

neo®

Integrating NEO[®] Tape Libraries with Dell EMC NetWorker 9.2

INTEGRATION BRIEF



Dell EMC NetWorker 9.2 supports many Overland-Tandberg tape libraries including NEOs StorageLoader (1U), NEOs T24 (2U), NEOxI 40 (3U), and NEOxI 80 (6U).

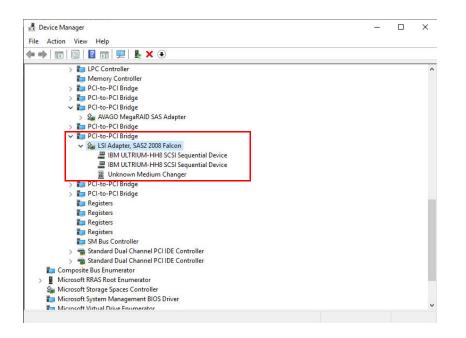
This guide explains how to configure a NEOxI 80 to work with Dell EMC NetWorker in a Windowscentric environment. This process is the same for the other supported NEO tape libraries (NEO StorageLoader, NEOs T24, and NEOxI 40).







Integrate NEOxI 80 with NetWorker 9.2



 Open Windows Device Manager and verify all devices are displayed.
 In this example, a NEOxl 80 and two LTO-8 drives are shown.
 The IBM LTO tape device drivers are required on a Windows platform.



File Edit View Devices V



Administrator: Comman	nd Prompt		—	×
C:\Users\Administrat C:\Users\Administrat				
		which may take over 10 minutes per ters. Please be patient.		
scsidev@0.7.0∶IBM		K4K1 Tape, \\.\Tape0 5/N: 11c27E7065 ATNN-T8M ULTRIUM-HH8 WWRN-5000E111c27E7065 WW2N-5000E111c27E7066 WW2N-5000E111c27E7065 PORT=00000001 Can Encrypt & Decrypt		
scsidev@0.8.0:IBM		<pre>K4K1 Tape, \\.\rape1 S/N: 11c27E705B ATNM-IBM ULTRIUM-HH8 WANN-S000E111c27E705C WA2N-S000E111c27E705C WA2N-S000E111c27E705B PORT=00000001 SCSI Check getting encrypt</pre>		
scsidev@0.8.1:BDT		1.20 Autochanger (Jukebox), S/N: DE56400114_LL01 ATNN=BDT MULTISTAK WNN=5000E111C27E785E		
scsidev@5.0.0∶SMC		Disk, \\.\PhysicalDrive0 S/N: 00ec01907d1101e25001 WNN=6003048003441D00251E1		
scsidev@5.64.0: RAI 1 Disk, 2 Tape, 1 Au				
C:\Users\Administrat	tor>			

🖳 Hosts

Server

2. Display the NEO tape drives and library using a command utility. From a command prompt issue "inquire -I" command.

- 3. Use the following steps in NetWorker Administration to scan the tape library and drives.
 - a. Click the **Devices** option.
 - b. Navigate to Storage Node, right-click the server, and select Scan for Devices.

Select existing or	create new storage	nodes to scan	
Create a new Stor	age Node		
Scan Storage No		arch Use Persiste	Exclude SCSI Paths
🗹 sd32128wi	n2019 Ye	s No	
	-		
lpdate storage no	de properties if req	uired	
			he' [
		uired Exclude SCSI Pati	hs;
Storage Node Name:	sd32128win2019		hs:
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Storage Node Name: Search all LUNs: Jse Persistent Name Device Scan Type:	sd32128win2019 Yes Is: No		hs:
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Storage Node Name: Search all LUNs: Jse Persistent Name Device Scan Type:	sd32128win2019 Yes Is: No		hs.
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Jpdate storage no Storage Node Name: Search all LUNs: Use Persistent Name Device Scan Type: NDMP User Name: NDMP Password:	sd32128win2019 Yes Is: No		BS
Storage Node Name: Search all LUNs: Use Persistent Name Device Scan Type: NDMP User Name:	sd32128win2019 Yes Is: No		hs.
Storage Node Name: Search all LUNs: Use Persistent Name Device Scan Type: NDMP User Name:	sd32128win2019 Yes Is: No		hs:

c. At the Scan for Devices window, click Start Scan.

- Devices					
Data Domain Systems	Name 🔻		Comment	Description	Enabled
CloudBoost Appliances					
NAS Devices					
Libraries					
Storage Nodes					
sd32128win2019	Properties	CtrI-O	1		
Staging	Properties	Caro			
- WWware Backup App	Delete	Delete			
VMware Proxies	Refresh	F5			
	Enable/Disable	15			
-	Enable/Disable				
-	Configure All Librar				
L_	Configure All Librar	ies	1		

😲 NetWorker Administration V9.2.2.3 - sd32128win2019 (NetWorker 9.2.2.3.Build.479 Eval - Windows NT Server on Intel)

Help

DELLEMC NetWorker Monitoring Votection Recover



🕄 Net

DELLEMC | NetWorker Monitoring Protection

S Library: BDT@0.8.1

🕔 Configure Library

Library to configure Storage node name: sd32128win2019

BDT@0.8.1

Configure devices on various storage nodes using existing drive co storage node
LTO Ultrium-8(2)

\\\Tap

Library name:

Drive Serial Number

Name -Name -LTO Ultrium-8(1)

LTO Ultrium-8(2)

BDT@0.8.1

- Staging - - VII ware Backup Applia - - VII ware Proxies

- Devices

Data Domain Systems

NAS Devices
Ubraries
BDT@0.8.1
C Ultrium-8(1)
C LTO Ultrium-8(2)
Storage Nodes
sd32128win2019

CloudBoost Appliances



sd32128win2019	Cibrary: BDT@0.8.1				
Data Domain Systems	Name 💌	Drive Serial Number			Drive Number
CloudBoost Appliances	CTO Ultrium-8(1)	Serial Numbers:WWNN=5000E111C27E705B:ATNN=IBM	ULTRIUM-HH8	11C27E705B:11C27E705B	1
NAS Devices	S LTO Ultrium-8(2)	Serial Numbers:WWNN=5000E111C27E7065:ATNN=IBM	ULTRIUM-HH8	11C27E7065:11C27E7065	2
	Refresh F5				
	Configure Library				
F					
F	Scan for Devices				

Devices Media

Serial Numbers:WWNN=5000E111C27E705B:ATNN=IBM ULTRIUM-HH8 11C27E705B:11C27E705B

Serial Numbers:WWNN=5000E111C27E7065:ATNN=IBM ULTRIUM-HH8 11C27E7065:11C27E7065

LTO Ultrium-8(1

🖳 Hosts

Serve

Drive Number

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×

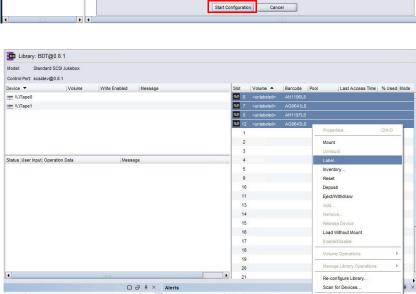
Check All

Clear All Reset

Configure All Libraries.

1.70

- 4. Use the following steps in NetWorker Administration to configure the discovered tape library and drives.
 - a. Click the **Devices** option.
 - b. Navigate to **Storage Nodes** and right-click the library.
 - c. Select **Configure Library** from the drop-down.
 - d. Verify the tape drive boxes are checked and then click **Start Configuration.**



i This storage node's configuration may not be up-to-date. A re-scan operation is suggested to ensure the configuration is c

Category Message Priority Time ▼ Category Message

e. Select all the medias discovered, right-click the group, and select **Label**.





D&LLEMC Net	Norker 🔤 Monitoring 🔘 Protection	Recover	Devices	TS Media	👤 Host	ts 📊	Server	administrator 💄
ile Edit View Devices Wind	ow Help	🚺 Label Library Med	lia	:	<			
Statistic Application Statistic Ap	Library: BOT@0.8.1 Hotel: Standard SCD Jakebox Control Phrs.scatkerv@0.8.1 Device ~ Volume == Vriteet0 == Vriteet0 == Vriteet0 Status (User Input) Operation Data	Sectary methods Sectary Sectary	Volume <unlabeled> <unlabeled> <unlabeled> <unlabeled></unlabeled></unlabeled></unlabeled></unlabeled>	Pod	Slot 60 6 60 7 60 8	-unhabeled> -unhabeled> -unhabeled>	Barcole Pool AntTROGUS AntTROGUS AntTROGUS AntTROGUS	Last Access Time % Used (Bode
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• •		Default			- 1 21			
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riority Time A Source	Category Message	Volume Label:			tategory			
Wednesday 11:27:3 event	media Hardware status of jukebox 'BDT	Bar Code Label			egistr_	CLR/ELMS serve	er for basic license infor	mation found the following: 'CLP API returned
Wednesday 11:26:5 event	registr Registration Warning event: CLR/	Operation Options			5			
Wednesday 11:25:3 event	media Finished searching for new back	Prompt to Overwrit	te Existing Label					
Wednesday 11:25:2 event	media Could not find NSR device resour							
Wednesday 11:25:2 event	media Found new LTO Utrium-8 device	Allow Manual Recy	ycla		1			
Wednesday 11:25:2 event	media Could not find NSR device resour				-			
			OK Cancel	1				
Wednesday 11:25:2 event	media Found new LTO Utrium-8 device							

 f. When the Label Library Media dialog box appears, enable
 Allow Manual Recycle and click
 OK to start the label process.

A status message shows succeeded when all tapes are labeled. Additional parameters are displayed for the labeled media.

Verses Proces
 Verses
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Library: BDT@0.8.1

ev@0.8.1

 g. Alternatively, using the
 "nsrjb –v" command can also list the status of the library and media.

ox BDT@0.8.1: volume	(Ready to account used pool		<pre>>) volume id</pre>		
AG8641L8 AH1197L8			4288554916 4271777809	manually manually	
		C AG8643L8			
			less than 80% f		
	ed capacity, 4				
		e 1-27			





ie E	Edit View Prote	ction Windo	w Help									
	sd32128win2019		📄 Cli	ents (1)								
	Cliente	Client Wizard		0.000						/ ~		
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	- New		Ctrl-N		Bac	skup type	Comment	1		Save set		Pr.
	- Refre	sh	F5 32	128win2019					c	:/dqt_40/sat-	ite_dqt/tmp/random	N
	NMC server											
		system										
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g rity ¹	Time A			W)Tape1 elected			-		Wednesday 10:02:9	registr	CLIP/FLMS server for basic license infr	rmation found the following: 'CLP 4
	Time 🔺 Wednesday 11:35:4. Wednesday 11:35:4.	W.\Tape1	media media	W.\Tape1 ejected	peration in progress		-	•	Wednesday 10:02:5	i registr	CLP/ELMS server for basic license info	ormation found the following: 'CLP A

5. Use the next steps to configure a client for backup.

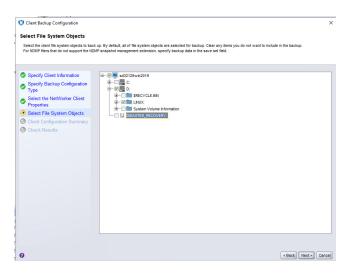
As we have done in our example, the client for backup can be the NetWorker server.

- a. Click the **Protection** option and right-click **Clients**.
- b. Select New Client Wizard.

The Client Backup Configuration wizard opens.

c. Enter the client or host name for backup and click **Next**.

Client Backup Configuration × Specify Client Information information about the client. The hostname of the client and the client type are 🖉 S ent Information Client Name: ad32128win2019 Spec.
 Type E For re 0 Comment 00 Tag Туре O NAS Ø Back Next > Cancel



d. Select the source for backup and click **Next**, then click **Create**.



Client Backup Configuration

Client Configuration Results



Client Backup Configuration				
Client Configuration Summary				
Review the client configuration summary inform	mation. Click Back to correct config	uration information on a previous scre	een.	
	Adding new client "sd32128	win2019"		- I I I I I I I I I I I I I I I I I I I
Specify Backup Configuration Type	Save set: Name:	D:\LINUX sd32128win2019		
Select the NetWorker Client Properties	Backup Type: Snapshot Management:	Filesystem false		
Select File System Objects	Priority: Parallelism	500		
Client Configuration Summary	Block based backup:	false		
Check Results	Client direct: Parallel save streams:	true faise		
	Data Domain interface:	P		

e. Verify the configuration and click **Create**.

f. Click Finish to exit the wizard.

Specify Client Information	Adding new client "sd32128win2019"	-
Specify Backup Configuration Type	Successfully added new client "sd32128win2019"	
Select the NetWorker Client Properties		
Select File System Objects		
O Client Configuration Summary		
Check Results		
		-
		k Finish Cancel

Review the results of the client configuration process. When the configuration operation fails, error messages appear in the Operation Status window. After you successfully create the client, ensure that the dependent resources, for example, user group privileges and required devices are properly configured ×

Edit View Protection Window	rker 🔤 Monit			_			_
sd32128win2019	Groups (9)						
Group-	Showing: 9 of 9 It	ems <u>Clear All</u>					
Rew Ctrl-N	Search Name	Search Comment	Search Group Typ	Search Work Items	Search Policies	Search Workflows	Search Backup Optimization
- C Refresh F5	Name 👻	Comment	Group Type	Work Items	Policies	Workflows	Backup Optimization
Gold-Hyper-V	🛠 Bronze-Appl	Default protection	Clients		Bronze	Applications	
Gold-Vmware	Sronze-Files	Default protection	Clients		Bronze	Filesystem	
MC server	Gold-Hyper-V	Default protection	Clients		Gold	Hyper-V	
Platinum-Filesystem	Gold-Vmware	Default protection	VMware		Gold	VMware	Capacity
Server Protection	NMC server		Clients	sd32128win2019	Server Protection	NMC server back	
Silver-Application	Natinum-File	Default protection	Clients		Platinum	Filesystem	
Policies	Server Prote	Default protection	Dynamic Clients	all-clients	Server Protection	Server backup	
Bronze	Silver-Applic	Default protection	Clients		Silver	Applications	
B Sold B Sold B Server Protection B Silver	Silver-Filesy	Default protection	Clients		Silver	Filesystem	

- 6. Use the next steps to configure a **Group** for backup.
 - a. Click the **Protection** option.
 - b. Right-click **Groups** and select **New**.



File Edit View Protection Window Help

Bronze-Application

Stonze-Filesystem

- Platinum-Filesyster

Server Protection

Silver-Application Silver-Filesystem

Polici G Refresh F5 Platinum

 Server Protection
 Silver Probes

-14 Schedules - (VMware View

Gold-Hyper-V

Gold-Vmware

NMC server

sd32128win2019

Groups



eate Group							
ral \ Restricted D	ata Zones \						
entity							
Name:	Windows Filesyst	tem		Comment:			
Group Type:	Clients		•				
Sub-Type:			•	Policy-Workflow:			
Clients							
Add/Remove se	elected Clients to/from th	he following Groups					Current Number of Clients in Group:
1	Selected Clients	Name 🔻		Backup type	Comment	Tag	
		Sd32128win2019					
	V	sd32128win2019					

Sea

Filesystem

General Restricted Data Zones

Send notification: On Completion

Identity Co

Notificat

Command

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rkflows Search G

Filesystem, Appli... Bronze-Filesyste... On Completion

VMware, Hyper-V Gold-Vmware, G... On Completion

Server backup, N... Server Protection... On Completion

nsrlog -f policy_notifications.log OK Reset Cancel

Workflows Groups

oups

Platinum-Filesystem On Completion

Send notification

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Hosts

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Command

Serve

nsrlog -f policy_notifications.log

D&LLEMC NetWorker and Monitoring Protection Recover Devices 78 Media

Search C

Comment

Template policy: Bronze

Template policy: Gold

Template policy: maximum. Default policy for server that includes.... Serve Template policy: Platinum

Policies (5) Showing: 5 of 5 t

Search N

Name -

Bronze

Gold

S Platinum

Silver

Server Prote...

c. Check to enable the client under the Selected Clients and click OK.

- 7. Use the next steps to configure a Group for backup.
 - a. Click the Protection option.
 - b. Right-click Policies and select New.

- DELLEMC NetWorker Monitoring Protection Recover Hosts Serve File Edit View Protection Window Help Policies (5) Clients Sroups Bronze-Application Bronze-Filesystem Search I Search C Sei rkflows Search Gro Name 🔻 Comment Workflows Groups Send notification Command Bronze Template policy: Bronze Filesystem, Appli... Bronze-Filesyste... On Completion nsrlog -f policy_notificatio Gold-Vmware Gold Template policy: Gold VMware, Hyper-V Gold-Vmware, G... On Completion nsrlog -f policy_notifications.log NMC server S Platinum Template policy: Platinum Filesystem Platinum-Filesystem On Completion nsrlog -f policy_notifications.log Platinum-Filesyste Server Prote... Default policy for server that includes ... Server backup, N., Server Protection... On Completion nsrlog -f policy_notifications.log Create Policy × Silver Template policy: Silver nsrlog -f policy_notifications.log Silver-Application General Restricted Data Zones Windows Filesystem Identity Bronze Name: Standard Fielsystem Gold • Comme B Server Pro Probes Notifications Send notifica On Completion -K VMware View Command nsrlog -f policy_notifications.log OK Reset Cancel 0
- c. In the Create Policy dialog box, provide a name for the Policy and click OK.



🚺 New Workflow

vs Test And Bac

Identity

Name

Notifications

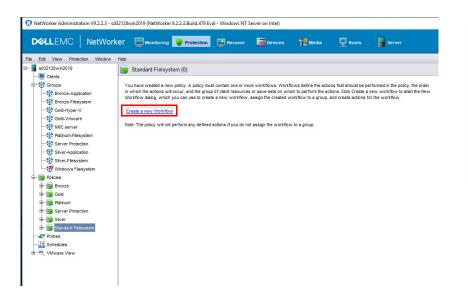
Name *

0

Send notification: Set at Policy Level

Соп





Running

Enabled

AutoStart En

Start Time

Restart Wi

Groups

Groups

Comment Type Subtype Force Ba... Enabled Previous Concurrent Schedule Di... Retenti... Pool St.

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OK Reset Cancel

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24 🗘 Hours 🗘

24 🗘 Hours 🗘

Windows Filesystem

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Add Edit Delete

d. Under Policies, select Standard Filesystem, and click the Create a new workflow option.

- e. Provide a name for the new Workflow and click **OK**.
- f. Use the **defaults** for the rest of the Workflow configuration.
- g. Click **Configure** when the option appears.

- 🚺 Policy Action Wizard Specify information about the action and define the select the workflow from the Workflow drop down action at the same time as the action defined in the If the Period Specify the Action Info Name: skly by day (For ex backup • We nple Sunday, Friday, etc.) 0 • 0 õ Make Al Ful Action Type Backup Fri Wed Thu \$ • = ۵ ŧ Force Bar Standard R Check Co 0 Next >
- h. Provide a name for the action. In this example, we are using "backup".
- i. Click the Action Type drop-down list and select the **Backup** option.
- j. Click Next to continue the wizard.





city the Action Information	Creating new Action			-
ecity the Backup Options	Name:	backup		
ecily the Advanced Options	Comment			
	Enabled:	true		
ion Configuration Summary	Workflow:	Windows Test And Backup		
ion Wizard Results	Previous: Concurrent	Check Connectivity false		
	Action Type:	backup		
	Backup Subtype:	traditional		
	Force Backup Level			
	Period:	week		
	Actions:	full, incr, incr, incr, incr, incr, incr		
	Destination Storage Node:	narserverhoat		
	Destination Pool:	Default		
	Retention: Apply 00 Retention Lock:	1, Months folse		
	Apply DD Heterition Look: Success Threshold:	success		
	Client Override Behavior:	clentCanOverride		
	Retries:	1		
	Retry Delay:	1		
	inactivity Timeout:	30		
	Parallelam	100		
	Failure Impact Soft Limit	O Hours		
	Hard Linit	0 Hours		
	Send notification:	ignore .		
	Command			
	Overrides:			
				DOAX
				LP API returned .

k. When the Configuration Summary appears, click **Configure**.

Under the new policy, a new workflow with the backup activity has been created.

	Monitoring	Vertection Recover	Devices (12 M	ledia	보 Hosts	Serv	er		aurin	
Edit View Protection Window										
sd32128win2019	G Windows Test A	nd Backup (2)								
Groups	Actions:									
Bronze-Application	Name 👻	Comment Type	Subtype Force Back	Enabled	Previous	Concurrent	Schedule Di.	Retention	Pool	StorageN
Bronze-Filesystem	😨 backup	Backup	Traditional	× .	Check Conn			1 Months	Default	nsrserver
- Gold-Hyper-V	G Check Connectivity	Check Connectivity		~			AAAA	1		
Gold-Vmware										
- NMC server										
Platinum-Filesystem										
	Workflow - Visual Represe	antation								
- Silver-Filesystem										
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🕀 🛐 Gold										
🖶 🏐 Platinum										
		Windows Filesystem	Check Connectivity	/ * c	lients to Backup /	-	ackup	-/ Ribefault /	1	
E Server Protection			<u> </u>			<u> </u>	<u> </u>			
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DELLEMC NetWorker Monitoring Protection Recover E Devices Hosts Server File Edit View Monitoring Window Help ies Status Group Start Time Duration Next Run Save Set Name Silver 👿 Sta 💷 📑 Windows Test 10/9/19 9:00:00 F Show Details. 10/9/19 9:00:00 PM backup
 Show
 Show 10/9/19 9:00:00 PM Policies A Start Individual Client. All Sessions (0) Duration Device Client Na Start Time Size Rate Proxy Name All Sessions Save Sessions Recover Sessions Clone Sessions Synthetic Sessions Devices Status Device -It.\Tape0 It.\Tape1 Storage No... Library sd32128wi... BDT@0.8.1 Messag sd32128wi... BDT@0.8.1 Default ejected

😲 NetWorker Administration V9.2.2.3 - sd32128win2019 (NetWorker 9.2.2.3.Build.479 Eval - Windows NT Server on Intel)

- 8. Use the next steps to start a backup using the newly created **Client Group | Policy | Workflow**.
 - a. Click the Monitoring option.
 - b. Right-click the **backup workflow** and select **Start**.





D&LLEMC	NetWorker	Monitoring	Protection	Recover	Devices	TS Media	💂 Hosts	Server	
File Edit View Monito	ring Window Help								
Policies									
Name	Status	Group	Start Time		Duration Next Run	Save	e Set Name	Device	Le
B S Platinum									
Server Protection									
Silver									
Standard Fielsystem	0		10/9/19 12:02:			10-10-10-10-10-10-10-10-10-10-10-10-10-1			
😐 📴 Windows Test An	d Backup 🛛 🌐	Windows Filesys	tem 10/9/19 12:02:	26 PM 00:02		00:00 PM			
4					33333				
Policies Actio	ns								
ype Client Name 🔻	Save Set Policy	Group	Start Time	Duration Device	Size	Rate Proxy Na	ime		
ype Client Name 🔻	1		Start Time			Rate Proxy Na 56 MB/S	ime		
Type Client Name 💌	1		The second s				ime		
ype Client Name 🔻	1		The second s				ime		
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Type Client Name 💌	D:\LINUX Standard	d Fi Windows File.	10/9/19 12:03:03	00:02:09 \\.\Tape	0 23 GB 2		ime		
Type Client Name 👻 save 💻 sd32128win	D:\LINUX Standard		10/9/19 12:03:03		0 23 GB 2		ime		
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Media Loads: 350	Encryption: Not Encrypted Media Type: Data							
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The status of the library can be seen using the NEO RMI.

A detailed status report appears.

Sales and support for Overland-Tandberg products and solutions are available in over 90 countries. Contact us today at sales@overlandstorage.com or sales@tandbergdata.com

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