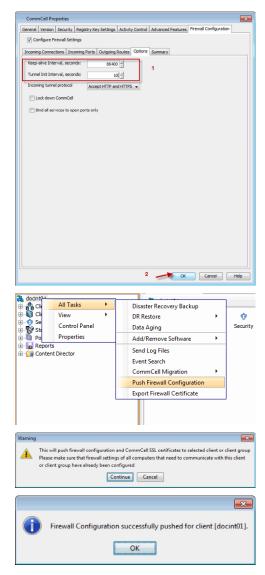
4. Click Incoming Port tab.

- Select Listen for tunnel connection on port box and type or select the port number on which the incoming tunnel connection is received.
 - Click **Options** tab.

5.



- In the Keep-alive Interval, seconds box modify the value to 86400 (24 hours).
 - In the **Tunnel Init Interval, seconds** box, modify the value to 10.
 - Click OK.



7. From the CommCell Browser, right-click the CommServe computer, point All Tasks and then click **Push Firewall Configuration**.

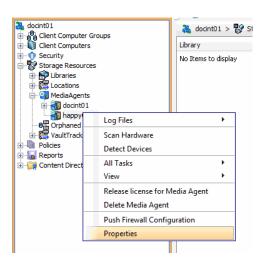
8. Click Continue.

The specified configuration is saved.
 The firewall configuration was pushed successfully.

CONFIGURE FIREWALL ON MEDIAAGENT

SKIP THIS SECTION IF MEDIAAGENT IS SAME AS COMMSERVE.

 From the CommCell Console, navigate to Storage-Resource | MediaAgents, select and right-click <media_agent> and then click Properties.



- Click Firewall Configuration tab.
 - Select Configure Firewall Settings box.

• Click Add.

- **12.** From the **From** list, click the **Laptop Backup** client group.
 - From the **State** list, click **Restricted**.
 - Click OK.
- **13.** Click the **Incoming Ports** tab.

MediaAgent Properties
General Control Catalog Version Security
Associated Storage Policies Firewall Configuration Network Throttling
Configure Firewall Settings Incoming Connections Incoming Ports Outgoing Routes Options Summary
Specify here the list of remote clients or groups that cannot open direct connections
to this client or can open them only on restricted ports.
Connections from Group/Client State S Add
Delete
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OK Cancel Help
Connections to (happy01_2)
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docint01 happy01 Laptop Backup MediaAgent Properties @ General

- Select Listen for tunnel connection on port box and type or select the port number on which the incoming tunnel connection is received.
 - Click **Options** tab.

14.

OK Cancel Help

MediaAgent Properties		×
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Listen for tunnel conn	ections on port: 8600 📩	
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		OK Cancel Help
MediaAgent Properties		×
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Properties

- In the **Keep-alive Interval, seconds** box modify the value to 86400 (24 hours).
- In the **Tunnel Init Interval, seconds** box, modify the value to 10.
- Click OK.

15.

From the CommCell Console, navigate to Storage-Resource | MediaAgents.
 Right-click the <media_agent> and then click Push Firewall Configuration.

Click Continue. 17.

18. The specified configuration is saved. The firewall configuration was pushed successfully.



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All Tasks

View Properties

wall Configu

oming Connections Incoming Ports Outgoing Routes Options Specify here the list of remote clients or groups that cannot to this client or can open them only on restricted ports.

🚺 Laptop Backup 🗙 👔

Add

× Delete Edit

🚜 docint01 > 🌐 Client Com

Client Name

No Items to display

💩 CommCell Browser

Client Compu Security Storage Resource Policies

Reports
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ctions from Group/Client

Enable Firewall Configuration

Client Compute

Client Computer Groups

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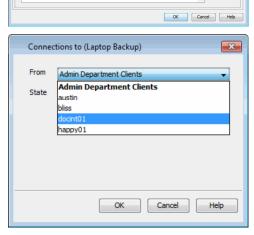
CONFIGURE FIREWALL ON CLIENT GROUP

- 19. • From CommCell Browser, navigate to Client Computer Groups.
 - Right-click the Laptop Backup group and then click Properties.
- 20.

21.

- Click Firewall Configuration tab.
- Select Enable Firewall Configuration box.
- Click Add.

- From the From list, click the name of the CommServe computer.
- From the State list, click Blocked, since the CommServe cannot open connections to the Client.
- Click OK.



- 22. • If you have not configured the firewall on MediaAgent, skip this step.
 - If you have configured firewall on MediaAgent, follow this steps:
 - From the **From** list, click the name of the MediaAgent computer. o From the State list, click Blocked, since the MediaAgent cannot open
 - connections to the Client.
 - O Click OK.

23. Click the Outgoing Routes tab. Click Add.

- From the **Remote Group/Client** list, select CommServe name.
- From the Route Type, click Direct.
- From the Tunnel Connection Protocol, click HTTPS.
- Click OK.

If MediaAgent is installed on separate computer, repeat the steps described above and select the **MediaAgent** in the **Remote Group/Client** list.

From	docint01	
State	austin autumn	
	bliss	
	docint01	
	happy01	
	happy01_2	
	OK Cancel	Help
lient Group "Laptop Bi	ckup"	
eral Activity Control	ecurity Firewall Configuration Network Throttle	ng l
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- Click **Options** Tab.
 - In the Keep-alive Interval, seconds box modify the value to 86400 (24 hours).
 - In the **Tunnel Init Interval, seconds** box, modify the value to 10.
 - Click Network Throttling tab.

Client Group "Laptop Backup"
General Activity Control Security Firewall Configuration Network Throtting
Configure Firewall Settings
Incoming Connections Incoming Ports Outgoing Routes Options
Keep-alive Interval, seconds: 86400 +
Tunnel Init Interval, seconds: 10 - 2
Incoming tunnel protocol Accept HTTP and HTTPS
Cock down CommCell
Bind all services to open ports only
OK Cancel Help

 Central Activity Control Security Prevail Configuration
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 Image: Control Control Security

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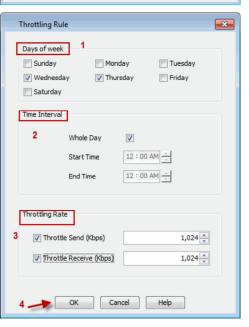
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Client Group "Laptop Backup"



- **26.** Select Enable Network Throttling checkbox.
 - In **Remote Clients or Client Group**, select the Media Agent designated for this Client Group.
 - Click **Add** to setup throttling rules.

- **27.** Specify the following and then click **OK**.
 - Days of Week select a day or multiple days for the schedule to run.
 - **Time Interval** select Whole day or a specific time interval for the schedule to run.
 - Throttling Rate select Throttle Send and Throttle Receive rate and enter values.

28. The newly added throttling rules will be displayed in Throttling Schedule.

Click OK.

- **29.** From the CommCell Browser, navigate to **Client Computer Groups**.
 - Right-click the Laptop Backup group and point All Tasks and then click Push Firewall Configuration.
- 30. Click Continue.
- The specified configuration is saved.
 The firewall configuration was pushed successfully.
- **32.** The newly added clients will automatically be registered in the client group and will hence inherit the firewall settings established in the client group.

□ Clent Computer Groups □ Hoteldagent Group □ Clent Computers □	2				
Throttling Schedule					
Days Tir	me s	end Rate (Kbps)	Recv. Rate	×	
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Client Group "Laptop Backup

General Activity Control Security Firewall Configuration Network Throtting



Create Installation Package - Laptop Backup

Overview

Firewall Using Proxy Prepare CommCell

Firewall Without Proxy Create Installation Package

Web Access

< Previous Next 🕨

The Installation Package will be used to install the backup client on a laptop. It will enable the automatic backup of the data residing on the laptop.

The software package can be created using one of the following methods:

METHOD 1: CREATE INSTALLATION PACKAGE

Use this procedure to create a customized installation package for laptops that allows users to install through command line.

METHOD 2: CREATE NATIVE INSTALLATION PACKAGE

Use this procedure to create an installation package using PackageMaker.

Note that this procedure requires the PackageMaker application (part of the Xcode developer software suite) to be available on the computer where you wish to create the installation package.

CREATE INSTALLATION PACKAGE

- Logon to the client computer as root. 1.
- 2. If you are installing the software from CD, run the following command to mount the CD:

mount_cd9660 /dev/disk1s1 /cdrom

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

3. The product banner and other information is displayed.

Press Enter.

- 4. Read the license agreement. Type y and press Enter.
- Type 2 and press Enter. 5.

Press Enter. 6.

7. Press Enter.

BEFORE YOU BEGIN

Download Software Packages

Download the latest software package to perform the install.

System Requirements

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

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

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

1) Install data protection agents on this computer

- 2) Advance options
- 3) Exit this menu

Your choice: [1]

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

[Custom Package Creator]

1) Create a custom install package

[De-coupled Installer]

2) Pre-install software Components (De-coupled Mode)

[Integrated File Archiver]

- 3) File System iDataAgent with Archiving Enabler
- [Customized Cluster Agents]
- 4) Veritas Cluster Agents
- [Done]
- 5) Exit this menu
- Your choice: [1]

Besides general package, you may choose to create one additional native package from the list below.

- 1) General package only
- 2) Please also create RPM
- 3) Please also create solaris native package
- 4) Please also create hpux native package

8. Type 12 and press Enter.

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

10. Type 1 to select Unix File System iDataAgent and press Enter.

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

12. Press Enter.

The package will be created in the following location:

5) Please also create Mac package using PackageMaker

6) Please also create APT

7) Exit

Package Type Number [1]

Please choose one or more platforms to package from the list below.

- [] 1) Linux X86
-] 2) Linux X86_64
-] 3) Linux IA64] 4) Linux PPC64
-] 5) Linux \$390
-] 6) Solaris8/9 SPARC] 7) Solaris10 SPARC
-] 8) Solaris10 X86_64
- [] 9) Aix PPC [] 10) HP-UX PA-RISC [] 11) HP-UX IA64
-] 12) Darwin X86

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

Enter number(s)/one of "a,n,r,q,d,>,<,?" here: 12

Please choose one or more platforms to package from the list below.

- [] 1) Linux X86 [] 2) Linux X86 64
-] 3) Linux IA64 | 4) Linux PPC64
- [] 5) Linux \$390
-] 6) Solaris8/9 SPARC
-] 7) Solaris10 SPARC
-] 8) Solaris10 X86_64 1 9) Aix PPC
- [] 10) HP-UX PA-RISC [] 11) HP-UX IA64 [X] 12) Darwin X86

- [] 13) FreeBSD4 X86

[a=all n=none r=reverse q=quit d=done >=next <=previous ? =help] Enter number(s)/one of "a,n,r,q,d,>,<,?" here: d</pre>

Please choose one or more subsystems to package from the list below.

- [] 1) UNIX File System iDataAgent [1101] [CVGxIDA]

- 2) MediaAgent [1301] [CVGxMA] 3) SCSI Driver [1105] [CVGxWA] 4) ProxyHost iDataAgent [1102] [CVGxProxyIDA] 5) Documentum iDataAgent [1126] [CVGxDctmIDA]

- [] 6) Oracle iDataAgent [1204] [CVGxOTDA] [] 7) SAP for Oracle [1205] [CVGxOrSAP] [] 8) SAP for MaxDB [1206] [CVGxSAPMAXDB]
-] 9) Informix iDataAgent [1201] [CVGxIfIDA]] 10) Sybase iDataAgent [1202] [CVGxSybIDA]
-] 11) DB2 iDataAgent [1207] [CVGxDB2]] 12) MySQL iDataAgent [1208] [CVGxMySQL]
-] 13) PostGres iDataAgent [1209] [CVGxPostGres]

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

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

Please choose one or more subsystems to package from the list below.

- [X] 1) UNIX File System iDataAgent [1101] [CVGxIDA]
 [] 2) MediaAgent [1301] [CVGxMA]
 [] 3) SCSI Driver [1105] [CVGxWA]
 [] 4) ProxyHost iDataAgent [1102] [CVGxProxyIDA]
 [] 5) Documentum iDataAgent [1126] [CVGxDctmIDA]
 [] 5) Documentum iDataAgent [1126] [CVGxDctmIDA] bocumentum iDataAgent [1126] [CVGxDtClm
 oracle iDataAgent [1204] [CVGxOrDA]
 SAP for Oracle [1205] [CVGxOrSAP]
 SAP for MaxDB [1206] [CVGxSAPMAXDB]
 Informix iDataAgent [1201] [CVGxfIDA]
 Sybase iDataAgent [1202] [CVCxSybIDA]] 11) DB2 iDataAgent [1207] [CVGxDB2]] 12) MySQL iDataAgent [1208] [CVGxMySQL] [a=all n=none r=reverse q=quit d=done >=next <=previous ? =help]
- Enter number(s)/one of "a,n,r,q,d,>,<,?" here: d</pre>
- Save custom package to: [/opt]

/opt/UnixCustomPackage/mac

13.	Type Yes to record your install and press Enter .	Optionally, you may choose to record install to an xml parameter file now so that you can play it later. The recorded xml will be encapsulated into the custom package and can be used as an answer file in two ways:
		(1) from the custom package run "silent_install -p default";
		(2) from the native package run native installer (rpm/pkgadd/swinstall)
		You can still perform the above two tasks without custom recording if you choose to use all default parameters.
		Do you want to record the install now? [no] yes
14.	Type 1 to select Unix File System iDataAgent and press Enter.	Please choose one or more subsystems to package from the list below.
		<pre>[] 1) UNIX File System iDataAgent [1101] [CVGxIDA] [] 2) ProxyHost iDataAgent [1102] [CVGxProxyIDA] [] 3) CommCell Console [1118] [CVGxGUI] [] 4) Resource Pack [1130] [CVGxRP] [] 5) CommNet Browser [1134] [CVGxQGUI] >) >>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>></pre>
		<pre>[a=all n=none r=reverse q=quit d=done >=next <=previous ? =help] Enter number(s)/one of "a,n,r,q,d,>,<,?" here: 1</pre>
11.	A confirmation screen will mark your choice with an "X".	Please choose one or more subsystems to package from the list below.
	Type " d " for Done , and press Enter .	<pre>[X] 1) UNIX File System iDataAgent [1101] [CVGxIDA] [] 2) ProxyHost iDataAgent [1102] [CVGxProxyIDA] [] 3) CommCell Console [1118] [CVGxCUI] [] 4) Resource Pack [1130] [CVGxRP] [] 5) CommNet Browser [1134] [CVGxQCUI] >) >>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>></pre>
		<pre>[a=all n=none r=reverse q=quit d=done >=next <=previous ? =help] Enter number(s)/one of "a,n,r,q,d,>,<,?" here: d</pre>
16.	Type Yes and press Enter to enable laptop backup features.	Do you want to configure the iDataAgent for laptop or
	The following Laptop Backup features are enabled:Automatic OwnershipAutomatic SchedulingBackup Monitor Tool	desktop backups? [no]
	For more information, refer to FAQs.	
17.	Press Enter.	Do you want to install the agents for restore only without consuming licenses? [no]
18.	Type the path for installation directory and press Enter .	Please specify where you want us to install Calypso binaries.
		It must be a local directory and there should be at least 142MB 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:
19.	Type the path for log directory and press Enter .	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
		Calypso log files will be created in /var/log/Calypso/Log_Files.
20.	Press Enter to assign user group.	Most of Calypso processes run with root privileges, but some are launched by databases and inherit database access
	It is recommended that you create a new user group before creating package, to specify access permissions to Calypso processes.	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, 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 Calypso? [yes]

21.	Type the Group name and then press Enter .	Please enter the name of the group which will be assigned to all Calypso files and on behalf of which all Calypso processes will run.
		In most of the cases it's a good idea to create a dedicated "Calypso" group. However, if you're planning to use Oracle iDataAgent or SAP Agent, you should enter Oracle's "dba" group here.
		Group name: staff
		REMINDER
		If you are planning to install Calypso Informix, DB2, Sybase or LotusNotes iDataAgent, please make sure to include informix, db2, etc. users into group "staff".
		Press <enter> to continue</enter>
22.	Type d for done with the selection and press Enter .	Access Permissions for Other Users
	This screen is displayed if you do not assign any group to the software and type no in step 20 .	Installer will assign full access rights to root user and its belonging group for all installed Calypso files and its processes.
		For any other users, you can specify the access permissions now. However, since you chose not to assign a dedicated group in previous step, make sure you specify sufficient access rights for other users if you are also planning to install Calypso agents involving third party software protection.
		[X] 1) Allow read permission to other users
		[X] 2) Allow write permission to other users
		[X] 3) Allow execute permission to other users
		<pre>[a=all n=none r=reverse q=quit d=done >=next <=previous ? =help] Enter number(s)/one of "a,n,r,q,d,>,<,?" here: d</pre>
23.	Press Enter to accept the default value for Number of Streams.	Number of Streams
	You can type the Number of Streams that you plan to run at the same time and then press Enter .	IMPORTANT : Please read install document "Configure Kernel Parameters - Unix/Macintosh" from "Books Online" before you start configuring kernel parameters. Please enter the total number of streams that you plan to run at the same time. We need to make sure that you have enough semaphores and shared memory segments configured in /etc/system.
		Number of streams [10]
24.	Press Enter if you do not want to apply the changes now.	Modify System Configuration File
	If you want to apply the changes now, type Yes and then press Enter .	We now need to modify the /etc/sysctl.conf configuration file on this computer. It is done to make sure that there will be enough shared memory and semaphores available for Calypso programs.
		<pre>Please review the changes below, and answer "yes", if you want us to apply them to /etc/sysctl.conf file. Otherwise the installation will proceed, the changes will saved to some other file, and you will have to apply them manually. kern.sysv.shmal=524287 (unchanged) kern.sysv.shmmin=1312 (was:672) kern.sysv.shmseg=1288 (was:672) kern.sysv.shmsesg=1288 (was:68021) kern.sysv.semmn=88661 (was:88021) kern.sysv.semms=88661 (was:88021) bern.sysv.semms=88661 (was:88021) Do you want us to apply these changes now? [no]</pre>
25.	Type a network TCP port number for the Communications Service (CVD) and press Enter .	Every instance of Calypso should use a unique set of network ports to avoid interfering with other instances running on the same machine.
	Type a network TCP port number for the Client Event Manager Service (EvMgrC) and press Enter .	The port numbers selected must be from the reserved port number range and have not been registered by another application on this machine.
		Please enter the port numbers.
		Port Number for CVD :
		Port Number for EvMgrC:
26.	Type Yes and then press Enter .	Is there a firewall between this client and the CommServe? Yes

- If you have firewall setup with proxy, click Configure Firewall With Proxy.
- If you have firewall setup without proxy, click Configure Firewall Without Proxy.

CONFIGURE FIREWALL WITH PROXY

27. Type **3** to select **CommServe is reachable only through a proxy**.

Please specify now how your firewall is limiting network traffic. Whether it's possible to open connection from

	Press Enter .	here to a CommServe's tunnel port, whether all connections toward CommServe are blocked, and we should instead expect CommServe to connect back to us, or whether there is a proxy in between.
		 This machine can open connection to CommServe on a tunnel port
		2) CommServe can open connections toward us
		3) Commserve is reachable only through a proxy
		Your choice: [1]
28.	Type CommServe Client Name and press Enter.	Please specify client name of the CommServe below.
		CommServe Client Name:
29.	Enter the following information:	Proxy Connection Setup
	 Type GatewayProxy hostname in hostname or IP Address and press Enter. Type GatewayProxy client name in Proxy short name and press Enter. Type the port number of the HTTP Proxy through which the CommServe and be reached and press Enter. 	Please specify the name of IP address of the proxy that should be used to reach the CommServe along with the port number, on which the proxy is expecting connections.
		Proxy hostname or IP address:
		Proxy short name:
		Proxy HTTP/HTTPS tunnel port number:

• If you have configured your firewall without proxy, click Configure Firewall Without Proxy.

• If you have already configured your firewall with proxy, click Configuration of Other Installation Options.

CON	FIGURE FIREWALL WITHOUT PROXY	
30.	Type 1 to select This machine can open connection to CommServe on tunnel port and press Enter.	Please specify now how your firewall is limiting network traffic. Whether it's possible to open connection from here to a CommServe's tunnel port, whether all connections toward CommServe are blocked, and we should instead expect CommServe to connect back to us, or whether there is a proxy in between.
		 This machine can open connection to CommServe on a tunnel port
		2) CommServe can open connections toward us
		3) CommServe is reachable only through a proxy
		Your choice: [1]
31.	Enter the name of the CommServe computer in place of CommServe Client Name .	Please specify client name of the CommServe below.
	Press Enter.	CommServe Client Name:
32.	Enter the fully qualified name or the IP address of the CommServe in the CommServe Host Name . This should be TCP/IP network name. e.g., computer.company.com.	Please specify hostname of the CommServe below. Make sure the hostname is fully qualified, resolvable by the name services configured on this machine. If there is a port- forwarding Gateway in front of the CommServe, enter
	Press Enter.	hostname or IP address of the Gateway here.
	 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. 	
33.	Type the incoming port number through which the CommServe computer receives tunnel connection.	Please specify the port number, on which we should open tunnel connections toward the CommServe. This is same as "Tunnel HTTP/HTTPS port" configurable in the "Incoming
	Press Enter.	Ports" tab of the CommServe Firewall Properties adjusted
	This is the port number, provided in the step 5 during Setting up Connection to the CommServe .	for a possible port-mapping Gateway in front of it. CommServe HTTP/HTTPS tunnel port number: 8500
34.	• If this computer is separated from the CommServe by a HTTP Proxy, type Yes and enter the following information:	If there is an HTTP proxy between this client and the CommServe (e.g. Squid or Apache), please provide HTTP Proxy configuration below.
	HTTP Proxy hostname or IP address: Type the hostname or IP address of the HTTP Proxy through which the CommServe can be reached.	Is there an HTTP proxy between this client and the CommServe? [no]
	HTTP Proxy port number : Type the port number of the HTTP Proxy through which the CommServe can be reached.	
	Press Enter.	
	• If this computer is not separated from the CommServe by a HTTP Proxy, type No and press Enter .	
35.	If the CommCell is in the Lockdown mode, enter Yes and provide the nath to the	If you have checked "Lockdown CommCell" in firewall

 If the CommCell is in the Lockdown mode, enter Yes and provide the path to th folder in the which the CommCell HTTPS certificate are available.

properties of the CommServe or Proxy, you need to provide

See Enforcing CommCell Specific Certificates for Authentication for more information on the Lockdown feature and steps to export the CommCell Certification.

Press Enter.

path to the directory with CommCell HTTPS certificate below.

This certificate can be obtained by right-clicking CommServe name in the Java GUI, and selecting All Tasks -> Export Firewall Certificate popup menu item.

Have you enabled "Lockdown CommCell"? [no]

36.	Type the Laptop Backup as a client group and then press Enter.	Please enter one Client Computer Group name for this
	If you want to configure any additional settings for the clients before performing the backup, select the Waiting Room as the client group.	client to join. Client Computer Group Name:
	See Configure Additional Settings Before Laptops Execute The First Backup for more information on Waiting Room client group configuration.	
37.	Type Yes and press Enter .	Do you want to configure subclient policy? [no] yes
38.	Type the laptop subclient policy created in step 21 during Create Subclient Policy.	Please enter a subclient policy name for this IDA.
		Subclient Policy Name:
39.	Press Enter .	Please select which instance you want to install/repla for this recording:
		1) Always install to Instance001
		2) Always install to Instance002
		3) Always install to Instance003
		4) Always install to Instance004
		5) Always install to Instance005
		6) Always install to Instance006
		7) Always install to Instance007
		8) Always install to Instance008
		9) Always install to Instance009
		10) Always install to Instance010
		11) Always install to a new instance
		12) I want to specify another instance
		Your choice: [11]
0.	Enter Yes to create the tar file of Custom Package.	Archiving the custom package in a tar file (Optional)
		Optionally, you may choose to tar the package now.
		Do you want to create the tar file now? [no] yes
11.	The UnixCustomPackage.tar file is now created.	Creating /opt/UnixCustomPackage.tarDone.
	YOU CAN NOW PROVIDE THIS PACKAGE TO LAPTOP USERS.	

CREATE NATIVE INSTALLATION PACKAGE

Ensure that you have a **PackageMaker** application (part of the Xcode developer software suite) on the computer where you wish to create installation package.

- **1.** Logon to the client computer as **root**.
- Navigate to Software Installation Package and run the following command: ./cvpkgadd
- The product banner and other information is displayed. Press Enter.
- 4. Read the license agreement. Type **y** and press **Enter**.
- 5. Type 2 and press Enter.

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

Advanced 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) Advanced options

3) Exit this menu

Press Enter. 6.

Type 5 and press Enter. 7.

- 8. Type 1 and press Enter.
- A confirmation screen will mark your choice with an "X". 9 Type "d" for Done, and press Enter.
- 10. Type 1 to select Unix File System iDataAgent and press Enter.

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

- Your choice: [1] 2
- Please select a setup task you want to perform from the list below:
- [Custom Package Creator]
- 1) Create a custom install package
- [De-coupled Installer]
- 2) Pre-install software Components (De-coupled Mode)
- [Integrated File Archiver]
- 3) File System iDataAgent with Archiving Enabler
- [Customized Cluster Agents]
- 4) Veritas Cluster Agents
- [Done]
- 5) Exit this menu

Your choice: [1]

Besides general package, you may choose to create one additional native package from the list below.

- 1) General package only
- 2) Please also create RPM
- 3) Please also create solaris native package
- 4) Please also create hpux native package
- 5) Please also create Mac package using PackageMaker
- 6) Please also create APT
- 7) Exit
- Package Type Number [1]

Please choose one or more platforms to package from the list below.

[] 1) Darwin X86

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

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

Please choose one or more platforms to package from the list below.

[X] 1) Darwin X86

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

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

Please choose one or more subsystems to package from the list below.

- 1) UNIX File System iDataAgent [1101] [CVGxIDA] 2) MediaAgent [1301] [CVGxMA]
] 3) SCSI Driver [1105] [CVGxWA]
-] 4) ProxyHost iDataAgent [1102] [CVGxProxyIDA]
-] 5) Documentum iDataAgent [1126] [CVGxDctmIDA]] 6) Oracle iDataAgent [1204] [CVGxOrIDA]] 7) SAP for Oracle [1205] [CVGxOrSAP]

- 3 SAP for Oracle [1205] [CVGxOFSAP]
 3 SAP for MaxDB [1206] [CVGxSAPMAXDB]
 9 Informix iDataAgent [1201] [CVGxIfIDA]
 10) Sybase iDataAgent [1202] [CVGxSybIDA]
 11) DB2 iDataAgent [1207] [CVGxDB2]

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

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

Please choose one or more subsystems to package from the list below.

- [X] 1) UNIX File System iDataAgent [1101] [CVGxIDA]
- [] 2) MediaAgent [1301] [CVGxMA] [] 3) SCSI Driver [1105] [CVGxWA]
-] 4) ProxyHost iDataAgent [1102] [CVGxProxyIDA]
-] 5) Documentum iDataAgent [1126] [CVGxDctmIDA]] 6) Oracle iDataAgent [1204] [CVGxOrIDA]

- 7) SAP for Oracle [1205] [CVGxOrSAP]
 8) SAP for MaxDB [1206] [CVGxSAPMAXDB]
 9) Informix iDataAgent [1201] [CVGxIFIDA]
-] 10) Sybase iDataAgent [1202] [CVGxSybIDA]] 11) DB2 iDataAgent [1207] [CVGxDB2]
- [] 12) MySQL iDataAgent [1208] [CVGxMySQL]
 [] 13) PostGres iDataAgent [1209] [CVGxPostGres]

[a=all n=none r=reverse q=quit d=done >=next <=previous ? =help] Enter number(s)/one of "a,n,r,q,d,>,<,?" here: d Save custom package to: [/opt] Press Enter. The package will be created in the following location: /opt/UnixCustomPackage/mac Optionally, you may choose to record install to an xml parameter file now so that you can play it later. The recorded xml will be encapsulated into the custom package Type **Yes** to record your install and press **Enter**. and can be used as an answer file in two ways: (1) from the custom package run "silent_install -p default": (2) from the native package run native installer (rpm/pkgadd/swinstall...) You can still perform the above two tasks without custom recording if you choose to use all default parameters. Do you want to record the install now? [no] yes Please choose one or more subsystems to package from the Type 1 to select Unix File System iDataAgent and press Enter. list below. 1) UNIX File System iDataAgent [1101] [CVGxIDA]] 2) MediaAgent [1301] [CVGxMA]
] 3) SCSI Driver [1105] [CVGxWA]] 4) ProxyHost iDataAgent [1102] [CVGxProxyIDA]] 5) Documentum iDataAgent [1126] [CVGxDctmIDA]] 6) Oracle iDataAgent [1204] [CVGxOrIDA] 7) SAP for Oracle [1205] [CVGxOrSAP]
 8) SAP for MaxDB [1206] [CVGxSAPMAXDB]
 9) Informix iDataAgent [1201] [CVGxIFIDA] [] 10) Sybase iDataAgent [1202] [CVGxSybIDA]
[] 11) DB2 iDataAgent [1207] [CVGxDB2]] 12) MySQL iDataAgent [1208] [CVGxMySQL]] 13) PostGres iDataAgent [1209] [CVGxPostGres] [a=all n=none r=reverse q=quit d=done >=next <=previous ? =help] Enter number(s)/one of "a,n,r,g,d,>,<,?" here: 1 Please choose one or more subsystems to package from the A confirmation screen will mark your choice with an "X". list below Type "d" for Done, and press Enter. [X] 1) UNIX File System iDataAgent [1101] [CVGxIDA] [] 2) MediaAgent [1301] [CVGxMA]
[] 3) SCSI Driver [1105] [CVGxWA] 4) ProxyHost iDataAgent [1102] [CVGxProxyIDA] 5) Documentum iDataAgent [1126] [CVGxDctmIDA] 6) Oracle iDataAgent [1204] [CVGxOrIDA]] 7) SAP for Oracle [1205] [CVGxOrSAP]] 8) SAP for MaxDB [1206] [CVGxSAPMAXDB]] 9) Informix iDataAgent [1201] [CVGxIfIDA]] 10) Sybase iDataAgent [1202] [CVGxSybIDA] 11) DB2 iDataAgent [1207] [CVGxDB2]] 12) MySQL iDataAgent [1208] [CVGxMySQL]] 13) PostGres iDataAgent [1209] [CVGxPostGres] [a=all n=none r=reverse q=quit d=done >=next <=previous ? =help] Enter number(s)/one of "a,n,r,q,d,>,<,?" here: d Do you want to configure the iDataAgent for laptop or Type Yes and press Enter. desktop backups? [no] Do you want to install the agents for restore only without Press Enter. consuming licenses? [no] Please specify where you want us to install Calypso Enter the path for installation directory and press Enter. binaries. It must be a local directory and there should be at least 142MB 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: Enter the path for log directory and press Enter. 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 log will actually be placed into "/var/log/Calypso/Log_Files". Log Directory: /var/log/Calypso Calypso log files will be created in /var/log/Calypso/Log_Files.

12.

13.

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19.

Most of Calypso processes run with root privileges, but

20.	Press Enter to assign user group.	some are launched by databases and inherit database access rights. To make sure that registry and log files can be
	It is recommended that you create a new user group before creating package, to specify access permissions to Calypso processes.	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, 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 Calypso? [yes]
21.	Type the Group name and then press Enter .	Please enter the name of the group which will be assigned to all Calypso files and on behalf of which all Calypso
		processes will run.
		In most of the cases it's a good idea to create a dedicated "Calypso" group. However, if you're planning to use Oracle iDataAgent or SAP Agent, you should enter Oracle's "dba" group here.
		Group name: staff
		REMINDER
		If you are planning to install Calypso Informix, DB2, Sybase or LotusNotes iDataAgent, please make sure to include informix, db2, etc. users into group "staff".
		Press <enter> to continue</enter>
22.	Type a network TCP port number for the Communications Service (CVD) and press Enter .	Every instance of Calypso should use a unique set of network ports to avoid interfering with other instances running on the same machine.
	Type a network TCP port number for the Client Event Manager Service (EvMgrC) and press Enter .	The port numbers selected must be from the reserved port number range and have not been registered by another application on this machine.
		Please enter the port numbers.
		Port Number for CVD :
		Port Number for EvMgrC:
23.	Press Enter.	Is there a firewall between this client and the CommServe? [no]

- 24. Type Yes and then press Enter.
 - If you have firewall setup with proxy, click Configure Firewall With Proxy.
 - If you have firewall setup without proxy, click Configure Firewall Without Proxy.

CONFIGURE FIREWALL WITH PROXY

25.	Type 3 to select CommServe is reachable only through a proxy . Press Enter .	Please specify now how your firewall is limiting network traffic. Whether it's possible to open connection from here to a CommServe's tunnel port, whether all connections toward CommServe are blocked, and we should instead expect CommServe to connect back to us, or whether there is a proxy in between.
		 This machine can open connection to CommServe on a tunnel port
		2) CommServe can open connections toward us
		3) Commserve is reachable only through a proxy
		Your choice: [1]
26.	Type CommServe Client Name and press Enter.	Please specify client name of the CommServe below. CommServe Client Name:
27.	Enter the following information:	Proxy Connection Setup
	 Type GatewayProxy hostname in hostname or IP Address and press Enter. Type GatewayProxy client name in Proxy short name and press Enter. Type the port number of the HTTP Proxy through which the CommServe and be 	Please specify the name of IP address of the proxy that should be used to reach the CommServe along with the port number, on which the proxy is expecting connections.
	 Type the port number of the HTTP Proxy through which the commissive and be reached and press Enter. 	Proxy hostname or IP address:
		Proxy short name:
		Proxy HTTP/HTTPS tunnel port number:

- If you have configured your firewall without proxy, click Configure Firewall Without Proxy.
- If you have already configured your firewall with proxy, click Configuration of Other Installation Options.

Is there a firewall between this client and the CommServe?

CONFIGURE FIREWALL WITHOUT PROXY

28. Type 1 to select This machine can open connection to CommServe on tunnel port and press Enter.

Please specify now how your firewall is limiting network traffic. Whether it's possible to open connection from here to a CommServe's tunnel port, whether all connections toward CommServe are blocked, and we should instead expect CommServe to connect back to us, or whether there is a proxy in between.

1) This machine can open connection to CommServe on a tunnel port

2) CommServe can open connections toward us

3) CommServe is reachable only through a proxy

Your choice: [1]

Please specify client name of the CommServe below.

CommServe Client Name:

Proxy configuration below.

CommServe? [no]

below.

Please specify hostname of the CommServe below. Make sure the hostname is fully qualified, resolvable by the name services configured on this machine. If there is a portforwarding Gateway in front of the CommServe, enter hostname or IP address of the Gateway here.

Please specify the port number, on which we should open

"Tunnel HTTP/HTTPS port" configurable in the "Incoming Ports" tab of the CommServe Firewall Properties adjusted

for a possible port-mapping Gateway in front of it.

If there is an HTTP proxy between this client and the

CommServe (e.g. Squid or Apache), please provide HTTP

Is there an HTTP proxy between this client and the

If you have checked "Lockdown CommCell" in firewall

Export Firewall Certificate popup menu item.

Have you enabled "Lockdown CommCell"? [no]

properties of the CommServe or Proxy, you need to provide path to the directory with CommCell HTTPS certificate

This certificate can be obtained by right-clicking CommServe name in the Java GUI, and selecting All Tasks $\mathchar`>$

CommServe HTTP/HTTPS tunnel port number: 8500

tunnel connections toward the CommServe. This is same as

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

Enter the name of the CommServe computer in place of CommServe Client Name.

- 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.
- **31.** Type the incoming port number through which the CommServe computer receives tunnel connection.

Enter the fully qualified name or the IP address of the CommServe in the CommServe Host Name. This should be TCP/IP network name. e.g.,

Press Enter.

Press Enter.

Press Enter.

computer.company.com.

29.

30.

This is the port number, provided in the step 5 during **Setting up Connection to the CommServe**.

32. • If this computer is separated from the CommServe by a HTTP Proxy, type **Yes** and enter the following information:

HTTP Proxy hostname or IP address: Type the hostname or IP address of the HTTP Proxy through which the CommServe can be reached.

HTTP Proxy port number: Type the port number of the HTTP Proxy through which the CommServe can be reached.

Press Enter.

- If this computer is not separated from the CommServe by a HTTP Proxy, type No and press Enter.
- **33.** If the CommCell is in the Lockdown mode, enter **Yes** and provide the path to the folder in the which the CommCell HTTPS certificate are available.

See Enforcing CommCell Specific Certificates for Authentication for more information on the Lockdown feature and steps to export the CommCell Certification.

Press Enter.

CONFIGURATION OF OTHER INSTALLATION OPTIONS

34. Type the **Laptop Backup** as a client group and then press **Enter**.

If you want to configure any additional settings for the clients before performing the backup, select the **Waiting Room** as the client group.

See Configure Additional Settings Before Laptops Execute The First Backup for more information on **Waiting Room** client group configuration.

35. Type Yes and press Enter.

36. Type the subclient policy created in step 21 during Create Subclient Policy.

37. Press Enter.

Please enter one Client Computer Group name for this client to join.

Client Computer Group Name:

Do you want to configure subclient policy? [no] yes

Please enter a subclient policy name for this IDA.

Subclient Policy Name:

Please select which instance you want to install/replay for this recording:

1) Always install to Instance001

2) Always install to Instance002 3) Always install to Instance003 4) Always install to Instance004 5) Always install to Instance005 6) Always install to Instance006 7) Always install to Instance007 8) Always install to Instance008 9) Always install to Instance009 10) Always install to Instance010 11) Always install to a new instance 12) I want to specify another instance Your choice: [11] The record of your input is now complete. Creating the Mac package ... done. The package can be found in the following location: Done. [Custom Package Summary] /opt/UnixCustomPackage/mac/custom-darwin-74487.pkg - General package created at /opt/UnixCustomPackage/pkg - Mac native package created at /opt/UnixCustomPackage/mac:custom-darwin-74487.pkg

> Thank you for choosing Bull. Example: /opt/UnixCustomPackage.tar

39. The custom-darwin-74487.pkg is now created. YOU CAN NOW PROVIDE THIS PACKAGE TO LAPTOP USERS.

38.

Previous Next >

Web Access - Laptop Backup

Overview Prepare CommCell Firewall Using Proxy Firewall W

Firewall Without Proxy Create Installation Package

Web Access

Previous Next >

The following section provides the steps to setup a self-service web console to perform backup, restore and download operations on laptop:

- 1. Installation
- 2. Configuration
 - Add a New Domain Controller
 - Enable Single Sign On
 - o Enable Secured Access for Web Search Client if you want to access the Web Console using HTTPS.
- 3. Assigning Owner For Laptop

INSTALLATION

In order to use web console for backup and restore operations, you need to install **Web Server** and **Web Client** on any computer which can connect with the CommServe. The **Web Server** and **Web Client** can be installed on the same computer or on different computers.

For the web console to be available to users without a VPN session, install the Web Client on a dedicated host located in the DMZ, separate from the Web Server.

- 1. Ensure that the IIS is installed on the computer before installing the Web Server and Web Client.
- 2. Run **Setup.exe** from Software Installation Package on the computer that satisfies the minimum System Requirements.
- 3. Select the required language. Click Next.

Select the language you will use during installation.	
Next>	Cancel
Пси	Carlos
≓ Install Software on this computer	
View documentation website	
 View Install Quick Start Guide (Requires Adobe Acrobat Reader) Install Adobe Acrobat Reader 	
	⇔ Exit

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

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

- 6. Expand Common Technology Engine | Web Console Modules and select one of the following options:
 - Web Server
 - Web Client

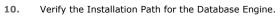
For the web console to be available to users without a VPN session, install the Web Client on a dedicated host located in the DMZ, separate from the Web Server.

Click Next.

- 7. Click Yes.
- 8. Specify the SQL Server System Administrator password. Click Next.

This is the password for the administrator's account created by SQL during the installation.

9. Click Yes.



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

Click Next.

- This is the location where you want to setup the Microsoft SQL Server System databases.
- If you plan to perform VSS enabled backups on the CommServe computer, it is recommended that the CommServe database is not installed on the system drive. VSS restores could cause system state restore issues.

	Agreement
Please i the PAG	ead the following License Agreement. Press iE DOWN key to view the entire agreement.
	~
	3
	End User License and Limited Warranty Agreement
	Software Release 9.0.0
(in	cluding Microsoft® SQL Server™ 2008 Enterprise Edition, SQL Server™
(2008 Express Edition and Windows Pre-Installation Environment)
	Fud Hooy I isource Agreement
• La	accept the terms in the license agreement.
CI	to not accept the terms in the license agreement.
	Installer
	< Back Next > Cancel
Installer	
Select I	Platforms
Select t	he platforms you want to configure.
Ξ 🗅	Move the pointer over a
	Common Technology Engine platform name to see a description of the platform and the plat
[E 🗅 MediaAgent Modules
= 6	Web Server
	Web Client (Heq/Hecommended)
	Client Modules Installation Folder:
[Archive Management
	ContinuousDataReplicator OMB/ 0 MB OMB/ 0 MB
	Special Begistru Keus In Lise
	Installer Opcour Hoger Hove
🔲 Install	Agents for Restore Only < Back Next > Cancel
Installer	
Installer	
Installer	Setup will now install Microsoft .NET Framework for the selected platforms.
Installer	Setup will now install Microsoft .NET Framework for the selected platforms.
Installer	
Installer	Setup will now install Microsoft .NET Framework for the selected platforms. Click 'Yes' to continue. Choosing 'No' will exit the Setup. In such a case, you may resum Setup later at any time.
Installer	Setup will now install Microsoft .NET Framework for the selected platforms. Click 'Yes' to continue. Choosing No' will exit the Setup. In such a case, you may resum
Installer ?	Setup will now install Microsoft .NET Framework for the selected platforms. Click 'Yes' to continue. Choosing 'No' will exit the Setup. In such a case, you may resum Setup later at any time.
2	Setup will now install Microsoft .NET Framework for the selected platforms. Click Yes' to continue. Choosing No' will exit the Setup. In such a case, you may resum Setup later at any time.
Installer ?	Setup will now install Microsoft .NET Framework for the selected platforms. Click 'Yes' to continue. Choosing 'No' will exit the Setup. In such a case, you may resum Setup later at any time.
2 Installer SQL Us	Setup will now install Microsoft .NET Framework for the selected platforms. Click 'Yes' to continue. Choosing 'No' will exit the Setup. In such a case, you may resum Setup later at any time. <u>Yes</u> <u>No</u> er Password
2 Installer SQL Us	Setup will now install Microsoft .NET Framework for the selected platforms. Click 'Yes' to continue. Choosing No' will exit the Setup. In such a case, you may resum Setup later at any time. Yes <u>No</u>
2 Installer SQL Us	Setup will now install Microsoft .NET Framework for the selected platforms. Click 'Yes' to continue. Choosing 'No' will exit the Setup. In such a case, you may resum Setup later at any time. <u>Yes</u> <u>No</u> er Password
2 Installer SQL Us	Setup will now install Microsoft .NET Framework for the selected platforms. Click 'Yes' to continue. Choosing 'No' will exit the Setup. In such a case, you may resum Setup later at any time. <u>Yes</u> <u>No</u> er Password
2 Installer SQL Us	Setup will now install Microsoft .NET Framework for the selected platforms. Click 'Yes' to continue. Choosing No' will exit the Setup. In such a case, you may resum Setup later at any time. <u>Yes</u> <u>No</u> ter Password a password for SQL user 'sa'
2 Installer SQL Us	Setup will now install Microsoft .NET Framework for the selected platforms. Click 'Yes' to continue. Choosing No' will exit the Setup. In such a case, you may resum Setup later at any time. <u>Yes</u> <u>No</u> ter Password a password for SQL user 'sa'
2 Installer SQL Us	Setup will now install Microsoft .NET Framework for the selected platforms. Click 'Yes' to continue. Choosing No' will exit the Setup. In such a case, you may resum Setup later at any time. <u>Yes</u> <u>No</u> er Password re password for SQL user 'sa' Please provide a password for SQL user 'sa' SQL user 'sa'
(2) Installer SQL Us	Setup will now install Microsoft .NET Framework for the selected platforms. Click 'Yes' to continue. Choosing No' will exit the Setup. In such a case, you may resum Setup later at any time. Yes No Yes No
(2) Installer SQL Us	Setup will now install Microsoft .NET Framework for the selected platforms. Click 'Yes' to continue. Choosing No' will exit the Setup. In such a case, you may resum Setup later at any time. <u>Yes</u> <u>No</u> er Password re password for SQL user 'sa' Please provide a password for SQL user 'sa' SQL user 'sa'
(2) Installer SQL Us	Setup will now install Microsoft .NET Framework for the selected platforms. Click 'Yes' to continue. Choosing No' will exit the Setup. In such a case, you may resum Setup later at any time. Yes No Yes No
(2) Installer SQL Us	Setup will now install Microsoft .NET Framework for the selected platforms. Click 'Yes' to continue. Choosing No' will exit the Setup. In such a case, you may resum Setup later at any time. Yes No Yes No
(2) Installer SQL Us	Setup will now install Microsoft .NET Framework for the selected platforms. Click 'Yes' to continue. Choosing No' will exit the Setup. In such a case, you may resum Setup later at any time. Yes No Yes No
(2) Installer SQL Us	Setup will now install Microsoft .NET Framework for the selected platforms. Click 'Yes' to continue. Choosing No' will exit the Setup. In such a case, you may resum Setup later at any time. Yes No Yes No
(2) Installer SQL Us	Setup will now install Microsoft .NET Framework for the selected platforms. Click 'Yes' to continue. Choosing No' will exit the Setup. In such a case, you may resum Setup later at any time. Yes No Yes No
(2) Installer SQL Us	Setup will now install Microsoft .NET Framework for the selected platforms. Click Yes' to continue. Choosing No' will exit the Setup. In such a case, you may resum Setup later at any time. <u>Yes</u> <u>No</u> ter Password a password for SQL user 'sa' Please provide a password for SQL user 'sa' SQL user 'sa' <u>SQL user 'sa'</u> <u>SQL user 'sa'</u>
(2) Installer SQL Us	Setup will now install Microsoft .NET Framework for the selected platforms. Click 'Yes' to continue. Choosing No' will exit the Setup. In such a case, you may resum Setup later at any time. Yes No Yes No
(2) Installer SQL Us	Setup will now install Microsoft .NET Framework for the selected platforms. Click Yes' to continue. Choosing No' will exit the Setup. In such a case, you may resum Setup later at any time. <u>Yes</u> <u>No</u> ter Password a password for SQL user 'sa' Please provide a password for SQL user 'sa' SQL user 'sa' <u>SQL user 'sa'</u> <u>SQL user 'sa'</u>
(2) Installer SQL Us	Setup will now install Microsoft .NET Framework for the selected platforms. Click Yes' to continue. Choosing No' will exit the Setup. In such a case, you may resum Setup later at any time. <u>Yes</u> <u>No</u> ter Password a password for SQL user 'sa' Please provide a password for SQL user 'sa' <u>SQL user 'sa'</u> <u>Enter Password</u> <u>Enter Password</u>
2 Installer SQL Us Provide	Setup will now install Microsoft .NET Framework for the selected platforms. Click Yes' to continue. Choosing No' will exit the Setup. In such a case, you may resum Setup later at any time. Yes No The Password No Please provide a password for SQL user 'sa' SQL user 'sa' Enter Password SQL user 'sa' Enter Password Enter Password Image: SQL user 'sa' Enter Password Image: SQL user 'sa' Enter Password Image: SQL user 'sa' Image: SQL user 'sa'
2 Installer SQL Us Provide	Setup will now install Microsoft .NET Framework for the selected platforms. Click Yes' to continue. Choosing No' will exit the Setup. In such a case, you may resum Setup later at any time. <u>Yes</u> <u>No</u> ter Password a password for SQL user 'sa' Please provide a password for SQL user 'sa' <u>SQL user 'sa'</u> <u>Enter Password</u> <u>Enter Password</u>
2 Installer SQL Us Provide	Setup will now install a dedicated instance of the Database Engine. This process may fear the solution of the solution of the output of the solution of the solution.
2 Installer SQL Us Provide	Setup will now install a dedicated instance of the Database Engine. This process may take some time. Click Yee' to continue.
2 Installer SQL Us Provide	Setup will now install a dedicated instance of the Database Engine. This process may fear the solution of the solution of the output of the solution of the solution.

• The install program installs the database instance.

nce.	Database Engine Installation Path Please provide the location to install the database engine.
	Click Next to accept the default location, or click Browse to choose an alternate location.
	Database Engine Installation Path
	CAPtogram Files/MSS0L2008 Bjowse
	C: 11953 MB Space Required / Recommended 200 MB / 200 MB
	< Back Next > Cancel
	Installer 🔀
	MSSQL Database Installation Path Choose the folder to install the MSSQL Database.
icrosoft SQL Server.	Click Next to accept the default location, or click Browse to choose an alternate location.
2.	MSSQL Database Installation Path
	E-VProgram Files/MSSQL2008 Browse
	Drive List Space Required / Recommended C: 11953 MB 200 MB / 200 MB
	<u>< B</u> ack <u>N</u> ext> <u>C</u> ancel
ewall, select the Configure	Installer 🛛 🔀
ewall Configuration and	Firewall Configuration Configure firewall services
	If there is a firewall between this machine and the CommServe, configure firewall services below.
	Configure firewall services
	Please specify how Windows Firewall is finiting network traffic. Whether it is possible to open connection from here to a CommServe's turnel port, whether all connections toward LommServe are blocked, and setup should initiated expect CommServe to connect back to this machine, or whether there is a flow in between.
	This machine can open connection to CommServe on tunnel port
	C CommServe can open connection toward this machine
	C CommServe is reachable only through a proxy
	Installer Cancel
Heat Name	
Host Name.	Installer 🛛 🗙
	CommServe Name Specify the CommServe computer name and host
n specifying a new	name
an specinying a new	CommServe Client Name
	CommServe Host Name (Enter a valid, fully-qualified, IP host name; for example:
	[Enter a valid, hully-qualified, IP host name; for example: mycomputer.mycompany.com]
	my-computer my-company, com
	Installer <back next=""> Cancel</back>
	<pre></pre>

11. Verify **MSSQL Database Installation Path**.

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

- This is the location where you want to install Microsoft SQL Server.
- This step may take several minutes to complete.
- 12. 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**.

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

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

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

14. Click Next.

15. Modify Apache Tomcat Server port number to 82. Click Next.

Ensure that these port numbers are different and are not already used by any other services or application.

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

Click Next.

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

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

17. Click Next.

Installer	
Communication In	
Setup will configure th	e communication paths.
	Select a client name
	audi_cn
	Select an interface name that this computer will use to
	communicate with the CommServe
	audi.mycompany.com
	IP Address(es) for the selected host.
Installer	
	< Back Next > Cancel
Installer	X
Port Number Sele	ction
	t numbers you want to use for IIS
ana mpatrito.	
	IIS Default WebSite port number: 80
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18. Verify the default location for software installation.

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

Click Next.

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

/:*?"<>|#

It is recommended that you use alphanumeric characters only.

Destination Folder				
Select the destination folder to install the program files.				
Click Next to accept the default location, or click Browse to choose an alternate location.				
Destination Folder				
C:\Program Files\	Browse			
Drive List C: 928 MB	Space Required / Recommended 1394 MB / 1670 MB			
Installer	<back next=""> Cancel</back>			
	< Back Next > Cancel			
Installer	X			
Client Group Selection				
Select a client group for the cli	ient.			
The Client Gro which have th	oup is a logical grouping of client machines ne same associations at various levels like icy, Activity Control, Security and Reports.			
Schedule Poli	wy, weavey control, becally and nepolity.			
Client g	roup:			
None Se				
client_g	roup			
Installer				
	< Back Next > Cancel			
Installer Schedule Install of Auto	matic Updates			
Schedule Install of Auto Choose when you want to sch	matic Updates hedule an install of the			
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19. Select a Client Group from the list. Click **Next**.

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

20. Click Next.

21. Click Next.

22. Select a Storage Policy. Click Next. 23. Enter the Web Server database installation path. Click **Browse** to modify the default location. Click **Next**.

24. Click Next.

25. Click Next.

26. Click Yes.

This screen will appear if you are installing on Windows Server 2008 computer.

Installer 🔀				
Storage Policy Selection				
Select a storage policy for the default subclient to be backed up.				
Configure for Laptop or Desktop Backup				
Select a storage policy from the pull-down list.				
Unassigned 🗨				
Installer				
< Back Next > Cancel				
Installer 🛛 🔀				
Database Path Location for database files				
Database Path				
CAProgram Files/MSSQL2009/MSSQL1 Browse				
Drive List Space Required / Recommended C: 10016 MB 200 MB / 1024 MB				
10. 10010 Mb				
Installer				
< Back Next > Cancel				
Testelles				
Installer 🛛 🗙 Web Administration				
Web Administration Web Administration for Web Search Client				
Virtual Directories for Web Search Client:				
Compliance site: compliancesearch				
End-user site: search				
Admin site: searchadmin				
Installer				
<back next=""> Cancel</back>				
Installer 🛛				
Summary				
Summary of install selections				
Setup has enough information to start copying the program files. If you are satisfied with the				
install settings, click Next to begin copying files.				
Destination Path = C:\Program Files\ CommServe Host = mycomputer.mycompany.com				
Interface Name = audi.mycompany.com Client =audi				
Job Results Path = C:\Program Files\JobResults Global Filters = Use Cell level policy				
Installer < Back Next > Cancel				
Installer				
Exchange email restores require Uutook to be installed on this machine. If you are planning to install Outlook 2007 or another version of 32-bit Outlook, setup will need to install 32-bit compatibility software. Do you want to install the 32-bit compatibility software now?				
Coryce main to instantine occurs companying softWille flows				
<u>Yes</u> <u>N</u> o				

28. Click Next.

29. Click **Finish** to finish the installation.

Installer Select Yes to continue of No to continue without restarting the service. Select Yes to continue of No to continue without restarting the service. If you select No. you must manually dop and restart the World Wide Web Publishing (W3SVC) service when setup complete. Installer Yes: No Schedule Reminder Ito Job schedule creation reminder Please note: You still need to create a Job Schedule for each DataAgent that has been installed on this client compute: Job Schedules are required to allow the DataAgents to perform automated backup and restore operations: Job Schedule creation can be accomplished through the CommCel Console Job Schedule creation can be accomplished through the CommCel Console Installer Lost Schedule creation can be accomplished through the CommCel Console Job Schedule creation can be accomplished through the Console Installer Lestaller WebSearchServer URL:: Materialistion completed successfully. WebSearchServer J. Adi: company.com:81/SearchSvc <th>Setup must new stop and restart the World Wide Web Publishing (W3SVC) service. Setect Yes to continue on No to continue without restarting the service. If you setect No, you must manually stop and restart the World Wide Web Publishing (W3SVC) service when setup completes. Schedule Reminder Job schedule creation reminder Please note: You still need to create a Job Schedule for each DataAgent that has been installed on this client computer. Job Schedule creation reminder Obs Schedule creation can be accomplished through the CommCell Console administration interface. Installer Installer Installer Installer Installer Installer Schedule creation can be accomplished through the CommCell Console administration interface. Installer Installer WebSearchServer URL: MedSarchServer URL: MedSarchSe</th> <th></th> <th></th>	Setup must new stop and restart the World Wide Web Publishing (W3SVC) service. Setect Yes to continue on No to continue without restarting the service. If you setect No, you must manually stop and restart the World Wide Web Publishing (W3SVC) service when setup completes. Schedule Reminder Job schedule creation reminder Please note: You still need to create a Job Schedule for each DataAgent that has been installed on this client computer. Job Schedule creation reminder Obs Schedule creation can be accomplished through the CommCell Console administration interface. Installer Installer Installer Installer Installer Installer Schedule creation can be accomplished through the CommCell Console administration interface. Installer Installer WebSearchServer URL: MedSarchServer URL: MedSarchSe		
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CONFIGURATION

Once the Web Server and Web Client are installed perform the following to configure the Search Console.

ADD A NEW DOMAIN CONTROLLER

You need to provide the information required to communicate with the Active Directory service provider (such as domain name, hostname of directory server, directory service type, username and password) so that it will be maintained in the Web Server database for authentication purposes. Adding a new domain controller registers the external domain with the Web Server.

30. From the CommCell Browser, expand the Security node, right-click Name Servers | Add New Domain and click Active Directory.

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- **31.** Enter the domain name in **NetBIOS Name** box, e.g., mydomain.
 - Enter the Fully Qualified Domain Name (FQDN), e.g., mydomain.mycompany.com in the Domain Name text box.
 - Select Enable SSO.

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	OK Cancel Help

- **32.** Click **Edit** to enter the user account information of the domain.
 - Type Username and Password in Enter User Account Information.
 - Click OK.

33. Click OK.

- 34. Once you have registered the Domain Controller, restart the IIS services on the Web Server.
- From your **CommServe** computer, click the **Start** button on the Windows task bar and then click **Administrative Tools**.
- Click Services.
- In the Services window, select and right-click IIS Admin Service and click Restart.
- Restart Other Services dialog will be displayed, click Yes.

ENABLE SINGLE SIGN ON

The Single Sign On (SSO) enables laptop users to automatically login to the Web Console using their user-account credentials from the Active Directory service provider.

Use the following steps to enable Single Sign On, on the computer where the Web Client is installed:

- **35.** Ensure that you have administrative permissions for the domain.
 - Ensure that Java 6 is installed (1.6.x and above).
 - Open the command prompt and navigate to <software_installation_folder>/Base folder.
 - Run the following command:

cvspn.bat -A <domainName\userName> (adds a Service Principal Name)

- If you are enabling Single Sign On from other computer, make sure that the computer belongs to same domain.
- The userName must match with the Name Server registration done in the Commcell GUI.
- Configure your browser to include the site in the Intranet zone in case of Internet Explorer.

ASSIGNING OWNER FOR LAPTOP

By default, the following users will be designated as owners of the laptop (client) and will have privileges to access the Web Console:

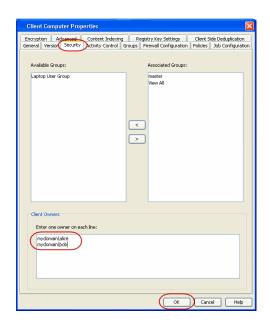
- Active Directory users who are member of **Administrators** group.
- The Active Directory domain must be the domain name specified in step 31 during Add a New Domain Controller.
- The user account used while registering a new client with the **Register Me** tool.
- The user account used to install the Laptop Backup package.

Use the following steps to include users who are not members of the **Administrators** group:

- **36.** From the CommCell Browser, expand the **Client Computer Groups** | **Laptop Backup**.
 - Right-click the **<Client_Computer>** and select **Properties**.
 - Select Security tab.
 - Specify owner in the **Client Owner** box.

You can specify the Active Directory user accounts or CommCell user accounts.

• Click OK.



CONGRATULATIONS - YOU HAVE SUCCESSFULLY COMPLETED YOUR LAPTOP BACKUP SETUP.

Click Advanced Options for additional information.





Advanced Options - Laptop Backup

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Enabling Secured Access for Web Search Client

Install Java with all the updates

Configure SSL on the Tomcat Server

Configuring Job Restartability

License Requirements

SCHEDULING AUTOMATIC UPDATES

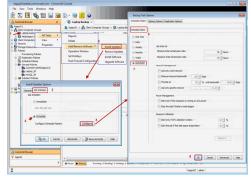
Setup a schedule for Automatic Updates of a software to ensure that the software is up-to-date on the laptops. Follow the steps given below to setup a schedule for automatic updates:

- 1. From the CommCell Console, navigate to **Client Computer Groups** | <**laptop** group>.
- 2. Right-click the <subclient policy> and navigate to **All Tasks** | **Add/Remove Software** and then click **Install Updates**.
- 3. Select **Ignore Running Jobs** to install updates on laptops if you have critical backup updates or service pack to be installed prior to running backup jobs.
- 4. Select Job Initiation tab.
 - Select Schedule, click Configure button.
 - Specify name in **Schedule Name** box.
 - o Click Automatic.

It is recommended to specify 3 weeks for **Minimum Interval between Job** and 4 weeks for **Maximum Interval between Job**.

O Click OK.

5. Click OK.



MODIFYING THE CONTENTS OF THE SUBCLIENT FOR SPECIFIC LAPTOP USERS

The default backup set for all clients will be associated to a subclient policy provided during custom package creation. If you wish to modify the content of a subclient backup set associated with the subclient policy, you can disassociate the client from the subclient policy and modify the content of the subclient. Follow the steps given below to disassociate the client from a subclient policy and modify the content of the client:

- 1. From the CommCell Console, navigate to Policies | Subclient Policies.
- 2. Right-click the <subclient policy> and click Properties.
- 3. Select Association tab.
- 4. Expand the **<client>** and clear the BackupSet checkbox for which you wish to change the association.

5. Click OK.

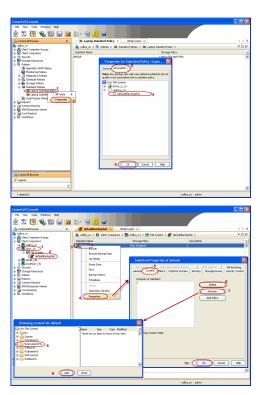
You client is now disassociated from the Subclient Policy.

- From the CommCell Console, navigate to <client computer> | File System | defaultBackupSet right-click default subclient and click Properties.
- 7. Select **Content** tab.
- 8. Select the content (e.g., /opt or /var) in the **Contents of subclient** and click **Delete**.
- 9. Click **Browse** and select the required content (e., Documents) in **Browsing content** for default window.

Click Add.

Click $\ensuremath{\text{Yes}}$ in the $\ensuremath{\text{Warning}}$ window and then click $\ensuremath{\text{Close}}.$

10. Click OK.



CONFIGURING NETWORK BANDWIDTH THROTTLING

The network traffic for Clients and MediaAgents can be throttled based on the network bandwidth in your environment. This is useful to regulate network traffic and minimize bandwidth congestion.

By default, network throttling is disabled. You can enable the throttling options for an individual client, a client group consisting multiple clients, or a MediaAgent. Once configured, the throttling options are applied to all data transfer and control message operations, such as Data Protection operations including Laptop Backups, Copy operations including DASH copy, Data Recovery Operations, etc.

The throttling values setup in the throttling rule regulates the rate at which the data is sent and received.

You can also setup relative bandwidth throttling to ensure performance when the client machine connects with limited bandwidth. Multiple rules can be created for same client/client group, however the lowest values set up in different rules takes precedence for each time that intersects.

Use the following steps to set up network throttling options for Client Computer Group and thereafter disable throttling from the automatic schedules:

- 1. From the CommCell Browser, expand Client Computers.
- 2. Right-click the <*Client_Computer_Group*> and then click Properties.
- 3. Click the Network Throttling tab.
- 4. Select Enable Network Throttling check box.
- 5. Under **Client Computer Groups**, select client computer groups to setup throttling.
- 6. By default, **All clients share allocated bandwidth** check box is selected to share the throttling settings among all selected clients cumulatively.

If this check box is cleared, each client will throttle at the configured rate instead of a combined and shared rate.

7. Click **Add** to setup throttling rules.

If you have setup relative throttling at the Schedule Policy level, make sure t note down the values specified there and Disable Throttling on the Schedule Policy.

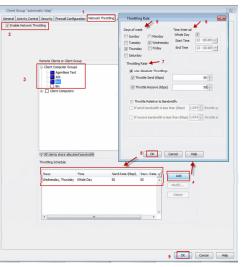
 $\circ~$ In Days~of~Week select a day or multiple days for the schedule to run.

In Time Interval select whole day or a specific time interval for the schedule to run.

- Select one of the following under **Throttling Rate:**
 - OICE Absolute Throttling
 - Relative Throttling

Use Absolute Throttling

Select Throttle Send and/or Throttle Receive rate and enter appropriate



values for each to throttle at the specified speed irrespective of the available bandwidth.

Throttle Relative to bandwidth

- Select If send bandwidth is less than (Kbps) to specify a minimum bandwidth required for send throttling to take affect and then specify the percentage rate to throttle the network bandwidth when the minimum bandwidth is available.
- Select If receive bandwidth is less than (Kbps) to specify a minimum bandwidth required for receive throttling to take affect and then specify the percentage rate to throttle the network bandwidth when the minimum bandwidth is available.

If the throttle bandwidth is higher than the amount specified in **Kbps**, then the job will run without throttling.

Click OK.

The newly added throttling rules will be displayed in Throttling Schedule.

- 8. Click OK.
- 9. From the CommCell Browser, navigate to Client Computer Groups |

 I All Tasks and click Push Firewall Configuration.
- 10. Click Continue.

DISABLE THROTTLING ON THE SCHEDULE POLICY

Throttling options must be disabled at the Schedule Policy level so that the throttling values specified in the Client/Client group level takes affect.

Use the following steps to disable network throttling options for an automatic schedule.

- 1. From the CommCell Console, navigate to Policies | Schedule Policies.
- 2. Right-click the <*laptop schedule policy*> and click **Edit**.
- 3. Select <schedule task> displayed in the Tasks and then click Edit button.
- In the Network Management area, clear the following options if selected.
 Minimum Network Bandwidth
 Throttle at.
- 5. Click OK.

CONFIGURING AUTOMATIC BACKUP SCHEDULES

An automatic backup schedule can be created to automatically run a backup within a specified time. It can also be scheduled to run when the resources, such as network, power and CPU usage are met. The following sections provide information on configuring different resource management options available to schedule a job.

Automatic backup schedule does not perform synthetic full backups.

POWER

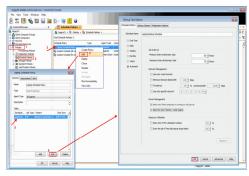
You can schedule a job to run backups only if the computer is on AC power (not battery power). Additionally, you can set an option to stop the backup job if the computer is switched to battery power. If both this options are set for automatic schedule, then your backups will only run when the computer is on AC power.

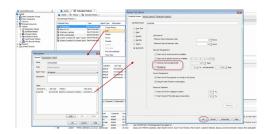
Use the following procedure to schedule a job depending up on the power management of laptops.

- 1. From the CommCell Console, navigate to **Policies** | **Schedule Policies**.
- 2. Right-click the *<laptop schedule policy>* and click **Edit**.
- 3. Select <*schedule task*> displayed in the **Tasks** and then click **Edit** button.
- 4. In the Power Management area, select one the following options:
 - Select Start only if the Computer is running on A/C power box, to run the job only when the computer is on A/C power.

Backups continue to occur when your computer is running on A/C power.

- Select **Stop the task if battery mode begins** box, backup job will not occur when the laptop is running on battery power.
- 5. Click **OK**.





CPU UTILIZATION

Use the following procedure to schedule a job depending upon the CPU and the disk usage.

- 1. From the CommCell Console, navigate to Policies | Schedule Policies.
- 2. Right-click the *<laptop schedule policy* > and click **Edit**.
- 3. Select <schedule task> displayed in the **Tasks** and then click **Edit** button.
- 4. In the Resource Utilization area, select one of the following options:
 - Select **Start only if CPU usage percentage is below** box, specify the amount to run the job when CPU utilization is below the specified percentage.

If the laptop CPU utilization exceeds this percentage during an automatic backup, then a backup won't start unless the CPU utilization falls below the specified percentage.

 Select Start only if free disk space percentage drops below box, specify the amount to run the job when disk space percentage is below the specified percentage.

If the laptop disk space exceeds this percentage during an automatic backup, then a backup won't start unless the disk space percentage falls below the specified percentage.

5. Click **OK**.

ENABLING AUTOMATIC CLIENT REGISTRATION

The Automatic Client Registration feature is useful when have more than one CommServe running in your environment. This feature simplifies the client registration process for laptop clients. You can deploy the same installation package for all laptops and automatically register each laptop with the appropriate CommServe of your choice. The list of clients, where you are going to deploy the installation package, can be administered from a central web interface.

For more information, refer to Auto Client Registration.

ASSIGNING LAPTOP OWNERS

By default, the following users will be designated as owners of the laptop (client) and will have privileges to access the Web Console or Backup Monitor tool.

• Active Directory users who are member of Local Administrators group of the laptop (client).

The Active Directory domain must be the domain name specified in step 31 during Add a New Domain Controller.

- The user account used while registering a new client with the **Register Me** tool.
- The user account used to install the Laptop Backup package.

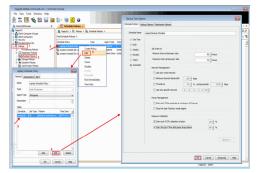
Use the following sections to add or modify additional owners to a laptop.

ASSIGNING USER AS OWNERS

FROM COMMCELL CONSOLE

Use the following steps to include users who are not members of the Administrators group from CommCell Console:

- 1. From the CommCell Browser, expand the Client Computer Groups | Laptop Backup.
- 2. Right-click the <*Client_Computer*> and select Properties.
- 3. Select Security tab.
- 4. Specify owner in the **Client Owner** box.
- 5. Click **OK**.



Client Computer Properties	
Encryption Advanced Content Indexing General Version Security Activity Control G	
General Version Socarky Activity Control G	roups Prewai configuration Policies Job Configuration
Available Groups:	Associated Groups:
Laptop User Group	Naster Vew Al
Client Owners Enter one owner on each ine: mydomainjake mydomainjoobj	
	OK Cancel Help

FROM COMMAND LINE

The following sections describes how to assign multiple users as owners to a client or multiple clients (client computer groups) through command line.

ASSOCIATING/DISASSOCIATING USER GROUP TO A CLIENT

Use the following steps to associate or disassociate members from an existing user group to a client computer. This will allow you to manage the members in the laptop user group.

If necessary you can use the following steps to overwrite the associate user group available on the client with a given user group.

- 1. Right-click the View Sample XML File link and click Save Link As... or Save Target As... to save the XML file needed for this task.
- 2. Open the $\boldsymbol{.xml}$ file using an XML editor and modify the following parameters:
- clientName Specify the names of the client computers that to you want to associate to the user group.

For example: If you wish to associate user group to client1, client2 and clientx then you must add the following:

<entity>

<clientName>client1</clientName>

<clientName>client2</clientName>

<clientName>clientx</clientName>

```
</entity>
```

 userGroupName - Specify the user group to which you want to associate to the client.

For example: If you wish to associate ${\tt usergroup1}$ to the above clients, then you must add the following:

<userGroupName>usergroup1</userGroupName>

- associatedUserGroupsOperationType Indicate one of the following operation types:
 - **ADD** To associate the User Group to a Client

DELETE - To disassociate the User Group to a Client

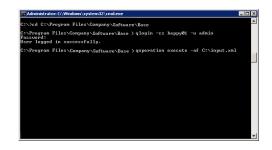
OVERWRITE - To associate the user group mentioned above and disassociate all the user group available on the client computer. For example:

If usergroup2 and usergroup3 are already associated on client1, and you wish to overwrite the available user groups with usergroup4. This operation associates usergroup4 to the client1 and disassociates usergroup2 and usergroup3.

- 3. Save the file as input.xml.
- 4. From Command prompt, navigate to <Software_Installation_Directory>/Base and then run the following command:

• Login to the CommServe using the glogin command and commcell credentials.

VIEW SAMPLE XML FILE



For example, to log on to CommServe server1 with username user1: C:\>qlogin -cs server1 -u user1

- Run the XML using the goperation command.
 - For example, to run input.xml

C:\>qoperation execute -af input.xml

- 5. You can verify the user group associated to client from **Associated Groups**.
 - From the CommCell Browser, right-click the <Client> and then click Properties.
 Click Security tab.
 - The User Group specified above will be listed in the Associated Groups.

ASSOCIATING/DISASSOCIATING USER GROUP TO A CLIENT GROUP

Use the following steps to associate or disassociate members from an existing user group to a client computer group. This will allow you to manage the members in the laptop user group.

If necessary you can use the following steps to overwrite the associate user group available on the client group with a given user group.

- 1. Right-click the View Sample XML File link and click Save Link As... or Save Target As... to save the XML file needed for this task.
 - Open the $\boldsymbol{.xml}$ file using an XML editor and modify the following parameters:
 - **clientGroupName** Specify the names of the client computer group that you want to associate to the user group.

For example: If you wish to associate user group to clientgroup1, clientgroup2 and clientgroupx then your element will appear as follows:

<entity>

2.

<clientGroupName>clientgroup1</clientGroupName>

<clientGroupName>clientgroup2</clientGroupName>

<clientGroupName>clientgroupx</clientGroupName>

</entity>

 userGroupName - Specify the user group to which you want to associate to the client group.

For example: If you wish to associate $\tt usergroup1$ to above client group, then you must add the following:

<userGroupName>usergroup1</userGroupName>

 associatedUserGroupsOperationType - Indicate one of the following operation types:

ADD - This will associate the User Group to a Client Computer Group

DELETE - This will disassociate the User Group to a Client Computer Group

OVERWRITE - To associate the user group mentioned above and disassociate all the user group available on the client computer group. For example:

If usergroup2 and usergroup3 are already associated on clientgroup1, and you wish to overwrite the available user groups with usergroup4. This operation associates usergroup4 to the clientgroup1 and disassociates usergroup2 and usergroup3.

3. Save the file as **input.xml**.

4. From Command prompt, navigate to <Software_Installation_Directory>/Base and then run the following command:

 $\circ~$ Login to the CommServe using the <code>qlogin</code> command and commcell credentials.

For example, to log on to CommServe server1 with username user1:

C:\>qlogin -cs server1 -u user1

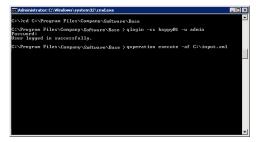
Run the XML using the qoperation command.

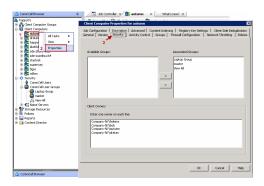
For example, to run input.xml

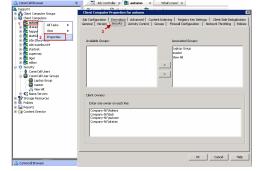
C:\>qoperation execute -af input.xml

- 5. You can verify the user group associated to client from Associated Groups.
 - From the CommCell Browser, right-click the <*Client_Computer_Group>* and then click **Properties**.
 - Click Security tab.

VIEW SAMPLE XML FILE







• The User Group specified above will be listed in the Associated Groups.

ASSOCIATING/DISASSOCIATING USER TO A CLIENT

Use the following steps to associate or disassociate user to a client computer. This will allow user to access the client computer and perform backup and restore operations. This will assign user as a owner to the client computer and allow to perform backup and restore operations.

If necessary you can use the following steps to overwrite the user available on the client with a given user.

- 1. Right-click the View Sample XML File link and click Save Link As... or Save Target As... to save the XML file needed for this task.
- 2. Open the **.xml** file using an XML editor and modify the following parameters:
 - clientName Specify the names of the client computer group that you want to associate to the user.

For example: If you wish to associate user group to client1, client2 and clientx then you must add the following:

<entity>

<clientName>client1</clientName>

<clientName>client2</clientName>

<clientName>clientx</clientName>

</entity>

o clientOwners - Specify the user to which you want to associate to the client.

For example: If you wish to associate ${\tt userl}$ to above clients, then you must add the following:

<clientOwners>user1</clientOwners>

o clientOwnersOperationType - Indicate one of the following operation types:

ADD - This will associate the user to a client computer

DELETE - This will disassociate the user to a client computer

OVERWRITE - To associate the user mentioned above and disassociate all the users available on the client computer. For example:

If user3 and user3 are already associated on client1, and you wish to overwrite the available users with user4. This operation associates user4 to the client1 and disassociates user2 and user3.

- 3. Save the file as input.xml.
- 4. From Command prompt, navigate to <Software_Installation_Directory>/Base and then run the following command:
 - $\circ~$ Login to the CommServe using the <code>qlogin</code> command and commcell credentials.

For example, to log on to CommServe server1 with username user1:

C:\>qlogin -cs server1 -u user1

- Run the XML using the qoperation command.
 - For example, to run input.xml

C:\>qoperation execute -af input.xml

- 5. You can verify the user associated to client from **Client Owners**.
 - From the CommCell Browser, right-click the **<Client>** and then click **Properties**.
 - Click Security tab.
 - $\circ~$ The user specified above will be listed in the Client Owners.

ASSOCIATE/DISASSOCIATE USER TO A CLIENT COMPUTER GROUP

Use the following steps to associate/disassociate user to client computer group.

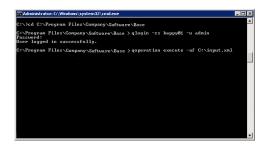
Once this is done the included user will have access to client computer group and can backup and restore their data on this client.

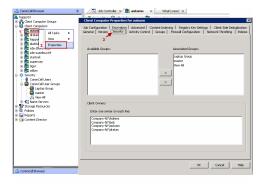
- Right-click the View Sample XML File link and click Save Link As... or Save Target As... to save the XML file needed for this task.
- 2. Open the **.xml** file using an XML editor and modify the following parameters:
 - clientName Specify the client computer groups to which you want to associate the user.

For example: If you wish to associate user group to **clientgroup1**, **clientgroup2** and **clientgroupx** then you must add the following:

<entity>

VIEW SAMPLE XML FILE





VIEW SAMPLE XML FILE

<clientGroupName>clientgroup1</clientGroupName>

<clientGroupName>clientgroup2</clientGroupName>

<clientGroupName>clientgroupx</clientGroupName>

</entity>

 clientOwners - Specify the user to which you want to associate to the client computer group.

For example: If you wish to associate ${\tt userl}$ to above client, then your element will appear as follows:

<clientOwners>user1</clientOwners>

o **clientOwnersOperationType** - Indicate one of the following operation types:

ADD - This will associate the User Group to a Client Computer Group

 $\ensuremath{\textbf{DELETE}}$ - This will disassociate the User Group to a Client Computer Group

OVERWRITE - To associate the user mentioned above and disassociate all the users available on the client computer group. For example:

If user2 and user3 are already associated on clientgroup1, and you wish to overwrite the available user groups with user4. This operation associates user4 to the client1 and disassociate user2 and user3.

- 3. Save the file as input.xml.
- 4. From Command prompt, navigate to <Software_Installation_Directory>/Base and then run the following command:

 $\circ~$ Login to the CommServe using the <code>qlogin</code> command and commcell credentials.

For example, to log on to CommServe server1 with username user1:

- C:\>qlogin -cs server1 -u user1
- Run the XML using the goperation command.

For example, to run input.xml

C:\>qoperation execute -af input.xml

- 5. You can verify the user associated to client from **Client Owners**.
 - From the CommCell Browser, right-click the <Client_Computer_Group> and then click Properties.
 - Click Security tab.
 - The user specified above will be listed in the Client Owners.

ADDING USER PROFILES AS OWNERS

By default, the following users will be designated as owners of the laptop (client) and will have privileges to access the Web Console or Backup Monitor tool.

• Active Directory users who are member of Local Administrators group of the laptop (client).

The Active Directory domain must be the domain name specified in step 31 during Add a New Domain Controller.

- The user account used while registering a new client with the **Register Me** tool.
- The user account used to install the Laptop Backup package.

Use the following steps to add user profiles as client owners.

- 1. Logon to the CommServe computer.
- From the Command prompt, login to the CommServe using the glogin command and commcell credentials.

For example, to log on to CommServe server11 with username user1:

C:\>qlogin -cs server1 -u user1

3. Run the following execscript operation using goperation:

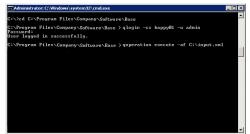
qoperation execscript -sn SetKeyIntoGlobalParamTbl.sql -si ClientGroupForLaptop -si y -si "Administrators,EnumUserProfiles"

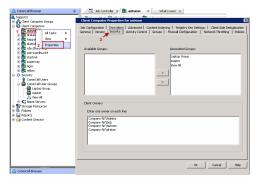
Where:

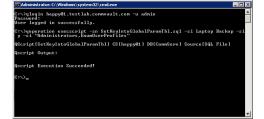
Administrators - is the Administrators group under local group.

EnumUserProfiles - are the user profiles defined in the laptop.

Make sure to include new groups with the existing groups while executing the script. If not the script will overwrite existing groups with the new group specified as a value in the script.







SPECIFYING ADDITIONAL USER GROUPS

By default, the following users will be designated as owners of the laptop (client) and will have privileges to access the Web Console or Backup Monitor tool.

• Active Directory users who are member of Local Administrators group of the laptop (client).

The Active Directory domain must be the domain name specified in step 31 during Add a New Domain Controller.

- The user account used while registering a new client with the **Register Me** tool.
- The user account used to install the Laptop Backup package.

If you want to designate all the users in a user group as owners of the laptop (client), follow the steps given below to specify the user group (defined in the laptop):

- 1. Logon to the CommServe computer.
- 2. From the Command prompt, login to the CommServe using the <code>glogin</code> command and commcell credentials.

For example, use the following command to log on to CommServe server11 with user1:

C:\>qlogin -cs server1 -u user1

3. Run the following execscript operation using qoperation:

USAGE:

```
qoperation execscript -sn SetKeyIntoGlobalParamTbl.sql -si
ClientGroupForLaptop -si y -si "Administrators,<group1>,<groupx>"
```

Where:

<Group1>,<Groupx>: Specify the name of the local user group, whose members will be added as owner of the laptop (client). You can add multiple local user groups as input to the script.

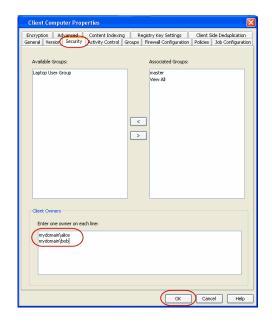
Make sure to include new groups with the existing groups while executing the script. If not the script will overwrite existing groups with the new group specified as a value in the script.



FROM COMMCELL CONSOLE:

Use the following steps to delete the users as client owners.

- 1. From the CommCell Browser, expand the Client Computer Groups | Laptop Backup.
- 2. Right-click the <Client_Computer> and select Properties.
- 3. Select Security tab.
- 4. Remove the specific owner from the **Client Owner** box.
- 5. Click OK.



FROM COMMAND LINE:

To remove multiple users from the client computer, see Associating/Disassociating User to a Client Computer



DEFINING THE CAPABILITIES FOR LAPTOP USERS

By default, the owners of the laptop (client) will have permissions to perform all operations from the Web Console and Backup Monitor.

If necessary, you can define specific capabilities to enable user interface options in the Web Console and Backup Monitor to client owners in the CommCell. Such capabilities include the following:

For Web Console:

- Running backup jobs
- Changing content rules
- Adding schedules
- Conducting browse/restore

For Backup Monitor:

Running backup jobs

Use the following steps to assign the security rights to the laptop user.

- 1. From the CommCell Browser, click Control Panel icon.
- 2. From the Control Panel, double-click Client Owner Capabilities.
- 3. Select Client Owner capabilities from the **Available Capabilities** list box.
- 4. Click **Include >** to move the selected capabilities to the **Assigned Capabilities** list box.
- 5. Click **OK**.

Г

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8	•	<u>s</u> i.		6 💌 (Cancel Help
ConnCel Dronser	: Conten				

The following table provides the list of specific rights that are applicable to a laptop user.

To view the additional rights available in the CommCell, see Capabilities and Permitted Actions.

AVAILABLE TASKS/OPERATIONS ON WEB CONSOLE	CAPABILITY ON CONSOLE	DESCRIPTION	WEB CONSOLE
Run backup now	Data Protection/Management Operations This capability is also required to enable Backup Now operation on Backup Monitor tool.	User can run the incremental backup jobs, but cannot Cancel or Suspend the backup job	Image: Control to the state of the state
Control Jobs (Suspend and Cancel jobs)	Job Management	User can resume, cancel or suspend the backup job	More and house backet Image: set in the set in t
Add new schedule	Data Protection/Management Operations Agent Scheduling	 User can perform the following in the Web Console: Create a new schedule Modify/Delete the existing schedules created by user 	

1		1	Laptop Backups 0	S ⊈ circle ≈
			▲ 🔛 My computers 💡 calico 👰 circle	Backup (8 A
				Last backup size. Therefy, Jun 14, 2011 10 (4:32 AM (12 H0)) Tetal backup size. 13 MB Bitomiccentrate
				Nett backup: Pródyr, Jon 17, 2011 (2010 00 AM Scheduler: - Extra dau en 1200 AM Add new schedule
				Content: C treatdaraiteadarait. C topodaraiteadarai2. C teastdaraiteadarai3 Change content to back up
			C Laptop Backupa	2
Change content to back up	Agent Management	User can perform the following in the Web Console:	Laytop Backups 0 a 🐏 My computers 👳 calico	Logged in User test Loggad Heip 👩
		Add a new content path	😨 cicle	Last backup: Thersday, Jun 16, 2011 10.54/32 AM (5.2 KB) Tetal backup size: 1.3 MB <u>Show recent licto</u>
		 Modify/Delete the existing content path created by user 		Next backup: Friday, Jun 17, 2011 12:00:00 AM Schedulur: - Extra das at 12:00 AM Add free schedulur
		• Exclude the content path specified by Administrator		Context: C'Inestantivestata', C'Inestantivestata, C'Inestantivestata Channes center to back up
			C Laptop Beckups	S Logod it User Het Logoz Help 😝
Select files to restore	Browse or Browse and In Place Recover or Browse and Out of Place Recover or	User can perform the following in the Web Console:	Laptop Backups • 👷 My computers 👳 ford	Gord Schup Last backup Monday, Mar 7, 2011 859.00 AM (3.3 Mb)
		 Restore the backed up data to the same place/different place as the original data protection operation. 		Total backup size: 3.3 MB Schore series taba Nest backup: Not scheduled Boy backup aw
		 Restore backed up data from a specific time range. 		Schedules: No schedules defined <u>Add new schedules</u>
				Chanse content to back up
			😪 Laptop Backups	Select fires to resident
				Logged in User: alice Logged Help

DEFINING DOWNLOAD PRIVILEGE TO LAPTOP OWNERS

By default, the laptop users will have permissions to perform all operations from the Web Console. If you have defined specific rules to enable the user interface options in Web Console, you can define the download privilege as follows:

- 1. From the CommCell Browser, expand the **Security** node.
- 2. Right-click the CommCell User Groups and then click New User Group.
- 3. Specify the user group name in **Name** box.
- 4. Click Capabilities tab.
- 5. Select **Browse and Out of Place Recover** and **End User Search** capabilities from the **Available Capabilities** list box.

Click > to move the selected capabilities to the **Assigned Capabilities** list box.

- 6. Click Users tab.
- 7. Select the existing users available in **Available Users** list.

Click > to move the selected capabilities to the **Member Users** list box.

8. Use the following steps, to add a new user:

- $\circ~$ Click $\mbox{Create new User}$ button.
- $\circ~$ Type name in User Name box.
- Type password in **Password** and **Confirm Password** box.
- $\circ~$ Type name of a user in Full Name box.
- Type email address in **E-Mail** box.
- O Click OK.
- $\circ~$ The user will be displayed in the $\ensuremath{\textbf{Available Users}}$ list.
- $\circ~$ Repeat step 7 to assign the above user to User Group.
- 9. Click **OK**.

MODIFYING THE DOCUMENTATION LINK FOR BACKUP MONITOR

By default, the Backup Monitor tool 😢 button is configured to launch Laptop User Guide documentation directly from the documentation web site.

However, if you wish to modify the default location to the documentation site that is hosted on intranet site or on a shared network location, use the following



steps.

- 1. Logon to the CommServe computer.
- 2. From the Command prompt, login to the CommServe using the <code>qlogin</code> command and commcell credentials.

For example, to log on to CommServe server11 with username user1:

C:\>qlogin -cs server1 -u user1

3. Run the following **execscript** operation using **qoperation**:

USAGE:

```
qoperation execscript -sn SetKeyIntoGlobalParamTbl.sql -si
CustomLinkToDocumentationWebSite -si y -si "<URL>"
```

EXAMPLE:

```
qoperation execscript -sn SetKeyIntoGlobalParamTbl.sql -si
CustomLinkToDocumentationWebSite -si y -si "www.xyz.com"
```

Where:

<ur>Specify the path of the hosted intranet site or shared network location.

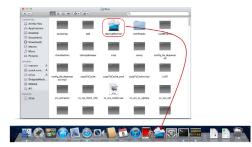
LAUNCHING APP FOR BACKUP MONITOR

The **Backup Monitor** tool is used to view, control and initiate the backup operations. Follow the steps given below to add the BackupMonitor App in the application dock:

1. Navigate to following location using Finder:

\opt\calypso\Base\

2. Drag and Drop **BackupMonitor** app to the application dock.



ENABLING SECURED ACCESS FOR WEB SEARCH CLIENT

Use the following steps to enable secured access on the Web search client. This will allow you to access the Web Console using https instead of http.

INSTALL JAVA WITH ALL THE UPDATES

- 1. Stop the Tomcat services
- 2. If UAC is enabled, disable it.
- 3. Download and install the latest version of JAVA with all the updates on the Web client computer.
- 4. Open the command prompt window on the Web client computer, and execute the following command to verify if JAVA has been properly installed on the Web client computer:

C:\java -version

If you find that JAVA with the latest updates has not been installed, uninstall JAVA that you have installed and reinstall it again with all the updates. Navigate to the command prompt on the Web client computer, and run the command specified in step 4 to verify if JAVA has been installed successfully.

Skip this step if the updates are installed successfully.

- 5. Start Tomcat services. If the Tomcat fails to start, point the JVM manually to Tomcat using the following steps:
 - o Open the command prompt window on the Web client computer, navigate to openct_INSTALL_PATH>\apache\bin folder and execute the following
 command:

C:\<PRODUCT_INSTALL_PATH>\Apache\bin>tomcat6w.exe //ES//GxTomcatInstance001

where, Instance001 is the instance installed on the WebClient computer.

- o On the Tomcat Services Instance properties dialog box, click the Java tab, and clear the Use default check box.
- Restart Tomcat services

CONFIGURE SSL ON THE TOMCAT SERVER

Use the following steps for configuring SSL (Secure Socket layer) on the Tomcat Server:

1. Navigate to command prompt and run the following command:

C:\Program Files\Java\jre6\bin>keytool -genkey -alias cvtomcat -keyalg RSA -keystore "C:\Program Files\company\product\Apache\cert\keystore"

2. Backup the server.xml file located in <product_install_path>\Apache\conf before making any changes to it.

3. In order to setup a JAVA JSSE connector to support SSL, search for the following entry in the server.xml:

<Listener className="org.apache.catalina.core.AprLifecycleListener" SSLEngine="on" />

Modify the above entry as following:

<Listener className="org.apache.catalina.core.AprLifecycleListener" SSLEngine="off" />

4. Add the following entry to the server.xml file:

<Connector port="443" protocol="org.apache.coyote.http11.Http11NioProtocol" SSLEnabled="true" maxThreads="150" scheme="https" secure="true" clientAuth="false" keystoreFile="C:/Program Files/CommVault/Simpana/Apache/cert/keystore" keystorePass="mnoettomcat" sslProtocol="TLS" />

5. Save the server.xml file, and restart the Tomcat services.

For more information, refer to http://tomcat.apache.org/tomcat-6.0-doc/ssl-howto.html.

CONFIGURING JOB RESTARTABILITY

Jobs that fail to complete successfully are automatically restarted based on the job restartability configuration set in the Control Panel. For laptop backup jobs and install updates job, it is recommended to configure the job restartability as follows:

- 1. From the CommCell Browser, click Control Panel icon.
- 2. Select Job Management.
- 3. From the Job Type list, select File System and Indexing Based (Data Protection) .
- Select the Enable Total Running Time check and specify the Total Running Time as 720 or 1440 hrs. The Total Running Time is the maximum elapsed time before a job can be restarted or killed.
- 5. Select the **Kill Running Jobs When Total Running Time Expires** check box to kill the job after reaching the maximum elapsed time.
- 6. From the Job Type list, select Install Updates.
- Select the Enable Total Running Time check box and specify the Total Running Time as 72 hrs. The Total Running Time is the maximum elapsed time before a job can be restarted or killed.
- Select the Kill Running Jobs When Total Running Time Expires check box to kill the job after reaching the maximum elapsed time.
- 9. Click **OK.**

LICENSE REQUIREMENTS

Laptop Backup requires following licenses based on the License Type:

- For traditional license:
 - o iDataAgent for Apple Macintosh File System license is required for each laptop client.
 - **Block Level Deduplication** license is required for the MediaAgent hosting the deduplication store.

For more information on licensing, see License Administration.

• For License Usage by Capacity, both Data Protection Core (for Backup) and Data Protection Enterprise (for Backup) license can be used.

For more information, see License Usage by Capacity.

SEE ALSO

- Alternate Data Path (GridStor) Provides complete information on Alternate Data Paths.
- Firewall provides information on configuring the different types of firewalls.

